

# ACCESS MANAGEMENT STUDY

**SR 520 from West of Newfound Harbor Drive  
to East of South Banana River Drive**

**Brevard County, Florida  
Section 70100: MP 12.450 – 13.100**

PREPARED FOR:

**THE FLORIDA DEPARTMENT OF TRANSPORTATION  
DISTRICT 5 TRAFFIC OPERATIONS  
719 South Woodland Boulevard, MS 3-562  
DeLand, Florida 32720**



Districtwide Community Traffic Safety Program (CTSP)  
Financial Project ID: 237995-1-32-11  
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Task Work Order: 7

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## EXECUTIVE SUMMARY:

Comprehensive Engineering Services, Inc. (CES) was retained by the Florida Department of Transportation to complete a Access Management Study along State Road (SR) 520 from west of Newfound Harbor Drive to east of South Banana River Drive in Brevard County, Florida. The subject 0.65-mile corridor is a six-lane facility with a center two-way left turn lane. The posted speed limit is 45 MPH and the corridor has an access management classification of Access Class 3. Improvements considered to bring the subject corridor into compliance with current access management criteria include the installation of a restricted median.

Over a recent five year period (2010 – 2014) there were a total of 135 reported crash incidents within the subject corridor limits. The predominant crash types include 66 rear end crashes, 26 left turn angle crashes and 15 sideswipe crashes. Of the 135 crashes, 57 resulted in injuries, four were fatal collisions, and all included a total of \$596,597 in property damage. 40 crashes occurred at night, 15 occurred under wet pavement conditions, and seven involved a driver under the influence. The segment and intersection crash rates for the subject corridor are less than the Districtwide and Statewide crash rates with the exception of the Newfound Harbor Drive intersection which is slightly greater.

Traffic signal timing optimization at the intersections for the peak hour periods began with the review of the operational conditions associated with the existing cycle lengths and split timings. Proposed access management modifications with adjusted turning movement counts were used in the analysis of the proposed condition. Synchro software was then programmed to optimize the intersection cycle lengths, split timings and coordinated offsets. For the proposed condition, overall intersection delays and associated levels of service are adequate (LOS D or better) for all peak hour periods.

By providing a restrictive median, the subject corridor will meet Access Class 3 standards for purposes of this study. Signal and driveway connection spacing were not considered as it was assumed that all existing and/or planned driveway connections are per permit and would require additional coordination with the local governing agency and property owners prior to modification. The crashes anticipated to be mitigated by the proposed median installation involve left turning vehicles to and from driveways. The proposed median will eliminate the vehicular turning movements that directly contribute to these crashes, thereby increasing safety through the corridor.

The engineering and construction efforts for the aforementioned improvements are anticipated to cost approximately \$473,050. A Benefit-Cost Analysis and Net Present Value assessment were completed for the improvements utilizing crash reduction factors detailed in the AASHTO Highway Safety Manual (and related documents). The resulting values for these assessments are as follows which show that the proposed safety improvements can be justified from a crash mitigation perspective:

**BENEFIT-COST RATIO = 4.91**

**NET PRESENT VALUE = \$1,821,854**

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## **1. PURPOSE & SCOPE:**

The purpose of this access management study was to evaluate needed improvements to bring the subject SR 520 corridor in Brevard County, Florida into compliance with current access management criteria (designated Access Class 3). This study was requested by the Florida Department of Transportation (FDOT). The evaluation considers existing traffic and operational conditions in combination with a historic crash analysis. The final conceptual design for the corridor considers the traffic safety and operational impacts associated with introducing access management median restrictions along the corridor. Benefit-cost ratio and Net Present Value estimates are also calculated for the proposed improvements.

This study included crash and volume data collection and evaluation using criteria specified in FDOT's Manual on Uniform Traffic Studies (MUTS), FDOT's Traffic Engineering Manual (TEM), FDOT's Standard Index, FDOT's Plans Preparation Manual (PPM), FDOT's 2014 Median Handbook and the Manual on Uniform Traffic Control Devices (MUTCD).

## 2. EXISTING CONDITIONS:

The subject corridor is located along SR 520 (East Merritt Island Causeway) from west of Newfound Harbor Drive to east of South Banana River Drive (State Section #70100, MP 12.450 – 13.100). SR 520 is an Urban Principal Arterial that runs east-west within the unincorporated area of Merritt Island in Brevard County. The associated Straight-line Diagram is included as Appendix A. A study location map is included as Figure 1. SR 520 is a six-lane roadway with a center two-way left turn lane (TWLTL) and has a suburban typical section. Six 12-foot wide travel lanes are provided, three eastbound and three westbound, and a 14-foot wide center two-way left turn lane. 5-foot wide sidewalks exist along the north and south side of the roadway. Paved shoulders are present along SR 520 in both directions measuring 8 feet wide. The existing typical section is included as Appendix B. The posted speed limit along SR 520 is 45 MPH.

Figure 1: Location Map  
(Source: Google Maps)

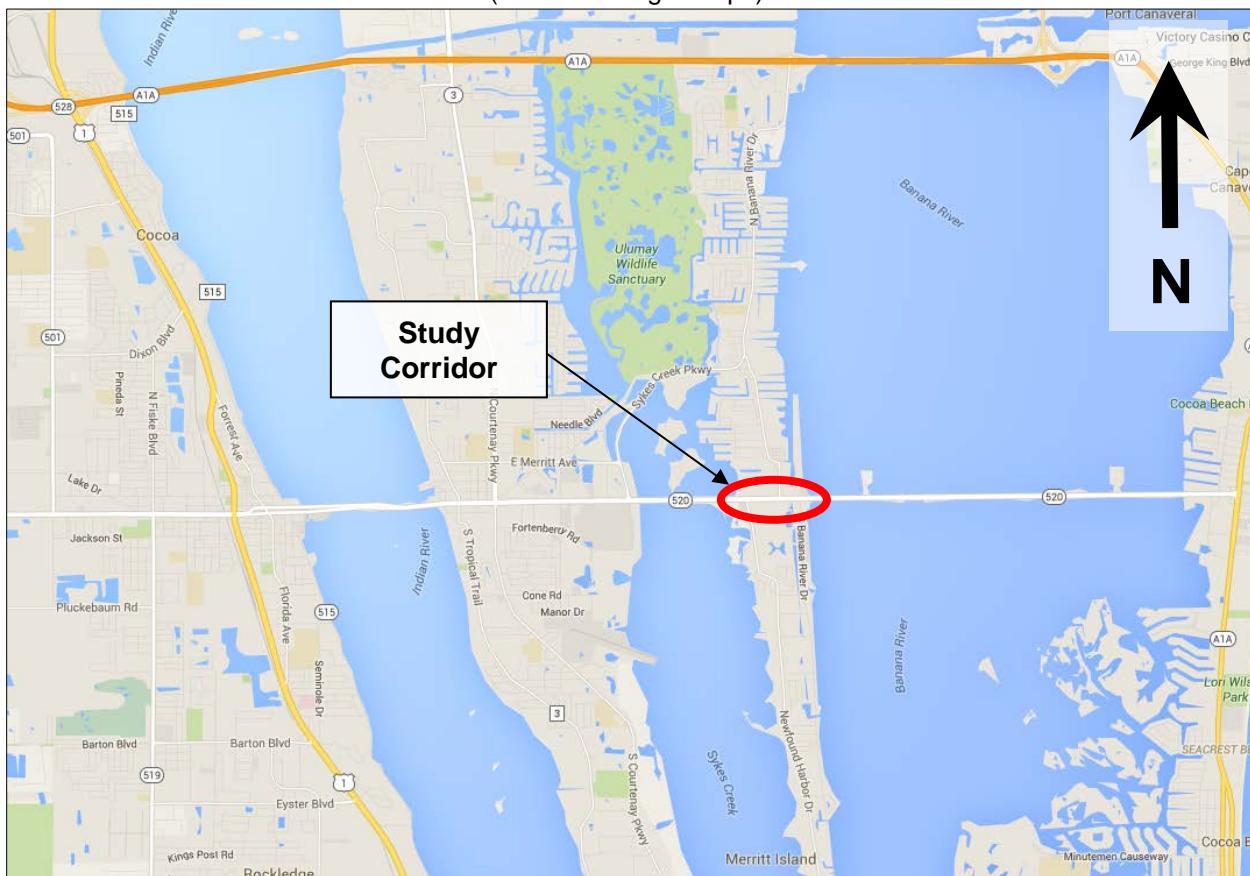


Table 1: Summary of Existing Conditions

| Feature                   | Description   |
|---------------------------|---|
| Study Limits              | <ul style="list-style-type: none"> <li>SR 520 in Brevard County, Section 70100 from MP 12.450 – 13.100</li> </ul>   |
| Area Location             | <ul style="list-style-type: none"> <li>The study corridor is located approximately four miles east of US 1. The E. Merritt Island Causeway adjoins both ends of the corridor. The surrounding area is commercial with access to residential areas north and south of the corridor</li> </ul>                |
| Typical Section           | <ul style="list-style-type: none"> <li>SR 520 is a six lane roadway with a center two-way left turn lane, with a suburban typical section and a drainage ditch system with inlets</li> </ul>  |
| Functional Classification | <ul style="list-style-type: none"> <li>Classified as an Urban Principal Arterial Other</li> </ul>   |
| Posted Speed Limit        | <ul style="list-style-type: none"> <li>The posted speed limit on SR 520 is 45 mph throughout the study limits</li> </ul>  |
| Access Classification     | <ul style="list-style-type: none"> <li>Assigned: Class 3 – Restrictive:<br/>Spacing: 2640' Signal and Full, 1320' Directional, 440' Connection</li> </ul>   |
| Traffic                   | <ul style="list-style-type: none"> <li>AADT = 25,500; D = 53.80%; T = 2.90% (2014)</li> <li>FDOT Count Station 701007 located on SR 520 at MP 13.108</li> </ul>   |
| Signalized Intersections  | <ul style="list-style-type: none"> <li>Newfound Harbor Drive/Walmart Superstore, MP 12.603</li> <li>N. Banana River Drive, MP 12.857</li> <li>S. Banana River Drive/Milford Point Drive, MP 13.013</li> </ul>   |
| Sidewalks                 | <ul style="list-style-type: none"> <li>Continuous sidewalk exists on the north and south sides of SR 520</li> </ul>   |
| Bike Lanes                | <ul style="list-style-type: none"> <li>Bike Lanes are provided on the paved shoulder and at right turn lane locations (5-foot wide)</li> </ul>  |
| Street Lighting           | <ul style="list-style-type: none"> <li>Overhead lighting is provided on the north and south sides of SR 520</li> </ul>  |
| Transit                   | <ul style="list-style-type: none"> <li>Space Coast Area Transit (SCAT) Route #4 runs along the subject corridor. Bus stops with benches are located at signalized intersections in both directions</li> </ul>   |
| Other Distinct Features   | <ul style="list-style-type: none"> <li>Walmart Superstore is a major traffic generator/attractor</li> <li>Residential areas are accessed from roadways at the three signalized intersections</li> <li>SR 520 is an evacuation route for Cocoa Beach (Brevard County Emergency Management Zone 5)</li> </ul> |

A mix of commercial development is present along the subject corridor. Businesses with driveway access to SR 520 include a Walmart superstore, car dealerships, gas stations, auto repair and parts stores, restaurants and bars, a gym, and boat rental establishments. Walmart and the gas stations are open 24 hours daily.

The existing condition diagram of the corridor can be found in Appendix D. The diagram reflects changes made to the roadway by a recent resurfacing project (FPID# 431139-1-52, plans are in Appendix C) that have been verified in the field. Photographs of the subject corridor are provided in Appendix E.

## Access Management

From the Straight-line Diagram (Appendix A), Access Class 3 applies to the subject SR 520 corridor. The design (per recent resurfacing plans) and posted speed along this corridor is 45 MPH. In consideration of these elements, the following criteria in Table 2 was considered and obtained from the Florida Administrative Code (Chapter 14-97) and then compared with existing conditions along the SR 520 corridor:

Table 2: Access Management Criteria

| Element                          | Class 3 Standard | SR 520 Existing       |
|----------------------------------|------------------|-----------------------|
| Median                           | Restrictive      | Unrestrictive (TWLTL) |
| Full Opening                     | 2,640'           | n/a                   |
| Directional Opening              | 1,320'           | n/a                   |
| Signal Spacing (min)             | 2,640'           | 823'                  |
| Connection (min) (< or = 45 MPH) | 440'             | < 100'                |

The current roadway configuration of SR 520 does not meet Access Class 3 standards as there is no restrictive median present. Table 3 lists all signalized intersections (highlighted in green) and existing driveways along the subject corridor and their corresponding spacing, which also do not meet Access Class 3 criteria. The development of any design recommendations to remove or relocate signal locations and driveway connections was not completed as part of this study. It was assumed that all existing driveway connections are per permit and would require additional coordination with the local governing agency and property owners prior to modification.

Table 3: Intersection and Driveway Connection Spacing

| Intersection or Driveway No. | MP     | Position | Business Name                          | Signal Spacing<br>Criteria = 2,640' | Connection Spacing |       |
|------------------------------|--------|----------|--|-------------------------------------|--------------------|-------|
|                              |        |          |  |                                     | Criteria = 440'    | South |
| Intersection or Driveway No. | MP     | Position | Business Name                          | Signal Spacing<br>Criteria = 2,640' | Criteria = 440'    | North |
| 1                            | 12.556 | South    | Mike Erdman Toyota                     |                                     |                    |       |
|                              |        |          |  |                                     | 166'               |       |
| Newfound Harbor Drive        | 12.603 | N/S      | Walmart (North)                        |                                     |                    |       |
|                              |        |          |  |                                     | 60'                |       |
|                              | 12.625 | South    | Express Lane                           |                                     | 72'                |       |
|                              | 12.648 | South    | Mike Erdman Toyota Trucks & RVs        |                                     | 143'               |       |
|                              | 12.684 | South    | Ron's European Auto Service            |                                     | 109'               |       |
|                              | 12.715 | South    | Jeep Emporium                          |                                     |                    |       |
|                              | 12.720 | North    | Walmart                                |                                     | 83'                |       |
|                              | 12.740 | South    | CARQUEST Auto Parts                    |                                     |                    | 129'  |
|                              | 12.760 | North    | Fuccillo Kia                           |                                     |                    | 102'  |
|                              | 12.786 | North    | Fuccillo Kia                           |                                     |                    | 41'   |
|                              | 12.801 | North    | Vacant                                 |                                     |                    |       |
|                              | 12.807 | South    | Boniface-Hiers Chrysler Dodge          |                                     |                    | 10'   |
|                              | 12.811 | North    | Vacant                                 |                                     |                    | 10'   |
|                              | 12.831 | North    | Sunoco                                 |                                     |                    | 71'   |
| N Banana River Drive         | 12.857 | N/S      | Boniface-Hiers Chrysler Dodge (South)  |                                     |                    |       |
|                              |        |          |  |                                     |                    | 36'   |
| 10                           | 12.870 | North    | BP                                     |                                     |                    | 20'   |
|                              | 12.883 | North    | BP                                     |                                     |                    |       |
|                              | 12.884 | South    | Gen-X Motors                           |                                     |                    | 26'   |
|                              | 12.898 | South    | H&D Roadhouse Bar                      |                                     |                    | 34'   |
|                              | 12.911 | South    | H&D Roadhouse Bar                      |                                     |                    | 30'   |
|                              | 12.923 | South    | Karate Dojo                            |                                     |                    | 14'   |
|                              | 12.930 | South    | Karate Dojo                            |                                     |                    |       |
|                              | 12.935 | North    | Island Lincoln Mercury                 |                                     |                    | 140'  |
|                              | 12.972 | North    | Island Lincoln Mercury                 |                                     |                    |       |
|                              | 12.986 | South    | Vacant                                 |                                     |                    | 145'  |
| S Banana River Drive         | 13.013 | N/S      | -                                      |                                     |                    | 39'   |
|                              |        |          |  |                                     |                    | 61'   |
| 19                           | 13.039 | North    | Beach Marine Service                   |                                     |                    | 53'   |
|                              | 13.058 | North    | Funtime Boats                          |                                     |                    |       |
|                              | 13.065 | South    | 7-Eleven/Island Waterfront Bar & Grill |                                     |                    | 41'   |
|                              | 13.071 | North    | Jet Ski & Boat Rentals                 |                                     |                    |       |

### 3. TRAFFIC CONDITIONS:

There is one FDOT Traffic Count Station along SR 520 located just east of the subject corridor. Station #701007 is located at MP 13.108. Historical traffic data and traffic characteristics are as follows and all data obtained for this count station is included as Appendix F:

Table 4: Historic Local Traffic Data and Characteristics

| Characteristic | FDOT Count Station 701007 |
|----------------|---------------------------|
| 2010 AADT      | 27,000                    |
| 2011 AADT      | 27,000                    |
| 2012 AADT      | 22,500                    |
| 2013 AADT      | 26,000                    |
| 2014 AADT      | 25,500                    |
| 2014 K-Factor  | 9.00%                     |
| 2014 D-Factor  | 53.80%                    |
| 2014 Trucks    | 2.90%                     |

A review of the 24-hour traffic count station synopsis data determined morning, afternoon, and midday peaks. Traffic data was collected from 7:00 AM to 9:00 AM and from Noon to 6:00 PM on Thursday, January 21, 2016, Tuesday, January 26, 2016 and Wednesday, January 27, 2016. Data collected included 8-hour turning movement counts and pedestrian/bicycle activity at following locations along SR 520:

- Newfound Harbor Drive / Walmart Superstore signalized intersection (MP 12.603)
- Walmart east unsignalized driveway connection (MP 12.720)
- North Banana River Drive signalized intersection (MP 12.857)
- South Banana River Drive / Milton Point Drive signalized intersection (MP 13.013)

Limited 4-hour turning movement counts of vehicles entering and exiting driveways of active businesses along the subject corridor were taken on the same dates as the 8-hour counts. Morning counts for the driveways were taken from 9:00 AM to 11:00 AM to encompass opening hours for businesses, and afternoon counts were taken from 3:00 PM to 5:00 PM. The gas stations open 24 hours along the corridor were observed during the qualitative assessment to determine if traffic during the morning peak hour exceeded the driveway counts from 9:00 AM to 11:00 AM. All traffic data collected as part of this study is included as Appendix G.

The turning movement counts were initially adjusted based on 2014 Brevard County – Countywide seasonal factors. To balance entering versus exiting traffic volumes at each intersection for modeling purposes, the peak hour eastbound/westbound through volumes along SR 520 at the major intersections were modified to account for the directional influencing effects of the driveways and intersections along the corridor while maintaining the average design K and D Factors for the three primary segments of SR 520. The results of this exercise are detailed in Appendix H including a diagram of the balanced turning

movement volumes. This level of balancing was required due to variations in peak hour periods at each intersection, and data collection occurring over multiple days.

### **Access Management Impacts**

Proposed geometric conditions include a median installation to replace the current two-way left turn lane. Signal spacing along the subject corridor will not allow for directional median openings based on Access Class 3 standards. The following anticipated impacts to traffic conditions are as follows:

- Left turning vehicles from SR 520 into driveways must instead make a U-turn at the far side signal, then turn right into the driveways.
- Left turning vehicles from driveways must make a right turn on SR 520 and then a U-turn at the next signal.
- Assumed 50% of left turning traffic into the Walmart east driveway will instead turn left at the Newfound Harbor Drive intersection signal. The remaining 50% will complete a U-turn at the North Banana River Drive signalized intersection.

A diagram of the resulting access management-adjusted turning movement volumes is also presented in Appendix H.

## 4. COLLISION ANALYSIS:

Crash data was obtained from the Department's Crash Analysis Reporting System (CARS) database and University of Florida's Signal Four Analytics software. Crash data was reviewed for the years 2010 through 2014. A total of 135 long form crash reports were obtained and reviewed for the study corridor. A summary of the crash types by year are as shown below in Table 5:

Table 5: Crash Types by Year

| Year<br>Type | 2010      | 2011      | 2012      | 2013      | 2014      | TOTAL      |
|--------------|-----------|-----------|-----------|-----------|-----------|------------|
| Angle        | 1         | 1         | 1         | 0         | 1         | 4          |
| Backed Into  | 0         | 0         | 1         | 1         | 0         | 2          |
| Bicycle      | 0         | 0         | 3         | 1         | 0         | 4          |
| Head On      | 0         | 1         | 1         | 0         | 0         | 2          |
| Left Turn    | 1         | 5         | 7         | 5         | 8         | 26         |
| Off Road     | 0         | 0         | 0         | 1         | 1         | 2          |
| Other        | 0         | 0         | 0         | 3         | 2         | 5          |
| Pedestrian   | 1         | 0         | 2         | 2         | 1         | 6          |
| Rear End     | 14        | 10        | 10        | 16        | 16        | 66         |
| Right Turn   | 1         | 0         | 1         | 0         | 1         | 3          |
| Sideswipe    | 2         | 1         | 4         | 3         | 5         | 15         |
| <b>TOTAL</b> | <b>20</b> | <b>18</b> | <b>30</b> | <b>32</b> | <b>35</b> | <b>135</b> |

Crash totals by year and location along the corridor are provided in Table 6:

Table 6: Crash Totals by Year and Location

| Intersection<br>Year | Newfound<br>Harbor<br>Drive | North<br>Banana<br>River Drive | South<br>Banana<br>River Drive | LINK<br>(Not at<br>intersection) | TOTAL      |
|----------------------|-----------------------------|--------------------------------|--------------------------------|----------------------------------|------------|
| 2010                 | 11                          | 2                              | 2                              | 5                                | 20         |
| 2011                 | 6                           | 6                              | 2                              | 4                                | 18         |
| 2012                 | 10                          | 7                              | 5                              | 8                                | 30         |
| 2013                 | 13                          | 6                              | 2                              | 11                               | 32         |
| 2014                 | 9                           | 10                             | 6                              | 10                               | 35         |
| <b>TOTAL</b>         | <b>49</b>                   | <b>31</b>                      | <b>17</b>                      | <b>38</b>                        | <b>135</b> |

The average crash rates were calculated for the link and at the three signalized intersections along the subject corridor. The calculated crash rates were then compared to the facility type of SR 520 immediately west of the corridor (6-lane urban divided facility with raised median), as Districtwide and Statewide crash rates are not available for 6-lane suburban undivided facilities. The crash rates are presented as Table 7.

Table 7: Historic Crash Rate Comparisons

| SR 520 Intersection         | 2010-2014           |                           | Segment Length***<br>(miles) | 2010-2014 Crash Rates |                      |       |  |
|-----------------------------|---------------------|---------------------------|------------------------------|-----------------------|----------------------|-------|--|
|                             | Average ADT or AADT | Average Number of Crashes |                              | Actual                | Urban 6+Ln Divd Rasd |       |  |
|                             |                     |                           |                              |                       | District             | State |  |
| LINK (Not at intersection)* | 25,600              | 7.6                       | 0.5                          | 1.627                 | 2.761                | 3.746 |  |
| Newfound Harbor Drive**     | 38,800              | 9.8                       | -                            | 0.692                 | 0.603                | 0.690 |  |
| North Banana River Drive**  | 29,300              | 6.2                       | -                            | 0.580                 | 0.603                | 0.690 |  |
| South Banana River Drive**  | 26,200              | 3.4                       | -                            | 0.356                 | 0.603                | 0.690 |  |

\* - crash rate per MVM

\*\* - crash rate per MEV

\*\*\* - excludes 0.05 mi from each intersection

The segment and intersection crash rates for the subject corridor are less than the Districtwide and Statewide crash rates over the same analysis period, with the exception of the Newfound Harbor Drive intersection which is slightly greater. At the Newfound Harbor Drive intersection, 59% of all crashes are property damage only and rear end collisions are the predominant crash type (49%).

The complete collision summary and crash diagram is included as Appendix I. The crash diagram utilizes aerial photography of SR 520 before resurfacing to display the roadway configuration at the time of the crashes (2010 – 2014). Additional collision information are as follows:

- 4 (3%) crashes resulted in a fatality and 57 (42%) resulted in an injury. The number of persons receiving non-fatal injuries was 85.
- There were 15 (11%) wet pavement related crashes, 40 (30%) nighttime crashes and 7 (5%) crashes involving a driver under the influence.
- The total property damage amount of all 135 crashes is \$596,597.
- 13 (10%) crashes have the potential for mitigation by a median installation:
  - 12 (9%) crashes are directly attributed to vehicles turning left into or out of driveways along SR 520. Of these 12 crashes, 9 were left turn angle crashes, one was a head on collision by a left turning vehicle out of a driveway, and one was a sideswipe crash by two left turning vehicles from a driveway in the two-way left turn lane.
  - One crash (Crash #62) at North Banana River Drive involved a southbound left vehicle at a red signal that decided to turn right and then make an illegal U-turn but was struck by a westbound through vehicle.

The four fatal crashes reported in the five year crash history are detailed below:

**Sunday, December 19, 2010 at 6:48 PM:** A westbound vehicle traveling on a green signal at the Newfound Harbor Drive intersection struck a pedestrian crossing north to south within the east crosswalk. The pedestrian was crossing on a "DON'T WALK" pedestrian signal indication and received fatal injuries as a result of the collision. No impairment was found with regard to the pedestrian or the driver of the vehicle. The collision occurred on dry pavement under nighttime conditions.

**Saturday, May 26, 2012 at 9:12 PM:** A westbound vehicle traveling in the right turn lane approximately 450 feet east of North Banana River Drive struck and fatally injured a pedestrian crossing south to north not within a crosswalk. No impairment was found with regard to the pedestrian or the driver of the vehicle. The collision occurred on dry pavement under nighttime conditions.

**Sunday, May 27, 2012 at 4:32 PM:** The driver of an eastbound through vehicle at the Newfound Harbor Drive intersection ran a red signal and struck the side of a northbound left turning vehicle. The passenger of the eastbound vehicle received fatal injuries as a result of the crash. No impairment was found with regard to the drivers of either vehicle. The collision occurred on dry pavement under daylight conditions.

**Friday, December 14, 2012 at 7:30 PM:** A westbound vehicle traveling in the right turn lane approximately 75 feet east of North Banana River Drive struck a bicyclist crossing south to north not within a crosswalk. The bicyclist received fatal injuries as a result of the collision. No impairment was found with regard to the bicyclist or the driver of the vehicle. The collision occurred on dry pavement under nighttime conditions.

## 5. QUALITATIVE ASSESSMENT:

The subject corridor was reviewed by a registered professional engineer on Wednesday March 16, 2016. Weather conditions were clear, warm and sunny. The focus of the review was to evaluate the general overall operational conditions and identify any safety issues or conflicts which may have contributed to the frequency or severity of historic crashes or may contribute to the frequency or severity of future crashes.

Observation periods along SR 520 were selected primarily during peak hours derived from turning movement counts taken at the signalized intersections along the subject corridor. The morning assessment period was from 7:00 AM to 9:00 AM, the midday period was from 1:00 PM to 3:00 PM, and the afternoon period was from 4:00 PM to 6:00 PM.

### General Observations

- The resurfacing project along SR 520 was not yet complete at the time of the assessment. The roadway has been resurfaced and the signals replaced, with sidewalk reconfigurations constructed to realign crosswalks at the signalized intersections as well as provide access to SCAT bus stops. No roadway construction activity was observed during the assessment.
- Signage along the corridor appears to be in good condition. Pavement markings on SR 520 are temporary paint as thermoplastic has yet to be applied to the friction course surface. The special emphasis crosswalks at the signalized intersections have decorative stamped concrete patterns and are also awaiting thermoplastic striping.
- Some driveway connections to SR 520 have signage and/or pavement markings that are substandard. Pavement markings on driveways indicating a directional movement have been worn off.



## Operational Conditions

- Traffic along SR 520 was light during the morning hours but grew in the afternoon. Businesses that opened after the morning peak hour contributed to the increase in mainline traffic and driveway activity. Walmart and gas stations that are open 24 hours along the corridor did not see much activity during the morning peak hour.
- Signals were observed not to be coordinated at the time of the assessment and were most likely set to isolated operations due to the resurfacing construction project that was taking place along the corridor. Protected-permissive left turn phasing along SR 520 utilizing newly installed four-section signal heads was in effect at all three signals during all peak periods. **Observed queues at the signalized intersections were irregular due to these items and do not represent normal traffic operating conditions.**
- A maximum green left turn phase in both directions of SR 520 at the South Banana River Drive signalized intersection formed platoons that created long gaps for eastbound left turning traffic at the two-way left turn lanes and the other two signals in the subject corridor. Consequently, eastbound and westbound through queues at South Banana River Drive were excessively long due to the maximum green left turn phase. These observations do not represent normal traffic operating conditions.
- Use of the two-way left turn lanes throughout the corridor was low throughout the day. The area that experienced the highest two-way left turn usage was between Newfound Harbor Drive and North Banana River Drive at the Walmart east driveway.



- At the Newfound Harbor Drive intersection, heavy traffic was observed northbound left in the morning and eastbound left in the evening peak hour. The eastbound left queue in the afternoon extended into the through lanes, although this observation does not represent normal traffic operating conditions as mentioned above.
- People were observed throughout the day boarding and alighting SCAT buses at designated bus stops along the corridor. Buses did not cause excessive delays to mainline traffic or create conflicts with other vehicles and pedestrians.



- There was moderate pedestrian activity utilizing sidewalks on both sides of SR 520. Most pedestrians continued to walk on either the north or south sidewalk and did not cross SR 520 at the signalized intersections or at mid-block locations. Sidewalks and curb ramps appeared to be in good condition with no visible ADA deficiencies noted.
- Bicyclists were observed either riding on sidewalks or within the new bike lanes along SR 520 created by the resurfacing construction project. Moderate bicycle traffic was present and no conflicts between bicyclists and motor vehicles or pedestrians were observed.

### Observed Safety Issues

- Eastbound vehicles attempting to turn left onto North Banana River Drive sometimes had to swerve around westbound vehicles attempting to turn left into driveways. Although the eastbound left turn lane for North Banana River Drive starts approximately 490 feet west of the intersection, westbound vehicles still treated this section as a two-way left turn lane by illegally crossing the double yellow line into the turn lane.



- Conflicts were observed between eastbound vehicles illegally turning left into the Sunoco driveway and southbound right turning vehicles at the North Banana River Drive intersection. The driveway is configured (via striping) as “right-in, right-out” for westbound traffic; however eastbound vehicles including heavy trucks still turned left into the driveway.

- Vehicles turning left to exit driveways were observed to wait in the two-way left turn lane for gaps in order to merge onto SR 520 through traffic. This has created conflicts as vehicles wanting to turn left into driveways were blocked by these vehicles and needed to swerve around them to avoid a head on collision.

- One pedestrian was observed crossing SR 520 midblock approximately 100 feet west of the North Banana River Drive intersection. Pedestrian features of the signal were operational at the time and crosswalks present with no obstructions to the adjoining sidewalk. The pedestrian created an immediate hazard for southbound right turning vehicles who were not anticipating a pedestrian crossing outside the crosswalk.



- A rear end collision occurred at the Newfound Harbor Drive intersection at approximately 9:00 AM during the assessment. The vehicles were travelling in an unknown direction and had parked in Express Lane (Driveway #2) following the collision. Traffic was moderate at the time of the crash and no visible injuries were observed.

## 6. TRAFFIC SIGNAL OPERATIONAL ANALYSIS:

Synchro is a traffic signal analysis program which considers both isolated intersection conditions and the influence of coordinated signal systems to estimate average vehicular delays and queue lengths. For signalized intersections, performance is typically expressed by level of service (LOS) and capacity.

Existing signal timings for the subject corridor were obtained from Brevard County Traffic Engineering and these timings are included as Appendix J. The obtained timings were in place prior to the resurfacing project and exhibit signal coordination with a cycle length of 110 seconds and protected only left-turn phasing along SR 520. Turning movement count data (included in Appendix H) for morning, midday and afternoon periods was used in the analysis of existing conditions. Peak hour factors and heavy vehicle percentages derived from the turning movement counts were used as inputs to further calibrate the Synchro model.

The signalized intersections along SR 520 at Newfound Harbor Drive, North Banana River Drive and South Banana River Drive were modeled and analyzed utilizing Synchro software. Existing conditions for peak hours were analyzed, and proposed conditions with access management modifications were both analyzed and optimized.

Synchro modeling results utilizing the existing coordinated cycle lengths and split times are included as Appendix K and performance measures are summarized in Table 8. Table 8 includes intersection and approach delays, levels of service, and maximum volume-to-capacity ratios for each approach at the subject intersections. As reflected in the table, the overall intersection delays and associated levels of service are adequate (LOS D or better) for all peak hour periods.

**Table 8: Synchro Performance Measures for Existing Condition**

| Cycle Length = 110 sec             | AM Peak Hour |             |          | MID Peak Hour |             |          | PM Peak Hour |             |          |            |
|------------------------------------|--------------|-------------|----------|---------------|-------------|----------|--------------|-------------|----------|------------|
|                                    | Intersection | Delay (sec) | LOS      | Max v/c       | Delay (sec) | LOS      | Max v/c      | Delay (sec) | LOS      | Max v/c    |
| Newfound Harbor Drive (Overall)    |              | <b>23.7</b> | <b>C</b> | -             | <b>34.3</b> | <b>C</b> | -            | <b>35.0</b> | <b>D</b> | -          |
|                                    | Eastbound    | 24.7        | C        | 0.40 (T)      | 25.1        | C        | 0.54 (L)     | 29.3        | C        | 0.77 (L)   |
|                                    | Westbound    | 20.9        | C        | 0.44 (T)      | 40.1        | D        | 0.80 (T)     | 44.4        | D        | 0.75 (T)   |
|                                    | Northbound   | 24.3        | C        | 0.57 (L)      | 30.6        | C        | 0.63 (L)     | 33.2        | C        | 0.66 (L)   |
|                                    | Southbound   | 33.9        | C        | 0.55 (T+R)    | 46.7        | D        | 0.91 (L)     | 29.9        | C        | 0.72 (T+R) |
| North Banana River Drive (Overall) |              | <b>13.6</b> | <b>B</b> | -             | <b>14.0</b> | <b>B</b> | -            | <b>15.5</b> | <b>B</b> | -          |
|                                    | Eastbound    | 9.9         | A        | 0.56 (L)      | 13.5        | B        | 0.66 (L)     | 13.6        | B        | 0.70 (L)   |
|                                    | Westbound    | 10.2        | B        | 0.26 (T)      | 9.9         | A        | 0.38 (T)     | 11.8        | B        | 0.40 (T)   |
|                                    | Northbound   | 36.6        | D        | 0.08 (L)      | 38.7        | D        | 0.36 (L)     | 41.3        | D        | 0.37 (L)   |
|                                    | Southbound   | 31.2        | C        | 0.65 (L)      | 28.7        | C        | 0.63 (L)     | 30.5        | C        | 0.73 (L)   |
| South Banana River Drive (Overall) |              | <b>7.2</b>  | <b>A</b> | -             | <b>15.9</b> | <b>B</b> | -            | <b>8.8</b>  | <b>A</b> | -          |
|                                    | Eastbound    | 3.3         | A        | 0.29 (T)      | 17.1        | B        | 0.49 (T)     | 5.8         | A        | 0.43 (T)   |
|                                    | Westbound    | 5.9         | A        | 0.22 (T)      | 10.0        | A        | 0.35 (T)     | 8.4         | A        | 0.32 (L)   |
|                                    | Northbound   | 46.1        | D        | 0.59          | 56.4        | E        | 0.69         | 52.8        | D        | 0.56       |
|                                    | Southbound   | 22.2        | C        | 0.12          | 17.3        | B        | 0.14         | 26.9        | C        | 0.10       |

(T) = Through Movement, (L) = Left Movement, (T+R) = Shared Through-Right Movement

The traffic signals were then optimized as a coordinated system. Turning movement volumes adjusted to reflect access management adjustments for the morning and afternoon peak periods were used in the optimization, and protected only left-turn phasing along the mainline approaches was used in lieu of flashing yellow arrow protected-permissive phasing to determine maximum queue lengths.

For the proposed condition, the resulting optimized cycle lengths have decreased in the morning (90 seconds) and remained the same in the afternoon (110 seconds) while providing adequate intersection levels of service (LOS D or better) during both peak hour periods. The Newfound Harbor Drive intersection in the PM peak hour improved from LOS D to LOS C after optimization. Table 9 below summarizes the performance measures of the proposed condition. The increased delay at some intersections and approaches can be attributed to the additional U-turns the signals must service due to access management modifications. The optimized maximum volume-to-capacity ratios of all intersection movements for both peak hour periods are still below 1.00, indicating adequate capacity exists at the intersections after optimization.

Table 9: Synchro Performance Measures for Proposed Condition

| Intersection                       | AM Peak Hour |          |            | PM Peak Hour |          |            |
|------------------------------------|--------------|----------|------------|--------------|----------|------------|
|                                    | Delay (sec)  | LOS      | Max v/c    | Delay (sec)  | LOS      | Max v/c    |
| Newfound Harbor Drive (Overall)    | <b>20.7</b>  | <b>C</b> | -          | <b>29.4</b>  | <b>C</b> | -          |
| Eastbound                          | 23.4         | C        | 0.42 (T)   | 27.9         | C        | 0.79 (L)   |
| Westbound                          | 16.0         | B        | 0.46 (L)   | 27.9         | C        | 0.66 (L)   |
| Northbound                         | 23.1         | C        | 0.63 (L)   | 42.4         | D        | 0.75 (L)   |
| Southbound                         | 27.3         | C        | 0.51 (T+R) | 30.3         | C        | 0.73 (T+R) |
| North Banana River Drive (Overall) | <b>13.1</b>  | <b>B</b> | -          | <b>17.2</b>  | <b>B</b> | -          |
| Eastbound                          | 11.4         | B        | 0.57 (L)   | 16.0         | B        | 0.75 (L)   |
| Westbound                          | 10.1         | B        | 0.29 (T)   | 14.6         | B        | 0.46 (T)   |
| Northbound                         | 28.9         | C        | 0.07 (L)   | 39.4         | D        | 0.37 (L)   |
| Southbound                         | 25.4         | C        | 0.60 (L)   | 27.7         | C        | 0.69 (L)   |
| South Banana River Drive (Overall) | <b>9.3</b>   | <b>A</b> | -          | <b>10.1</b>  | <b>B</b> | -          |
| Eastbound                          | 5.5          | A        | 0.29 (T)   | 6.7          | A        | 0.46 (T)   |
| Westbound                          | 9.7          | A        | 0.23 (T)   | 10.4         | B        | 0.38 (L)   |
| Northbound                         | 35.2         | D        | 0.54       | 53.5         | D        | 0.56       |
| Southbound                         | 18.3         | B        | 0.11       | 26.9         | C        | 0.10       |

(T) = Through Movement, (L) = Left Movement, (T+R) = Shared Through-Right Movement

In summary, the traffic signal timing optimization at the intersections for the peak hour periods began with the aforementioned review of the operational conditions associated with the existing cycle lengths and split timings. The proposed access management modifications with adjusted turning movement counts were used in the analysis of the optimized condition. Synchro software was then programmed to optimize the intersection cycle lengths, split timings and coordinated offsets. Measures considered in the review and timing optimizations included the volume-to-capacity ratios and the overall intersection delay. The Synchro results of the optimization are provided as Appendix K.

## 7. CONCEPTUAL DESIGN ALTERNATIVE:

The conceptual design recommended to bring the subject corridor into compliance with current access management criteria is depicted on the Recommended Typical Sections (Appendix L), the Recommendation Diagram (Appendix M) and are summarized below:

**Installation of a raised median to replace the existing two-way left turn lane.** By providing a restrictive median, the subject corridor will meet Access Class 3 standards for purposes of this study. Signal and driveway connection spacing were not considered as it was assumed that all existing driveway connections are per permit and would require additional coordination with the local governing agency and property owners prior to modification.

**Median Width:** The two-way left turn lane and left turn lanes at the signalized intersections measure 14 feet wide. A median width of 16 feet was selected to minimize impact to the existing roadway. It allows for the reduction of only one inside through lane in each direction to 11 feet while not affecting the other lanes. This median width would require a design variation as it would not meet FDOT criteria of 22 feet for a 45 MPH roadway.

**Left Turn Lanes:** Left turn lanes at the signalized intersections would measure 11 feet wide and would be bordered by a 5-foot Type 1 traffic separator with drainage slots. The lengths of the left turn lanes were designed based on Index 301 for single left turn lanes with raised separation, and a 45 MPH design speed. Queue lengths were determined using the Synchro analysis performed for the optimized condition. Lane lengths were then adjusted to accommodate possible fluctuations in traffic. Table 10 shows the development of the design lengths of the left turn lanes.

Table 10: Left Turn Lane Length Determination

| Design Speed = 45 MPH |                    |                |                |                |       |        |
|-----------------------|--------------------|----------------|----------------|----------------|-------|--------|
| SR 520 Intersection   | Synchro 95th Queue | Eastbound Left |                |                |       |        |
|                       |                    | Queue          | L <sub>1</sub> | L <sub>2</sub> | Total | Design |
| Newfound Harbor Drive | 312'               | 312'           | 85'            | 100'           | 497'  | 500'   |
| N. Banana River Drive | 253'               | 253'           | 85'            | 100'           | 438'  | 475'   |
| S. Banana River Drive | 61'                | 100'           | 85'            | 100'           | 285'  | 300'   |
| SR 520 Intersection   | Synchro 95th Queue | Westbound Left |                |                |       |        |
|                       |                    | Queue          | L <sub>1</sub> | L <sub>2</sub> | Total | Design |
| Newfound Harbor Drive | 172'               | 172'           | 85'            | 100'           | 357'  | 400'   |
| N. Banana River Drive | 47'                | 100'           | 85'            | 100'           | 285'  | 285'   |
| S. Banana River Drive | 76'                | 100'           | 85'            | 100'           | 285'  | 300'   |

From Index 301:

L<sub>1</sub> = Clearance Distance

L<sub>2</sub> = Brake To Stop Distance

The eastbound left turn lane at the Newfound Harbor Drive intersection would need to extend to 500 feet in length to accommodate the queue and require a 2-foot traffic separator to allow for one 11-foot wide turn lane and one 11-foot wide through lane in the eastbound direction.

*Directional Median Openings:* Access Class 3 allows for directional median openings every 1,320 feet. The distances between the signals (full median openings) along the subject corridor will not allow for the placement of directional median openings. Therefore directional median openings were not considered in the conceptual design.

*Right Turn Lanes:* Additional right turn lanes at driveways were not needed based on driveway volumes. The minimum driveway traffic volume to consider right turn lanes is 80-125 as recommended by the FDOT Driveway Information Guide 2008. The only driveway meeting this guideline is the Walmart east driveway which is served by an existing continuous right turn lane.

*U-Turns:* The 8-foot paved shoulder along SR 520 eastbound and full width continuous right turn lane westbound provides adequate pavement for most vehicles (up to and including WB-40 semitrailers) to safely complete U-turns at signalized intersections. WB-62FL semitrailers and larger vehicles may need to make U-turns at intersections east or west of the subject corridor.

*Signing Considerations:* The installation of STOP and RIGHT TURN ONLY signage at all existing driveway connections would coincide with the median installation. All signs relating to the two-way left turn lane are to be removed, including the span wire sign assembly west of South Banana River Drive.



## 8. BENEFIT COST & NET PRESENT VALUE ANALYSES:

In consideration of the improvements proposed as related to the historic, reported crashes presented herein, a benefit-cost analysis and Net Present Value (NPV) calculation were compiled. The cost data was obtained from the FDOT and crash mitigation rates were derived from the AASHTO Highway Safety Manual, FHWA's Crash Modification Factor Clearinghouse, and engineering judgment. The benefit value of the proposed improvements is the estimated financial savings anticipated by the number (or proportion) of historic documented crashes mitigated as a result of the proposed improvements (Historical Crash Method).

The total construction cost for the project, including the median installation, milling and resurfacing of left turn lanes, signing and pavement markings, engineering design and CEI cost estimates, totaled approximately \$473,050. These costs are detailed as Table 12.

The five year crash analysis period considered was from 2010 through 2014. The cost-per-crash data was obtained from the FDOT's Plans Preparation Manual (Table 23.5.1: FDOT (HSIPG) Average Crash Costs by Facility Type). For a 6+ lane suburban undivided facility, the average cost per crash is not given therefore the statewide average cost per crash of \$155,695 was utilized for this analysis.

In consideration of the proposed improvements, in conjunction with the documented crash history, the Crash Modification and Crash Reduction Factor in Table 11 was utilized. Additional details of the crash reduction factor are included as Appendix N.

Table 11: Crash Reduction Factor Information

| CMF ID | Description                      | CMF Value | Crash Reduction Factor (%) | Quality Rating |
|--------|----------------------------------|-----------|----------------------------|----------------|
| 7771   | Convert TWLTL to a raised median | 0.53      | 47                         | 3 Stars        |

The crashes anticipated to be mitigated by the proposed improvement involve left turning vehicles to/from driveways, and are highlighted in yellow on the crash diagram in Appendix I. The results of the benefit/cost ratio assessment are summarized in Table 13 and show that **the benefit-cost ratio for the subject improvements is estimated as 4.91.**

A Net Present Value (NPV) calculation was also completed for the proposed improvements and is included as Appendix O. The Net Present Value is defined as the sum of the discounted present value of all benefits minus the sum of discounted present value of all costs. The present values were estimated based upon a 4% discount rate (consistent with the B/C Ratio analysis) and assumed that construction would be complete in four years (2020). The calculation methodology used was provided by the FDOT and assumed no recurring costs for constructed elements with design lives less than 20 years. **The resulting Net Present Value for this project was estimated as \$1,821,854.**

Table 12: Construction Cost Estimate

**PRELIMINARY ENGINEERS COST ESTIMATE**  
**SR 520 from West of Newfound Harbor Drive to East of South Banana River Drive**

| RECOMMENDED IMPROVEMENTS |  |      |                    |                         |                     |
|--------------------------|--|------|--------------------|-------------------------|---------------------|
| PAY ITEM                 | DESCRIPTION                                  | UNIT | ESTIMATED QUANTITY | STATE AVERAGE UNIT COST | ESTIMATED COST      |
| <b>ROADWAY</b>           |  |      |                    |                         |                     |
| 101-1                    | MOBILIZATION (10%)                           | LS   | 1                  | 10.00%                  | \$23,270.82         |
| 102-1                    | MAINTENANCE OF TRAFFIC (20%)                 | LS   | 1                  | 20.00%                  | \$51,195.79         |
|                          |  |      |                    |                         |                     |
| 110-1-1                  | CLEARING AND GRUBBING                        | AC   | 0.43               | \$12,883.64             | \$5,539.97          |
| 110-4                    | REMOVAL OF EXIST CONC PAVEMENT               | SY   | 235                | \$21.47                 | \$5,045.45          |
| 120-1                    | REGULAR EXCAVATION                           | CY   | 417                | \$4.69                  | \$1,955.73          |
| 120-6                    | EMBANKMENT                                   | CY   | 567                | \$8.85                  | \$5,017.95          |
| 285-710                  | OPTIONAL BASE, BASE GROUP 10                 | SY   | 127                | \$15.18                 | \$1,927.86          |
| 327-70-6                 | MILLING EXIST ASPH PAVT, 1 1/2" AVG DEPTH    | SY   | 3340               | \$1.94                  | \$6,479.60          |
| 334-1-13                 | SUPERPAVE ASPHALTIC CONC, TRAFFIC C          | TN   | 10.5               | \$90.98                 | \$955.29            |
| 337-7-74                 | ASPH CONC FC, TRAF C, FC-12.5, PG 76-22, ARB | TN   | 228                | \$109.76                | \$24,992.35         |
| 520-1-7                  | CONCRETE CURB & GUTTER, TYPE E               | LF   | 126                | \$13.39                 | \$1,687.14          |
| 520-2-1                  | CONCRETE CURB, TYPE A                        | LF   | 1646               | \$44.64                 | \$73,477.44         |
| 520-5-11                 | TRAF SEP CONC-TYPE I, 4' WIDE                | LF   | 1474               | \$31.84                 | \$46,932.16         |
| 520-70                   | CONCRETE TRAFFIC SEPARATOR, SP- VAR WIDT     | SY   | 140                | \$58.44                 | \$8,181.60          |
| 522-2                    | CONCRETE SIDEWALK AND DRIVEWAYS, 6"          | SY   | 65                 | \$45.29                 | \$2,943.85          |
| 570-1-2                  | PERFORMANCE TURF, SOD                        | SY   | 1021               | \$2.29                  | \$2,338.09          |
| <b>ROADWAY TOTAL =</b>   |  |      |                    |                         | <b>\$187,474.48</b> |

**SIGNING AND PAVEMENT MARKING**

|   |  |    |       |            |                    |
|---|--|----|-------|------------|--------------------|
| 641-2-80                                    | PRESTRESSED CONCRETE POLE, COMPLETE POLE REMOVAL | EA | 2     | \$2,985.99 | \$5,971.98         |
| 700-1-11                                    | SINGLE POST SIGN, F&I <12 SF                     | AS | 6     | \$313.47   | \$1,880.82         |
| 700-1-12                                    | SINGLE POST SIGN, F&I 12-20 SF                   | AS | 25    | \$992.25   | \$24,806.25        |
| 700-1-60                                    | SINGLE POST SIGN, REMOVE                         | AS | 4     | \$15.83    | \$63.32            |
| 705-10-1                                    | OBJECT MARKER, TYPE 1                            | EA | 5     | \$121.60   | \$608.00           |
| 705-11-1                                    | DELINEATOR, FLEXIBLE TUBULAR                     | EA | 2     | \$51.91    | \$103.82           |
| 706-3                                       | RETRO-REFLECTIVE PAVEMENT MARKERS                | EA | 128   | \$3.32     | \$424.96           |
| 710-90                                      | PAINTED PAVEMENT MARKINGS, FINAL SURFACE         | LS | 1     | -          | \$2,256.89         |
| *   | PAINTED PVMT MARK, STD, WHITE, SOLID, 6"         | GM | 0.332 | \$870.51   | -                  |
| *   | PAINTED PVMT MARK, STD, WHITE, SOLID, 24"        | LF | 66    | \$1.36     | -                  |
| *   | PAINTED PVMT MARK, STD, WHITE, DOT GUIDE, 6"     | GM | 0.097 | \$557.02   | -                  |
| *   | PAINTED PVMT MARK, STD, WHITE, ARROW             | EA | 24    | \$26.26    | -                  |
| *   | PAINTED PVMT MARK, STD, YELLOW, SOLID, 18"       | LF | 136   | \$1.09     | -                  |
| *   | PAINTED PVMT MARK, STD, YELLOW, SOLID, 6"        | GM | 1.213 | \$862.19   | -                  |
| 711-11-125                                  | THERMOPLASTIC, STD, WHITE, SOLID, 24"            | LF | 66    | \$4.15     | \$273.90           |
| 711-11-141                                  | THERMOPLASTIC, STD, WHITE, DOT GUIDE, 6"         | GM | 0.097 | \$1,620.87 | \$156.56           |
| 711-11-170                                  | THERMOPLASTIC, STD, WHITE, ARROW                 | EA | 24    | \$59.48    | \$1,427.52         |
| 711-11-224                                  | THERMOPLASTIC, STD, YELLOW, SOLID, 18"           | LF | 136   | \$3.13     | \$425.68           |
| 711-16-101                                  | THERMOPLASTIC, STD-OTH, WHITE, SOLID, 6"         | GM | 0.332 | \$3,906.62 | \$1,297.00         |
| 711-16-201                                  | THERMOPLASTIC, STD-OTH, YELLOW, SOLID, 6"        | GM | 1.213 | \$3,820.36 | \$4,634.10         |
| 711-17                                      | THERMOPLASTIC, REMOVE                            | SF | 456   | \$1.98     | \$902.88           |
| <b>SIGNING AND PAVEMENT MARKING TOTAL =</b> |  |    |       |            | <b>\$45,233.68</b> |

**SUBTOTAL (ROADWAY AND S&PM PAY ITEMS) =** **\$232,708.15**

**SUBTOTAL (PAY ITEMS, MOT, MOBILIZATION) =** **\$307,174.76**  
**PROJECT UNKNOWNS (10%) =** **\$30,717.48**  
**TOTAL ESTIMATED CONSTRUCTION COST =** **\$337,892.24**

**ESTIMATED ENGINEERING COST (30%) =** **\$101,367.67**  
**ESTIMATED CEI COST (10%) =** **\$33,789.22**

**TOTAL ESTIMATED PROJECT COST =** **\$473,049.13**

NOTE: 12 MO STATEWIDE AVG. UNIT COST FROM FDOT 2015/05/01 TO 2016/04/30

Table 13: Benefit-Cost Ratio Assessment

FORM 511

**STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION  
SAFETY OFFICE ANNUAL BENEFIT COST ANALYSIS**

| 1. SUBMITTED BY   | CES, Inc. | FM #          | 5. SAFETY PRIORITY |           |   |       |                                    |           |      |      |      |     |           |          |     |    |         |     |          |           |    |         |         |           |     |    |         |     |           |     |    |         |     |         |          |   |         |         |            |           |    |         |          |             |           |  |  |          |             |  |  |  |  |                  |  |  |  |       |          |  |  |  |          |
|---|-----------|---------------|--------------------|-----------|---|-------|------------------------------------|-----------|------|------|------|-----|-----------|----------|-----|----|---------|-----|----------|-----------|----|---------|---------|-----------|-----|----|---------|-----|-----------|-----|----|---------|-----|---------|----------|---|---------|---------|------------|-----------|----|---------|----------|-------------|-----------|--|--|----------|-------------|--|--|--|--|------------------|--|--|--|-------|----------|--|--|--|----------|
| 2. DATE SUBMITTED   | 6/8/2016  |               | ENV. STUDY         |           |   |       |                                    |           |      |      |      |     |           |          |     |    |         |     |          |           |    |         |         |           |     |    |         |     |           |     |    |         |     |         |          |   |         |         |            |           |    |         |          |             |           |  |  |          |             |  |  |  |  |                  |  |  |  |       |          |  |  |  |          |
| 3. PROJECT NO.  | N/A       |               | SKID (ID)          |           |   |       |                                    |           |      |      |      |     |           |          |     |    |         |     |          |           |    |         |         |           |     |    |         |     |           |     |    |         |     |         |          |   |         |         |            |           |    |         |          |             |           |  |  |          |             |  |  |  |  |                  |  |  |  |       |          |  |  |  |          |
| 4. ALTERNATIVE NO.  | N/A       | SN            | SPEED 45 MPH       |           |   |       |                                    |           |      |      |      |     |           |          |     |    |         |     |          |           |    |         |         |           |     |    |         |     |           |     |    |         |     |         |          |   |         |         |            |           |    |         |          |             |           |  |  |          |             |  |  |  |  |                  |  |  |  |       |          |  |  |  |          |
| 6. DISTRICT   | 5         | COUNTY        | Brevard            | SECTION   | 70100   | SR RD | SR 520                             | U.S. ROAD |      |      |      |     |           |          |     |    |         |     |          |           |    |         |         |           |     |    |         |     |           |     |    |         |     |         |          |   |         |         |            |           |    |         |          |             |           |  |  |          |             |  |  |  |  |                  |  |  |  |       |          |  |  |  |          |
| 7. BEGIN MILE POST  | 12.450    | END MILE POST | 13.100             | LENGTH    | 0.650   | NODE  |                                    |           |      |      |      |     |           |          |     |    |         |     |          |           |    |         |         |           |     |    |         |     |           |     |    |         |     |         |          |   |         |         |            |           |    |         |          |             |           |  |  |          |             |  |  |  |  |                  |  |  |  |       |          |  |  |  |          |
| 10. PROPOSED IMPROVEMENTS (LIST AND DISCUSS): Convert existing two way left turn lane to a raised 16-foot wide median with 5-foot wide traffic separators at left turn lanes. Mill and resurface left turn lanes. Install STOP and RIGHT TURN ONLY signage at all driveway openings. Remove existing two-way left turn lane signage. Extend eastbound left turn lane at Newfound Harbor Drive intersection. |           |               |                    |           |   |       |                                    |           |      |      |      |     |           |          |     |    |         |     |          |           |    |         |         |           |     |    |         |     |           |     |    |         |     |         |          |   |         |         |            |           |    |         |          |             |           |  |  |          |             |  |  |  |  |                  |  |  |  |       |          |  |  |  |          |
| YEAR  | 2010      | 2011          | 2012               | 2013      | 2014  | Avg   | 14. CRASH INFORMATION FOR FACILITY |           |      |      |      |     |           |          |     |    |         |     |          |           |    |         |         |           |     |    |         |     |           |     |    |         |     |         |          |   |         |         |            |           |    |         |          |             |           |  |  |          |             |  |  |  |  |                  |  |  |  |       |          |  |  |  |          |
| 11. NO.OF LONG FORM CRASHES   | 0         | 3             | 3                  | 3         | 4   | 2.6   |                                    |           |      |      |      |     |           |          |     |    |         |     |          |           |    |         |         |           |     |    |         |     |           |     |    |         |     |         |          |   |         |         |            |           |    |         |          |             |           |  |  |          |             |  |  |  |  |                  |  |  |  |       |          |  |  |  |          |
| 12. NO. CRASHES POTENTIALLY REDUCED BY PROJECT  | 0.0       | 1.4           | 1.4                | 1.4       | 1.9   | 1.22  |                                    |           |      |      |      |     |           |          |     |    |         |     |          |           |    |         |         |           |     |    |         |     |           |     |    |         |     |         |          |   |         |         |            |           |    |         |          |             |           |  |  |          |             |  |  |  |  |                  |  |  |  |       |          |  |  |  |          |
|   |           |               |                    |           |   |       | COST/CRASH \$ \$155,695            |           |      |      |      |     |           |          |     |    |         |     |          |           |    |         |         |           |     |    |         |     |           |     |    |         |     |         |          |   |         |         |            |           |    |         |          |             |           |  |  |          |             |  |  |  |  |                  |  |  |  |       |          |  |  |  |          |
|   |           |               |                    |           |   |       | CRASH CLEANUP \$ -100              |           |      |      |      |     |           |          |     |    |         |     |          |           |    |         |         |           |     |    |         |     |           |     |    |         |     |         |          |   |         |         |            |           |    |         |          |             |           |  |  |          |             |  |  |  |  |                  |  |  |  |       |          |  |  |  |          |
|   |           |               |                    |           |   |       | INTEREST RATE 4%                   |           |      |      |      |     |           |          |     |    |         |     |          |           |    |         |         |           |     |    |         |     |           |     |    |         |     |         |          |   |         |         |            |           |    |         |          |             |           |  |  |          |             |  |  |  |  |                  |  |  |  |       |          |  |  |  |          |
| <p style="text-align: center;"><b>Crashes Reduced</b></p>   |           |               |                    |           | <b>15. ANNUAL COST OF IMPROVEMENTS</b> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>TYPE</th> <th>COST</th> <th>LIFE</th> <th>CRF</th> <th>AN'L COST</th> </tr> </thead> <tbody> <tr> <td>A. R-O-W</td> <td>\$0</td> <td>20</td> <td>0.07358</td> <td>\$0</td> </tr> <tr> <td>B. PECEI</td> <td>\$135,157</td> <td>20</td> <td>0.07358</td> <td>\$9,945</td> </tr> <tr> <td>C. STRUCT</td> <td>\$0</td> <td>50</td> <td>0.04655</td> <td>\$0</td> </tr> <tr> <td>D. SIGNAL</td> <td>\$0</td> <td>20</td> <td>0.07358</td> <td>\$0</td> </tr> <tr> <td>E. S&amp;PM</td> <td>\$49,757</td> <td>8</td> <td>0.14853</td> <td>\$7,390</td> </tr> <tr> <td>F. ROADWAY</td> <td>\$288,136</td> <td>20</td> <td>0.07358</td> <td>\$21,201</td> </tr> <tr> <td>G. SUBTOTAL</td> <td>\$473,050</td> <td></td> <td></td> <td>\$38,536</td> </tr> <tr> <td>H. LIGHTING</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>I. CRASH CLEANUP</td> <td></td> <td></td> <td></td> <td>\$122</td> </tr> <tr> <td>J. TOTAL</td> <td></td> <td></td> <td></td> <td>\$38,658</td> </tr> </tbody> </table> |       |                                    |           | TYPE | COST | LIFE | CRF | AN'L COST | A. R-O-W | \$0 | 20 | 0.07358 | \$0 | B. PECEI | \$135,157 | 20 | 0.07358 | \$9,945 | C. STRUCT | \$0 | 50 | 0.04655 | \$0 | D. SIGNAL | \$0 | 20 | 0.07358 | \$0 | E. S&PM | \$49,757 | 8 | 0.14853 | \$7,390 | F. ROADWAY | \$288,136 | 20 | 0.07358 | \$21,201 | G. SUBTOTAL | \$473,050 |  |  | \$38,536 | H. LIGHTING |  |  |  |  | I. CRASH CLEANUP |  |  |  | \$122 | J. TOTAL |  |  |  | \$38,658 |
| TYPE  | COST      | LIFE          | CRF                | AN'L COST |   |       |                                    |           |      |      |      |     |           |          |     |    |         |     |          |           |    |         |         |           |     |    |         |     |           |     |    |         |     |         |          |   |         |         |            |           |    |         |          |             |           |  |  |          |             |  |  |  |  |                  |  |  |  |       |          |  |  |  |          |
| A. R-O-W  | \$0       | 20            | 0.07358            | \$0       |   |       |                                    |           |      |      |      |     |           |          |     |    |         |     |          |           |    |         |         |           |     |    |         |     |           |     |    |         |     |         |          |   |         |         |            |           |    |         |          |             |           |  |  |          |             |  |  |  |  |                  |  |  |  |       |          |  |  |  |          |
| B. PECEI  | \$135,157 | 20            | 0.07358            | \$9,945   |   |       |                                    |           |      |      |      |     |           |          |     |    |         |     |          |           |    |         |         |           |     |    |         |     |           |     |    |         |     |         |          |   |         |         |            |           |    |         |          |             |           |  |  |          |             |  |  |  |  |                  |  |  |  |       |          |  |  |  |          |
| C. STRUCT   | \$0       | 50            | 0.04655            | \$0       |   |       |                                    |           |      |      |      |     |           |          |     |    |         |     |          |           |    |         |         |           |     |    |         |     |           |     |    |         |     |         |          |   |         |         |            |           |    |         |          |             |           |  |  |          |             |  |  |  |  |                  |  |  |  |       |          |  |  |  |          |
| D. SIGNAL   | \$0       | 20            | 0.07358            | \$0       |   |       |                                    |           |      |      |      |     |           |          |     |    |         |     |          |           |    |         |         |           |     |    |         |     |           |     |    |         |     |         |          |   |         |         |            |           |    |         |          |             |           |  |  |          |             |  |  |  |  |                  |  |  |  |       |          |  |  |  |          |
| E. S&PM   | \$49,757  | 8             | 0.14853            | \$7,390   |   |       |                                    |           |      |      |      |     |           |          |     |    |         |     |          |           |    |         |         |           |     |    |         |     |           |     |    |         |     |         |          |   |         |         |            |           |    |         |          |             |           |  |  |          |             |  |  |  |  |                  |  |  |  |       |          |  |  |  |          |
| F. ROADWAY  | \$288,136 | 20            | 0.07358            | \$21,201  |   |       |                                    |           |      |      |      |     |           |          |     |    |         |     |          |           |    |         |         |           |     |    |         |     |           |     |    |         |     |         |          |   |         |         |            |           |    |         |          |             |           |  |  |          |             |  |  |  |  |                  |  |  |  |       |          |  |  |  |          |
| G. SUBTOTAL   | \$473,050 |               |                    | \$38,536  |   |       |                                    |           |      |      |      |     |           |          |     |    |         |     |          |           |    |         |         |           |     |    |         |     |           |     |    |         |     |         |          |   |         |         |            |           |    |         |          |             |           |  |  |          |             |  |  |  |  |                  |  |  |  |       |          |  |  |  |          |
| H. LIGHTING   |           |               |                    |           |   |       |                                    |           |      |      |      |     |           |          |     |    |         |     |          |           |    |         |         |           |     |    |         |     |           |     |    |         |     |         |          |   |         |         |            |           |    |         |          |             |           |  |  |          |             |  |  |  |  |                  |  |  |  |       |          |  |  |  |          |
| I. CRASH CLEANUP  |           |               |                    | \$122     |   |       |                                    |           |      |      |      |     |           |          |     |    |         |     |          |           |    |         |         |           |     |    |         |     |           |     |    |         |     |         |          |   |         |         |            |           |    |         |          |             |           |  |  |          |             |  |  |  |  |                  |  |  |  |       |          |  |  |  |          |
| J. TOTAL  |           |               |                    | \$38,658  |   |       |                                    |           |      |      |      |     |           |          |     |    |         |     |          |           |    |         |         |           |     |    |         |     |           |     |    |         |     |         |          |   |         |         |            |           |    |         |          |             |           |  |  |          |             |  |  |  |  |                  |  |  |  |       |          |  |  |  |          |
|   |           |               |                    |           | <b>16. BENEFIT</b> \$189,948  |       |                                    |           |      |      |      |     |           |          |     |    |         |     |          |           |    |         |         |           |     |    |         |     |           |     |    |         |     |         |          |   |         |         |            |           |    |         |          |             |           |  |  |          |             |  |  |  |  |                  |  |  |  |       |          |  |  |  |          |
|   |           |               |                    |           | <b>17. BENEFIT / COST</b> 4.91  |       |                                    |           |      |      |      |     |           |          |     |    |         |     |          |           |    |         |         |           |     |    |         |     |           |     |    |         |     |         |          |   |         |         |            |           |    |         |          |             |           |  |  |          |             |  |  |  |  |                  |  |  |  |       |          |  |  |  |          |
| PREPARED BY: Ernest L. Herbert, PE  |           |               |                    |           | APPROVED BY: A. R. Nosse DATE:  |       |                                    |           |      |      |      |     |           |          |     |    |         |     |          |           |    |         |         |           |     |    |         |     |           |     |    |         |     |         |          |   |         |         |            |           |    |         |          |             |           |  |  |          |             |  |  |  |  |                  |  |  |  |       |          |  |  |  |          |
| COMMENTS/CRASH REDUCTION METHOD: Cost per Crash Value per FDOT PPM (Table 23.5.1) for Statewide Average Cost per Crash Mitigation Rates for Applicable Crashes: CMF = 0.53 (Convert a TWLTL to a raised median - for all roadway types, all crash types)  |           |               |                    |           |   |       |                                    |           |      |      |      |     |           |          |     |    |         |     |          |           |    |         |         |           |     |    |         |     |           |     |    |         |     |         |          |   |         |         |            |           |    |         |          |             |           |  |  |          |             |  |  |  |  |                  |  |  |  |       |          |  |  |  |          |
| HIGH CRASH SEGMENTS: _____  |           |               |                    |           |   |       |                                    |           |      |      |      |     |           |          |     |    |         |     |          |           |    |         |         |           |     |    |         |     |           |     |    |         |     |         |          |   |         |         |            |           |    |         |          |             |           |  |  |          |             |  |  |  |  |                  |  |  |  |       |          |  |  |  |          |

# APPENDIX

Appendix A: Straight-Line Diagram

Appendix B: Existing Typical Section

Appendix C: SR 520 Resurfacing Plans (2014)

Appendix D: Existing Conditions Diagram

Appendix E: Photographs

Appendix F: FDOT Count Station Data

Appendix G: Traffic Data Collected

Appendix H: Turning Movement Volumes

Appendix I: Collision Summary and Diagram

Appendix J: Existing Signal Timings

Appendix K: Synchro Reports

Appendix L: Recommended Typical Section

Appendix M: Recommendation Diagram

Appendix N: Crash Mitigation Information

Appendix O: Net Present Value Estimate

# **Appendix A:**

## Straight-Line Diagram

|      | 5 YR INV   | SLD REV          | BMP     | EMP     | INV           | SLD REV       | FLORIDA DEPARTMENT OF TRANSPORTATION  | SECTION STATUS | INT. or US ROUTE NO. | STATE ROAD NO. | COUNTY  | DISTRICT | ROADWAY ID | SHEET NO: |
|------|------------|------------------|---------|---------|---------------|---------------|--|----------------|----------------------|----------------|---------|----------|------------|-----------|
| DATE | 11/14/2011 | 11/17/2011       | 000,000 | 016,316 | 12/08/2014 MR |               | STRAIGHT LINE DIAGRAM OF ROAD INVENTORY  | 02             |                      | SR 520         | BREVARD | 05       | 70100000   | 2 OF 3    |
| BY   | Randy Cole | Michael Register | 000,000 | 016,316 | 09/30/2013 BH | 10/09/2013 MR | 000,000  | 016,316        | 04/02/2013 MR        | 04/03/2013 MR  |         |          |            |           |

**FLORIDA DEPARTMENT OF TRANSPORTATION**  
**STRAIGHT LINE DIAGRAM OF ROAD INVENTORY**

**ROADWAY FEATURES**

- INSIDE CITY, AND URBAN COCOA, PALM BAY-MELBOURNE, KING ST, SR 520
- PINEAPPLE AVE, WILSON ST, WASHINGTON AVE, HUGHLETT AVE, DELANNY AVE, BREVARD AVE, INDIAN RIVER, RIVER
- OUTSIDE CITY, AND URBAN COCOA, PALM BAY-MELBOURNE, KING ST, SR 520, SR 520 WB
- LANE WIDTHS ARE AVERAGED: 84.0' - 48.0', 4 - 12.0' RDWY, 24.0' CB&VEG MED, 2 - 2.0' C&G INSHLD1, 2 - 4.0' PVD SHLD1, 2 - 2.0' C&G SHLD1, 2 - 2.0' C&G SHLD2

**ROADWAY COMPOSITION**

- 28/FC-6, 28/FC-4, 28/FC-3, 28/FC-12.5, 28/FC-12.5, 28/FC-12.5, 28/FC-0, 28/FC-4, 28/FC-4, 28/FC-4

**HORIZONTAL ALIGNMENT**

- CURVE DATA NOT FIELD VERIFIED:  $\Delta=0^{\circ}0'00.00''$ ,  $\Delta=0^{\circ}0'100.00''$ ,  $\Delta=5^{\circ}48'00.00''$ ,  $\Delta=2^{\circ}00'$ ,  $\Delta=56'00.00''$ ,  $\Delta=0^{\circ}0'00.00''$ ,  $\Delta=0^{\circ}0'30.00''$ ,  $\Delta=11^{\circ}23'29.00''$ ,  $\Delta=2^{\circ}28'$ ,  $\Delta=9'00'00.00''$ ,  $\Delta=3'30'00.00''$ ,  $\Delta=2^{\circ}10'00.00''$ ,  $\Delta=1^{\circ}10'$ ,  $\Delta=7'21'00.00''$ ,  $\Delta=2^{\circ}30'$ ,  $\Delta=9'98'00.00''$ ,  $\Delta=10'034$ ,  $\Delta=14^{\circ}22'32.00''$ ,  $\Delta=2^{\circ}30'$ ,  $\Delta=5'36'03.00''$ ,  $\Delta=0^{\circ}30'$
- PI=8.004, PI=8.300, PI=8.931, PI=9.018, PI=8.754, PI=8.9219, PI=9.980, PI=10.427, PI=9.831, PI=9.801, PI=10.321, PI=10.623
- B=N84°23'00"E, B=S84°09'00"E, B=S84°10'00"E, B=S89°58'00"E, B=S85°00'00"E, B=S85°06'00"E, B=S85°06'30"E, B=N83°30'01"E, B=N83°29'01"E, B=S83°09'58"E, B=N83°34'41"E, B=N89°10'44"E, B=N88°27'41"E, B=N89°13'21"E

**STRUCTURE DESCRIPTION**

- #0171, #0137, #0196

**SIS**

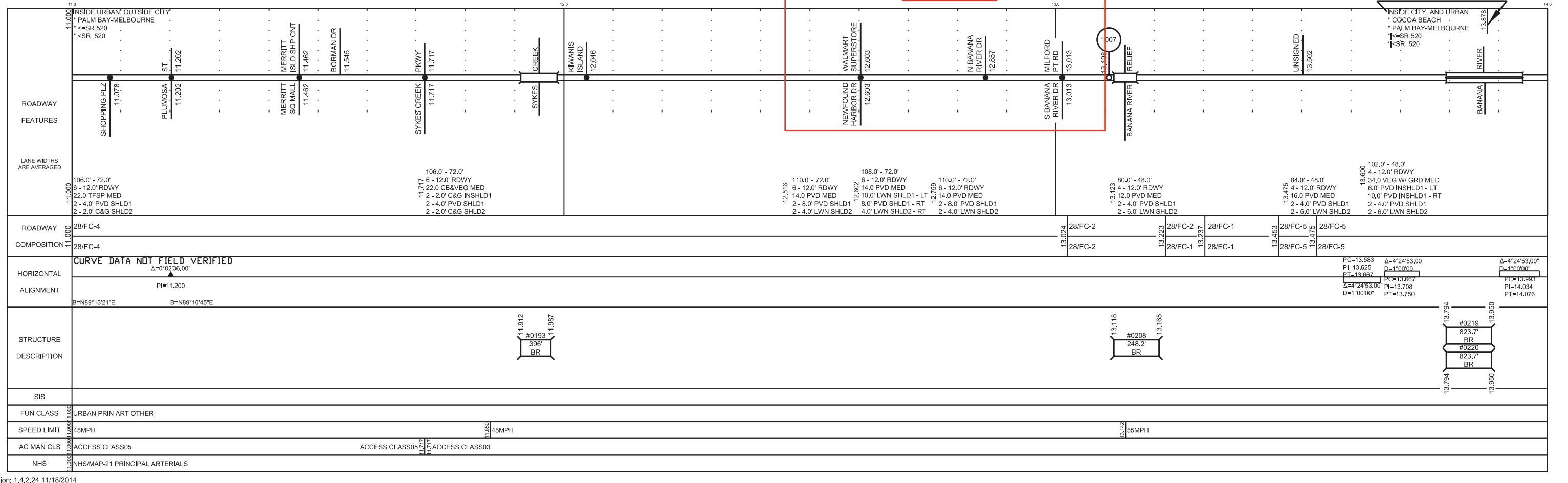
**FUN CLASS** URBAN PRIN ART OTHER

**SPEED LIMIT** 40MPH, 35MPH, 35MPH, 45MPH

**AC MAN CLS** ACCESS CLASS05, ACCESS CLASS05, ACCESS CLASS06, ACCESS CLASS06, ACCESS CLASS06, ACCESS CLASS03, ACCESS CLASS03, ACCESS CLASS03, ACCESS CLASS03

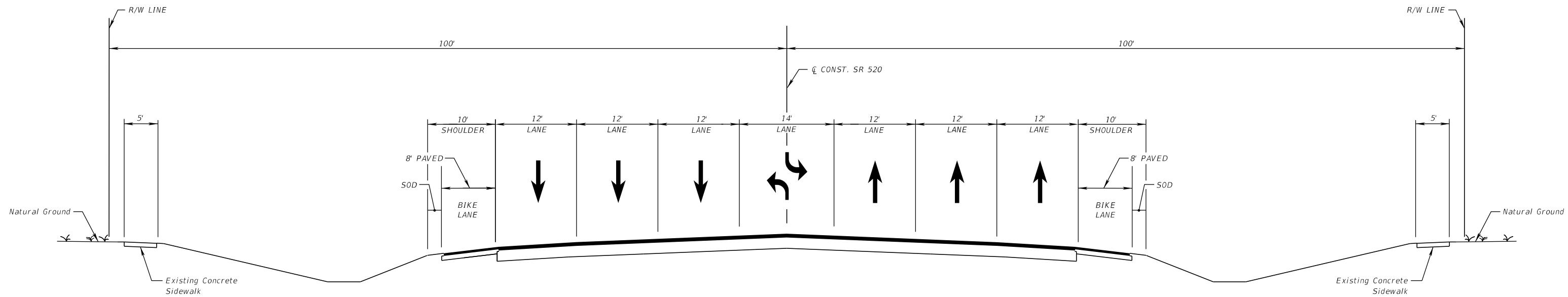
**NHS** NHS/MAP-21 PRINCIPAL ARTERIALS

# Study Limits



## **Appendix B:**

### **Existing Typical Section**



SR 520  
EXISTING TYPICAL SECTION

# **Appendix C:**

## **SR 520 Resurfacing Plans (2014)**

## **COMPONENTS OF CONTRACT PLANS SET**

**ROADWAY PLANS  
SIGNING AND PAVEMENT MARKING PLANS**

A DETAILED INDEX APPEARS ON THE  
KEY SHEET OF EACH COMPONENT

## *INDEX OF ROADWAY PLANS*

| <i>SHEET NO.</i> | <i>SHEET DESCRIPTION</i>             |
|------------------|--------------------------------------|
| 1                | KEY SHEET                            |
| 2                | SIGNATURE SHEET                      |
| 3                | SUMMARY OF PAY ITEMS                 |
| 4 - 6            | TYPICAL SECTIONS                     |
| 7 - 8            | SUMMARY OF QUANTITIES                |
| 9                | GENERAL NOTES                        |
| 10 - 18          | ROADWAY PLAN SHEETS                  |
| 19 - 20          | SPECIAL DETAILS                      |
| 21 - 29          | CROSS SECTIONS                       |
| 30               | STORMWATER POLLUTION PREVENTION PLAN |
| 31 - 32          | TEMPORARY TRAFFIC CONTROL PLANS      |
| 33 - 35          | PROJECT SURVEY CONTROL SHEETS        |

*LIST OF REVISED INDEX DRAWINGS*

*INDEX NO.*                            *SHEET NO.*

## **GOVERNING STANDARDS:**

*Florida Department of Transportation, 2014 Standards and revised Index Drawings as appended herein, and 2014 Standard Specifications for Road and Bridge Construction, as amended by Contract Documents.*

*For Design Standards click on the "Design Standards" link at the following web site:*

<http://www.dot.state.fl.us/rddesign/>

*For the Standard Specifications for Road and Bridge Construction click on the "Specifications" link at the following web site:*

*http://www.dot.state.fl.us/specificationsoffice/*

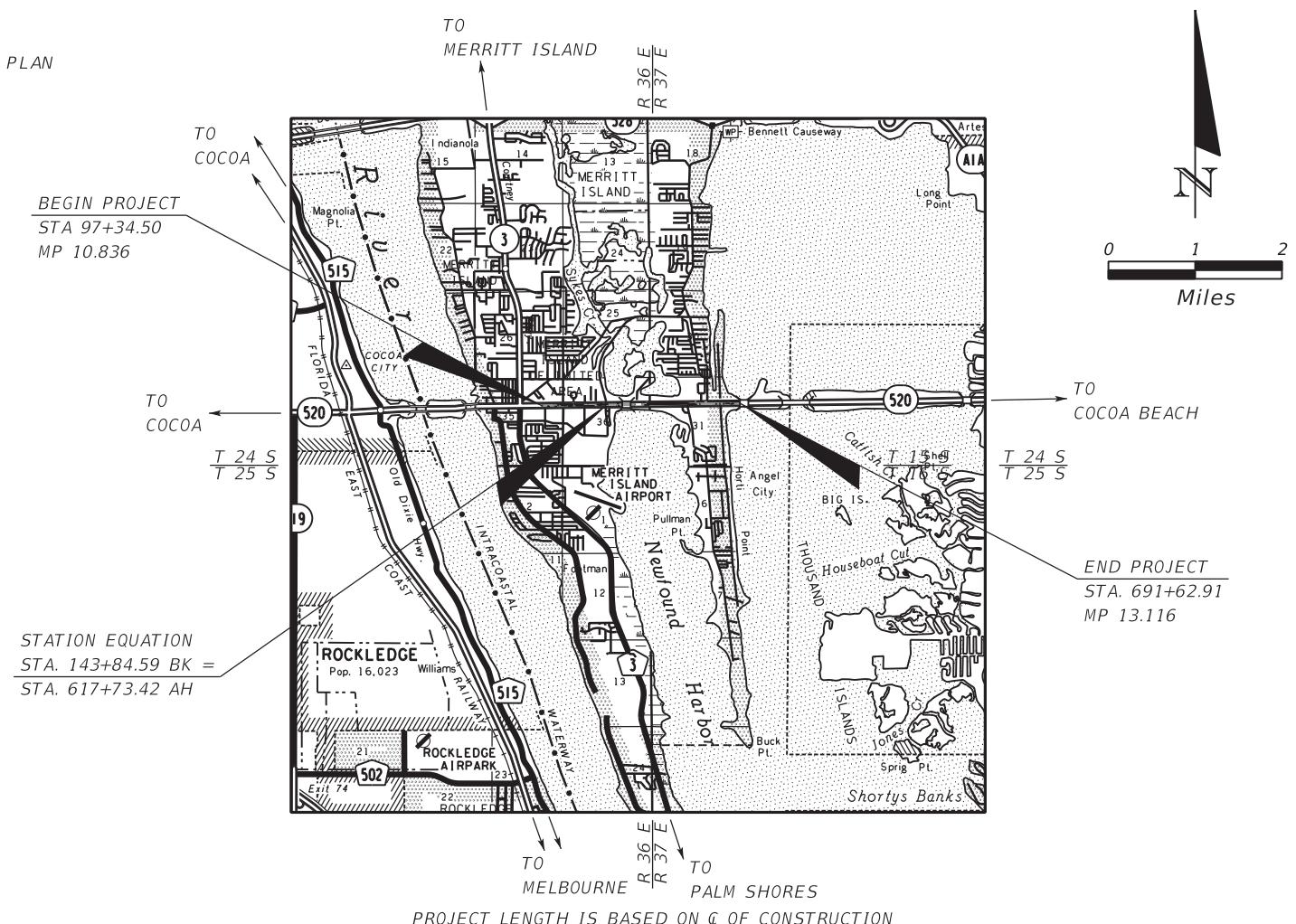
*STATE OF FLORIDA*  
*DEPARTMENT OF TRANSPORTATION*

## *CONTRACT PLANS*

*FINANCIAL PROJECT ID 431139-1-52-01*

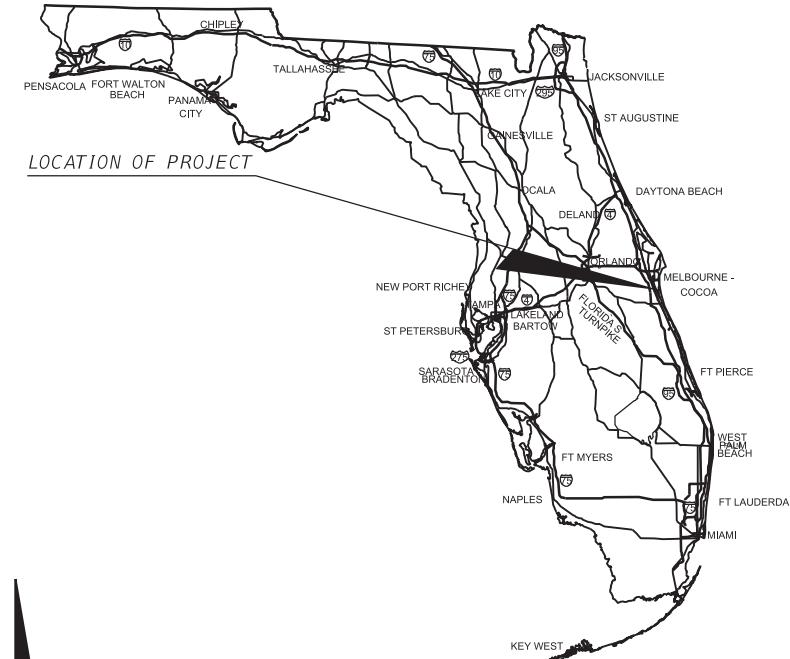
*BREVARD COUNTY (70100)*

STATE ROAD NO. 520



| PROJECT LENGTH IS BASED ON % OF CONSTRUCTION |             |       |
|--|-------------|-------|
| LENGTH OF PROJECT                            |             |       |
|  | LINEAR FEET | MILES |
| ROADWAY                                      | 11643.20    | 2.205 |
| BRIDGES                                      | 396.38      | 0.075 |
| NET LENGTH OF PROJECT                        | 11643.20    | 2.205 |
| EXCEPTIONS                                   |             |       |
| GROSS LENGTH OF PROJECT                      | 12039.58    | 2.280 |

FDOT PROJECT MANAGER: GENE VARANO



**ROADWAY SHOP DRAWINGS  
TO BE SUBMITTED TO:**

JASON R. FLICK, P.E.  
MOFFATT & NICHOL  
1025 GREENWOOD BLVD., STE. 371  
LAKE MARY, FL 32746

*PLANS PREPARED BY:*

MOFFATT & NICHOL  
1025 GREENWOOD BLVD, SUITE 371  
LAKE MARY, FL 32746  
PHONE: (407) 562-2030  
FAX: (407) 562-2031  
CONTRACT NO.: C9395  
VENDOR ID.: F951951343001  
CERT. OF AUTH. NO.: 4877

NOTE: THE SCALE OF THESE PLANS MAY  
HAVE CHANGED DUE TO REPRODUCTION.

NOTE: THIS IS A LUMR SUM PROJECT

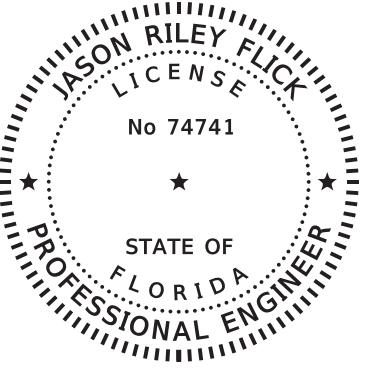
NOTE: THIS PROJECT TO BE LET TO CONTRACT WITH FINANCIAL PROJECT IDS 431139-2-52-01, 431139-3-52-01 & 427400-2-52-01

| KEY SHEET REVISIONS |             |
|---------------------|-------------|
| DATE                | DESCRIPTION |
|                     |             |

**ROADWAY PLANS  
ENGINEER OF RECORD: JASON R. FLICK, P.E.**

P.F. NO.: 74741

| <i>FISCAL<br/>YEAR</i> | <i>SHEET<br/>NO.</i> |
|------------------------|----------------------|
| 14                     | 1                    |

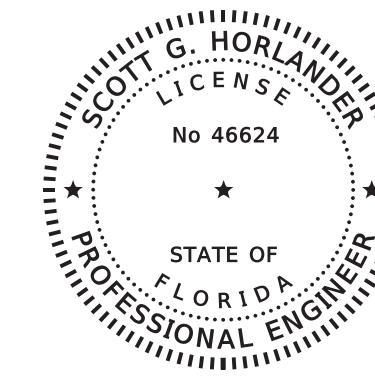


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signed by  
Jason R Flick  
Date:  
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THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.003, F.A.C.

ROADWAY PLANS

| SHEET NO. | SHEET DESCRIPTION                    |
|-----------|--------------------------------------|
| 1         | KEY SHEET                            |
| 2         | SIGNATURE SHEET                      |
| 3         | SUMMARY OF PAY ITEMS                 |
| 4 - 6     | TYPICAL SECTIONS                     |
| 7 - 8     | SUMMARY OF QUANTITIES                |
| 9         | GENERAL NOTES                        |
| 10 - 18   | ROADWAY PLAN SHEETS                  |
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| 30        | STORMWATER POLLUTION PREVENTION PLAN |
| 31 - 32   | TEMPORARY TRAFFIC CONTROL PLANS      |
| 33 - 35   | PROJECT SURVEY CONTROL SHEETS        |



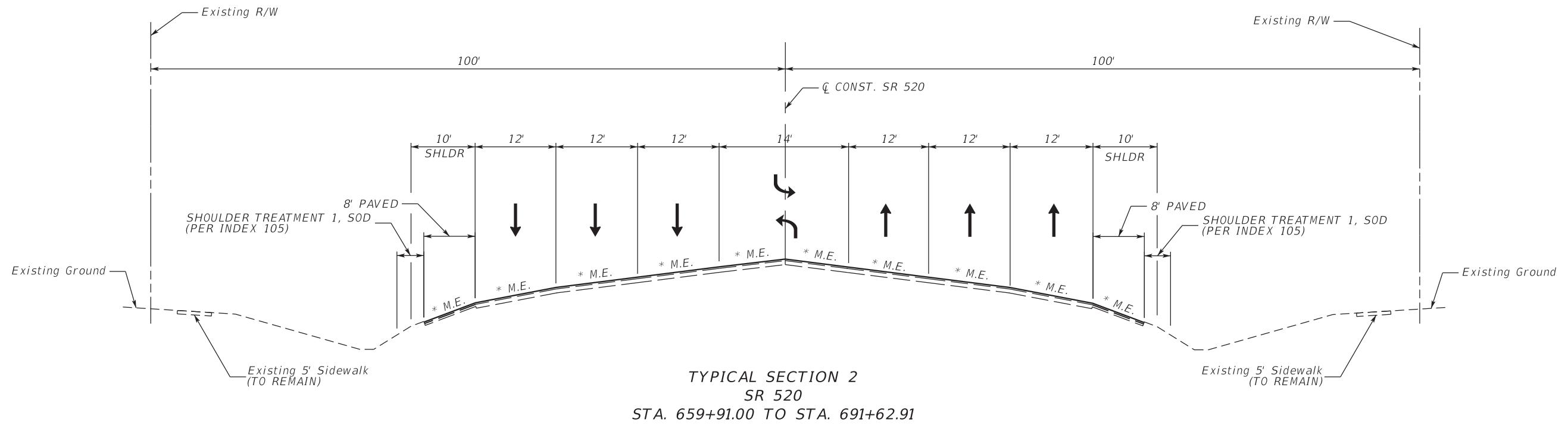
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Date: 2014.04.16  
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THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.003, F.A.C.

SIGNING & PAVEMENT MARKING PLANS

| SHEET NO.   | SHEET DESCRIPTION        |
|-------------|--------------------------|
| S-1         | KEY SHEET                |
| S-2 - S-3   | TABULATION OF QUANTITIES |
| S-4         | GENERAL NOTES            |
| S-5 - S-22  | SIGNING & MARKING PLAN   |
| S-23 - S-24 | GUIDE SIGN WORKSHEET     |
| S-25        | TRAFFIC MONITORING SITE  |

| REVISIONS |             |      |             | MOFFATT & NICHOL<br>1025 GREENWOOD BLVD, STE 371<br>LAKE MARY, FL 32746<br>PHONE (407) 562-2030<br>CERT. OF AUTH. NO. 4877 | STATE OF FLORIDA<br>DEPARTMENT OF TRANSPORTATION |         |                      | SIGNATURE SHEET | SHEET NO.<br>2   |
|-----------|-------------|------|-------------|--|--|---------|----------------------|-----------------|--|
| DATE      | DESCRIPTION | DATE | DESCRIPTION |  | ROAD NO.   | COUNTY  | FINANCIAL PROJECT ID |                 |  |
|           |             |      |             |  | 520  | BREVARD | 431139-1-52-01       |                 |  |
|           |             |      |             | ENGINEER OF RECORD:<br>JASON RILEY FLICK, P.E.<br>FL REGISTRATION NO. 74741  |  |         |                      | jflick          | 4/14/2014 12:42:26 PM P:\7604-D5_DW112\02-SR520\43113915201\roadway\SIGNRDO1.DGN |



\* NOTE: M.E. DENOTES MATCH EXISTING CROSS-SLOPE

### MILLING

MILL EXISTING ASPHALT PAVEMENT (1 1/2" AVG. DEPTH)

### RESURFACING

FRiction COURSE FC-12.5 (TRAFFIC C) (1 1/2") (PG 76-22 (ARB))

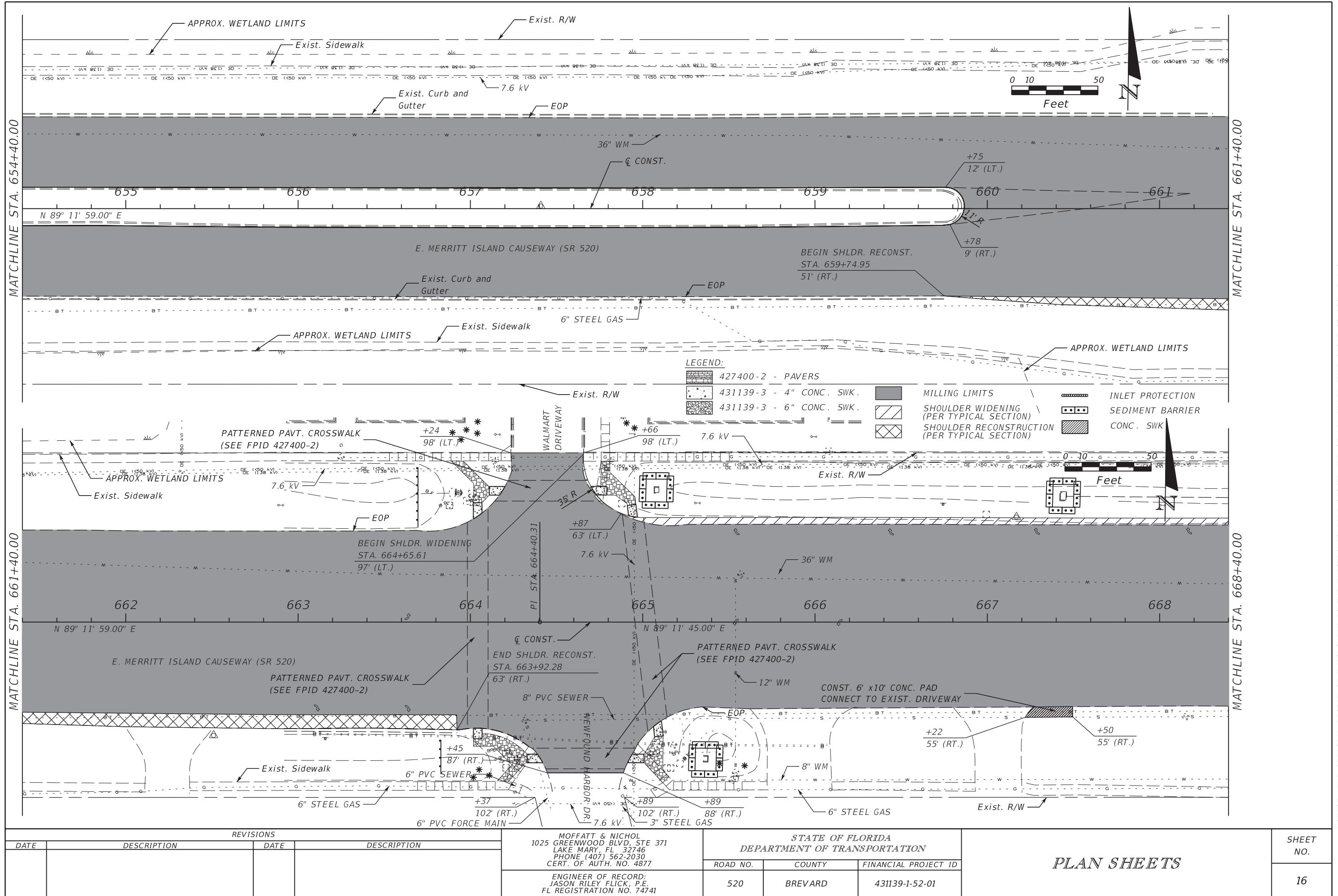
### TRAFFIC DATA

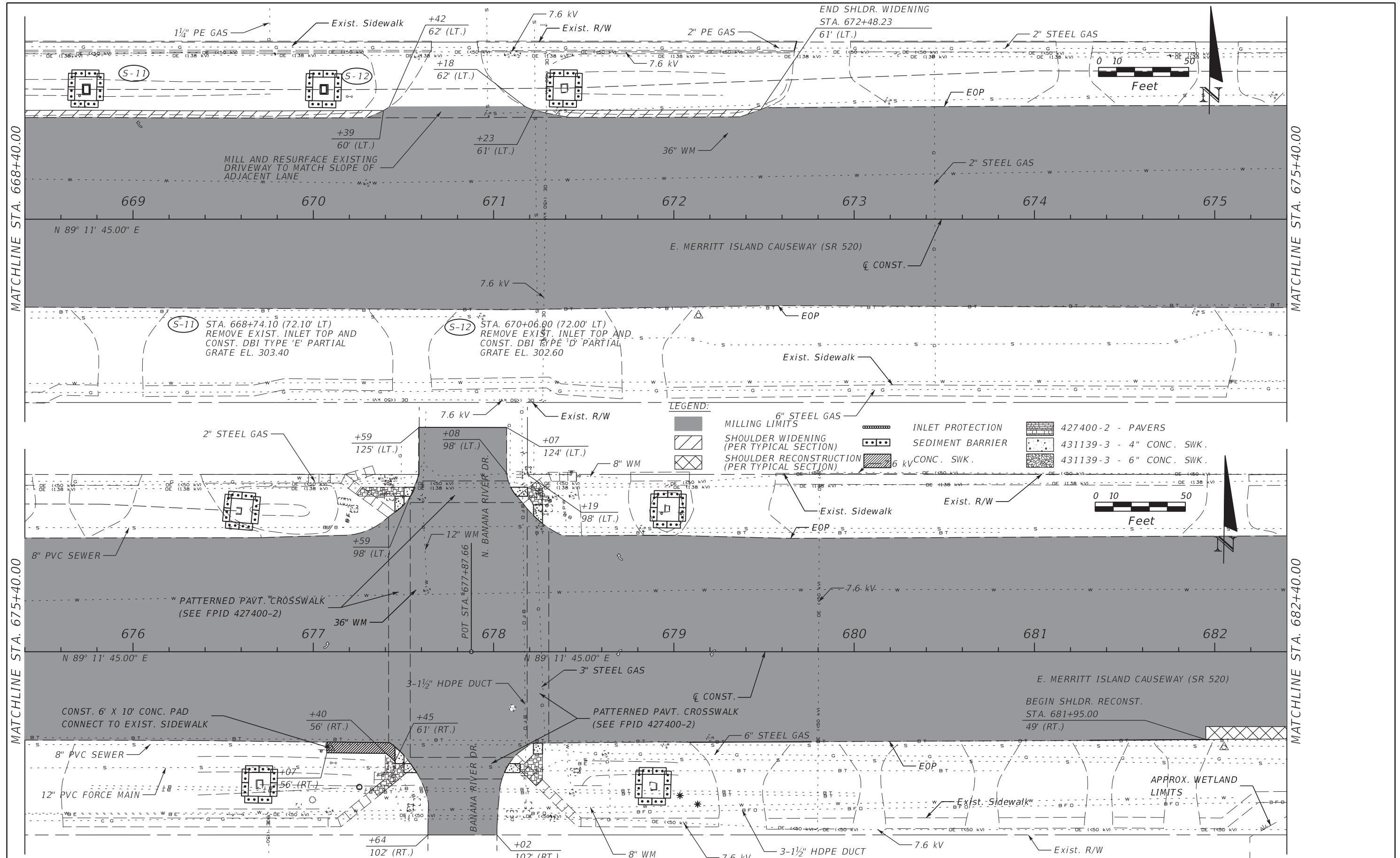
CURRENT YEAR = 2011 AADT = 27,000  
ESTIMATED OPENING YEAR = 2014 AADT = 27,800  
ESTIMATED DESIGN YEAR = 2034 AADT = 33,100  
K = 9.00% D = 55.00% T = 3.50% (24 HOUR)  
DESIGN HOUR T = 1.75%  
DESIGN SPEED = 45 MPH

NOTE: PAVEMENT CORING DATA, INCLUDING BASE MATERIAL TYPE AND THICKNESS, IS AVAILABLE ON THE DEPARTMENT'S WEBSITE. THE URL FOR OBTAINING THIS INFORMATION IS: <ftp://ftp.dot.state.fl.us/LTS/D5/Construction/PavementCoringData/>.

THE DATA REPRESENTS MATERIAL ENCOUNTERED AT EACH CORING LOCATION ONLY. MATERIAL VARIATIONS BETWEEN CORES SHOULD BE ANTICIPATED AS INDICATED IN SECTION 2-4 OF THE STANDARD SPECIFICATIONS.

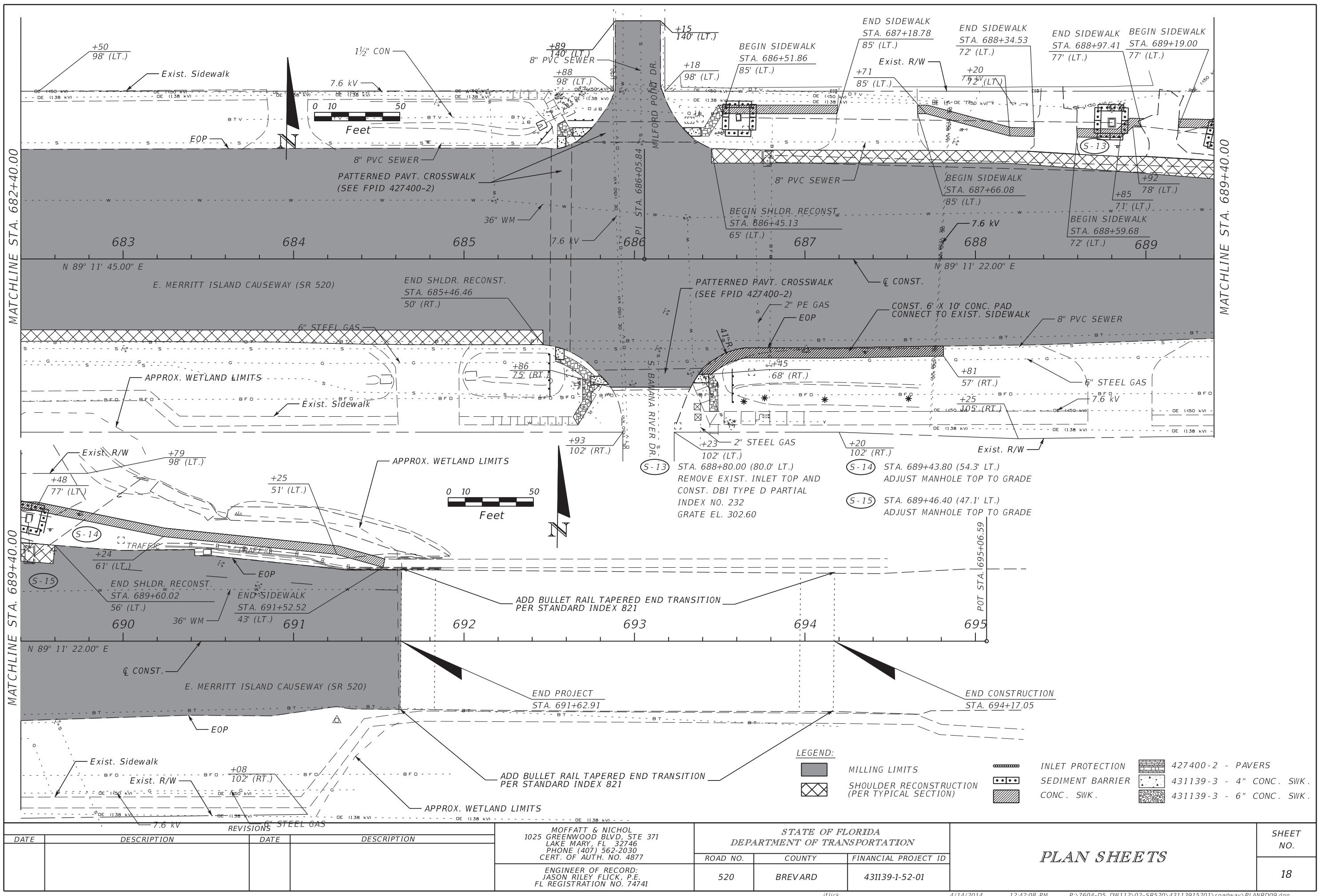
| REVISIONS |             |      |             | MOFFATT & NICHOL<br>1025 GREENWOOD BLVD, STE 371<br>LAKE MARY, FL 32746<br>PHONE (407) 562-2030<br>CERT. OF AUTH. NO. 4877 | STATE OF FLORIDA<br>DEPARTMENT OF TRANSPORTATION |         |                      | TYPICAL SECTION | SHEET NO.<br>5   |
|-----------|-------------|------|-------------|--|--|---------|----------------------|-----------------|--|
| DATE      | DESCRIPTION | DATE | DESCRIPTION |  | ROAD NO.   | COUNTY  | FINANCIAL PROJECT ID |                 |  |
|           |             |      |             | ENGINEER OF RECORD:<br>JASON RILEY FLICK, P.E.<br>FL REGISTRATION NO. 74741  | 520  | BREVARD | 431139-1-52-01       | jflick          | 4/14/2014 12:42:52 PM P:\7604-D5\DW112\02-SR520\43113915201\roadway\TYP5RD01.DGN |



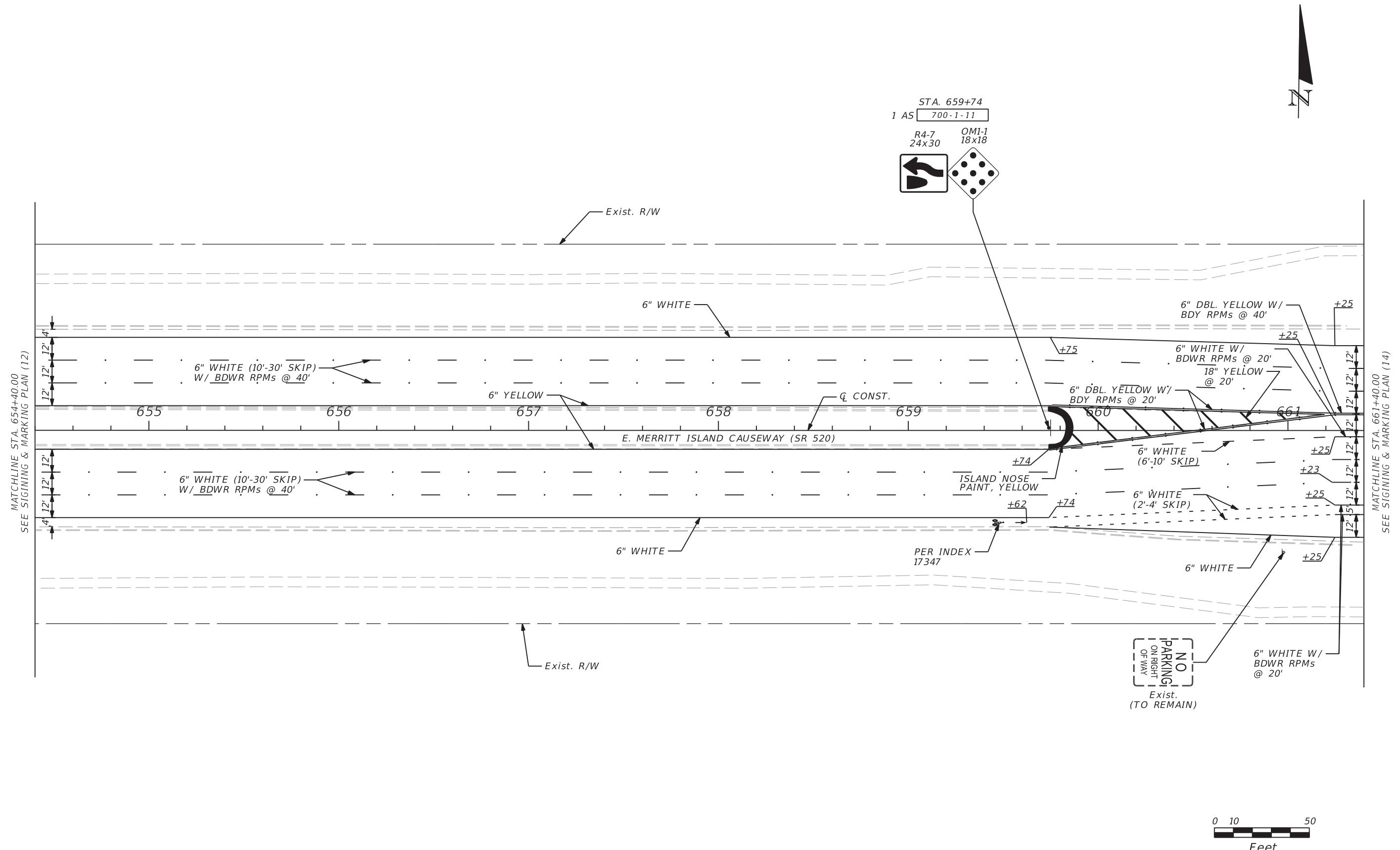


NOTICE : THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

| REVISIONS |             |      |             | 1025 MOFFATT & NICHOL<br>GREENWOOD BLVD, STE 371<br>LAKE MARY, FL 32746<br>PHONE (407) 562-2030<br>CERT. OF AUTH. NO. 4877 | STATE OF FLORIDA<br>DEPARTMENT OF TRANSPORTATION |         |                      | PLAN SHEETS | SHEET NO.<br>17 |
|-----------|-------------|------|-------------|--|--|---------|----------------------|-------------|-----------------|
| DATE      | DESCRIPTION | DATE | DESCRIPTION |  | ROAD NO.   | COUNTY  | FINANCIAL PROJECT ID |             |                 |
|           |             |      |             |  | 520  | BREVARD | 431139-1-52-01       |             |                 |

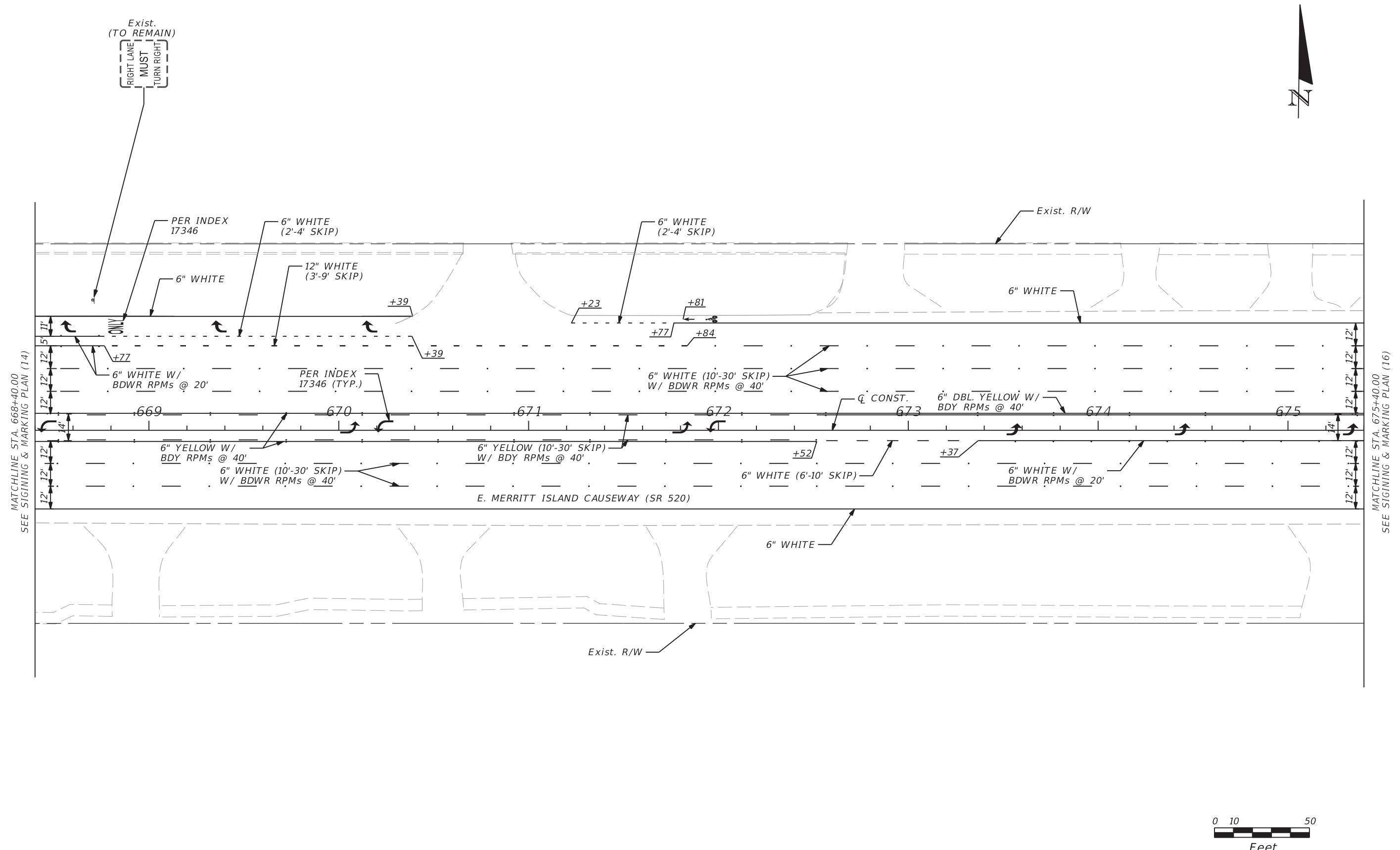


THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 616.5-23.003, F.A.C.

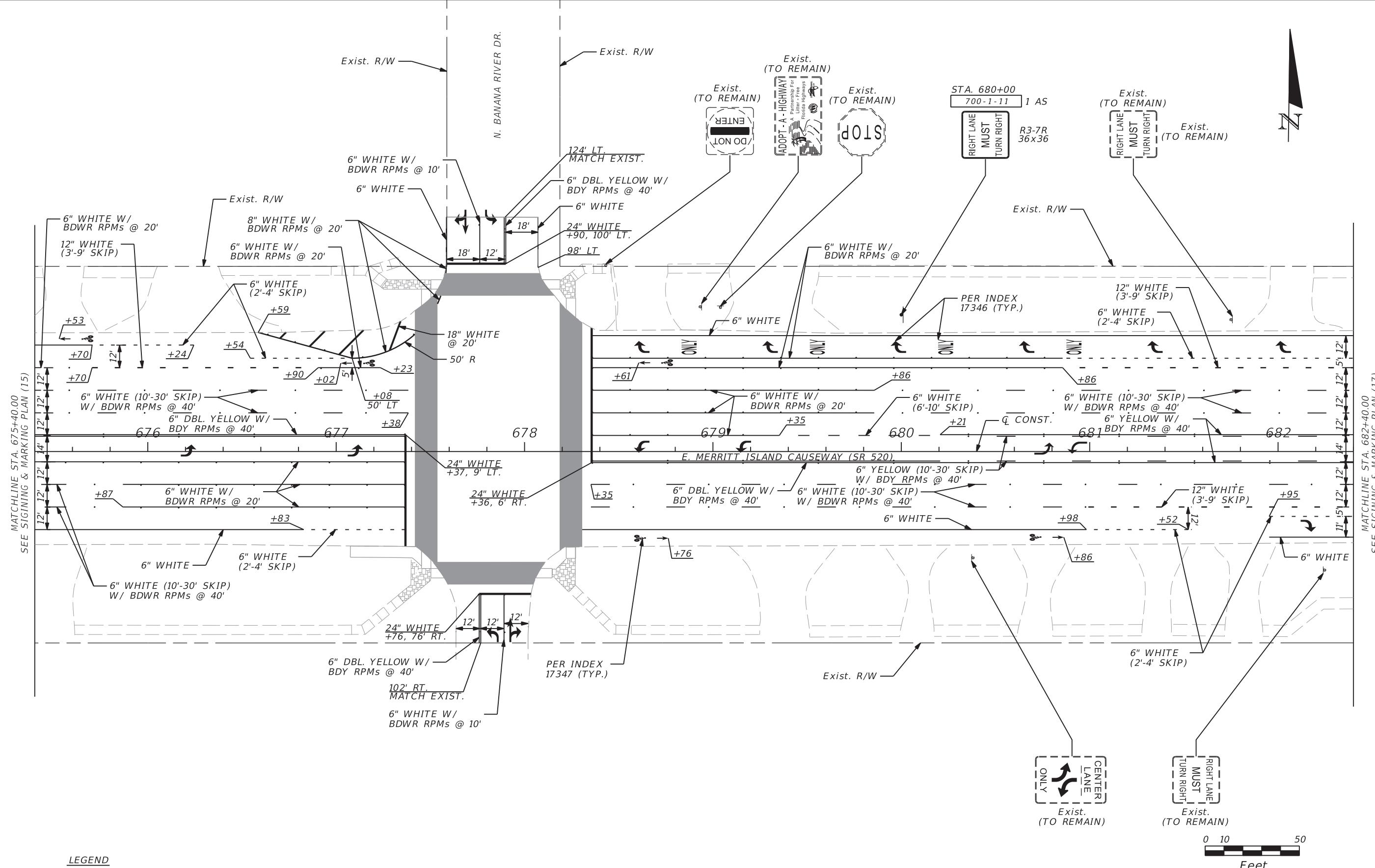


| REVISIONS |             |      |             | PROTEAN DESIGN GROUP<br>SCOTT G. HORLANDER, P.E. NO. 46624<br>100 EAST PINE STREET, SUITE 600<br>ORLANDO FLORIDA 32801<br>PHONE (407) 246-0044<br>CERTIFICATE OF AUTHORIZATION NUMBER 7865 | STATE OF FLORIDA<br>DEPARTMENT OF TRANSPORTATION |         |                      | <i>SIGNING &amp; MARKING<br/>PLAN (13)</i> | SHEET<br>NO.<br><br>S-17 |
|-----------|-------------|------|-------------|--|--|---------|----------------------|--|--------------------------|
| DATE      | DESCRIPTION | DATE | DESCRIPTION |  | ROAD NO.   | COUNTY  | FINANCIAL PROJECT ID |  |                          |
|           |             |      |             |  | 520  | BREVARD | 431139-1-52-01       |  |                          |

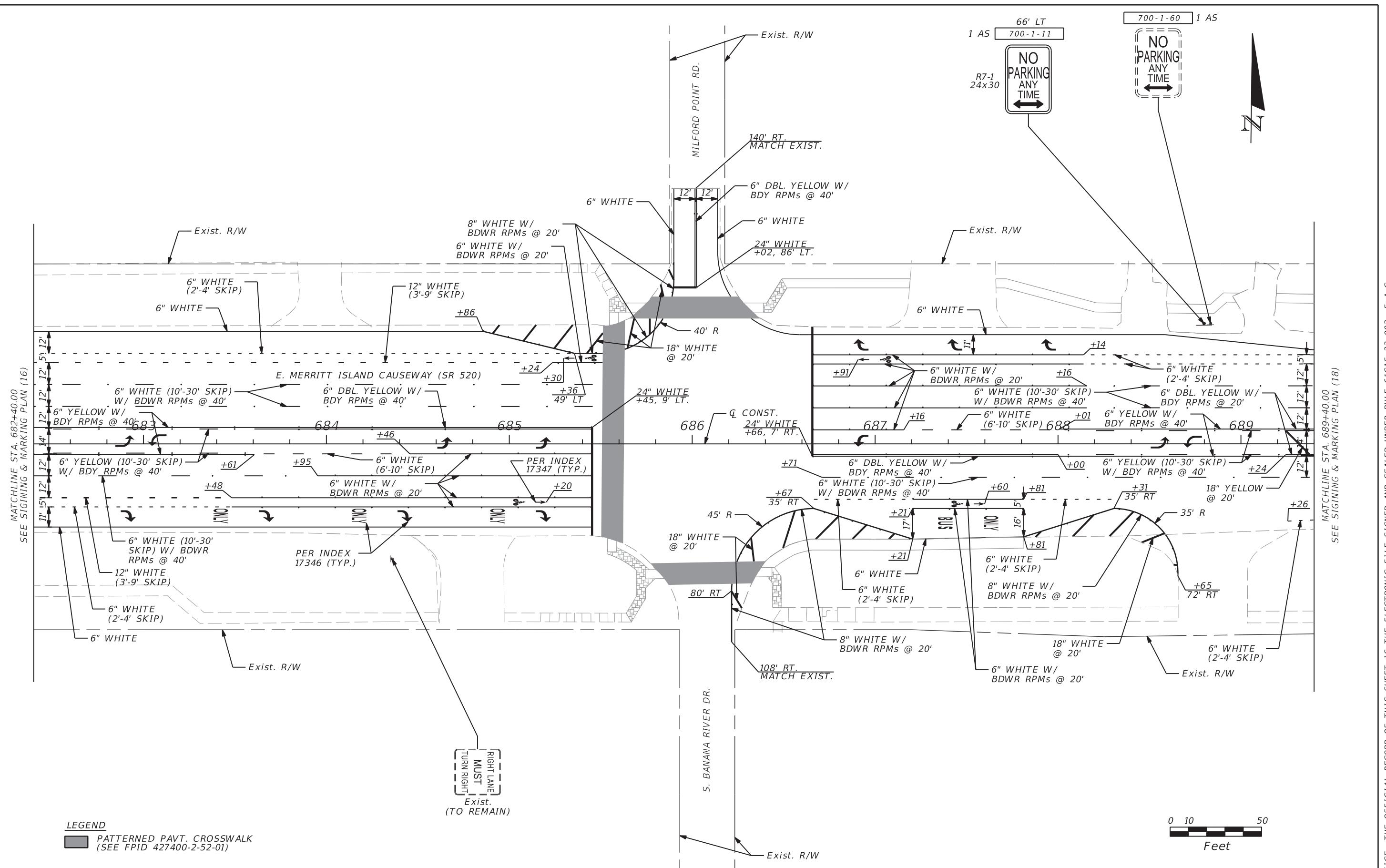




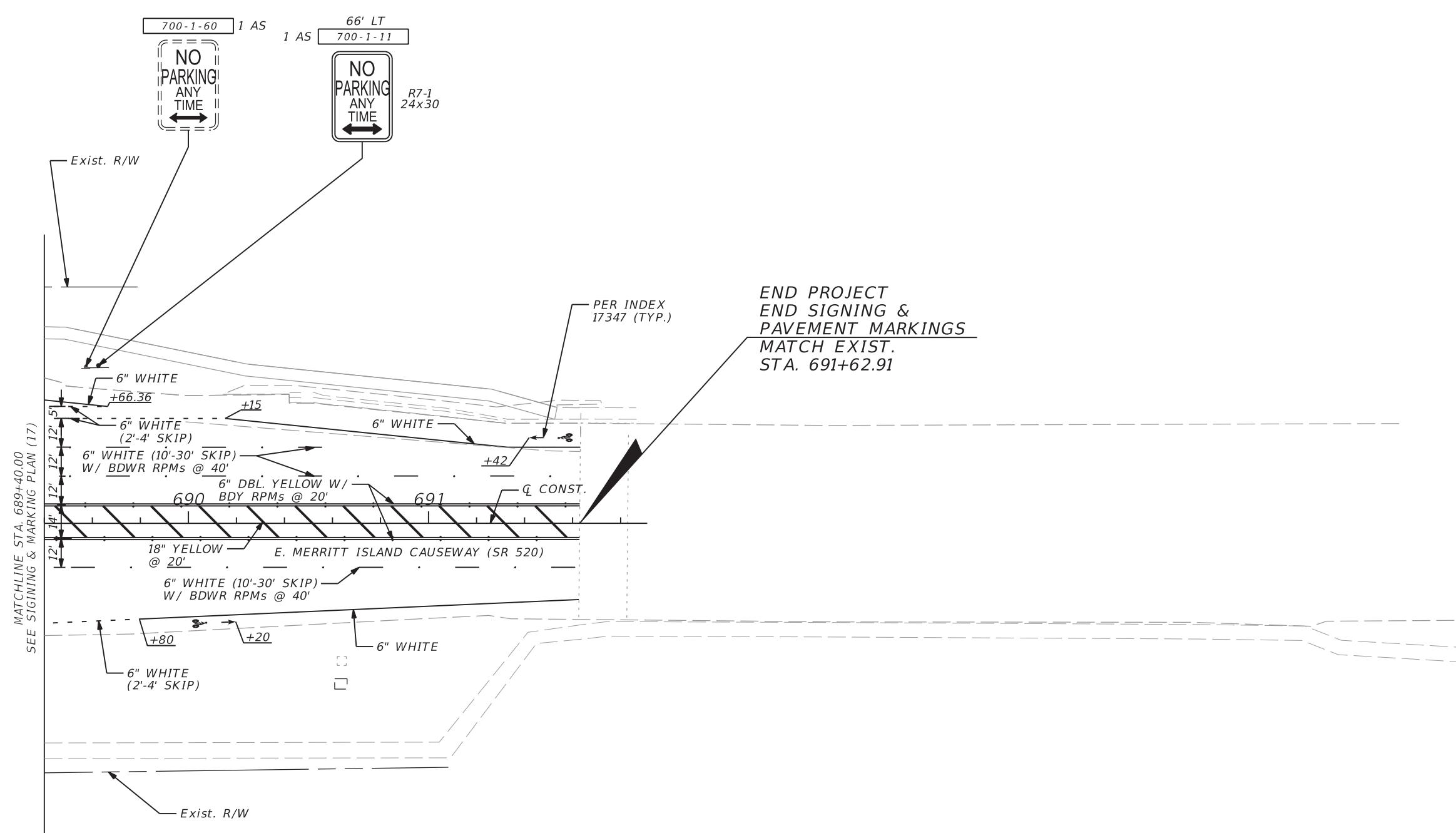
| REVISIONS |             |      |             | PROTEAN DESIGN GROUP<br>SCOTT G. HORLANDER, P.E. NO. 46624<br>100 EAST PINE STREET, SUITE 600<br>ORLANDO FLORIDA 32801<br>PHONE (407) 246-0044<br>CERTIFICATE OF AUTHORIZATION NUMBER 7865 | STATE OF FLORIDA<br>DEPARTMENT OF TRANSPORTATION |         |                      | <i>SIGNING &amp; MARKING<br/>PLAN (15)</i> | SHEET<br>NO.<br><br>S-19 |
|-----------|-------------|------|-------------|--|--|---------|----------------------|--|--------------------------|
| DATE      | DESCRIPTION | DATE | DESCRIPTION |  | ROAD NO.   | COUNTY  | FINANCIAL PROJECT ID |  |                          |
|           |             |      |             |  | 520  | BREVARD | 431139-1-52-01       |  |                          |



| REVISIONS |             |      |             | PROTEAN DESIGN GROUP<br>SCOTT G. HORLANDER, P.E. NO. 46624<br>100 EAST PINE STREET, SUITE 600<br>ORLANDO FLORIDA 32801<br>PHONE (407) 246-0044<br>CERTIFICATE OF AUTHORIZATION NUMBER 7865 | STATE OF FLORIDA<br>DEPARTMENT OF TRANSPORTATION |                |                      | <b>SIGNING &amp; MARKING<br/>PLAN (16)</b> | SHEET<br>NO.<br><br>S-20  |
|-----------|-------------|------|-------------|--|--|----------------|----------------------|--|---|
| DATE      | DESCRIPTION | DATE | DESCRIPTION |  | ROAD NO.   | COUNTY         | FINANCIAL PROJECT ID |  |   |
|           |             |      |             | 520  | BREVARD  | 431139-1-52-01 |                      | MMeLo                                      | 3/7/2014 9:20:00 AM H:\J1.118\2\Cadd\43113915201\signing\PLANS\SP16.dgn |



| REVISIONS |             |      |             | PROTEAN DESIGN GROUP<br>SCOTT G. HORLANDER, P.E. NO. 46624<br>100 EAST PINE STREET, SUITE 600<br>ORLANDO FLORIDA 32801<br>PHONE (407) 246-0044<br>CERTIFICATE OF AUTHORIZATION NUMBER 7865 | STATE OF FLORIDA<br>DEPARTMENT OF TRANSPORTATION |                |                      | <b>SIGNING &amp; MARKING<br/>PLAN (17)</b> | SHEET<br>NO.<br><br><b>S-21</b>   |
|-----------|-------------|------|-------------|--|--|----------------|----------------------|--|---|
| DATE      | DESCRIPTION | DATE | DESCRIPTION |  | ROAD NO.   | COUNTY         | FINANCIAL PROJECT ID |  |   |
|           |             |      |             | 520  | BREVARD  | 431139-1-52-01 |                      | MMeLo                                      | 3/7/2014 9:20:02 AM H:\J1.118\2\Cadd\43113915201\signing\PLANS\SP17.dgn |



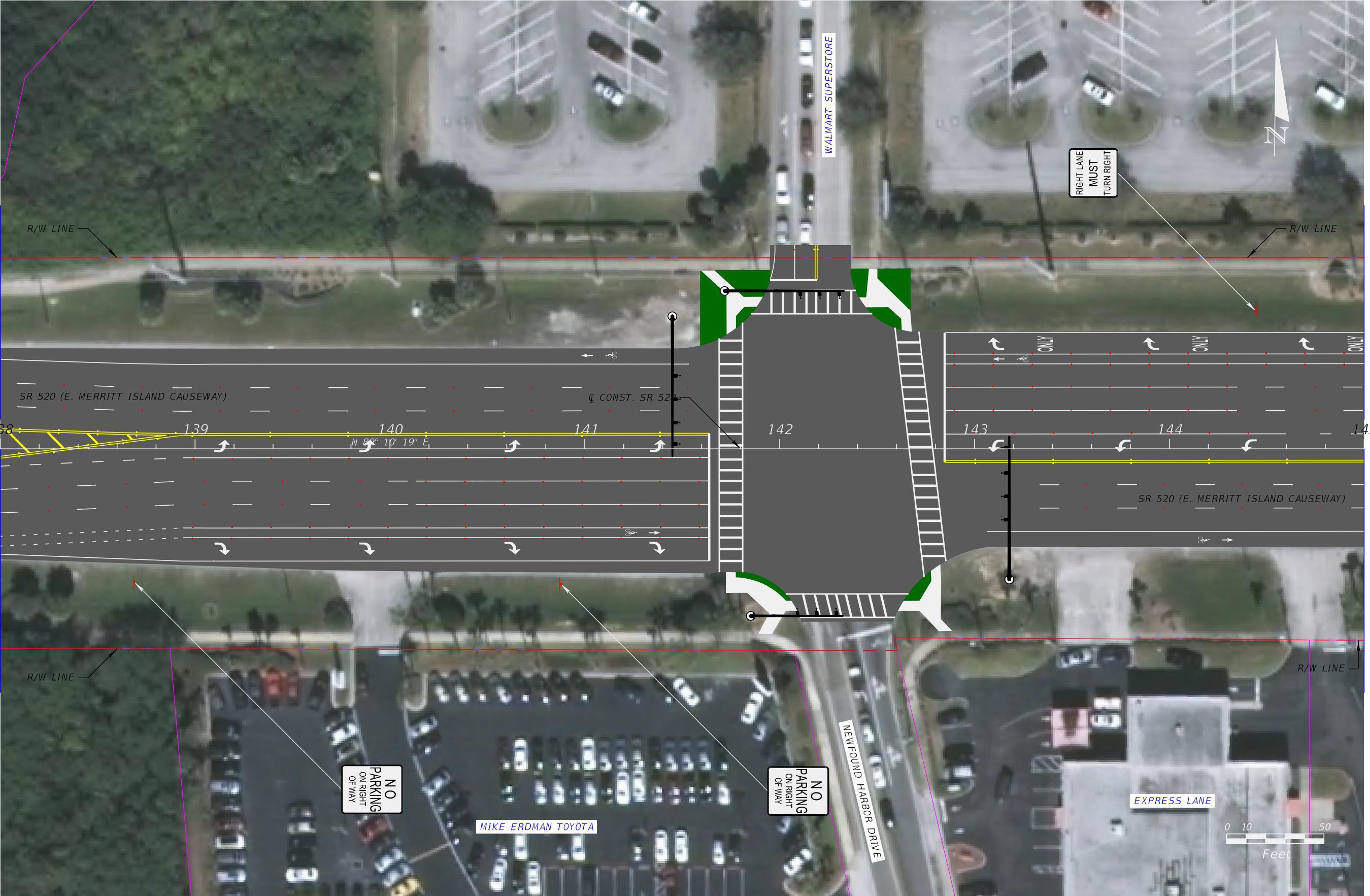
| REVISIONS |             |      |             | PROTEAN DESIGN GROUP<br>SCOTT G. HORLANDER, P.E. NO. 46624<br>100 EAST PINE STREET, SUITE 600<br>ORLANDO FLORIDA 32801<br>PHONE (407) 246-0044<br>CERTIFICATE OF AUTHORIZATION NUMBER 7865 | STATE OF FLORIDA<br>DEPARTMENT OF TRANSPORTATION |                |                      | SIGNING & MARKING<br>PLAN (18) | SHEET<br>NO.<br>S-22   |
|-----------|-------------|------|-------------|--|--|----------------|----------------------|--------------------------------|--|
| DATE      | DESCRIPTION | DATE | DESCRIPTION |  | ROAD NO.   | COUNTY         | FINANCIAL PROJECT ID |                                |  |
|           |             |      |             | 520  | BREVARD  | 431139-1-52-01 |                      | MMeLo                          | 3/7/2014 9:20:03 AM H:\J1.118\2\Cadd\43113915201\signing\PLANS P18.dgn |

## **Appendix D:**

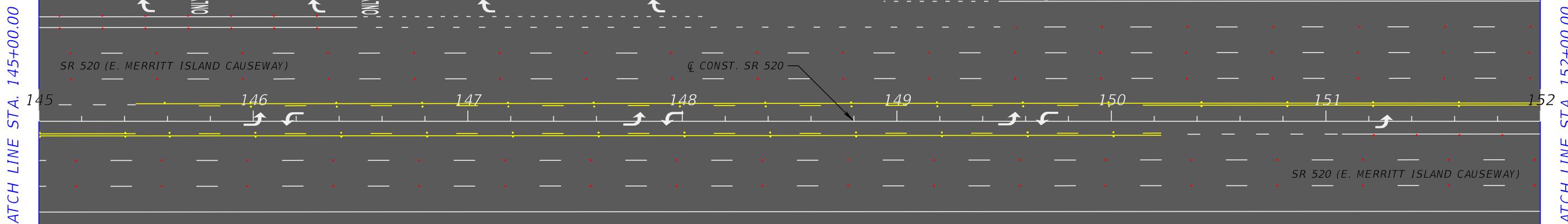
### **Existing Conditions Diagram**



| REVISIONS |             |      |             | Comprehensive Engineering Services, Inc.<br>201 S Orange Ave, Suite 1300<br>Orlando, FL 32801-3442<br>Certificate of Authorization No. 7862 | STATE OF FLORIDA<br>DEPARTMENT OF TRANSPORTATION |         |                      | CONDITION DIAGRAM | SHEET NO. |
|-----------|-------------|------|-------------|---|--|---------|----------------------|-------------------|-----------|
| DATE      | DESCRIPTION | DATE | DESCRIPTION |   | ROAD NO.   | COUNTY  | FINANCIAL PROJECT ID |                   | 1         |
|           |             |      |             |   | SR 520   | BREVARD | N/A                  |                   |           |



| REVISIONS |             |      |             | STATE OF FLORIDA<br>DEPARTMENT OF TRANSPORTATION  |         |                      | CONDITION DIAGRAM |        |        | SHEET NO. |
|-----------|-------------|------|-------------|---|---------|----------------------|-------------------|--------|--------|-----------|
| DATE      | DESCRIPTION | DATE | DESCRIPTION | ROAD NO.  | COUNTY  | FINANCIAL PROJECT ID |                   |        |        |           |
|           |             |      |             | SR 520  | BREVARD | N/A                  | SUSERS            | SDATES | STIMES | SFILES    |
|           |             |      |             | Comprehensive Engineering Services, Inc.<br>201 S Orange Ave, Suite 1300<br>Orlando, FL 32801-3442<br>Certificate of Authorization No. 7862 |         |                      |                   |        |        | 2         |



| REVISIONS |             |      |             |
|-----------|-------------|------|-------------|
| DATE      | DESCRIPTION | DATE | DESCRIPTION |
|           |             |      |             |

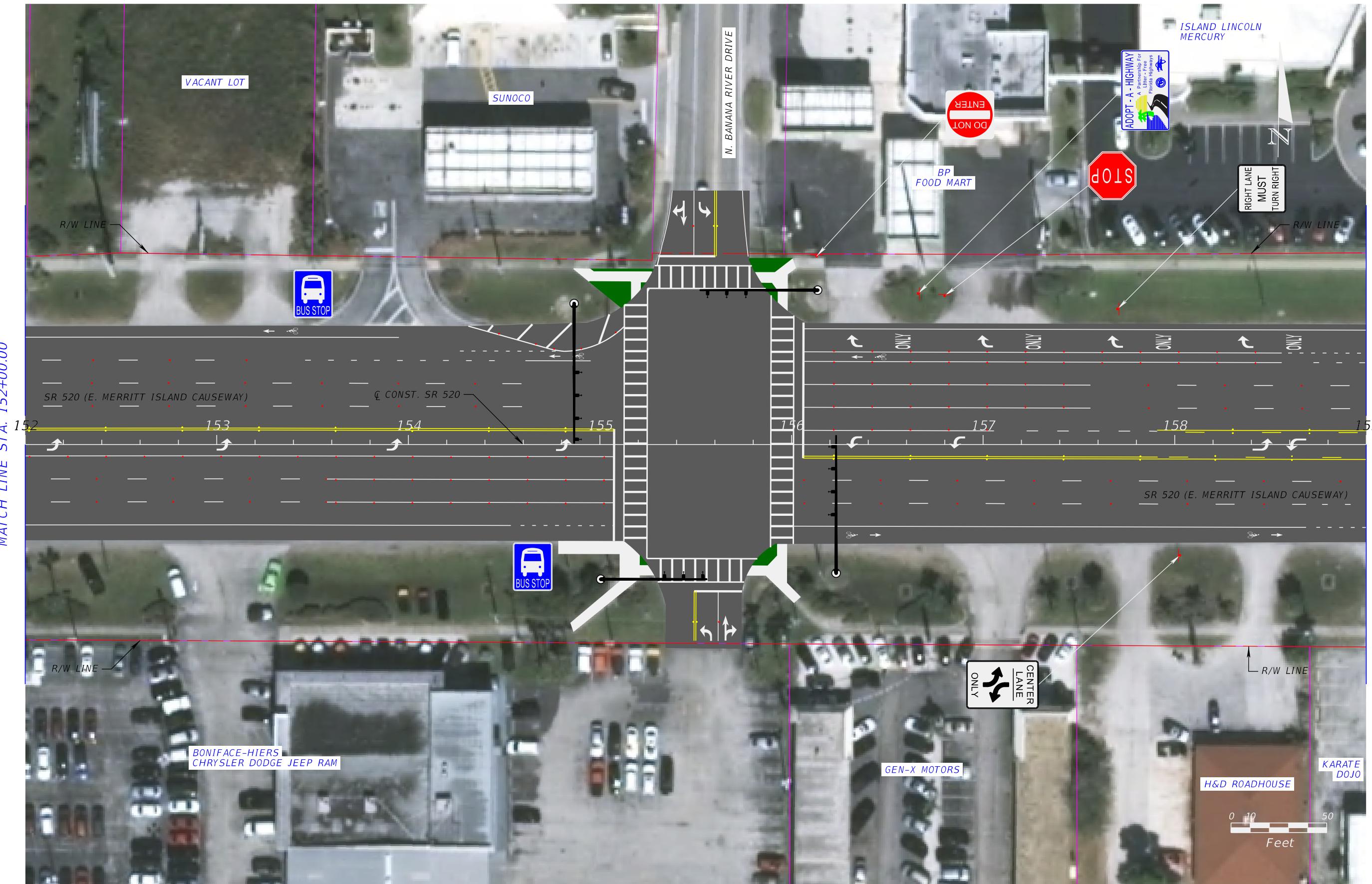
Comprehensive Engineering Services, Inc.  
201 S Orange Ave, Suite 1300  
Orlando, FL 32801-3442  
Certificate of Authorization No. 7862

STATE OF FLORIDA  
DEPARTMENT OF TRANSPORTATION

|          |         |                      |
|----------|---------|----------------------|
| ROAD NO. | COUNTY  | FINANCIAL PROJECT ID |
| SR 520   | BREVARD | N/A                  |

CONDITION DIAGRAM

SHEET NO.  
3



| REVISIONS |             |      |             |
|-----------|-------------|------|-------------|
| DATE      | DESCRIPTION | DATE | DESCRIPTION |
|           |             |      |             |

Comprehensive Engineering Services, Inc.  
201 S Orange Ave, Suite 1300  
Orlando, FL 32801-3442  
Certificate of Authorization No. 7862

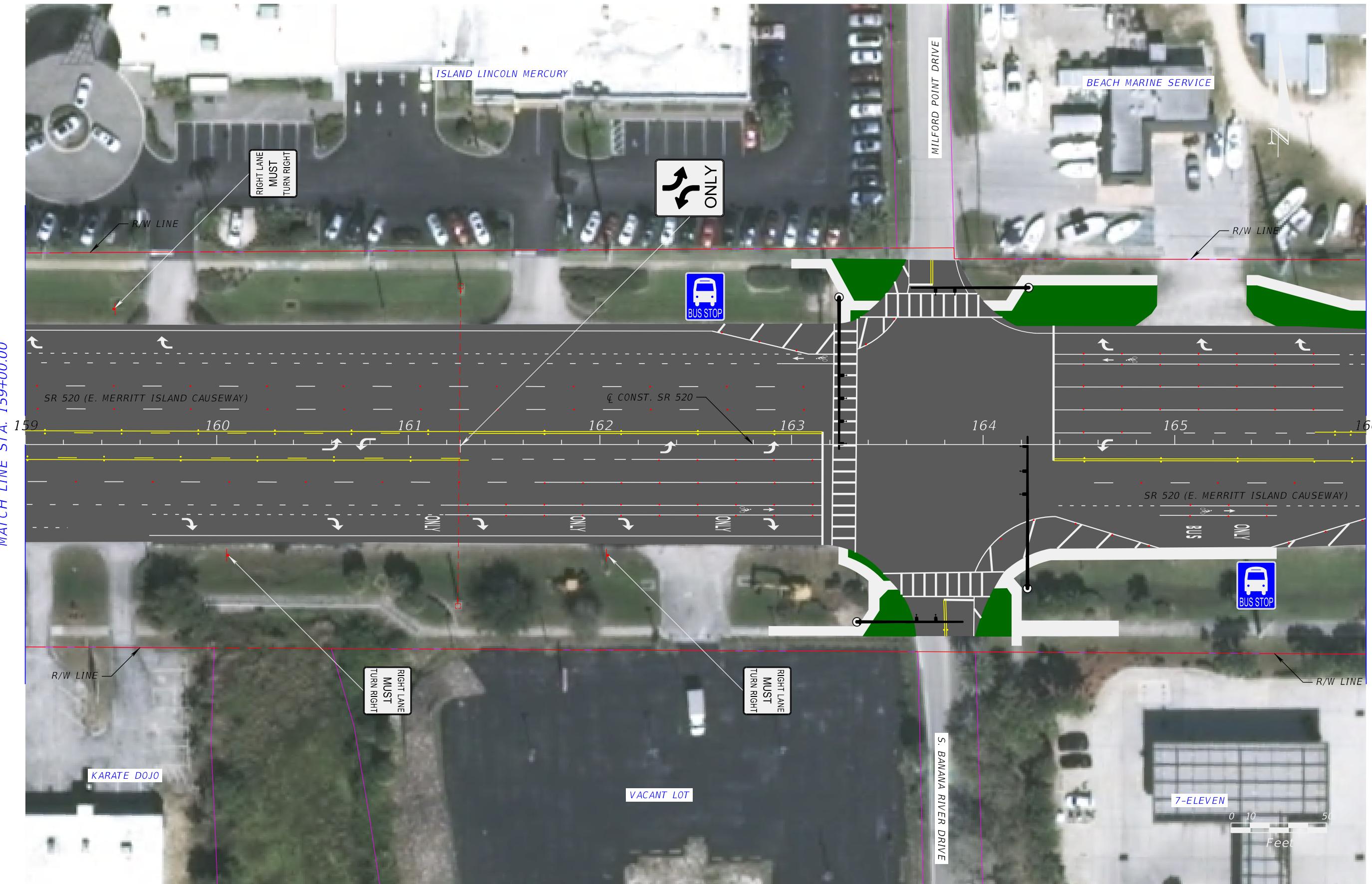
STATE OF FLORIDA  
DEPARTMENT OF TRANSPORTATION

ROAD NO. COUNTY FINANCIAL PROJECT ID

SR 520 BREVARD N/A

CONDITION DIAGRAM

SHEET NO.  
4



| REVISIONS |             |      |             |
|-----------|-------------|------|-------------|
| DATE      | DESCRIPTION | DATE | DESCRIPTION |
|           |             |      |             |

Comprehensive Engineering Services, Inc.  
201 S Orange Ave, Suite 1300  
Orlando, FL 32801-3442  
Certificate of Authorization No. 7862

STATE OF FLORIDA  
DEPARTMENT OF TRANSPORTATION

|          |         |                      |
|----------|---------|----------------------|
| ROAD NO. | COUNTY  | FINANCIAL PROJECT ID |
| SR 520   | BREVARD | N/A                  |

CONDITION DIAGRAM

SHEET NO.  
5



| REVISIONS |             |      |             | Comprehensive Engineering Services, Inc.<br>201 S Orange Ave, Suite 1300<br>Orlando, FL 32801-3442<br>Certificate of Authorization No. 7862 | STATE OF FLORIDA<br>DEPARTMENT OF TRANSPORTATION |         |                      | CONDITION DIAGRAM | SHEET NO. |
|-----------|-------------|------|-------------|---|--|---------|----------------------|-------------------|-----------|
| DATE      | DESCRIPTION | DATE | DESCRIPTION |   | ROAD NO.   | COUNTY  | FINANCIAL PROJECT ID |                   |           |
|           |             |      |             |   | SR 520   | BREVARD | N/A                  |                   |           |
|           |             |      |             |   |  |         |                      |                   | 6         |

## **Appendix E:**

## **Photographs**



**Looking East along SR 520 at the Beginning of Study Limits**



**Looking East at the Two-Way Left Turn Lane along SR 520**

**STUDY PHOTOGRAPHS:  
SR 520 from Newfound Harbor Drive to South Banana River Drive**

**PAGE  
1**



**Looking East along SR 520 at the Newfound Harbor Drive Intersection**



**Looking West along SR 520 at the Newfound Harbor Drive Intersection**

**STUDY PHOTOGRAPHS:  
SR 520 from Newfound Harbor Drive to South Banana River Drive**

**PAGE  
2**



**Looking East along SR 520 at the North Banana River Drive Intersection**



**Looking West along SR 520 at the North Banana River Drive Intersection**

**STUDY PHOTOGRAPHS:  
SR 520 from Newfound Harbor Drive to South Banana River Drive**

**PAGE  
3**



**Looking East along SR 520 at the South Banana River Drive Intersection**



**Looking West along SR 520 at the South Banana River Drive Intersection**

**STUDY PHOTOGRAPHS:  
SR 520 from Newfound Harbor Drive to South Banana River Drive**

**PAGE  
4**



**Looking South along the Sunoco Driveway at SR 520 near North Banana River Drive**



**Looking West along SR 520 at the End of Study Limits**

**STUDY PHOTOGRAPHS:**  
SR 520 from Newfound Harbor Drive to South Banana River Drive

**PAGE**  
**5**

## **Appendix F:**

### **FDOT Count Station Data**

FLORIDA DEPARTMENT OF TRANSPORTATION  
 TRANSPORTATION STATISTICS OFFICE  
 2014 HISTORICAL AADT REPORT

COUNTY: 70 - BREVARD

SITE: 1007 - ON SR-520, 0.095 MI. E OF MILFORD PT (UCLP)

| YEAR | AADT    | DIRECTION 1 | DIRECTION 2 | *K FACTOR | D FACTOR | T FACTOR |
|------|---------|-------------|-------------|-----------|----------|----------|
| 2014 | 25500 C | E 13000     | W 12500     | 9.00      | 53.80    | 2.90     |
| 2013 | 26000 C | E 13000     | W 13000     | 9.00      | 54.20    | 6.20     |
| 2012 | 22500 C | E 11000     | W 11500     | 9.00      | 53.60    | 6.20     |
| 2011 | 27000 C | E 13500     | W 13500     | 9.00      | 54.30    | 3.50     |
| 2010 | 27000 C | E 13500     | W 13500     | 10.91     | 56.02    | 3.00     |
| 2009 | 27500 C | E 14000     | W 13500     | 11.80     | 61.02    | 3.00     |
| 2008 | 31500 C | E 16000     | W 15500     | 11.37     | 57.79    | 2.80     |
| 2007 | 31500 C | E 16000     | W 15500     | 9.20      | 54.21    | 3.00     |
| 2006 | 32500 C | E 16500     | W 16000     | 11.35     | 57.22    | 3.00     |
| 2005 | 31000 C | E 15500     | W 15500     | 11.30     | 53.80    | 2.50     |
| 2004 | 35000 C | E 17500     | W 17500     | 10.10     | 56.80    | 2.50     |
| 2003 | 32500 C | E 16500     | W 16000     | 9.80      | 53.10    | 2.20     |
| 2002 | 36000 F | E 18000     | W 18000     | 9.90      | 53.90    | 3.00     |
| 2001 | 35000 C | E 17500     | W 17500     | 11.40     | 60.10    | 4.10     |
| 2000 | 32500 C | E 16500     | W 16000     | 10.20     | 52.40    | 8.90     |
| 1999 | 31500 C | E 16000     | W 15500     | 10.30     | 53.70    | 2.60     |

AADT FLAGS: C = COMPUTED; E = MANUAL ESTIMATE; F = FIRST YEAR ESTIMATE  
 S = SECOND YEAR ESTIMATE; T = THIRD YEAR ESTIMATE; V = FOURTH YEAR ESTIMATE  
 V = FIFTH YEAR ESTIMATE; 6 = SIXTH YEAR ESTIMATE; X = UNKNOWN

\*K FACTOR: STARTING WITH YEAR 2011 IS STANDARDK, PRIOR YEARS ARE K30 VALUES

COUNTY: 70  
 STATION: 1007  
 DESCRIPTION: ON SR-520, 0.095 MI. E OF MILFORD PT (UCLP)  
 START DATE: 09/10/2014  
 START TIME: 1315

| TIME | DIRECTION: E |     |     |     |       | DIRECTION: W |     |     |     |       | COMBINED |  |
|------|--------------|-----|-----|-----|-------|--------------|-----|-----|-----|-------|----------|--|
|      | 1ST          | 2ND | 3RD | 4TH | TOTAL | 1ST          | 2ND | 3RD | 4TH | TOTAL | TOTAL    |  |
| 0000 | 17           | 17  | 11  | 12  | 57    | 17           | 18  | 26  | 20  | 81    | 138      |  |
| 0100 | 9            | 12  | 9   | 8   | 38    | 12           | 11  | 11  | 12  | 46    | 84       |  |
| 0200 | 7            | 8   | 8   | 2   | 25    | 21           | 18  | 11  | 5   | 55    | 80       |  |
| 0300 | 7            | 5   | 11  | 6   | 29    | 5            | 4   | 5   | 9   | 23    | 52       |  |
| 0400 | 2            | 6   | 15  | 12  | 35    | 8            | 6   | 4   | 13  | 31    | 66       |  |
| 0500 | 12           | 19  | 36  | 50  | 117   | 18           | 13  | 17  | 31  | 79    | 196      |  |
| 0600 | 64           | 91  | 111 | 109 | 375   | 39           | 48  | 60  | 71  | 218   | 593      |  |
| 0700 | 131          | 124 | 187 | 178 | 620   | 102          | 127 | 175 | 166 | 570   | 1190     |  |
| 0800 | 202          | 186 | 200 | 182 | 770   | 169          | 162 | 172 | 198 | 701   | 1471     |  |
| 0900 | 175          | 171 | 162 | 156 | 664   | 178          | 193 | 194 | 181 | 746   | 1410     |  |
| 1000 | 161          | 185 | 157 | 172 | 675   | 202          | 189 | 214 | 199 | 804   | 1479     |  |
| 1100 | 192          | 194 | 214 | 189 | 789   | 179          | 189 | 227 | 199 | 794   | 1583     |  |
| 1200 | 185          | 218 | 209 | 214 | 826   | 203          | 192 | 235 | 198 | 828   | 1654     |  |
| 1300 | 215          | 219 | 229 | 238 | 901   | 190          | 212 | 238 | 234 | 874   | 1775     |  |
| 1400 | 221          | 220 | 261 | 196 | 898   | 196          | 233 | 245 | 273 | 947   | 1845     |  |
| 1500 | 213          | 223 | 235 | 248 | 919   | 261          | 242 | 234 | 230 | 967   | 1886     |  |
| 1600 | 216          | 236 | 244 | 212 | 908   | 231          | 220 | 217 | 235 | 903   | 1811     |  |
| 1700 | 217          | 240 | 202 | 224 | 883   | 282          | 236 | 196 | 207 | 921   | 1804     |  |
| 1800 | 184          | 194 | 172 | 126 | 676   | 159          | 189 | 168 | 136 | 652   | 1328     |  |
| 1900 | 175          | 147 | 168 | 167 | 657   | 140          | 133 | 131 | 128 | 532   | 1189     |  |
| 2000 | 130          | 118 | 123 | 96  | 467   | 110          | 100 | 86  | 81  | 377   | 844      |  |
| 2100 | 112          | 86  | 79  | 57  | 334   | 87           | 81  | 69  | 55  | 292   | 626      |  |
| 2200 | 59           | 58  | 44  | 50  | 211   | 53           | 68  | 55  | 38  | 214   | 425      |  |
| 2300 | 22           | 30  | 20  | 23  | 95    | 46           | 30  | 28  | 24  | 128   | 223      |  |

24-HOUR TOTALS: 11969 11783 23752

| PEAK VOLUME INFORMATION |        |      |        |              |        |  |  |                     |        |  |  |  |
|-------------------------|--------|------|--------|--------------|--------|--|--|---------------------|--------|--|--|--|
| DIRECTION: E            |        |      |        | DIRECTION: W |        |  |  | COMBINED DIRECTIONS |        |  |  |  |
| HOUR                    | VOLUME | HOUR | VOLUME | HOUR         | VOLUME |  |  | HOUR                | VOLUME |  |  |  |
| A.M.                    |        |      |        |              |        |  |  |                     |        |  |  |  |
| 800                     | 770    | 845  | 763    | 800          | 1471   |  |  |                     |        |  |  |  |
| P.M.                    |        |      |        |              |        |  |  |                     |        |  |  |  |
| 1545                    | 944    | 1430 | 1021   | 1430         | 1914   |  |  |                     |        |  |  |  |
| DAILY                   | 1545   | 944  | 1430   | 1021         | 1430   |  |  | 1430                | 1914   |  |  |  |

TRUCK PERCENTAGE 2.94 2.91 2.93

#### CLASSIFICATION SUMMARY DATABASE

| DIR | 1  | 2    | 3    | 4  | 5   | 6  | 7 | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | TOTTRK | TOTVOL |
|-----|----|------|------|----|-----|----|---|----|----|----|----|----|----|----|----|--------|--------|
| E   | 26 | 9582 | 2009 | 52 | 257 | 13 | 0 | 21 | 9  | 0  | 0  | 0  | 0  | 0  | 0  | 352    | 11969  |
| W   | 23 | 9465 | 1952 | 62 | 222 | 22 | 0 | 25 | 12 | 0  | 0  | 0  | 0  | 0  | 0  | 343    | 11783  |

FLORIDA DEPARTMENT OF TRANSPORTATION  
TRANSPORTATION STATISTICS OFFICE  
2014 VEHICLE CLASS HISTORY DATA

COUNTY: 70 -- BREVARD

SITE: 1007 DESCRIPTION: ON SR-520, 0.095 MI. E OF MILFORD PT (UCLP)

| YEAR | AADT  | PASSENGER VEHICLES |        | TOTAL TRUCKS |        | SINGLE UNIT TRUCKS |        | COMBINATION TRAILER TRUCKS |        | MULTI TRAILER TRUCKS |        |
|------|-------|--------------------|--------|--------------|--------|--------------------|--------|----------------------------|--------|----------------------|--------|
|      |       | %                  | VOLUME | %            | VOLUME | %                  | VOLUME | %                          | VOLUME | %                    | VOLUME |
| 2014 | 25500 | 97.07              | 24,753 | 2.93         | 747    | 2.65               | 676    | 0.28                       | 71     | 0.00                 | 0      |
| 2013 | 26000 | 100.00             | 26,000 | 0.00         | 0      | 0.00               | 0      | 0.00                       | 0      | 0.00                 | 0      |
| 2012 | 22500 | 93.84              | 21,114 | 6.16         | 1,386  | 4.77               | 1,073  | 1.36                       | 306    | 0.03                 | 7      |
| 2011 | 27000 | 96.50              | 26,055 | 3.50         | 945    | 2.98               | 805    | 0.52                       | 140    | 0.00                 | 0      |
| 2010 | 27000 | 96.96              | 26,179 | 3.04         | 821    | 2.55               | 689    | 0.49                       | 132    | 0.00                 | 0      |
| 2009 | 27500 | 97.00              | 26,675 | 3.00         | 825    | 2.69               | 740    | 0.31                       | 85     | 0.00                 | 0      |
| 2008 | 31500 | 97.17              | 30,609 | 2.83         | 891    | 2.29               | 721    | 0.54                       | 170    | 0.00                 | 0      |
| 2007 | 31500 | 96.98              | 30,549 | 3.02         | 951    | 2.51               | 791    | 0.51                       | 161    | 0.00                 | 0      |
| 2006 | 32500 | 96.97              | 31,515 | 3.03         | 985    | 2.58               | 839    | 0.45                       | 146    | 0.00                 | 0      |
| 2005 | 31000 | 96.80              | 30,008 | 3.20         | 992    | 2.67               | 828    | 0.53                       | 164    | 0.00                 | 0      |
| 2004 | 35000 | 97.50              | 34,125 | 2.50         | 875    | 2.05               | 718    | 0.45                       | 158    | 0.00                 | 0      |
| 2003 | 32500 | 97.70              | 31,753 | 2.30         | 748    | 1.80               | 585    | 0.50                       | 163    | 0.00                 | 0      |
| 2002 | 36000 | 0.00               | 0      | 0.00         | 0      | 0.00               | 0      | 0.00                       | 0      | 0.00                 | 0      |
| 2001 | 35000 | 95.71              | 33,498 | 4.29         | 1,502  | 3.79               | 1,327  | 0.50                       | 175    | 0.00                 | 0      |
| 2000 | 32500 | 91.02              | 29,581 | 8.98         | 2,919  | 7.88               | 2,562  | 1.10                       | 357    | 0.00                 | 0      |
| 1999 | 31500 | 97.40              | 30,681 | 2.60         | 819    | 2.20               | 693    | 0.40                       | 126    | 0.00                 | 0      |

NOTE: 1 - PASSENGER VEHICLES = VEHICLE CLASS 1-3, 14, 15  
 2 - TOTAL TRUCKS = VEHICLE CLASS 4-13  
 3 - SINGLE UNIT TRUCKS = VEHICLE CLASS 4-7  
 4 - COMBINATION TRAILER TRUCKS = VEHICLE CLASS 8-10  
 5 - MULTI TRAILER TRUCKS = VEHICLE CLASS 11-13

2014 PEAK SEASON FACTOR CATEGORY REPORT - REPORT TYPE: ALL  
 CATEGORY: 7000 BREVARD COUNTYWIDE

MOCF: 0.93  
 PSCF

| WEEK  | DATES                   | SF   |      |
|-------|-------------------------|------|------|
| ===== |                         |      |      |
| 1     | 01/01/2014 - 01/04/2014 | 1.01 | 1.09 |
| 2     | 01/05/2014 - 01/11/2014 | 1.02 | 1.10 |
| 3     | 01/12/2014 - 01/18/2014 | 1.03 | 1.11 |
| 4     | 01/19/2014 - 01/25/2014 | 1.01 | 1.09 |
| 5     | 01/26/2014 - 02/01/2014 | 0.99 | 1.06 |
| * 6   | 02/02/2014 - 02/08/2014 | 0.97 | 1.04 |
| * 7   | 02/09/2014 - 02/15/2014 | 0.95 | 1.02 |
| * 8   | 02/16/2014 - 02/22/2014 | 0.93 | 1.00 |
| * 9   | 02/23/2014 - 03/01/2014 | 0.92 | 0.99 |
| *10   | 03/02/2014 - 03/08/2014 | 0.91 | 0.98 |
| *11   | 03/09/2014 - 03/15/2014 | 0.90 | 0.97 |
| *12   | 03/16/2014 - 03/22/2014 | 0.90 | 0.97 |
| *13   | 03/23/2014 - 03/29/2014 | 0.91 | 0.98 |
| *14   | 03/30/2014 - 04/05/2014 | 0.92 | 0.99 |
| *15   | 04/06/2014 - 04/12/2014 | 0.93 | 1.00 |
| *16   | 04/13/2014 - 04/19/2014 | 0.95 | 1.02 |
| *17   | 04/20/2014 - 04/26/2014 | 0.96 | 1.03 |
| *18   | 04/27/2014 - 05/03/2014 | 0.97 | 1.04 |
| 19    | 05/04/2014 - 05/10/2014 | 0.98 | 1.05 |
| 20    | 05/11/2014 - 05/17/2014 | 0.99 | 1.06 |
| 21    | 05/18/2014 - 05/24/2014 | 1.01 | 1.09 |
| 22    | 05/25/2014 - 05/31/2014 | 1.02 | 1.10 |
| 23    | 06/01/2014 - 06/07/2014 | 1.03 | 1.11 |
| 24    | 06/08/2014 - 06/14/2014 | 1.04 | 1.12 |
| 25    | 06/15/2014 - 06/21/2014 | 1.05 | 1.13 |
| 26    | 06/22/2014 - 06/28/2014 | 1.05 | 1.13 |
| 27    | 06/29/2014 - 07/05/2014 | 1.04 | 1.12 |
| 28    | 07/06/2014 - 07/12/2014 | 1.04 | 1.12 |
| 29    | 07/13/2014 - 07/19/2014 | 1.04 | 1.12 |
| 30    | 07/20/2014 - 07/26/2014 | 1.04 | 1.12 |
| 31    | 07/27/2014 - 08/02/2014 | 1.04 | 1.12 |
| 32    | 08/03/2014 - 08/09/2014 | 1.04 | 1.12 |
| 33    | 08/10/2014 - 08/16/2014 | 1.04 | 1.12 |
| 34    | 08/17/2014 - 08/23/2014 | 1.04 | 1.12 |
| 35    | 08/24/2014 - 08/30/2014 | 1.05 | 1.13 |
| 36    | 08/31/2014 - 09/06/2014 | 1.07 | 1.15 |
| 37    | 09/07/2014 - 09/13/2014 | 1.08 | 1.16 |
| 38    | 09/14/2014 - 09/20/2014 | 1.09 | 1.17 |
| 39    | 09/21/2014 - 09/27/2014 | 1.08 | 1.16 |
| 40    | 09/28/2014 - 10/04/2014 | 1.06 | 1.14 |
| 41    | 10/05/2014 - 10/11/2014 | 1.04 | 1.12 |
| 42    | 10/12/2014 - 10/18/2014 | 1.02 | 1.10 |
| 43    | 10/19/2014 - 10/25/2014 | 1.02 | 1.10 |
| 44    | 10/26/2014 - 11/01/2014 | 1.03 | 1.11 |
| 45    | 11/02/2014 - 11/08/2014 | 1.03 | 1.11 |
| 46    | 11/09/2014 - 11/15/2014 | 1.03 | 1.11 |
| 47    | 11/16/2014 - 11/22/2014 | 1.04 | 1.12 |
| 48    | 11/23/2014 - 11/29/2014 | 1.03 | 1.11 |
| 49    | 11/30/2014 - 12/06/2014 | 1.02 | 1.10 |
| 50    | 12/07/2014 - 12/13/2014 | 1.01 | 1.09 |
| 51    | 12/14/2014 - 12/20/2014 | 1.01 | 1.09 |
| 52    | 12/21/2014 - 12/27/2014 | 1.02 | 1.10 |
| 53    | 12/28/2014 - 12/31/2014 | 1.03 | 1.11 |

\* PEAK SEASON

09-MAR-2015 16:07:54

830UPD

5\_7000\_PKSEASON.TXT

## **Appendix G:**

### Traffic Data Collected

**State Road 520 Corridor Driveway Study**

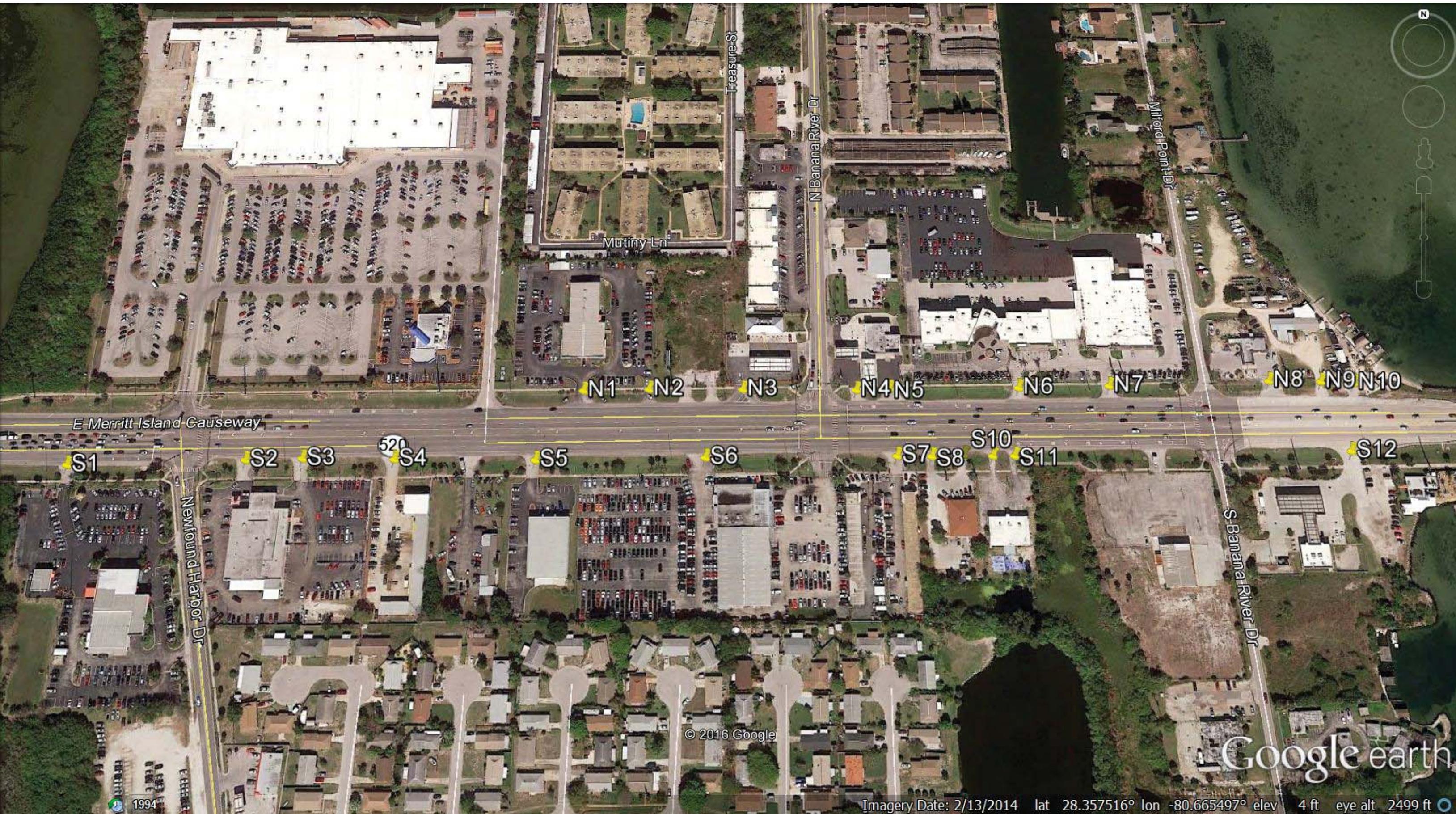
**State Road 520 Corridor Driveway Study**

| Right In | Left In | Right Out | Left Out | Time              | Station | Right In | Left In | Right Out         | Left Out | Time              | Station |
|----------|---------|-----------|----------|-------------------|---------|----------|---------|-------------------|----------|-------------------|---------|
| 3        | 2       | 3         | 2        | 9-10am<br>10-11am | N1      | 5        | 0       | 2                 | 0        | 9-10am<br>10-11am | S1      |
| 5        | 4       | 4         | 1        |                   |         | 6        | 0       | 2                 | 0        |                   |         |
| Right In | Left In | Right Out | Left Out | 9-10am<br>10-11am | N2      | 0        | 0       | 0                 | 0        | 9-10am<br>10-11am | S2      |
| 0        | 0       | 0         | 0        |                   |         | 0        | 0       | 0                 | 0        |                   |         |
| Right In | Left In | Right Out | Left Out | 9-10am<br>10-11am | N3      | 4        | 2       | 4                 | 0        | 9-10am<br>10-11am | S3      |
| 9        | 4       | 21        | 0        |                   |         | 6        | 1       | 7                 | 0        |                   |         |
| 7        | 10      | 17        | 0        | 9-10am<br>10-11am | N4      | 7        | 7       | 3                 | 1        | 9-10am<br>10-11am | S4      |
| 1        | 0       | 0         | 0        |                   |         | 9        | 4       | 6                 | 3        |                   |         |
| Right In | Left In | Right Out | Left Out | 9-10am<br>10-11am | N5      | 7        | 4       | 3                 | 2        | 9-10am<br>10-11am | S5      |
| 12       | 0       | 7         | 3        |                   |         | 9        | 3       | 6                 | 3        |                   |         |
| Right In | Left In | Right Out | Left Out | 9-10am<br>10-11am | N6      | 8        | 2       | 3                 | 1        | 9-10am<br>10-11am | S6      |
| 2        | 16      | 4         | 1        |                   |         | 10       | 3       | 4                 | 2        |                   |         |
| 1        | 11      | 7         | 1        | 9-10am<br>10-11am | N7      | 11       | 0       | 3                 | 1        | 9-10am<br>10-11am | S7      |
| 18       | 6       | 4         | 1        |                   |         | 13       | 0       | 6                 | 2        |                   |         |
| Right In | Left In | Right Out | Left Out | 9-10am<br>10-11am | N8      | 3        | 1       | 1                 | 0        | 9-10am<br>10-11am | S8      |
| 2        | 0       | 2         | 0        |                   |         | 6        | 2       | 1                 | 2        |                   |         |
| Right In | Left In | Right Out | Left Out | 9-10am<br>10-11am | N9      | 5        | 1       | 2                 | 0        | 9-10am<br>10-11am | S9      |
| 3        | 2       | 1         | 1        |                   |         | 7        | 1       | 5                 | 1        |                   |         |
| Right In | Left In | Right Out | Left Out | 9-10am<br>10-11am | N10     | 1        | 2       | 0                 | 2        | 9-10am<br>10-11am | S10     |
| 1        | 1       | 0         | 1        |                   |         | 4        | 3       | 1                 | 1        |                   |         |
| Right In | Left In | Right Out | Left Out | 9-10am<br>10-11am | N11     | 0        | 0       | 1                 | 2        | 9-10am<br>10-11am | S11     |
| 11       | 9       | 27        | 3        |                   |         | 8        | 12      | 37                | 2        |                   |         |
| Right In | Left In | Right Out | Left Out | 9-10am<br>10-11am | N12     | 27       | 3       | 9-10am<br>10-11am | S12      |                   |         |

**State Road 520 Corridor Driveway Study**

**State Road 520 Corridor Driveway Study**

| Right In | Left In | Right Out | Left Out | Time           | Station | Right In | Left In | Right Out | Left Out | Time           | Station |
|----------|---------|-----------|----------|----------------|---------|----------|---------|-----------|----------|----------------|---------|
| 3        | 2       | 2         | 1        | 3-4pm<br>4-5pm | N1      | 4        | 0       | 2         | 0        | 3-4pm<br>4-5pm | S1      |
| 0        | 4       | 2         | 1        |                |         | 7        | 0       | 1         | 0        |                |         |
| Right In | Left In | Right Out | Left Out | 3-4pm<br>4-5pm | N2      | 0        | 0       | 0         | 0        | 3-4pm<br>4-5pm | S2      |
| 0        | 0       | 0         | 0        |                |         | 0        | 0       | 0         | 0        |                |         |
| Right In | Left In | Right Out | Left Out | 3-4pm<br>4-5pm | N3      | 0        | 1       | 8         | 1        | 3-4pm<br>4-5pm | S3      |
| 7        | 5       | 21        | 1        |                |         | 1        | 3       | 13        | 1        |                |         |
| 9        | 9       | 14        | 0        | 3-4pm<br>4-5pm | N4      | 2        | 2       | 7         | 4        | 3-4pm<br>4-5pm | S4      |
| 2        | 0       | 1         | 0        |                |         | 4        | 1       | 5         | 3        |                |         |
| Right In | Left In | Right Out | Left Out | 3-4pm<br>4-5pm | N5      | 6        | 6       | 4         | 4        | 3-4pm<br>4-5pm | S5      |
| 12       | 1       | 2         | 0        |                |         | 7        | 2       | 4         | 8        |                |         |
| Right In | Left In | Right Out | Left Out | 3-4pm<br>4-5pm | N6      | 3        | 4       | 3         | 1        | 3-4pm<br>4-5pm | S6      |
| 0        | 5       | 10        | 8        |                |         | 6        | 2       | 7         | 5        |                |         |
| 2        | 0       | 15        | 2        | 3-4pm<br>4-5pm | N7      | 3        | 3       | 3         | 3        | 3-4pm<br>4-5pm | S7      |
| Right In | Left In | Right Out | Left Out |                |         | 2        | 4       | 4         | 2        |                |         |
| 1        | 0       | 3         | 0        | 3-4pm<br>4-5pm | N8      | 3        | 3       | 0         | 2        | 3-4pm<br>4-5pm | S8      |
| 0        | 0       | 1         | 0        |                |         | 2        | 1       | 0         | 2        |                |         |
| Right In | Left In | Right Out | Left Out | 3-4pm<br>4-5pm | N9      | 3        | 3       | 2         | 0        | 3-4pm<br>4-5pm | S9      |
| 0        | 0       | 1         | 0        |                |         | 1        | 0       | 1         | 6        |                |         |
| Right In | Left In | Right Out | Left Out | 3-4pm<br>4-5pm | N10     | 5        | 1       | 0         | 0        | 3-4pm<br>4-5pm | S10     |
| 0        | 1       | 4         | 0        |                |         | 14       | 3       | 0         | 0        |                |         |
| Right In | Left In | Right Out | Left Out | 3-4pm<br>4-5pm | N11     | 0        | 0       | 0         | 0        | 3-4pm<br>4-5pm | S11     |
| 0        | 0       | 1         | 0        |                |         | 0        | 0       | 1         | 1        |                |         |
| Right In | Left In | Right Out | Left Out | 3-4pm<br>4-5pm | N12     | 11       | 10      | 27        | 3        | 3-4pm<br>4-5pm | S12     |
| 8        | 11      | 23        | 0        |                |         | 8        | 11      | 23        | 0        |                |         |



© 2016 Google

Imagery Date: 2/13/2014 lat 28.357516° lon -80.665497° elev 4 ft eye alt 2499 ft

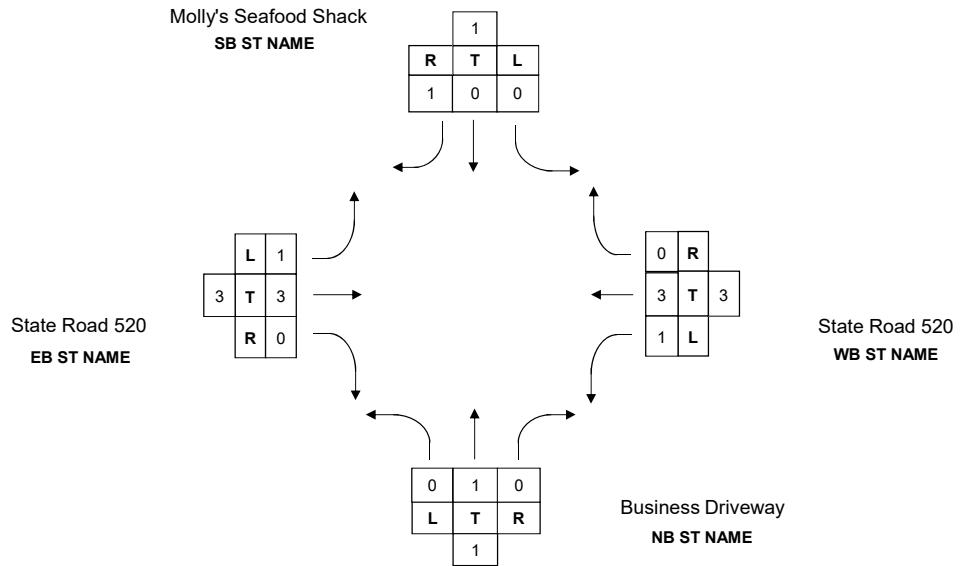
Google earth

1994

## FLORIDA DEPARTMENT OF TRANSPORTATION

## SUMMARY OF VEHICLE MOVEMENTS

|             |                       |                    |                       |          |         |
|-------------|-----------------------|--------------------|-----------------------|----------|---------|
| SECTION     | 70100                 | CITY               | Merritt Island        | COUNTY   | Brevard |
| STATE ROUTE | State Road 520        | INTERSECTING ROUTE | Molly's Seafood Shack |          |         |
| OBSERVER    | TEDS                  | DATE               | 1/21/2016             | MILEPOST | 12.724  |
| WEATHER     | Sunny                 | ROAD CONDITION     | Good                  |          |         |
| REMARKS     |                       |                    |                       |          |         |
|             | FORM COMPLETED BY PHF |                    | DATE 02/04/16         |          |         |



| TIME      | NORTHBOUND |   |   |   |     | SOUTHBOUND |   |     |   |     | TOTAL | EASTBOUND |      |    |   |      | WESTBOUND |      |     |   |      | TOTAL |     |
|-----------|------------|---|---|---|-----|------------|---|-----|---|-----|-------|-----------|------|----|---|------|-----------|------|-----|---|------|-------|-----|
|           | L          | T | R | U | TOT | L          | T | R   | U | TOT |       | L         | T    | R  | U | TOT  | L         | T    | R   | U | TOT  |       |     |
| BEGIN-END |            |   |   |   |     |            |   |     |   |     |       |           |      |    |   |      |           |      |     |   |      |       | E/W |
| 7 - 8     | 0          | 0 | 0 | 0 | 0   | 5          | 0 | 2   | 0 | 7   | 7     | 9         | 618  | 2  | 0 | 629  | 0         | 643  | 23  | 0 | 666  | 1295  |     |
| 8 - 9     | 0          | 0 | 0 | 0 | 0   | 4          | 0 | 3   | 0 | 7   | 7     | 13        | 809  | 0  | 1 | 823  | 0         | 812  | 61  | 0 | 873  | 1696  |     |
| 12 - 1    | 0          | 0 | 1 | 0 | 1   | 11         | 0 | 30  | 0 | 41  | 42    | 30        | 1098 | 5  | 0 | 1133 | 3         | 1121 | 111 | 0 | 1235 | 2368  |     |
| 1 - 2     | 2          | 0 | 3 | 0 | 5   | 3          | 0 | 44  | 0 | 47  | 52    | 30        | 1148 | 2  | 0 | 1180 | 1         | 1197 | 91  | 0 | 1289 | 2469  |     |
| 2 - 3     | 1          | 0 | 1 | 0 | 2   | 10         | 0 | 39  | 0 | 49  | 51    | 17        | 1179 | 0  | 2 | 1198 | 0         | 1142 | 91  | 0 | 1233 | 2431  |     |
| 3 - 4     | 0          | 0 | 0 | 0 | 0   | 16         | 0 | 27  | 0 | 43  | 43    | 31        | 1213 | 1  | 0 | 1245 | 0         | 1163 | 106 | 0 | 1269 | 2514  |     |
| 4 - 5     | 1          | 0 | 0 | 0 | 1   | 11         | 0 | 39  | 0 | 50  | 51    | 22        | 1165 | 1  | 0 | 1188 | 1         | 1074 | 106 | 0 | 1181 | 2369  |     |
| 5 - 6     | 2          | 0 | 1 | 0 | 3   | 8          | 0 | 36  | 0 | 44  | 47    | 16        | 1099 | 0  | 2 | 1117 | 0         | 1046 | 108 | 0 | 1154 | 2271  |     |
| TOTAL     | 6          | 0 | 6 | 0 | 12  | 68         | 0 | 220 | 0 | 288 | 300   | 168       | 8329 | 11 | 5 | 8513 | 5         | 8198 | 697 | 0 | 8900 | 17413 |     |

## FLORIDA DEPARTMENT OF TRANSPORTATION

## PEDESTRIAN MOVEMENT SUMMARY

SECTION 70100  
 STATE ROUTE State Road 520  
 OBSERVER TEDS

CITY Merritt Island  
 INTERSECTING ROUTE Molly's Seafood Shack  
 DATE 1/21/2016

COUNTY Brevard

REMARKS \_\_\_\_\_

FORM COMPLETED BY PHF

DATE 02/04/16

Molly's Seafood Shack

SB ST NAME

| 7 - 8 | 8 - 9 | 12 - 1 | 1 - 2 | 2 - 3 | 3 - 4 | 4 - 5 | 5 - 6 | Total |
|-------|-------|--------|-------|-------|-------|-------|-------|-------|
| 0     | 0     | 0      | 0     | 0     | 0     | 0     | 0     | 0     |
| 1     | 0     | 0      | 0     | 0     | 0     | 0     | 0     | 1     |
| 1     | 0     | 0      | 0     | 0     | 0     | 0     | 0     | 1     |

| 7 - 8  | 0 | 0 | 0 |
|--------|---|---|---|
| 8 - 9  | 0 | 0 | 0 |
| 12 - 1 | 0 | 0 | 0 |
| 1 - 2  | 0 | 0 | 0 |
| 2 - 3  | 0 | 0 | 0 |
| 3 - 4  | 0 | 1 | 1 |
| 4 - 5  | 0 | 0 | 0 |
| 5 - 6  | 0 | 1 | 1 |
| Total  | 0 | 2 | 2 |

State Road 520  
EB ST NAME

| 7 - 8  | 0 | 0 | 0 |
|--------|---|---|---|
| 8 - 9  | 0 | 0 | 0 |
| 12 - 1 | 0 | 0 | 0 |
| 1 - 2  | 0 | 0 | 0 |
| 2 - 3  | 0 | 0 | 0 |
| 3 - 4  | 0 | 0 | 0 |
| 4 - 5  | 0 | 0 | 0 |
| 5 - 6  | 0 | 0 | 0 |
| Total  | 0 | 0 | 0 |

State Road 520  
WB ST NAME

| 7 - 8 | 8 - 9 | 12 - 1 | 1 - 2 | 2 - 3 | 3 - 4 | 4 - 5 | 5 - 6 | Total |
|-------|-------|--------|-------|-------|-------|-------|-------|-------|
| 1     | 1     | 0      | 0     | 0     | 1     | 0     | 0     | 3     |
| 0     | 0     | 1      | 0     | 0     | 0     | 0     | 0     | 1     |
| 1     | 1     | 1      | 0     | 0     | 1     | 0     | 0     | 4     |

Business Driveway  
NB ST NAME

## FLORIDA DEPARTMENT OF TRANSPORTATION

## BICYCLE MOVEMENT SUMMARY

**SECTION** 70100  
**STATE ROUTE** State Road 520  
**OBSERVER** TEDS

**CITY** Merritt Island  
**INTERSECTING ROUTE** Molly's Seafood Shack  
**DATE** 1/21/2016

**COUNTY** Brevard

**REMARKS**

---

FORM COMPLETED BY PHF

DATE 02/04/16

Molly's Seafood Shack

**SB ST NAME**

| 7 - 8 | 8 - 9 | 12 - 1 | 1 - 2 | 2 - 3 | 3 - 4 | 4 - 5 | 5 - 6 | Total |
|-------|-------|--------|-------|-------|-------|-------|-------|-------|
| 0     | 0     | 0      | 0     | 0     | 0     | 0     | 0     | 0     |
| 0     | 0     | 0      | 0     | 0     | 0     | 0     | 0     | 0     |
| 0     | 0     | 0      | 0     | 0     | 0     | 0     | 0     | 0     |

| 7 - 8  | 0 | 0 | 0 |
|--------|---|---|---|
| 8 - 9  | 0 | 0 | 0 |
| 12 - 1 | 0 | 0 | 0 |
| 1 - 2  | 0 | 0 | 0 |
| 2 - 3  | 0 | 0 | 0 |
| 3 - 4  | 0 | 0 | 0 |
| 4 - 5  | 0 | 0 | 0 |
| 5 - 6  | 0 | 0 | 0 |
| Total  | 0 | 0 | 0 |

State Road 520  
**EB ST NAME**

| 7 - 8  | 0 | 0 | 0 |
|--------|---|---|---|
| 8 - 9  | 0 | 0 | 0 |
| 12 - 1 | 0 | 0 | 0 |
| 1 - 2  | 0 | 0 | 0 |
| 2 - 3  | 0 | 0 | 0 |
| 3 - 4  | 0 | 0 | 0 |
| 4 - 5  | 0 | 0 | 0 |
| 5 - 6  | 0 | 0 | 0 |
| Total  | 0 | 0 | 0 |

State Road 520  
**WB ST NAME**

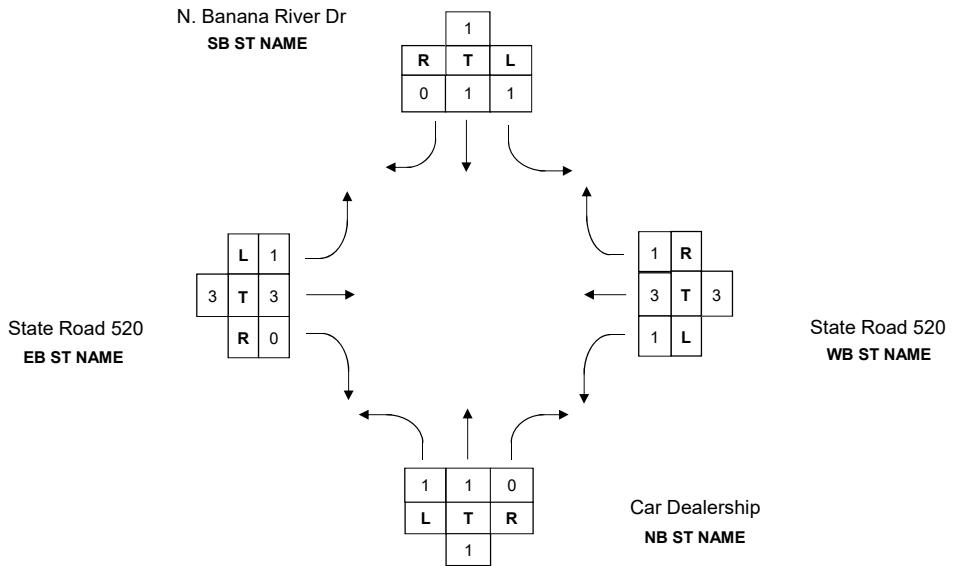
| 7 - 8 | 8 - 9 | 12 - 1 | 1 - 2 | 2 - 3 | 3 - 4 | 4 - 5 | 5 - 6 | Total |
|-------|-------|--------|-------|-------|-------|-------|-------|-------|
| 0     | 2     | 1      | 2     | 2     | 2     | 0     | 1     | 10    |
| 0     | 2     | 4      | 1     | 0     | 1     | 2     | 1     | 11    |
| 0     | 4     | 5      | 3     | 2     | 3     | 2     | 2     | 21    |

Business Driveway  
**NB ST NAME**

## FLORIDA DEPARTMENT OF TRANSPORTATION

## SUMMARY OF VEHICLE MOVEMENTS

|             |                |                                       |                       |          |          |  |
|-------------|----------------|---------------------------------------|-----------------------|----------|----------|--|
| SECTION     | 70100          | CITY                                  | Merritt Island        | COUNTY   | Brevard  |  |
| STATE ROUTE | State Road 520 | INTERSECTING ROUTE N. Banana River Dr |                       |          |          |  |
| OBSERVER    | TEDS           | DATE                                  | 1/26/2016             | MILEPOST | 12.857   |  |
| WEATHER     | Sunny          | ROAD CONDITION                        | Good                  |          |          |  |
| REMARKS     |                |                                       |                       |          |          |  |
|             |                |                                       | FORM COMPLETED BY PHF | DATE     | 02/04/16 |  |



| TIME         | NORTHBOUND |           |           |          |            | SOUTHBOUND |           |             |          |             | TOTAL       | EASTBOUND   |             |           |          |             | WESTBOUND |             |            |          |             | TOTAL        |
|--------------|------------|-----------|-----------|----------|------------|------------|-----------|-------------|----------|-------------|-------------|-------------|-------------|-----------|----------|-------------|-----------|-------------|------------|----------|-------------|--------------|
|              | L          | T         | R         | U        | TOT        | L          | T         | R           | U        | TOT         |             | L           | T           | R         | U        | TOT         | L         | T           | R          | U        | TOT         | E/W          |
| 7 - 8        | 3          | 0         | 1         | 0        | 4          | 96         | 3         | 101         | 0        | 200         | 204         | 70          | 569         | 8         | 0        | 647         | 3         | 577         | 83         | 0        | 663         | 1310         |
| 8 - 9        | 8          | 3         | 2         | 0        | 13         | 115        | 10        | 149         | 0        | 274         | 287         | 107         | 689         | 22        | 0        | 818         | 3         | 731         | 66         | 0        | 800         | 1618         |
| 12 - 1       | 15         | 2         | 4         | 0        | 21         | 98         | 4         | 164         | 0        | 266         | 287         | 134         | 956         | 15        | 1        | 1106        | 3         | 1036        | 108        | 0        | 1147        | 2253         |
| 1 - 2        | 18         | 0         | 8         | 0        | 26         | 100        | 3         | 182         | 0        | 285         | 311         | 170         | 1019        | 17        | 0        | 1206        | 9         | 1064        | 117        | 1        | 1191        | 2397         |
| 2 - 3        | 7          | 2         | 7         | 0        | 16         | 85         | 2         | 161         | 0        | 248         | 264         | 153         | 1048        | 9         | 1        | 1211        | 7         | 1024        | 96         | 0        | 1127        | 2338         |
| 3 - 4        | 12         | 6         | 6         | 0        | 24         | 103        | 2         | 184         | 0        | 289         | 313         | 169         | 1065        | 8         | 2        | 1244        | 7         | 1005        | 119        | 1        | 1132        | 2376         |
| 4 - 5        | 11         | 3         | 10        | 0        | 24         | 102        | 1         | 207         | 0        | 310         | 334         | 161         | 1001        | 10        | 0        | 1172        | 4         | 902         | 137        | 0        | 1043        | 2215         |
| 5 - 6        | 12         | 11        | 2         | 0        | 25         | 130        | 0         | 204         | 0        | 334         | 359         | 188         | 950         | 5         | 3        | 1146        | 3         | 901         | 135        | 0        | 1039        | 2185         |
| <b>TOTAL</b> | <b>86</b>  | <b>27</b> | <b>40</b> | <b>0</b> | <b>153</b> | <b>829</b> | <b>25</b> | <b>1352</b> | <b>0</b> | <b>2206</b> | <b>2359</b> | <b>1152</b> | <b>7297</b> | <b>94</b> | <b>7</b> | <b>8550</b> | <b>39</b> | <b>7240</b> | <b>861</b> | <b>2</b> | <b>8142</b> | <b>16692</b> |

## FLORIDA DEPARTMENT OF TRANSPORTATION

## PEDESTRIAN MOVEMENT SUMMARY

SECTION 70100  
 STATE ROUTE State Road 520  
 OBSERVER TEDS

CITY Merritt Island  
 INTERSECTING ROUTE N. Banana River Dr  
 DATE 1/26/2016

COUNTY Brevard

REMARKS \_\_\_\_\_

FORM COMPLETED BY PHF

DATE 02/04/16

N. Banana River Dr

SB ST NAME

| 7 - 8 | 8 - 9 | 12 - 1 | 1 - 2 | 2 - 3 | 3 - 4 | 4 - 5 | 5 - 6 | Total |
|-------|-------|--------|-------|-------|-------|-------|-------|-------|
| 0     | 0     | 0      | 0     | 0     | 0     | 0     | 0     | 0     |
| 0     | 0     | 0      | 1     | 1     | 0     | 0     | 0     | 2     |
| 0     | 0     | 0      | 1     | 1     | 0     | 0     | 0     | 2     |

| 7 - 8  | 0 | 0 | 0 |
|--------|---|---|---|
| 8 - 9  | 0 | 0 | 0 |
| 12 - 1 | 0 | 0 | 0 |
| 1 - 2  | 0 | 0 | 0 |
| 2 - 3  | 1 | 2 | 3 |
| 3 - 4  | 0 | 1 | 1 |
| 4 - 5  | 1 | 1 | 2 |
| 5 - 6  | 0 | 1 | 1 |
| Total  | 2 | 5 | 7 |

State Road 520  
 EB ST NAME

| 7 - 8  | 0 | 0 | 0 |
|--------|---|---|---|
| 8 - 9  | 0 | 0 | 0 |
| 12 - 1 | 0 | 0 | 0 |
| 1 - 2  | 1 | 0 | 1 |
| 2 - 3  | 0 | 0 | 0 |
| 3 - 4  | 0 | 0 | 0 |
| 4 - 5  | 1 | 1 | 2 |
| 5 - 6  | 0 | 0 | 0 |
| Total  | 2 | 1 | 3 |

State Road 520  
 WB ST NAME

| 7 - 8 | 8 - 9 | 12 - 1 | 1 - 2 | 2 - 3 | 3 - 4 | 4 - 5 | 5 - 6 | Total |
|-------|-------|--------|-------|-------|-------|-------|-------|-------|
| 1     | 3     | 0      | 0     | 0     | 0     | 0     | 0     | 4     |
| 0     | 1     | 2      | 0     | 0     | 1     | 0     | 1     | 5     |

Car Dealership  
 NB ST NAME

## FLORIDA DEPARTMENT OF TRANSPORTATION

## BICYCLE MOVEMENT SUMMARY

SECTION 70100  
 STATE ROUTE State Road 520  
 OBSERVER TEDS

CITY Merritt Island  
 INTERSECTING ROUTE N. Banana River Dr  
 DATE 1/26/2016

COUNTY Brevard

REMARKS \_\_\_\_\_

FORM COMPLETED BY PHF

DATE 02/04/16

N. Banana River Dr

SB ST NAME

| 7 - 8 | 8 - 9 | 12 - 1 | 1 - 2 | 2 - 3 | 3 - 4 | 4 - 5 | 5 - 6 | Total |
|-------|-------|--------|-------|-------|-------|-------|-------|-------|
| 0     | 0     | 0      | 0     | 0     | 1     | 0     | 0     | 1     |
| 0     | 0     | 0      | 0     | 0     | 0     | 1     | 0     | 1     |
| 0     | 0     | 0      | 0     | 0     | 1     | 1     | 0     | 2     |

| 7 - 8  | 0 | 0 | 0 |
|--------|---|---|---|
| 8 - 9  | 0 | 0 | 0 |
| 12 - 1 | 0 | 2 | 2 |
| 1 - 2  | 0 | 0 | 0 |
| 2 - 3  | 0 | 0 | 0 |
| 3 - 4  | 0 | 0 | 0 |
| 4 - 5  | 0 | 0 | 0 |
| 5 - 6  | 0 | 0 | 0 |
| Total  | 0 | 2 | 2 |

State Road 520  
EB ST NAME

| 7 - 8  | 0 | 0 | 0 |
|--------|---|---|---|
| 8 - 9  | 0 | 0 | 0 |
| 12 - 1 | 0 | 0 | 0 |
| 1 - 2  | 0 | 0 | 0 |
| 2 - 3  | 0 | 0 | 0 |
| 3 - 4  | 0 | 0 | 0 |
| 4 - 5  | 0 | 0 | 0 |
| 5 - 6  | 0 | 0 | 0 |
| Total  | 0 | 0 | 0 |

State Road 520  
WB ST NAME

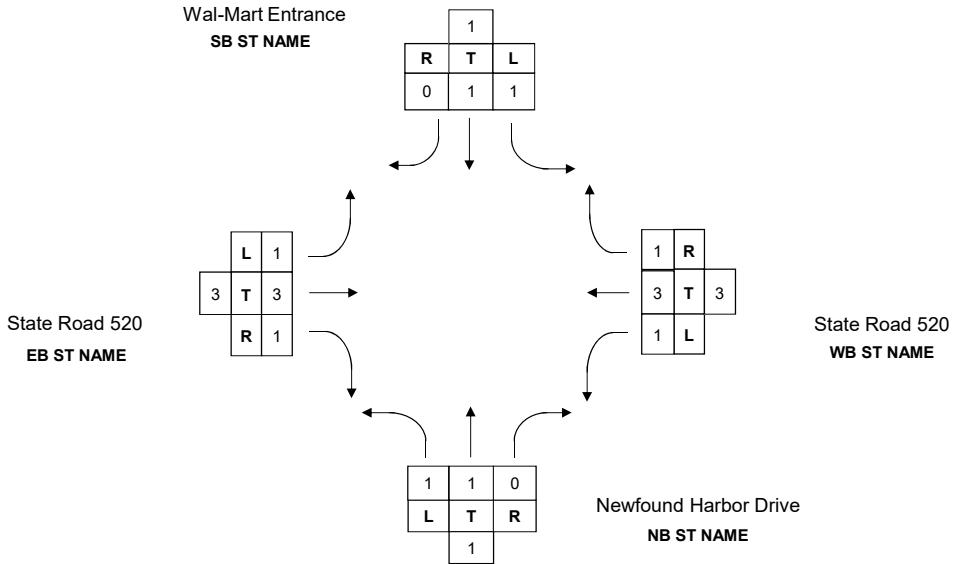
| 7 - 8 | 8 - 9 | 12 - 1 | 1 - 2 | 2 - 3 | 3 - 4 | 4 - 5 | 5 - 6 | Total |
|-------|-------|--------|-------|-------|-------|-------|-------|-------|
| 1     | 1     | 2      | 2     | 2     | 3     | 0     | 3     | 14    |
| 0     | 2     | 3      | 2     | 1     | 1     | 3     | 3     | 15    |
| 1     | 3     | 5      | 4     | 3     | 4     | 3     | 6     | 29    |

Car Dealership  
NB ST NAME

## FLORIDA DEPARTMENT OF TRANSPORTATION

## SUMMARY OF VEHICLE MOVEMENTS

|             |                       |                    |                       |          |         |
|-------------|-----------------------|--------------------|-----------------------|----------|---------|
| SECTION     | 70100                 | CITY               | Merritt Island        | COUNTY   | Brevard |
| STATE ROUTE | State Road 520        | INTERSECTING ROUTE | Newfound Harbor Drive |          |         |
| OBSERVER    | TEDS                  | DATE               | 1/27/2016             | MILEPOST | 12.603  |
| WEATHER     | Sunny                 | ROAD CONDITION     | Good                  |          |         |
| REMARKS     |                       |                    |                       |          |         |
|             | FORM COMPLETED BY PHF |                    | DATE 02/04/16         |          |         |



| TIME      | NORTHBOUND |     |     |   |      | SOUTHBOUND |     |      |   |      | TOTAL | EASTBOUND |      |      |   |       | WESTBOUND |      |     |   |      | TOTAL |
|-----------|------------|-----|-----|---|------|------------|-----|------|---|------|-------|-----------|------|------|---|-------|-----------|------|-----|---|------|-------|
|           | L          | T   | R   | U | TOT  | L          | T   | R    | U | TOT  |       | L         | T    | R    | U | TOT   | L         | T    | R   | U | TOT  |       |
| BEGIN-END |            |     |     |   |      |            |     |      |   |      |       |           |      |      |   |       |           |      |     |   |      | E/W   |
| 7 - 8     | 255        | 7   | 101 | 0 | 363  | 15         | 6   | 48   | 0 | 69   | 432   | 28        | 557  | 91   | 0 | 676   | 26        | 614  | 23  | 1 | 664  | 1340  |
| 8 - 9     | 231        | 8   | 85  | 0 | 324  | 37         | 4   | 52   | 0 | 93   | 417   | 87        | 735  | 131  | 1 | 954   | 48        | 718  | 27  | 0 | 793  | 1747  |
| 12 - 1    | 204        | 12  | 70  | 0 | 286  | 150        | 21  | 183  | 0 | 354  | 640   | 242       | 950  | 164  | 0 | 1356  | 44        | 1046 | 81  | 2 | 1173 | 2529  |
| 1 - 2     | 168        | 16  | 52  | 0 | 236  | 206        | 22  | 198  | 0 | 426  | 662   | 195       | 988  | 153  | 0 | 1336  | 51        | 1102 | 98  | 0 | 1251 | 2587  |
| 2 - 3     | 190        | 14  | 69  | 0 | 273  | 178        | 21  | 187  | 0 | 386  | 659   | 193       | 1004 | 176  | 0 | 1373  | 59        | 1039 | 91  | 3 | 1192 | 2565  |
| 3 - 4     | 188        | 20  | 62  | 0 | 270  | 185        | 22  | 185  | 0 | 392  | 662   | 193       | 1025 | 205  | 0 | 1423  | 64        | 1113 | 60  | 0 | 1237 | 2660  |
| 4 - 5     | 234        | 26  | 58  | 0 | 318  | 188        | 35  | 190  | 0 | 413  | 731   | 252       | 1016 | 305  | 0 | 1573  | 113       | 1028 | 58  | 1 | 1200 | 2773  |
| 5 - 6     | 213        | 30  | 91  | 0 | 334  | 177        | 30  | 177  | 0 | 384  | 718   | 203       | 989  | 304  | 1 | 1497  | 105       | 965  | 63  | 1 | 1134 | 2631  |
| TOTAL     | 1683       | 133 | 588 | 0 | 2404 | 1136       | 161 | 1220 | 0 | 2517 | 4921  | 1393      | 7264 | 1529 | 2 | 10188 | 510       | 7625 | 501 | 8 | 8644 | 18832 |

## FLORIDA DEPARTMENT OF TRANSPORTATION

## PEDESTRIAN MOVEMENT SUMMARY

**SECTION** 70100  
**STATE ROUTE** State Road 520  
**OBSERVER** TEDS

**CITY** Merritt Island  
**INTERSECTING ROUTE** Newfound Harbor Drive  
**DATE** 1/27/2016

**COUNTY** Brevard

**REMARKS**

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FORM COMPLETED BY PHF

DATE 02/04/16

Wal-Mart Entrance

**SB ST NAME**

| 7 - 8 | 8 - 9 | 12 - 1 | 1 - 2 | 2 - 3 | 3 - 4 | 4 - 5 | 5 - 6 | Total |
|-------|-------|--------|-------|-------|-------|-------|-------|-------|
| 1     | 0     | 0      | 1     | 0     | 0     | 0     | 0     | 2     |
| 2     | 0     | 0      | 1     | 0     | 0     | 0     | 0     | 3     |
| 3     | 0     | 0      | 2     | 0     | 0     | 0     | 0     | 5     |

|              |          |          |          |
|--------------|----------|----------|----------|
| 7 - 8        | 0        | 0        | 0        |
| 8 - 9        | 0        | 0        | 0        |
| 12 - 1       | 0        | 0        | 0        |
| 1 - 2        | 0        | 0        | 0        |
| 2 - 3        | 0        | 0        | 0        |
| 3 - 4        | 0        | 0        | 0        |
| 4 - 5        | 0        | 0        | 0        |
| 5 - 6        | 0        | 0        | 0        |
| <b>Total</b> | <b>0</b> | <b>0</b> | <b>0</b> |

State Road 520

**EB ST NAME**

|              |          |          |           |
|--------------|----------|----------|-----------|
| 7 - 8        | 1        | 0        | 1         |
| 8 - 9        | 0        | 1        | 1         |
| 12 - 1       | 0        | 2        | 2         |
| 1 - 2        | 5        | 2        | 7         |
| 2 - 3        | 0        | 0        | 0         |
| 3 - 4        | 0        | 2        | 2         |
| 4 - 5        | 1        | 1        | 2         |
| 5 - 6        | 2        | 0        | 2         |
| <b>Total</b> | <b>9</b> | <b>8</b> | <b>17</b> |

State Road 520

**WB ST NAME**

| 7 - 8 | 8 - 9 | 12 - 1 | 1 - 2 | 2 - 3 | 3 - 4 | 4 - 5 | 5 - 6 | Total |
|-------|-------|--------|-------|-------|-------|-------|-------|-------|
| 1     | 1     | 0      | 0     | 0     | 0     | 0     | 0     | 2     |
| 0     | 0     | 0      | 0     | 0     | 0     | 0     | 0     | 0     |

Newfound Harbor Drive

**NB ST NAME**

## FLORIDA DEPARTMENT OF TRANSPORTATION

**BICYCLE MOVEMENT SUMMARY**

**SECTION** 70100  
**STATE ROUTE** State Road 520  
**OBSERVER** TEDS

**CITY** Merritt Island  
**INTERSECTING ROUTE** Newfound Harbor Drive  
**DATE** 1/27/2016

**COUNTY** Brevard

**REMARKS** \_\_\_\_\_

FORM COMPLETED BY PHF

DATE 02/04/16

Wal-Mart Entrance  
**SB ST NAME**

| 7 - 8 | 8 - 9 | 12 - 1 | 1 - 2 | 2 - 3 | 3 - 4 | 4 - 5 | 5 - 6 | Total |
|-------|-------|--------|-------|-------|-------|-------|-------|-------|
| 0     | 1     | 2      | 2     | 0     | 0     | 1     | 2     | 8     |
| 0     | 0     | 2      | 1     | 0     | 0     | 0     | 1     | 4     |
| 0     | 1     | 4      | 3     | 0     | 0     | 1     | 3     | 12    |

| 7 - 8  | 0 | 0 | 0 |
|--------|---|---|---|
| 8 - 9  | 0 | 0 | 0 |
| 12 - 1 | 1 | 0 | 1 |
| 1 - 2  | 0 | 0 | 0 |
| 2 - 3  | 2 | 0 | 2 |
| 3 - 4  | 0 | 0 | 0 |
| 4 - 5  | 0 | 0 | 0 |
| 5 - 6  | 0 | 0 | 0 |
| Total  | 3 | 0 | 3 |

State Road 520  
**EB ST NAME**

| 7 - 8  | 0 | 0 | 0 |
|--------|---|---|---|
| 8 - 9  | 0 | 1 | 1 |
| 12 - 1 | 0 | 2 | 2 |
| 1 - 2  | 1 | 0 | 1 |
| 2 - 3  | 0 | 0 | 0 |
| 3 - 4  | 0 | 0 | 0 |
| 4 - 5  | 0 | 0 | 0 |
| 5 - 6  | 0 | 0 | 0 |
| Total  | 1 | 3 | 4 |

State Road 520  
**WB ST NAME**

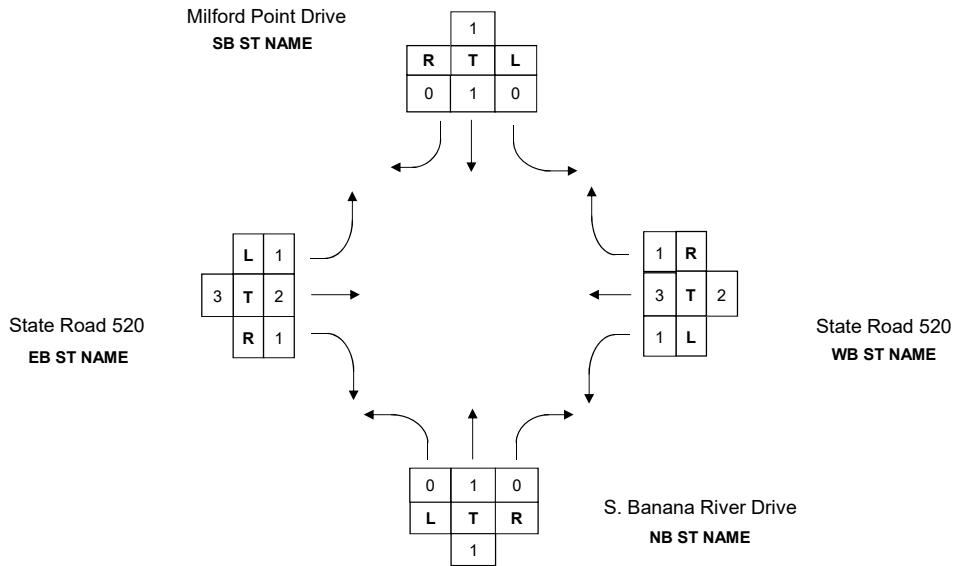
| 7 - 8 | 8 - 9 | 12 - 1 | 1 - 2 | 2 - 3 | 3 - 4 | 4 - 5 | 5 - 6 | Total |
|-------|-------|--------|-------|-------|-------|-------|-------|-------|
| 1     | 0     | 0      | 1     | 2     | 1     | 0     | 2     | 7     |
| 0     | 0     | 2      | 1     | 3     | 0     | 1     | 2     | 9     |

Newfound Harbor Drive  
**NB ST NAME**

## FLORIDA DEPARTMENT OF TRANSPORTATION

## SUMMARY OF VEHICLE MOVEMENTS

|             |                |  |                       |          |          |  |
|-------------|----------------|--|-----------------------|----------|----------|--|
| SECTION     | 70100          | CITY                                     | Merrit Island         | COUNTY   | Brevard  |  |
| STATE ROUTE | State Road 520 | INTERSECTING ROUTE S. Banana River Drive |                       |          |          |  |
| OBSERVER    | TEDS           | DATE                                     | 1/26/2016             | MILEPOST | 13.013   |  |
| WEATHER     | Sunny          | ROAD CONDITION                           | Good                  |          |          |  |
| REMARKS     |                |  |                       |          |          |  |
|             |                |  | FORM COMPLETED BY PHF | DATE     | 02/04/16 |  |



| TIME         | NORTHBOUND |           |            |          |            | SOUTHBOUND |           |            |          |            | TOTAL      | EASTBOUND |             |            |          |             | WESTBOUND  |             |           |          |             | TOTAL        |
|--------------|------------|-----------|------------|----------|------------|------------|-----------|------------|----------|------------|------------|-----------|-------------|------------|----------|-------------|------------|-------------|-----------|----------|-------------|--------------|
|              | L          | T         | R          | U        | TOT        | L          | T         | R          | U        | TOT        |            | L         | T           | R          | U        | TOT         | L          | T           | R         | U        | TOT         |              |
| 7 - 8        | 54         | 2         | 34         | 0        | 90         | 2          | 1         | 17         | 0        | 20         | 110        | 1         | 571         | 35         | 0        | 607         | 7          | 585         | 3         | 0        | 595         | 1202         |
| 8 - 9        | 44         | 2         | 34         | 0        | 80         | 2          | 2         | 11         | 0        | 15         | 95         | 9         | 716         | 72         | 1        | 798         | 11         | 724         | 1         | 0        | 736         | 1534         |
| 12 - 1       | 71         | 0         | 22         | 0        | 93         | 7          | 1         | 22         | 0        | 30         | 123        | 14        | 960         | 76         | 0        | 1050        | 22         | 1013        | 5         | 0        | 1040        | 2090         |
| 1 - 2        | 67         | 1         | 25         | 0        | 93         | 4          | 1         | 12         | 0        | 17         | 110        | 13        | 1016        | 74         | 0        | 1103        | 22         | 1155        | 10        | 0        | 1187        | 2290         |
| 2 - 3        | 84         | 1         | 21         | 0        | 106        | 4          | 3         | 20         | 0        | 27         | 133        | 18        | 1022        | 80         | 0        | 1120        | 22         | 1004        | 7         | 0        | 1033        | 2153         |
| 3 - 4        | 50         | 2         | 27         | 0        | 79         | 5          | 2         | 14         | 0        | 21         | 100        | 17        | 1050        | 83         | 3        | 1153        | 25         | 1077        | 5         | 0        | 1107        | 2260         |
| 4 - 5        | 45         | 3         | 12         | 0        | 60         | 1          | 2         | 11         | 0        | 14         | 74         | 8         | 1068        | 81         | 1        | 1158        | 41         | 995         | 6         | 1        | 1043        | 2201         |
| 5 - 6        | 52         | 1         | 22         | 0        | 75         | 0          | 4         | 11         | 0        | 15         | 90         | 17        | 951         | 85         | 0        | 1053        | 38         | 981         | 4         | 0        | 1023        | 2076         |
| <b>TOTAL</b> | <b>467</b> | <b>12</b> | <b>197</b> | <b>0</b> | <b>676</b> | <b>25</b>  | <b>16</b> | <b>118</b> | <b>0</b> | <b>159</b> | <b>835</b> | <b>97</b> | <b>7354</b> | <b>586</b> | <b>5</b> | <b>8042</b> | <b>188</b> | <b>7534</b> | <b>41</b> | <b>1</b> | <b>7764</b> | <b>15806</b> |

## FLORIDA DEPARTMENT OF TRANSPORTATION

## PEDESTRIAN MOVEMENT SUMMARY

**SECTION** 70100  
**STATE ROUTE** State Road 520  
**OBSERVER** TEDS

**CITY** Merrit Island  
**INTERSECTING ROUTE** S. Banana River Drive  
**DATE** 1/26/2016

**COUNTY** Brevard

**REMARKS**

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FORM COMPLETED BY PHF

DATE 02/04/16

Milford Point Drive

**SB ST NAME**

| 7 - 8 | 8 - 9 | 12 - 1 | 1 - 2 | 2 - 3 | 3 - 4 | 4 - 5 | 5 - 6 | Total |
|-------|-------|--------|-------|-------|-------|-------|-------|-------|
| 0     | 0     | 0      | 0     | 0     | 0     | 0     | 0     | 0     |
| 0     | 0     | 0      | 0     | 0     | 0     | 0     | 1     | 1     |
| 0     | 0     | 0      | 0     | 0     | 0     | 0     | 1     | 1     |

| 7 - 8  | 0 | 0 | 0 |
|--------|---|---|---|
| 8 - 9  | 0 | 0 | 0 |
| 12 - 1 | 0 | 0 | 0 |
| 1 - 2  | 0 | 0 | 0 |
| 2 - 3  | 2 | 0 | 2 |
| 3 - 4  | 0 | 0 | 0 |
| 4 - 5  | 1 | 0 | 1 |
| 5 - 6  | 0 | 0 | 0 |
| Total  | 3 | 0 | 3 |

State Road 520  
**EB ST NAME**

| 7 - 8  | 1 | 0 | 1 |
|--------|---|---|---|
| 8 - 9  | 0 | 0 | 0 |
| 12 - 1 | 0 | 0 | 0 |
| 1 - 2  | 0 | 0 | 0 |
| 2 - 3  | 0 | 0 | 0 |
| 3 - 4  | 0 | 0 | 0 |
| 4 - 5  | 0 | 0 | 0 |
| 5 - 6  | 0 | 0 | 0 |
| Total  | 1 | 0 | 1 |

State Road 520  
**WB ST NAME**

| 7 - 8 | 8 - 9 | 12 - 1 | 1 - 2 | 2 - 3 | 3 - 4 | 4 - 5 | 5 - 6 | Total |
|-------|-------|--------|-------|-------|-------|-------|-------|-------|
| 0     | 1     | 0      | 0     | 0     | 0     | 1     | 0     | 2     |
| 0     | 1     | 0      | 0     | 0     | 0     | 1     | 1     | 3     |
| 0     | 2     | 0      | 0     | 0     | 0     | 2     | 1     | 5     |

S. Banana River Drive  
**NB ST NAME**

## FLORIDA DEPARTMENT OF TRANSPORTATION

**BICYCLE MOVEMENT SUMMARY**

**SECTION** 70100  
**STATE ROUTE** State Road 520  
**OBSERVER** TEDS

**CITY** Merrit Island  
**INTERSECTING ROUTE** S. Banana River Drive  
**DATE** 1/26/2016

**COUNTY** Brevard

**REMARKS** \_\_\_\_\_

FORM COMPLETED BY PHF

DATE 02/04/16

Milford Point Drive  
**SB ST NAME**

| 7 - 8 | 8 - 9 | 12 - 1 | 1 - 2 | 2 - 3 | 3 - 4 | 4 - 5 | 5 - 6 | Total |
|-------|-------|--------|-------|-------|-------|-------|-------|-------|
| 1     | 0     | 0      | 0     | 0     | 1     | 0     | 0     | 2     |
| 0     | 0     | 0      | 0     | 0     | 0     | 0     | 0     | 0     |
| 1     | 0     | 0      | 0     | 0     | 1     | 0     | 0     | 2     |

|              |          |          |          |
|--------------|----------|----------|----------|
| 7 - 8        | 1        | 0        | 1        |
| 8 - 9        | 0        | 0        | 0        |
| 12 - 1       | 0        | 1        | 1        |
| 1 - 2        | 2        | 0        | 2        |
| 2 - 3        | 0        | 1        | 1        |
| 3 - 4        | 0        | 0        | 0        |
| 4 - 5        | 0        | 0        | 0        |
| 5 - 6        | 0        | 0        | 0        |
| <b>Total</b> | <b>3</b> | <b>2</b> | <b>5</b> |

State Road 520  
**EB ST NAME**

|              |          |          |          |
|--------------|----------|----------|----------|
| 7 - 8        | 0        | 0        | 0        |
| 8 - 9        | 0        | 0        | 0        |
| 12 - 1       | 0        | 1        | 1        |
| 1 - 2        | 0        | 0        | 0        |
| 2 - 3        | 0        | 0        | 0        |
| 3 - 4        | 0        | 0        | 0        |
| 4 - 5        | 0        | 0        | 0        |
| 5 - 6        | 0        | 0        | 0        |
| <b>Total</b> | <b>0</b> | <b>1</b> | <b>1</b> |

State Road 520  
**WB ST NAME**

| 7 - 8 | 8 - 9 | 12 - 1 | 1 - 2 | 2 - 3 | 3 - 4 | 4 - 5 | 5 - 6 | Total |
|-------|-------|--------|-------|-------|-------|-------|-------|-------|
| 0     | 0     | 2      | 1     | 4     | 2     | 0     | 3     | 12    |
| 1     | 1     | 1      | 3     | 2     | 2     | 2     | 0     | 12    |

S. Banana River Drive  
**NB ST NAME**

Groups Printed- All Vehicles

|                      | DRIVEWAY<br>Northbound |      |       |      |            | MOLLYS SEAFOOD<br>SHACK<br>Southbound |      |       |      |            | STATE ROAD 520<br>Eastbound |      |       |      |            | STATE ROAD 520<br>Westbound |      |       |      |            |            |      |
|----------------------|------------------------|------|-------|------|------------|---------------------------------------|------|-------|------|------------|-----------------------------|------|-------|------|------------|-----------------------------|------|-------|------|------------|------------|------|
| Start Time           | Left                   | Thru | Right | Peds | App. Total | Left                                  | Thru | Right | Peds | App. Total | Left                        | Thru | Right | Peds | App. Total | Left                        | Thru | Right | Peds | App. Total | Int. Total |      |
| 07:00 AM             | 0                      | 0    | 0     | 0    | 0          | 1                                     | 0    | 0     | 0    | 1          | 4                           | 85   | 0     | 0    | 89         | 0                           | 107  | 7     | 0    | 114        | 204        |      |
| 07:15 AM             | 0                      | 0    | 0     | 0    | 0          | 0                                     | 0    | 0     | 0    | 0          | 2                           | 140  | 0     | 1    | 143        | 0                           | 144  | 3     | 0    | 147        | 290        |      |
| 07:30 AM             | 0                      | 0    | 0     | 0    | 0          | 1                                     | 0    | 2     | 0    | 3          | 2                           | 168  | 0     | 0    | 170        | 0                           | 162  | 7     | 0    | 169        | 342        |      |
| 07:45 AM             | 0                      | 0    | 0     | 0    | 0          | 3                                     | 0    | 0     | 0    | 3          | 1                           | 225  | 2     | 0    | 228        | 0                           | 230  | 6     | 1    | 237        | 468        |      |
| Total                | 0                      | 0    | 0     | 0    | 0          | 5                                     | 0    | 2     | 0    | 7          | 9                           | 618  | 2     | 1    | 630        | 0                           | 643  | 23    | 1    | 667        | 1304       |      |
| 08:00 AM             | 0                      | 0    | 0     | 0    | 0          | 0                                     | 0    | 0     | 0    | 0          | 1                           | 184  | 0     | 0    | 185        | 0                           | 186  | 15    | 0    | 201        | 386        |      |
| 08:15 AM             | 0                      | 0    | 0     | 0    | 0          | 1                                     | 0    | 0     | 0    | 1          | 4                           | 238  | 0     | 1    | 243        | 0                           | 209  | 13    | 0    | 222        | 466        |      |
| 08:30 AM             | 0                      | 0    | 0     | 0    | 0          | 1                                     | 0    | 3     | 0    | 4          | 2                           | 177  | 0     | 0    | 179        | 0                           | 215  | 8     | 0    | 223        | 406        |      |
| 08:45 AM             | 0                      | 0    | 0     | 0    | 0          | 2                                     | 0    | 0     | 0    | 2          | 7                           | 210  | 0     | 0    | 217        | 0                           | 202  | 25    | 0    | 227        | 446        |      |
| Total                | 0                      | 0    | 0     | 0    | 0          | 4                                     | 0    | 3     | 0    | 7          | 14                          | 809  | 0     | 1    | 824        | 0                           | 812  | 61    | 0    | 873        | 1704       |      |
| <b>*** BREAK ***</b> |                        |      |       |      |            |                                       |      |       |      |            |                             |      |       |      |            |                             |      |       |      |            |            |      |
| 12:00 PM             | 0                      | 0    | 0     | 0    | 0          | 0                                     | 0    | 5     | 0    | 5          | 10                          | 281  | 0     | 0    | 291        | 0                           | 279  | 22    | 0    | 301        | 597        |      |
| 12:15 PM             | 0                      | 0    | 1     | 0    | 1          | 5                                     | 0    | 9     | 0    | 14         | 4                           | 250  | 1     | 1    | 256        | 0                           | 303  | 25    | 0    | 328        | 599        |      |
| 12:30 PM             | 0                      | 0    | 0     | 0    | 0          | 6                                     | 0    | 1     | 0    | 7          | 8                           | 265  | 4     | 0    | 277        | 2                           | 255  | 32    | 0    | 289        | 573        |      |
| 12:45 PM             | 0                      | 0    | 0     | 0    | 0          | 0                                     | 0    | 15    | 0    | 15         | 8                           | 302  | 0     | 0    | 310        | 1                           | 284  | 32    | 0    | 317        | 642        |      |
| Total                | 0                      | 0    | 1     | 0    | 1          | 11                                    | 0    | 30    | 0    | 41         | 30                          | 1098 | 5     | 1    | 1134       | 3                           | 1121 | 111   | 0    | 1235       | 2411       |      |
| 01:00 PM             | 1                      | 0    | 1     | 0    | 2          | 0                                     | 0    | 13    | 0    | 13         | 8                           | 240  | 0     | 0    | 248        | 0                           | 267  | 25    | 0    | 292        | 555        |      |
| 01:15 PM             | 1                      | 0    | 0     | 0    | 1          | 1                                     | 0    | 8     | 0    | 9          | 8                           | 299  | 1     | 0    | 308        | 0                           | 318  | 20    | 0    | 338        | 656        |      |
| 01:30 PM             | 0                      | 0    | 1     | 0    | 1          | 2                                     | 0    | 11    | 0    | 13         | 8                           | 316  | 1     | 0    | 325        | 1                           | 281  | 23    | 0    | 305        | 644        |      |
| 01:45 PM             | 0                      | 0    | 1     | 0    | 1          | 0                                     | 0    | 12    | 0    | 12         | 6                           | 293  | 0     | 0    | 299        | 0                           | 331  | 23    | 0    | 354        | 666        |      |
| Total                | 2                      | 0    | 3     | 0    | 5          | 3                                     | 0    | 44    | 0    | 47         | 30                          | 1148 | 2     | 0    | 1180       | 1                           | 1197 | 91    | 0    | 1289       | 2521       |      |
| 02:00 PM             | 1                      | 0    | 0     | 0    | 1          | 4                                     | 0    | 6     | 0    | 10         | 2                           | 296  | 0     | 0    | 298        | 0                           | 296  | 26    | 0    | 322        | 631        |      |
| 02:15 PM             | 0                      | 0    | 1     | 0    | 1          | 2                                     | 0    | 10    | 0    | 12         | 6                           | 282  | 0     | 0    | 288        | 0                           | 296  | 21    | 0    | 317        | 618        |      |
| 02:30 PM             | 0                      | 0    | 0     | 0    | 0          | 2                                     | 0    | 14    | 0    | 16         | 7                           | 320  | 0     | 0    | 327        | 0                           | 267  | 24    | 0    | 291        | 634        |      |
| 02:45 PM             | 0                      | 0    | 0     | 0    | 0          | 2                                     | 0    | 9     | 0    | 11         | 4                           | 281  | 0     | 0    | 285        | 0                           | 283  | 20    | 0    | 303        | 599        |      |
| Total                | 1                      | 0    | 1     | 0    | 2          | 10                                    | 0    | 39    | 0    | 49         | 19                          | 1179 | 0     | 0    | 1198       | 0                           | 1142 | 91    | 0    | 1233       | 2482       |      |
| 03:00 PM             | 0                      | 0    | 0     | 0    | 0          | 3                                     | 0    | 4     | 0    | 7          | 5                           | 332  | 1     | 1    | 339        | 0                           | 279  | 29    | 0    | 308        | 654        |      |
| 03:15 PM             | 0                      | 0    | 0     | 0    | 0          | 1                                     | 0    | 10    | 0    | 11         | 8                           | 297  | 0     | 0    | 305        | 0                           | 290  | 20    | 0    | 310        | 626        |      |
| 03:30 PM             | 0                      | 0    | 0     | 0    | 0          | 5                                     | 0    | 7     | 1    | 13         | 8                           | 288  | 0     | 0    | 296        | 0                           | 304  | 29    | 0    | 333        | 642        |      |
| 03:45 PM             | 0                      | 0    | 0     | 0    | 0          | 7                                     | 0    | 6     | 0    | 13         | 10                          | 296  | 0     | 0    | 306        | 0                           | 290  | 28    | 0    | 318        | 637        |      |
| Total                | 0                      | 0    | 0     | 0    | 0          | 16                                    | 0    | 27    | 1    | 44         | 31                          | 1213 | 1     | 1    | 1246       | 0                           | 1163 | 106   | 0    | 1269       | 2559       |      |
| 04:00 PM             | 0                      | 0    | 0     | 0    | 0          | 2                                     | 0    | 16    | 0    | 18         | 5                           | 295  | 1     | 0    | 301        | 0                           | 293  | 25    | 0    | 318        | 637        |      |
| 04:15 PM             | 0                      | 0    | 0     | 0    | 0          | 4                                     | 0    | 13    | 0    | 17         | 4                           | 305  | 0     | 0    | 309        | 0                           | 247  | 39    | 0    | 286        | 612        |      |
| 04:30 PM             | 0                      | 0    | 0     | 0    | 0          | 5                                     | 0    | 3     | 0    | 8          | 8                           | 296  | 0     | 0    | 304        | 1                           | 272  | 20    | 0    | 293        | 605        |      |
| 04:45 PM             | 1                      | 0    | 0     | 0    | 1          | 0                                     | 0    | 7     | 0    | 7          | 5                           | 269  | 0     | 0    | 274        | 0                           | 262  | 22    | 0    | 284        | 566        |      |
| Total                | 1                      | 0    | 0     | 0    | 1          | 11                                    | 0    | 39    | 0    | 50         | 22                          | 1165 | 1     | 0    | 1188       | 1                           | 1074 | 106   | 0    | 1181       | 2420       |      |
| 05:00 PM             | 0                      | 0    | 1     | 0    | 1          | 3                                     | 0    | 7     | 0    | 10         | 5                           | 272  | 0     | 0    | 277        | 0                           | 289  | 30    | 0    | 319        | 607        |      |
| 05:15 PM             | 1                      | 0    | 0     | 0    | 1          | 2                                     | 0    | 10    | 1    | 13         | 4                           | 310  | 0     | 0    | 314        | 0                           | 257  | 27    | 0    | 284        | 612        |      |
| 05:30 PM             | 1                      | 0    | 0     | 0    | 1          | 2                                     | 0    | 7     | 0    | 9          | 5                           | 284  | 0     | 0    | 289        | 0                           | 274  | 23    | 0    | 297        | 596        |      |
| 05:45 PM             | 0                      | 0    | 0     | 0    | 0          | 1                                     | 0    | 12    | 0    | 13         | 4                           | 233  | 0     | 0    | 237        | 0                           | 226  | 28    | 0    | 254        | 504        |      |
| Total                | 2                      | 0    | 1     | 0    | 3          | 8                                     | 0    | 36    | 1    | 45         | 18                          | 1099 | 0     | 0    | 1117       | 0                           | 1046 | 108   | 0    | 1154       | 2319       |      |
| Grand Total          | 6                      | 0    | 6     | 0    | 12         | 68                                    | 0    | 220   | 2    | 290        | 173                         | 8329 | 11    | 4    | 8517       | 5                           | 8198 | 697   | 1    | 8901       | 17720      |      |
| Apprch %             | 50                     | 0    | 50    | 0    |            | 23.4                                  | 0    | 75.9  | 0.7  |            | 2                           | 97.8 | 0.1   | 0    | 0          | 0.1                         | 92.1 | 7.8   | 0    |            |            |      |
| Total %              | 0                      | 0    | 0     | 0    |            | 0.1                                   | 0.4  | 0     | 1.2  | 0          | 1.6                         | 1    | 47    | 0.1  | 0          | 0                           | 48.1 | 0     | 46.3 | 3.9        | 0          | 50.2 |

| Start Time  | DRIVEWAY Northbound |      |       |      |            | MOLLYS SEAFOOD SHACK Southbound |      |       |      |            | STATE ROAD 520 Eastbound |      |       |      |            | STATE ROAD 520 Westbound |      |       |      |            |            |
|---|---------------------|------|-------|------|------------|---------------------------------|------|-------|------|------------|--------------------------|------|-------|------|------------|--------------------------|------|-------|------|------------|------------|
|   | Left                | Thru | Right | Peds | App. Total | Left                            | Thru | Right | Peds | App. Total | Left                     | Thru | Right | Peds | App. Total | Left                     | Thru | Right | Peds | App. Total | Int. Total |
| <b>Peak Hour Analysis From 07:00 AM to 09:45 AM - Peak 1 of 1</b> |                     |      |       |      |            |                                 |      |       |      |            |                          |      |       |      |            |                          |      |       |      |            |            |
| <b>Peak Hour for Entire Intersection Begins at 07:45 AM</b>       |                     |      |       |      |            |                                 |      |       |      |            |                          |      |       |      |            |                          |      |       |      |            |            |
| 07:45 AM  | 0                   | 0    | 0     | 0    | 0          | 3                               | 0    | 0     | 0    | 3          | 1                        | 225  | 2     | 0    | 228        | 0                        | 230  | 6     | 1    | 237        | 468        |
| 08:00 AM  | 0                   | 0    | 0     | 0    | 0          | 0                               | 0    | 0     | 0    | 0          | 1                        | 184  | 0     | 0    | 185        | 0                        | 186  | 15    | 0    | 201        | 386        |
| 08:15 AM  | 0                   | 0    | 0     | 0    | 0          | 1                               | 0    | 0     | 0    | 1          | 4                        | 238  | 0     | 1    | 243        | 0                        | 209  | 13    | 0    | 222        | 466        |
| 08:30 AM  | 0                   | 0    | 0     | 0    | 0          | 1                               | 0    | 3     | 0    | 4          | 2                        | 177  | 0     | 0    | 179        | 0                        | 215  | 8     | 0    | 223        | 406        |
| Total Volume  | 0                   | 0    | 0     | 0    | 0          | 5                               | 0    | 3     | 0    | 8          | 8                        | 824  | 2     | 1    | 835        | 0                        | 840  | 42    | 1    | 883        | 1726       |
| % App. Total  | 0                   | 0    | 0     | 0    | 0          | 62.5                            | 0    | 37.5  | 0    | 1          | 98.7                     | 0.2  | 0.1   | 0    | 95.1       | 4.8                      | 0.1  | 0     | 0    | 0          |            |
| PHF   | .000                | .000 | .000  | .000 | .000       | .417                            | .000 | .250  | .000 | .500       | .500                     | .866 | .250  | .250 | .859       | .000                     | .913 | .700  | .250 | .931       | .922       |

Peak Hour Analysis From 07:00 AM to 09:45 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

|              | 07:00 AM             | 07:45 AM              | 07:45 AM             | 07:45 AM             |  |
|--------------|----------------------|-----------------------|----------------------|----------------------|--|
| +0 mins.     | 0 0 0 0 0            | 3 0 0 0 3             | 1 225 2 0 228        | 0 230 6 1 237        |  |
| +15 mins.    | 0 0 0 0 0            | 0 0 0 0 0             | 1 184 0 0 185        | 0 186 15 0 201       |  |
| +30 mins.    | 0 0 0 0 0            | 1 0 0 0 1             | 4 238 0 1 243        | 0 209 13 0 222       |  |
| +45 mins.    | 0 0 0 0 0            | 1 0 3 0 4             | 2 177 0 0 179        | 0 215 8 0 223        |  |
| Total Volume | 0 0 0 0 0            | 5 0 3 0 8             | 8 824 2 1 835        | 0 840 42 1 883       |  |
| % App. Total | 0 0 0 0 0            | 62.5 0 37.5 0         | 1 98.7 0.2 0.1 0     | 0 95.1 4.8 0.1 0     |  |
| PHF          | .00 .00 .00 .00 .000 | .417 .00 .25 .00 .500 | .50 .86 .25 .25 .859 | .00 .91 .70 .25 .931 |  |
|              | 0 0 0 0 0            | 7 0 0 0 0             | 0 6 0 0 0            | 0 3 0 0 0            |  |

Peak Hour Analysis From 10:00 AM to 01:45 PM - Peak 1 of 1

Peak Hour for Entire Intersection Begins at 01:00 PM

|              |                          |                          |                          |                          |      |
|--------------|--------------------------|--------------------------|--------------------------|--------------------------|------|
| 01:00 PM     | 1 0 1 0 2                | 0 0 13 0 13              | 8 240 0 0 248            | 0 267 25 0 292           | 555  |
| 01:15 PM     | 1 0 0 0 1                | 1 0 8 0 9                | 8 299 1 0 308            | 0 318 20 0 338           | 656  |
| 01:30 PM     | 0 0 1 0 1                | 2 0 11 0 13              | 8 316 1 0 325            | 1 281 23 0 305           | 644  |
| 01:45 PM     | 0 0 1 0 1                | 0 0 12 0 12              | 6 293 0 0 299            | 0 331 23 0 354           | 666  |
| Total Volume | 2 0 3 0 5                | 3 0 44 0 47              | 30 1148 2 0 1180         | 1 1197 91 0 1289         | 2521 |
| % App. Total | 40 0 60 0 0              | 6.4 0 93.6 0             | 2.5 97.3 0.2 0 0         | 0.1 92.9 7.1 0 0         |      |
| PHF          | .500 .000 .750 .000 .625 | .375 .000 .846 .000 .904 | .938 .908 .500 .000 .908 | .250 .904 .910 .000 .910 | .946 |

Peak Hour Analysis From 10:00 AM to 01:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

|              | 01:00 PM             | 12:45 PM             | 12:45 PM               | 01:00 PM             |  |
|--------------|----------------------|----------------------|------------------------|----------------------|--|
| +0 mins.     | 1 0 1 0 2            | 0 0 15 0 15          | 8 302 0 0 310          | 0 267 25 0 292       |  |
| +15 mins.    | 1 0 0 0 1            | 0 0 13 0 13          | 8 240 0 0 248          | 0 318 20 0 338       |  |
| +30 mins.    | 0 0 1 0 1            | 1 0 8 0 9            | 8 299 1 0 308          | 1 281 23 0 305       |  |
| +45 mins.    | 0 0 1 0 1            | 2 0 11 0 13          | 8 316 1 0 325          | 0 331 23 0 354       |  |
| Total Volume | 2 0 3 0 5            | 3 0 47 0 50          | 32 1157 2 0 1191       | 1 1197 91 0 1289     |  |
| % App. Total | 40 0 60 0 0          | 6 0 94 0 0           | 2.7 97.1 0.2 0 0       | 0.1 92.9 7.1 0 0     |  |
| PHF          | .50 .00 .75 .00 .625 | .37 .00 .78 .00 .833 | 1.000 .91 .50 .00 .916 | .25 .90 .91 .00 .910 |  |
|              | 0 0 0 0 0            | 5 0 3 0 0            | 5 0 0 0 0              | 0 4 0 0 0            |  |

Peak Hour Analysis From 02:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Entire Intersection Begins at 03:00 PM

|              |                          |                          |                          |                          |      |
|--------------|--------------------------|--------------------------|--------------------------|--------------------------|------|
| 03:00 PM     | 0 0 0 0 0                | 3 0 4 0 7                | 5 332 1 1 339            | 0 279 29 0 308           | 654  |
| 03:15 PM     | 0 0 0 0 0                | 1 0 10 0 11              | 8 297 0 0 305            | 0 290 20 0 310           | 626  |
| 03:30 PM     | 0 0 0 0 0                | 5 0 7 1 13               | 8 288 0 0 296            | 0 304 29 0 333           | 642  |
| 03:45 PM     | 0 0 0 0 0                | 7 0 6 0 13               | 10 296 0 0 306           | 0 290 28 0 318           | 637  |
| Total Volume | 0 0 0 0 0                | 16 0 27 1 44             | 31 1213 1 1 1246         | 0 1163 106 0 1269        | 2559 |
| % App. Total | 0 0 0 0 0                | 36.4 0 61.4 2.3          | 2.5 97.4 0.1 0.1 0       | 0 91.6 8.4 0 0           |      |
| PHF          | .000 .000 .000 .000 .000 | .571 .000 .675 .250 .846 | .775 .913 .250 .250 .919 | .000 .956 .914 .000 .953 | .978 |

Peak Hour Analysis From 02:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

|              | 04:45 PM              | 03:30 PM             | 02:30 PM           | 03:15 PM             |  |
|--------------|-----------------------|----------------------|--------------------|----------------------|--|
| +0 mins.     | 1 0 0 0 1             | 5 0 7 1 13           | 7 320 0 0 327      | 0 290 20 0 310       |  |
| +15 mins.    | 0 0 1 0 1             | 7 0 6 0 13           | 4 281 0 0 285      | 0 304 29 0 333       |  |
| +30 mins.    | 1 0 0 0 1             | 2 0 16 0 18          | 5 332 1 1 339      | 0 290 28 0 318       |  |
| +45 mins.    | 1 0 0 0 1             | 4 0 13 0 17          | 8 297 0 0 305      | 0 293 25 0 318       |  |
| Total Volume | 3 0 1 0 4             | 18 0 42 1 61         | 24 1230 1 1 1256   | 0 1177 102 0 1279    |  |
| % App. Total | 75 0 25 0 0           | 29.5 0 68.9 1.6      | 1.9 97.9 0.1 0.1 0 | 0 92 8 0 0           |  |
| PHF          | .75 .00 .25 .00 1.000 | .64 .00 .65 .25 .847 | .75 .92 .25 .25 0  | .926 .00 .96 .87 .00 |  |
|              | 0 0 0 0 0             | 3 0 6 0 0            | 5 0 0 0 0          | 0 8 9 0 0            |  |

**Groups Printed- Heavy Trucks**

|                      | DRIVEWAY<br>Northbound |      |      |       |      | MOLLYS SEAFOOD<br>SHACK<br>Southbound |      |      |       |      | STATE ROAD 520<br>Eastbound |      |      |       |      | STATE ROAD 520<br>Westbound |      |      |       |      |            |            |
|----------------------|------------------------|------|------|-------|------|---------------------------------------|------|------|-------|------|-----------------------------|------|------|-------|------|-----------------------------|------|------|-------|------|------------|------------|
|                      | Start Time             | Left | Thru | Right | Peds | App. Total                            | Left | Thru | Right | Peds | App. Total                  | Left | Thru | Right | Peds | App. Total                  | Left | Thru | Right | Peds | App. Total | Int. Total |
| 07:00 AM             | 0                      | 0    | 0    | 0     | 0    | 0                                     | 0    | 0    | 0     | 0    | 0                           | 1    | 0    | 0     | 0    | 1                           | 0    | 2    | 0     | 0    | 2          | 3          |
| 07:15 AM             | 0                      | 0    | 0    | 0     | 0    | 0                                     | 0    | 0    | 0     | 0    | 0                           | 0    | 2    | 0     | 1    | 3                           | 0    | 2    | 0     | 0    | 2          | 5          |
| 07:30 AM             | 0                      | 0    | 0    | 0     | 0    | 0                                     | 0    | 0    | 0     | 0    | 0                           | 0    | 6    | 0     | 0    | 6                           | 0    | 4    | 1     | 0    | 5          | 11         |
| 07:45 AM             | 0                      | 0    | 0    | 0     | 0    | 0                                     | 0    | 0    | 0     | 0    | 0                           | 0    | 6    | 0     | 0    | 6                           | 0    | 4    | 0     | 1    | 5          | 11         |
| Total                |                        | 0    | 0    | 0     | 0    | 0                                     | 0    | 0    | 0     | 0    | 0                           | 1    | 14   | 0     | 1    | 16                          | 0    | 12   | 1     | 1    | 14         | 30         |
| 08:00 AM             | 0                      | 0    | 0    | 0     | 0    | 0                                     | 0    | 0    | 0     | 0    | 0                           | 0    | 2    | 0     | 0    | 2                           | 0    | 1    | 1     | 0    | 2          | 4          |
| 08:15 AM             | 0                      | 0    | 0    | 0     | 0    | 0                                     | 0    | 0    | 0     | 0    | 0                           | 0    | 8    | 0     | 1    | 9                           | 0    | 1    | 1     | 0    | 2          | 11         |
| 08:30 AM             | 0                      | 0    | 0    | 0     | 0    | 0                                     | 0    | 0    | 0     | 0    | 0                           | 0    | 5    | 0     | 0    | 6                           | 0    | 3    | 1     | 0    | 4          | 10         |
| 08:45 AM             | 0                      | 0    | 0    | 0     | 0    | 0                                     | 0    | 0    | 0     | 0    | 0                           | 0    | 5    | 0     | 0    | 5                           | 0    | 5    | 1     | 0    | 6          | 11         |
| Total                |                        | 0    | 0    | 0     | 0    | 0                                     | 0    | 0    | 0     | 0    | 0                           | 1    | 20   | 0     | 1    | 22                          | 0    | 10   | 4     | 0    | 14         | 36         |
| <b>*** BREAK ***</b> |                        |      |      |       |      |                                       |      |      |       |      |                             |      |      |       |      |                             |      |      |       |      |            |            |
| 12:00 PM             | 0                      | 0    | 0    | 0     | 0    | 0                                     | 0    | 0    | 0     | 0    | 0                           | 0    | 5    | 0     | 0    | 5                           | 0    | 6    | 1     | 0    | 7          | 12         |
| 12:15 PM             | 0                      | 0    | 0    | 0     | 0    | 0                                     | 0    | 0    | 0     | 0    | 0                           | 0    | 3    | 0     | 0    | 3                           | 0    | 3    | 1     | 0    | 4          | 7          |
| 12:30 PM             | 0                      | 0    | 0    | 0     | 0    | 0                                     | 0    | 0    | 0     | 0    | 0                           | 0    | 3    | 0     | 0    | 3                           | 0    | 2    | 1     | 0    | 3          | 6          |
| 12:45 PM             | 0                      | 0    | 0    | 0     | 0    | 0                                     | 0    | 0    | 0     | 0    | 0                           | 0    | 6    | 0     | 0    | 6                           | 0    | 2    | 0     | 0    | 2          | 8          |
| Total                |                        | 0    | 0    | 0     | 0    | 0                                     | 0    | 0    | 0     | 0    | 0                           | 0    | 17   | 0     | 0    | 17                          | 0    | 13   | 3     | 0    | 16         | 33         |
| 01:00 PM             | 0                      | 0    | 0    | 0     | 0    | 0                                     | 0    | 0    | 0     | 0    | 0                           | 0    | 2    | 0     | 0    | 2                           | 0    | 1    | 1     | 0    | 2          | 4          |
| 01:15 PM             | 0                      | 0    | 0    | 0     | 0    | 0                                     | 0    | 0    | 0     | 0    | 0                           | 0    | 5    | 0     | 0    | 5                           | 0    | 7    | 1     | 0    | 8          | 13         |
| 01:30 PM             | 0                      | 0    | 0    | 0     | 0    | 0                                     | 0    | 0    | 0     | 0    | 0                           | 0    | 2    | 0     | 0    | 2                           | 0    | 3    | 1     | 0    | 4          | 6          |
| 01:45 PM             | 0                      | 0    | 0    | 0     | 0    | 0                                     | 0    | 0    | 0     | 0    | 0                           | 0    | 5    | 0     | 0    | 6                           | 0    | 2    | 0     | 0    | 2          | 8          |
| Total                |                        | 0    | 0    | 0     | 0    | 0                                     | 0    | 0    | 0     | 0    | 0                           | 0    | 15   | 0     | 0    | 15                          | 0    | 13   | 3     | 0    | 16         | 31         |
| 02:00 PM             | 0                      | 0    | 0    | 0     | 0    | 0                                     | 0    | 0    | 1     | 0    | 1                           | 0    | 9    | 0     | 0    | 9                           | 0    | 5    | 1     | 0    | 6          | 16         |
| 02:15 PM             | 0                      | 0    | 0    | 0     | 0    | 0                                     | 0    | 0    | 0     | 0    | 0                           | 0    | 2    | 0     | 0    | 2                           | 0    | 4    | 1     | 0    | 5          | 7          |
| 02:30 PM             | 0                      | 0    | 0    | 0     | 0    | 0                                     | 0    | 0    | 0     | 0    | 0                           | 0    | 2    | 0     | 0    | 2                           | 0    | 4    | 1     | 0    | 5          | 7          |
| 02:45 PM             | 0                      | 0    | 0    | 0     | 0    | 0                                     | 0    | 0    | 0     | 0    | 0                           | 0    | 2    | 0     | 0    | 2                           | 0    | 4    | 1     | 0    | 5          | 7          |
| Total                |                        | 0    | 0    | 0     | 0    | 0                                     | 0    | 0    | 1     | 0    | 1                           | 0    | 15   | 0     | 0    | 15                          | 0    | 17   | 4     | 0    | 21         | 37         |
| 03:00 PM             | 0                      | 0    | 0    | 0     | 0    | 0                                     | 0    | 0    | 0     | 0    | 0                           | 0    | 3    | 0     | 1    | 4                           | 0    | 2    | 1     | 0    | 3          | 7          |
| 03:15 PM             | 0                      | 0    | 0    | 0     | 0    | 0                                     | 0    | 0    | 0     | 0    | 0                           | 0    | 4    | 0     | 0    | 4                           | 0    | 6    | 1     | 0    | 7          | 11         |
| 03:30 PM             | 0                      | 0    | 0    | 0     | 0    | 0                                     | 0    | 0    | 1     | 1    | 0                           | 0    | 1    | 0     | 0    | 1                           | 0    | 4    | 1     | 0    | 5          | 7          |
| 03:45 PM             | 0                      | 0    | 0    | 0     | 0    | 0                                     | 0    | 0    | 0     | 0    | 0                           | 0    | 3    | 0     | 0    | 3                           | 0    | 4    | 1     | 0    | 5          | 8          |
| Total                |                        | 0    | 0    | 0     | 0    | 0                                     | 0    | 0    | 1     | 1    | 0                           | 0    | 11   | 0     | 1    | 12                          | 0    | 16   | 4     | 0    | 20         | 33         |
| 04:00 PM             | 0                      | 0    | 0    | 0     | 0    | 0                                     | 0    | 0    | 0     | 0    | 0                           | 0    | 2    | 0     | 0    | 2                           | 0    | 4    | 0     | 0    | 4          | 6          |
| 04:15 PM             | 0                      | 0    | 0    | 0     | 0    | 0                                     | 0    | 0    | 0     | 0    | 0                           | 0    | 2    | 0     | 0    | 2                           | 0    | 4    | 2     | 0    | 6          | 8          |
| 04:30 PM             | 0                      | 0    | 0    | 0     | 0    | 0                                     | 0    | 0    | 0     | 0    | 0                           | 0    | 3    | 0     | 0    | 3                           | 0    | 2    | 1     | 0    | 3          | 6          |
| 04:45 PM             | 0                      | 0    | 0    | 0     | 0    | 0                                     | 0    | 0    | 0     | 0    | 0                           | 0    | 2    | 0     | 0    | 2                           | 0    | 1    | 1     | 0    | 2          | 4          |
| Total                |                        | 0    | 0    | 0     | 0    | 0                                     | 0    | 0    | 0     | 0    | 0                           | 0    | 9    | 0     | 0    | 9                           | 0    | 11   | 4     | 0    | 15         | 24         |
| 05:00 PM             | 0                      | 0    | 0    | 0     | 0    | 0                                     | 0    | 0    | 0     | 0    | 0                           | 0    | 1    | 0     | 0    | 1                           | 0    | 3    | 1     | 0    | 4          | 5          |
| 05:15 PM             | 0                      | 0    | 0    | 0     | 0    | 0                                     | 0    | 0    | 1     | 1    | 0                           | 1    | 0    | 0     | 1    | 0                           | 1    | 1    | 1     | 0    | 2          | 4          |
| 05:30 PM             | 0                      | 0    | 0    | 0     | 0    | 0                                     | 0    | 0    | 0     | 0    | 0                           | 0    | 0    | 0     | 0    | 0                           | 0    | 1    | 2     | 0    | 3          | 3          |
| 05:45 PM             | 0                      | 0    | 0    | 0     | 0    | 0                                     | 0    | 0    | 0     | 0    | 0                           | 0    | 1    | 0     | 0    | 1                           | 0    | 1    | 0     | 0    | 1          | 2          |
| Total                |                        | 0    | 0    | 0     | 0    | 0                                     | 0    | 0    | 1     | 1    | 0                           | 0    | 3    | 0     | 0    | 3                           | 0    | 6    | 4     | 0    | 10         | 14         |
| Grand Total          |                        | 0    | 0    | 0     | 0    | 0                                     | 0    | 0    | 1     | 2    | 3                           | 3    | 103  | 0     | 3    | 109                         | 0    | 98   | 27    | 1    | 126        | 238        |
| Apprch %             |                        | 0    | 0    | 0     | 0    | 0                                     | 0    | 0    | 33.3  | 66.7 | 2.8                         | 2.8  | 94.5 | 0     | 2.8  | 0                           | 0    | 77.8 | 21.4  | 0.8  |            |            |
| Total %              |                        | 0    | 0    | 0     | 0    | 0                                     | 0    | 0    | 0.4   | 0.8  | 1.3                         | 1.3  | 43.3 | 0     | 1.3  | 45.8                        | 0    | 41.2 | 11.3  | 0.4  | 52.9       |            |

|   | DRIVEWAY<br>Northbound |      |      |       |      | MOLLYS SEAFOOD<br>SHACK<br>Southbound |      |      |       |      | STATE ROAD 520<br>Eastbound |      |      |       |      | STATE ROAD 520<br>Westbound |      |      |       |      |            |            |
|---|------------------------|------|------|-------|------|---------------------------------------|------|------|-------|------|-----------------------------|------|------|-------|------|-----------------------------|------|------|-------|------|------------|------------|
|   | Start Time             | Left | Thru | Right | Peds | App. Total                            | Left | Thru | Right | Peds | App. Total                  | Left | Thru | Right | Peds | App. Total                  | Left | Thru | Right | Peds | App. Total | Int. Total |
| <b>Peak Hour Analysis From 07:00 AM to 09:45 AM - Peak 1 of 1</b> |                        |      |      |       |      |                                       |      |      |       |      |                             |      |      |       |      |                             |      |      |       |      |            |            |
| <b>Peak Hour for Entire Intersection Begins at 07:30 AM</b>       |                        |      |      |       |      |                                       |      |      |       |      |                             |      |      |       |      |                             |      |      |       |      |            |            |
| 07:30 AM  | 0                      | 0    | 0    | 0     | 0    | 0                                     | 0    | 0    | 0     | 0    | 0                           | 0    | 6    | 0     | 0    | 6                           | 0    | 4    | 1     | 0    | 5          | 11         |
| 07:45 AM  | 0                      | 0    | 0    | 0     | 0    | 0                                     | 0    | 0    | 0     | 0    | 0                           | 0    | 6    | 0     | 0    | 6                           | 0    | 4    | 0     | 1    | 5          | 11         |
| 08:00 AM  | 0                      | 0    | 0    | 0     | 0    | 0                                     | 0    | 0    | 0     | 0    | 0                           | 0    | 2    | 0     | 0    | 2                           | 0    | 1    | 1     | 0    | 2          | 4          |
| 08:15 AM  | 0                      | 0    | 0    | 0     | 0    | 0                                     | 0    | 0    | 0     | 0    | 0                           | 0    | 8    | 0     | 1    | 9                           | 0    | 1    | 1     | 0    | 2          | 11         |
| Total Volume  | 0                      | 0    | 0    | 0     | 0    | 0                                     | 0    | 0    | 0     | 0    | 0                           | 0    | 22   | 0     | 1    | 23                          | 0    | 10   | 3     | 1    | 14         | 37         |
| % App. Total  | 0                      | 0    | 0    | 0     | 0    | 0                                     | 0    | 0    | 0     | 0    | 0                           | 0    | 95.7 | 0     | 4.3  | 0                           | 71.4 | 21.4 | 7.1   |      |            |            |
| PHF   | .000                   | .000 | .000 | .000  | .000 | .000                                  | .000 | .000 | .000  | .000 | .000                        | .000 | .688 | .000  | .250 | .639                        | .000 | .625 | .750  | .250 | .700       | .841       |

Peak Hour Analysis From 07:00 AM to 09:45 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

|              | 07:00 AM             | 07:00 AM             | 07:30 AM             | 07:00 AM             |
|--------------|----------------------|----------------------|----------------------|----------------------|
| +0 mins.     | 0 0 0 0 0            | 0 0 0 0 0            | 0 6 0 0 6            | 0 2 0 0 2            |
| +15 mins.    | 0 0 0 0 0            | 0 0 0 0 0            | 0 6 0 0 6            | 0 2 0 0 2            |
| +30 mins.    | 0 0 0 0 0            | 0 0 0 0 0            | 0 2 0 0 2            | 0 4 1 0 5            |
| +45 mins.    | 0 0 0 0 0            | 0 0 0 0 0            | 0 8 0 1 9            | 0 4 0 1 5            |
| Total Volume | 0 0 0 0 0            | 0 0 0 0 0            | 0 22 0 1 23          | 0 12 1 1 14          |
| % App. Total | 0 0 0 0 0            | 0 0 0 0 0            | 0 95.7 0 4.3 0       | 0 85.7 7.1 7.1 0     |
| PHF          | .00 .00 .00 .00 .000 | .00 .00 .00 .00 .000 | .00 .68 .00 .25 .639 | .00 .75 .25 .25 .700 |

Peak Hour Analysis From 10:00 AM to 01:45 PM - Peak 1 of 1

Peak Hour for Entire Intersection Begins at 12:00 PM

|              | 12:00 PM                 | 12:00 PM                 | 12:00 PM                 | 12:00 PM                 |
|--------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 12:00 PM     | 0 0 0 0 0                | 0 0 0 0 0                | 0 5 0 0 5                | 0 6 1 0 7                |
| 12:15 PM     | 0 0 0 0 0                | 0 0 0 0 0                | 0 3 0 0 3                | 0 3 1 0 4                |
| 12:30 PM     | 0 0 0 0 0                | 0 0 0 0 0                | 0 3 0 0 3                | 0 2 1 0 3                |
| 12:45 PM     | 0 0 0 0 0                | 0 0 0 0 0                | 0 6 0 0 6                | 0 2 0 0 2                |
| Total Volume | 0 0 0 0 0                | 0 0 0 0 0                | 0 17 0 0 17              | 0 13 3 0 16              |
| % App. Total | 0 0 0 0 0                | 0 0 0 0 0                | 0 100 0 0 0              | 0 81.2 18.8 0 0          |
| PHF          | .000 .000 .000 .000 .000 | .000 .000 .000 .000 .000 | .000 .708 .000 .000 .708 | .000 .542 .750 .000 .571 |

Peak Hour Analysis From 10:00 AM to 01:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

|              | 10:00 AM             | 10:00 AM             | 12:00 PM             | 12:00 PM             |
|--------------|----------------------|----------------------|----------------------|----------------------|
| +0 mins.     | 0 0 0 0 0            | 0 0 0 0 0            | 0 5 0 0 5            | 0 6 1 0 7            |
| +15 mins.    | 0 0 0 0 0            | 0 0 0 0 0            | 0 3 0 0 3            | 0 3 1 0 4            |
| +30 mins.    | 0 0 0 0 0            | 0 0 0 0 0            | 0 3 0 0 3            | 0 2 1 0 3            |
| +45 mins.    | 0 0 0 0 0            | 0 0 0 0 0            | 0 6 0 0 6            | 0 2 0 0 2            |
| Total Volume | 0 0 0 0 0            | 0 0 0 0 0            | 0 17 0 0 17          | 0 13 3 0 16          |
| % App. Total | 0 0 0 0 0            | 0 0 0 0 0            | 0 100 0 0 0          | 0 81.2 18.8 0 0      |
| PHF          | .00 .00 .00 .00 .000 | .00 .00 .00 .00 .000 | .00 .70 .00 .00 .708 | .00 .54 .75 .00 .571 |

Peak Hour Analysis From 02:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Entire Intersection Begins at 02:00 PM

|              | 02:00 PM                 | 02:00 PM                 | 02:00 PM                 | 02:00 PM                 |
|--------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 02:00 PM     | 0 0 0 0 0                | 0 0 1 0 1                | 0 9 0 0 9                | 0 5 1 0 6                |
| 02:15 PM     | 0 0 0 0 0                | 0 0 0 0 0                | 0 2 0 0 2                | 0 4 1 0 5                |
| 02:30 PM     | 0 0 0 0 0                | 0 0 0 0 0                | 0 2 0 0 2                | 0 4 1 0 5                |
| 02:45 PM     | 0 0 0 0 0                | 0 0 0 0 0                | 0 2 0 0 2                | 0 4 1 0 5                |
| Total Volume | 0 0 0 0 0                | 0 0 1 0 1                | 0 15 0 0 15              | 0 17 4 0 21              |
| % App. Total | 0 0 0 0 0                | 0 0 100 0 0              | 0 100 0 0 0              | 0 81 19 0 0              |
| PHF          | .000 .000 .000 .000 .000 | .000 .000 .250 .000 .250 | .000 .417 .000 .000 .417 | .000 .850 1.00 .000 .875 |

Peak Hour Analysis From 02:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

|              | 02:00 PM             | 02:00 PM             | 02:00 PM             | 02:00 PM             |
|--------------|----------------------|----------------------|----------------------|----------------------|
| +0 mins.     | 0 0 0 0 0            | 0 0 1 0 1            | 0 9 0 0 9            | 0 5 1 0 6            |
| +15 mins.    | 0 0 0 0 0            | 0 0 0 0 0            | 0 2 0 0 2            | 0 4 1 0 5            |
| +30 mins.    | 0 0 0 0 0            | 0 0 0 0 0            | 0 2 0 0 2            | 0 4 1 0 5            |
| +45 mins.    | 0 0 0 0 0            | 0 0 0 0 0            | 0 2 0 0 2            | 0 4 1 0 5            |
| Total Volume | 0 0 0 0 0            | 0 0 1 0 1            | 0 15 0 0 15          | 0 17 4 0 21          |
| % App. Total | 0 0 0 0 0            | 0 0 100 0 0          | 0 100 0 0 0          | 0 81 19 0 0          |
| PHF          | .00 .00 .00 .00 .000 | .00 .00 .25 .00 .250 | .00 .41 .00 .00 .417 | .00 .85 .00 .00 .875 |

File Name : TMC  
 Site Code : 00000000  
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Groups Printed- UTURNS

|                      | DRIVEWAY<br>Northbound |      |       |      |            | MOLLYS SEAFOOD<br>SHACK<br>Southbound |      |       |      |            | STATE ROAD 520<br>Eastbound |      |       |      |            | STATE ROAD 520<br>Westbound |      |       |      |            |            |
|----------------------|------------------------|------|-------|------|------------|---------------------------------------|------|-------|------|------------|-----------------------------|------|-------|------|------------|-----------------------------|------|-------|------|------------|------------|
| Start Time           | Left                   | Thru | Right | Peds | App. Total | Left                                  | Thru | Right | Peds | App. Total | Left                        | Thru | Right | Peds | App. Total | Left                        | Thru | Right | Peds | App. Total | Int. Total |
| <b>*** BREAK ***</b> |                        |      |       |      |            |                                       |      |       |      |            |                             |      |       |      |            |                             |      |       |      |            |            |
| 08:15 AM             | 0                      | 0    | 0     | 0    | 0          | 0                                     | 0    | 0     | 0    | 0          | 1                           | 0    | 0     | 0    | 1          | 0                           | 0    | 0     | 0    | 0          |            |
| <b>*** BREAK ***</b> |                        |      |       |      |            |                                       |      |       |      |            |                             |      |       |      |            |                             |      |       |      |            |            |
| Total                | 0                      | 0    | 0     | 0    | 0          | 0                                     | 0    | 0     | 0    | 0          | 1                           | 0    | 0     | 0    | 1          | 0                           | 0    | 0     | 0    | 1          |            |
| <b>*** BREAK ***</b> |                        |      |       |      |            |                                       |      |       |      |            |                             |      |       |      |            |                             |      |       |      |            |            |
| 02:15 PM             | 0                      | 0    | 0     | 0    | 0          | 0                                     | 0    | 0     | 0    | 0          | 1                           | 0    | 0     | 0    | 1          | 0                           | 0    | 0     | 0    | 1          |            |
| 02:30 PM             | 0                      | 0    | 0     | 0    | 0          | 0                                     | 0    | 0     | 0    | 0          | 1                           | 0    | 0     | 0    | 1          | 0                           | 0    | 0     | 0    | 1          |            |
| <b>*** BREAK ***</b> |                        |      |       |      |            |                                       |      |       |      |            |                             |      |       |      |            |                             |      |       |      |            |            |
| Total                | 0                      | 0    | 0     | 0    | 0          | 0                                     | 0    | 0     | 0    | 0          | 2                           | 0    | 0     | 0    | 2          | 0                           | 0    | 0     | 0    | 2          |            |
| <b>*** BREAK ***</b> |                        |      |       |      |            |                                       |      |       |      |            |                             |      |       |      |            |                             |      |       |      |            |            |
| 05:00 PM             | 0                      | 0    | 0     | 0    | 0          | 0                                     | 0    | 0     | 0    | 0          | 1                           | 0    | 0     | 0    | 1          | 0                           | 0    | 0     | 0    | 1          |            |
| <b>*** BREAK ***</b> |                        |      |       |      |            |                                       |      |       |      |            |                             |      |       |      |            |                             |      |       |      |            |            |
| 05:30 PM             | 0                      | 0    | 0     | 0    | 0          | 0                                     | 0    | 0     | 0    | 0          | 1                           | 0    | 0     | 0    | 1          | 0                           | 0    | 0     | 0    | 1          |            |
| <b>*** BREAK ***</b> |                        |      |       |      |            |                                       |      |       |      |            |                             |      |       |      |            |                             |      |       |      |            |            |
| Total                | 0                      | 0    | 0     | 0    | 0          | 0                                     | 0    | 0     | 0    | 0          | 2                           | 0    | 0     | 0    | 2          | 0                           | 0    | 0     | 0    | 2          |            |
| Grand Total          | 0                      | 0    | 0     | 0    | 0          | 0                                     | 0    | 0     | 0    | 0          | 5                           | 0    | 0     | 0    | 5          | 0                           | 0    | 0     | 0    | 5          |            |
| Apprch %             | 0                      | 0    | 0     | 0    | 0          | 0                                     | 0    | 0     | 0    | 0          | 100                         | 0    | 0     | 0    | 100        | 0                           | 0    | 0     | 0    | 0          |            |
| Total %              | 0                      | 0    | 0     | 0    | 0          | 0                                     | 0    | 0     | 0    | 0          | 100                         | 0    | 0     | 0    | 100        | 0                           | 0    | 0     | 0    | 0          |            |

|  | DRIVEWAY<br>Northbound |      |       |      |            | MOLLYS SEAFOOD<br>SHACK<br>Southbound |      |       |      |            | STATE ROAD 520<br>Eastbound |      |       |      |            | STATE ROAD 520<br>Westbound |      |       |      |            |            |
|--|------------------------|------|-------|------|------------|---------------------------------------|------|-------|------|------------|-----------------------------|------|-------|------|------------|-----------------------------|------|-------|------|------------|------------|
| Start Time   | Left                   | Thru | Right | Peds | App. Total | Left                                  | Thru | Right | Peds | App. Total | Left                        | Thru | Right | Peds | App. Total | Left                        | Thru | Right | Peds | App. Total | Int. Total |
| Peak Hour Analysis From 07:00 AM to 09:45 AM - Peak 1 of 1 |                        |      |       |      |            |                                       |      |       |      |            |                             |      |       |      |            |                             |      |       |      |            |            |
| Peak Hour for Entire Intersection Begins at 07:30 AM       |                        |      |       |      |            |                                       |      |       |      |            |                             |      |       |      |            |                             |      |       |      |            |            |
| 07:30 AM   | 0                      | 0    | 0     | 0    | 0          | 0                                     | 0    | 0     | 0    | 0          | 0                           | 0    | 0     | 0    | 0          | 0                           | 0    | 0     | 0    | 0          |            |
| 07:45 AM   | 0                      | 0    | 0     | 0    | 0          | 0                                     | 0    | 0     | 0    | 0          | 0                           | 0    | 0     | 0    | 0          | 0                           | 0    | 0     | 0    | 0          |            |
| 08:00 AM   | 0                      | 0    | 0     | 0    | 0          | 0                                     | 0    | 0     | 0    | 0          | 0                           | 0    | 0     | 0    | 0          | 0                           | 0    | 0     | 0    | 0          |            |
| 08:15 AM   | 0                      | 0    | 0     | 0    | 0          | 0                                     | 0    | 0     | 0    | 0          | 1                           | 0    | 0     | 0    | 1          | 0                           | 0    | 0     | 0    | 1          |            |
| Total Volume   | 0                      | 0    | 0     | 0    | 0          | 0                                     | 0    | 0     | 0    | 0          | 1                           | 0    | 0     | 0    | 1          | 0                           | 0    | 0     | 0    | 1          |            |
| % App. Total   | 0                      | 0    | 0     | 0    | 0          | 0                                     | 0    | 0     | 0    | 0          | 100                         | 0    | 0     | 0    | 100        | 0                           | 0    | 0     | 0    | 0          |            |
| PHF  | .000                   | .000 | .000  | .000 | .000       | .000                                  | .000 | .000  | .000 | .000       | .250                        | .000 | .000  | .000 | .250       | .000                        | .000 | .000  | .000 | .250       |            |

Peak Hour Analysis From 07:00 AM to 09:45 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

|              | 07:00 AM |     | 07:30 AM | 07:00 AM |
|--------------|----------|-----|----------|----------|
| +0 mins.     | 0        | 0   | 0        | 0        |
| +15 mins.    | 0        | 0   | 0        | 0        |
| +30 mins.    | 0        | 0   | 0        | 0        |
| +45 mins.    | 0        | 0   | 0        | 0        |
| Total Volume | 0        | 0   | 0        | 0        |
| % App. Total | 0        | 0   | 0        | 0        |
| PHF          | .00      | .00 | .00      | .00      |
|              | 0        | 0   | 0        | 0        |

Peak Hour Analysis From 10:00 AM to 01:45 PM - Peak 1 of 1

Peak Hour for Entire Intersection Begins at 10:00 AM

|              | 10:00 AM |      | 10:15 AM | 10:30 AM | 10:45 AM |
|--------------|----------|------|----------|----------|----------|
| 10:00 AM     | 0        | 0    | 0        | 0        | 0        |
| 10:15 AM     | 0        | 0    | 0        | 0        | 0        |
| 10:30 AM     | 0        | 0    | 0        | 0        | 0        |
| 10:45 AM     | 0        | 0    | 0        | 0        | 0        |
| Total Volume | 0        | 0    | 0        | 0        | 0        |
| % App. Total | 0        | 0    | 0        | 0        | 0        |
| PHF          | .000     | .000 | .000     | .000     | .000     |
|              | 0        | 0    | 0        | 0        | 0        |

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|            | DRIVEWAY<br>Northbound |      |       |      | MOLLYS SEAFOOD<br>SHACK<br>Southbound |      |      |       | STATE ROAD 520<br>Eastbound |            |      |      | STATE ROAD 520<br>Westbound |      |            |      |      |       |      |            |            |
|------------|------------------------|------|-------|------|---------------------------------------|------|------|-------|-----------------------------|------------|------|------|-----------------------------|------|------------|------|------|-------|------|------------|------------|
| Start Time | Left                   | Thru | Right | Peds | App. Total                            | Left | Thru | Right | Peds                        | App. Total | Left | Thru | Right                       | Peds | App. Total | Left | Thru | Right | Peds | App. Total | Int. Total |

Peak Hour Analysis From 10:00 AM to 01:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

|              | 10:00 AM | 10:00 AM | 10:00 AM | 10:00 AM |
|--------------|----------|----------|----------|----------|
| +0 mins.     | 0        | 0        | 0        | 0        |
| +15 mins.    | 0        | 0        | 0        | 0        |
| +30 mins.    | 0        | 0        | 0        | 0        |
| +45 mins.    | 0        | 0        | 0        | 0        |
| Total Volume | 0        | 0        | 0        | 0        |
| % App. Total | 0        | 0        | 0        | 0        |
| PHF          | .000     | .000     | .000     | .000     |

Peak Hour Analysis From 02:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Entire Intersection Begins at 02:00 PM

|              | 02:00 PM | 02:15 PM | 02:30 PM | 02:45 PM | 03:00 PM | 03:15 PM | 03:30 PM | 03:45 PM | 04:00 PM | 04:15 PM | 04:30 PM | 04:45 PM | 05:00 PM | 05:15 PM | 05:30 PM | 05:45 PM |
|--------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| +0 mins.     | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| +15 mins.    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 1        | 0        | 0        | 0        | 1        | 0        | 0        | 0        |
| +30 mins.    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 1        | 0        | 0        | 0        | 1        | 0        | 0        | 0        |
| +45 mins.    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| Total Volume | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 2        | 0        | 0        | 0        | 2        | 0        | 0        | 0        |
| % App. Total | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 100      | 0        | 0        | 0        | 100      | 0        | 0        | 0        |
| PHF          | .000     | .000     | .000     | .000     | .000     | .000     | .000     | .000     | .500     | .000     | .000     | .000     | .500     | .000     | .000     | .000     |

Peak Hour Analysis From 02:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

|              | 02:00 PM | 02:15 PM | 02:30 PM | 02:45 PM | 03:00 PM | 03:15 PM | 03:30 PM | 03:45 PM | 04:00 PM | 04:15 PM | 04:30 PM | 04:45 PM | 05:00 PM | 05:15 PM | 05:30 PM | 05:45 PM |
|--------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| +0 mins.     | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| +15 mins.    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 1        | 0        | 0        | 0        | 1        | 0        | 0        | 0        |
| +30 mins.    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 1        | 0        | 0        | 0        | 1        | 0        | 0        | 0        |
| +45 mins.    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| Total Volume | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 2        | 0        | 0        | 0        | 2        | 0        | 0        | 0        |
| % App. Total | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 100      | 0        | 0        | 0        | 100      | 0        | 0        | 0        |
| PHF          | .000     | .000     | .000     | .000     | .000     | .000     | .000     | .000     | .500     | .000     | .000     | .000     | .500     | .000     | .000     | .000     |

Groups Printed- All Vehicles

|                      | NORTH BANANA RIVER |      |       |      |            | NORTH BANANA RIVER |      |       |      |            | STATE ROAD 520 |      |       |      |            | STATE ROAD 520 |      |       |      |            |            |
|----------------------|--------------------|------|-------|------|------------|--------------------|------|-------|------|------------|----------------|------|-------|------|------------|----------------|------|-------|------|------------|------------|
|                      | DR                 |      |       |      | Northbound | DR                 |      |       |      | Southbound | Eastbound      |      |       |      | Westbound  |                |      |       |      |            |            |
| Start Time           | Left               | Thru | Right | Peds | App. Total | Left               | Thru | Right | Peds | App. Total | Left           | Thru | Right | Peds | App. Total | Left           | Thru | Right | Peds | App. Total | Int. Total |
| 07:00 AM             | 0                  | 0    | 0     | 0    | 0          | 17                 | 0    | 19    | 0    | 36         | 8              | 92   | 0     | 1    | 101        | 0              | 115  | 18    | 0    | 133        | 270        |
| 07:15 AM             | 0                  | 0    | 0     | 0    | 0          | 28                 | 1    | 21    | 0    | 50         | 23             | 119  | 1     | 0    | 143        | 0              | 125  | 24    | 0    | 149        | 342        |
| 07:30 AM             | 0                  | 0    | 0     | 0    | 0          | 22                 | 2    | 20    | 0    | 44         | 19             | 181  | 2     | 0    | 202        | 3              | 167  | 26    | 0    | 196        | 442        |
| 07:45 AM             | 3                  | 0    | 1     | 0    | 4          | 29                 | 0    | 41    | 0    | 70         | 20             | 177  | 5     | 0    | 202        | 0              | 170  | 15    | 0    | 185        | 461        |
| Total                | 3                  | 0    | 1     | 0    | 4          | 96                 | 3    | 101   | 0    | 200        | 70             | 569  | 8     | 1    | 648        | 3              | 577  | 83    | 0    | 663        | 1515       |
| 08:00 AM             | 2                  | 0    | 1     | 0    | 3          | 38                 | 2    | 40    | 0    | 80         | 26             | 178  | 8     | 1    | 213        | 1              | 180  | 16    | 0    | 197        | 493        |
| 08:15 AM             | 3                  | 1    | 0     | 0    | 4          | 27                 | 2    | 39    | 0    | 68         | 26             | 180  | 5     | 2    | 213        | 0              | 176  | 16    | 0    | 192        | 477        |
| 08:30 AM             | 2                  | 0    | 0     | 0    | 2          | 22                 | 3    | 28    | 0    | 53         | 22             | 169  | 3     | 1    | 195        | 1              | 182  | 18    | 0    | 201        | 451        |
| 08:45 AM             | 1                  | 2    | 1     | 0    | 4          | 28                 | 3    | 42    | 0    | 73         | 33             | 162  | 6     | 0    | 201        | 1              | 193  | 16    | 0    | 210        | 488        |
| Total                | 8                  | 3    | 2     | 0    | 13         | 115                | 10   | 149   | 0    | 274        | 107            | 689  | 22    | 4    | 822        | 3              | 731  | 66    | 0    | 800        | 1909       |
| <b>*** BREAK ***</b> |                    |      |       |      |            |                    |      |       |      |            |                |      |       |      |            |                |      |       |      |            |            |
| 12:00 PM             | 6                  | 1    | 1     | 0    | 8          | 27                 | 1    | 35    | 0    | 63         | 27             | 237  | 4     | 1    | 269        | 1              | 225  | 26    | 0    | 252        | 592        |
| 12:15 PM             | 3                  | 0    | 0     | 0    | 3          | 18                 | 2    | 45    | 0    | 65         | 39             | 209  | 2     | 1    | 251        | 1              | 281  | 31    | 0    | 313        | 632        |
| 12:30 PM             | 3                  | 1    | 2     | 0    | 6          | 23                 | 1    | 45    | 0    | 69         | 33             | 244  | 2     | 0    | 279        | 1              | 241  | 33    | 0    | 275        | 629        |
| 12:45 PM             | 3                  | 0    | 1     | 0    | 4          | 30                 | 0    | 39    | 0    | 69         | 36             | 266  | 7     | 0    | 309        | 0              | 289  | 18    | 0    | 307        | 689        |
| Total                | 15                 | 2    | 4     | 0    | 21         | 98                 | 4    | 164   | 0    | 266        | 135            | 956  | 15    | 2    | 1108       | 3              | 1036 | 108   | 0    | 1147       | 2542       |
| 01:00 PM             | 5                  | 0    | 2     | 0    | 7          | 25                 | 0    | 40    | 0    | 65         | 39             | 241  | 4     | 0    | 284        | 2              | 245  | 29    | 0    | 276        | 632        |
| 01:15 PM             | 2                  | 0    | 2     | 1    | 5          | 20                 | 2    | 47    | 0    | 69         | 46             | 255  | 4     | 0    | 305        | 4              | 268  | 30    | 1    | 303        | 682        |
| 01:30 PM             | 4                  | 0    | 1     | 0    | 5          | 20                 | 1    | 49    | 0    | 70         | 39             | 267  | 3     | 0    | 309        | 3              | 290  | 22    | 0    | 315        | 699        |
| 01:45 PM             | 7                  | 0    | 3     | 0    | 10         | 35                 | 0    | 46    | 0    | 81         | 46             | 256  | 6     | 0    | 308        | 1              | 261  | 36    | 0    | 298        | 697        |
| Total                | 18                 | 0    | 8     | 1    | 27         | 100                | 3    | 182   | 0    | 285        | 170            | 1019 | 17    | 0    | 1206       | 10             | 1064 | 117   | 1    | 1192       | 2710       |
| 02:00 PM             | 2                  | 1    | 1     | 0    | 4          | 15                 | 1    | 42    | 0    | 58         | 39             | 223  | 3     | 0    | 265        | 2              | 273  | 24    | 1    | 300        | 627        |
| 02:15 PM             | 2                  | 1    | 4     | 0    | 7          | 20                 | 0    | 29    | 1    | 50         | 46             | 270  | 2     | 0    | 318        | 2              | 271  | 31    | 0    | 304        | 679        |
| 02:30 PM             | 3                  | 0    | 1     | 0    | 4          | 24                 | 0    | 46    | 0    | 70         | 31             | 298  | 1     | 0    | 330        | 1              | 237  | 22    | 0    | 260        | 664        |
| 02:45 PM             | 0                  | 0    | 1     | 0    | 1          | 26                 | 1    | 44    | 2    | 73         | 38             | 257  | 3     | 0    | 298        | 2              | 243  | 19    | 0    | 264        | 636        |
| Total                | 7                  | 2    | 7     | 0    | 16         | 85                 | 2    | 161   | 3    | 251        | 154            | 1048 | 9     | 0    | 1211       | 7              | 1024 | 96    | 1    | 1128       | 2606       |
| 03:00 PM             | 3                  | 2    | 1     | 0    | 6          | 24                 | 0    | 30    | 0    | 54         | 42             | 270  | 3     | 0    | 315        | 2              | 267  | 29    | 0    | 298        | 673        |
| 03:15 PM             | 4                  | 0    | 0     | 0    | 4          | 19                 | 0    | 43    | 0    | 62         | 40             | 269  | 2     | 0    | 311        | 2              | 240  | 32    | 0    | 274        | 651        |
| 03:30 PM             | 2                  | 3    | 3     | 0    | 8          | 29                 | 2    | 55    | 0    | 86         | 52             | 254  | 2     | 1    | 309        | 2              | 265  | 33    | 0    | 300        | 703        |
| 03:45 PM             | 3                  | 1    | 2     | 0    | 6          | 31                 | 0    | 56    | 1    | 88         | 37             | 272  | 1     | 0    | 310        | 2              | 233  | 25    | 0    | 260        | 664        |
| Total                | 12                 | 6    | 6     | 0    | 24         | 103                | 2    | 184   | 1    | 290        | 171            | 1065 | 8     | 1    | 1245       | 8              | 1005 | 119   | 0    | 1132       | 2691       |
| 04:00 PM             | 0                  | 0    | 3     | 2    | 5          | 27                 | 0    | 56    | 0    | 83         | 35             | 223  | 3     | 0    | 261        | 0              | 246  | 43    | 0    | 289        | 638        |
| 04:15 PM             | 2                  | 1    | 1     | 0    | 4          | 21                 | 0    | 47    | 0    | 68         | 40             | 315  | 4     | 0    | 359        | 2              | 205  | 33    | 0    | 240        | 671        |
| 04:30 PM             | 7                  | 1    | 4     | 0    | 12         | 31                 | 1    | 56    | 1    | 89         | 41             | 221  | 3     | 0    | 265        | 0              | 237  | 31    | 0    | 268        | 634        |
| 04:45 PM             | 2                  | 1    | 2     | 0    | 5          | 23                 | 0    | 48    | 1    | 72         | 45             | 242  | 0     | 0    | 287        | 2              | 214  | 30    | 0    | 246        | 610        |
| Total                | 11                 | 3    | 10    | 2    | 26         | 102                | 1    | 207   | 2    | 312        | 161            | 1001 | 10    | 0    | 1172       | 4              | 902  | 137   | 0    | 1043       | 2553       |
| 05:00 PM             | 2                  | 1    | 0     | 0    | 3          | 46                 | 0    | 59    | 0    | 105        | 50             | 280  | 3     | 0    | 333        | 2              | 284  | 31    | 0    | 317        | 758        |
| 05:15 PM             | 5                  | 4    | 2     | 0    | 11         | 32                 | 0    | 53    | 1    | 86         | 54             | 228  | 1     | 1    | 284        | 0              | 213  | 31    | 0    | 244        | 625        |
| 05:30 PM             | 4                  | 1    | 0     | 0    | 5          | 23                 | 0    | 52    | 0    | 75         | 49             | 210  | 1     | 0    | 260        | 0              | 206  | 39    | 0    | 245        | 585        |
| 05:45 PM             | 1                  | 5    | 0     | 0    | 6          | 29                 | 0    | 40    | 0    | 69         | 38             | 232  | 0     | 0    | 270        | 1              | 198  | 34    | 0    | 233        | 578        |
| Total                | 12                 | 11   | 2     | 0    | 25         | 130                | 0    | 204   | 1    | 335        | 191            | 950  | 5     | 1    | 1147       | 3              | 901  | 135   | 0    | 1039       | 2546       |
| Grand Total          | 86                 | 27   | 40    | 3    | 156        | 829                | 25   | 1352  | 7    | 2213       | 1159           | 7297 | 94    | 9    | 8559       | 41             | 7240 | 861   | 2    | 8144       | 19072      |
| Apprch %             | 55.1               | 17.3 | 25.6  | 1.9  |            | 37.5               | 1.1  | 61.1  | 0.3  |            | 13.5           | 85.3 | 1.1   | 0.1  |            | 0.5            | 88.9 | 10.6  | 0    |            |            |
| Total %              | 0.5                | 0.1  | 0.2   | 0    |            | 0.8                | 4.3  | 0.1   | 7.1  | 0          | 11.6           | 6.1  | 38.3  | 0.5  | 0          | 44.9           | 0.2  | 38    | 4.5  | 0          | 42.7       |

|   | NORTH BANANA RIVER DR Northbound |      |      |       |      | NORTH BANANA RIVER DR Southbound |      |      |       |      | STATE ROAD 520 Eastbound |      |      |       |      | STATE ROAD 520 Westbound |      |      |       |      |            |
|---|----------------------------------|------|------|-------|------|----------------------------------|------|------|-------|------|--------------------------|------|------|-------|------|--------------------------|------|------|-------|------|------------|
|   | Start Time                       | Left | Thru | Right | Peds | App. Total                       | Left | Thru | Right | Peds | App. Total               | Left | Thru | Right | Peds | App. Total               | Left | Thru | Right | Peds | App. Total |
| <b>Peak Hour Analysis From 07:00 AM to 09:45 AM - Peak 1 of 1</b> |                                  |      |      |       |      |                                  |      |      |       |      |                          |      |      |       |      |                          |      |      |       |      |            |
| <b>Peak Hour for Entire Intersection Begins at 08:00 AM</b>       |                                  |      |      |       |      |                                  |      |      |       |      |                          |      |      |       |      |                          |      |      |       |      |            |
| 08:00 AM  | 2                                | 0    | 1    | 0     | 3    | 38                               | 2    | 40   | 0     | 80   | 26                       | 178  | 8    | 1     | 213  | 1                        | 180  | 16   | 0     | 197  | 493        |
| 08:15 AM  | 3                                | 1    | 0    | 0     | 4    | 27                               | 2    | 39   | 0     | 68   | 26                       | 180  | 5    | 2     | 213  | 0                        | 176  | 16   | 0     | 192  | 477        |
| 08:30 AM  | 2                                | 0    | 0    | 0     | 2    | 22                               | 3    | 28   | 0     | 53   | 22                       | 169  | 3    | 1     | 195  | 1                        | 182  | 18   | 0     | 201  | 451        |
| 08:45 AM  | 1                                | 2    | 1    | 0     | 4    | 28                               | 3    | 42   | 0     | 73   | 33                       | 162  | 6    | 0     | 201  | 1                        | 193  | 16   | 0     | 210  | 488        |
| Total Volume  | 8                                | 3    | 2    | 0     | 13   | 115                              | 10   | 149  | 0     | 274  | 107                      | 689  | 22   | 4     | 822  | 3                        | 731  | 66   | 0     | 800  | 1909       |
| % App. Total  | 61.5                             | 23.1 | 15.4 | 0     |      | 42                               | 3.6  | 54.4 | 0     |      | 13                       | 83.8 | 2.7  | 0.5   |      | 0.4                      | 91.4 | 8.2  | 0     |      |            |
| PHF   | .667                             | .375 | .500 | .000  | .813 | .757                             | .833 | .887 | .000  | .856 | .811                     | .957 | .688 | .500  | .965 | .750                     | .947 | .917 | .000  | .952 | .968       |

Peak Hour Analysis From 07:00 AM to 09:45 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

|              | 07:45 AM             | 08:00 AM             | 07:30 AM             | 08:00 AM             |  |
|--------------|----------------------|----------------------|----------------------|----------------------|--|
| +0 mins.     | 3 0 1 0 4            | 38 2 40 0 80         | 19 181 2 0 202       | 1 180 16 0 197       |  |
| +15 mins.    | 2 0 1 0 3            | 27 2 39 0 68         | 20 177 5 0 202       | 0 176 16 0 192       |  |
| +30 mins.    | 3 1 0 0 4            | 22 3 28 0 53         | 26 178 8 1 213       | 1 182 18 0 201       |  |
| +45 mins.    | 2 0 0 0 2            | 28 3 42 0 73         | 26 180 5 2 213       | 1 193 16 0 210       |  |
| Total Volume | 10 1 2 0 13          | 115 10 149 0 274     | 91 716 20 3 830      | 3 731 66 0 800       |  |
| % App. Total | 76.9 7.7 15.4 0      | 42 3.6 54.4 0        | 11 86.3 2.4 0.4      | 0.4 91.4 8.2 0       |  |
| PHF          | .83 .25 .50 .00 .813 | .75 .83 .88 .00 .856 | .87 .98 .62 .37 .974 | .75 .94 .91 .00 .952 |  |
|              | 3 0 0 0 0            | 7 3 7 0              | 5 9 5 5              | 0 7 7 0              |  |

Peak Hour Analysis From 10:00 AM to 01:45 PM - Peak 1 of 1

Peak Hour for Entire Intersection Begins at 01:00 PM

|              |                          |                          |                          |                          |      |
|--------------|--------------------------|--------------------------|--------------------------|--------------------------|------|
| 01:00 PM     | 5 0 2 0 7                | 25 0 40 0 65             | 39 241 4 0 284           | 2 245 29 0 276           | 632  |
| 01:15 PM     | 2 0 2 1 5                | 20 2 47 0 69             | 46 255 4 0 305           | 4 268 30 1 303           | 682  |
| 01:30 PM     | 4 0 1 0 5                | 20 1 49 0 70             | 39 267 3 0 309           | 3 290 22 0 315           | 699  |
| 01:45 PM     | 7 0 3 0 10               | 35 0 46 0 81             | 46 256 6 0 308           | 1 261 36 0 298           | 697  |
| Total Volume | 18 0 8 1 27              | 100 3 182 0 285          | 170 1019 17 0 1206       | 10 1064 117 1 1192       | 2710 |
| % App. Total | 66.7 0 29.6 3.7          | 35.1 1.1 63.9 0          | 14.1 84.5 1.4 0          | 0.8 89.3 9.8 0.1         |      |
| PHF          | .643 .000 .667 .250 .675 | .714 .375 .929 .000 .880 | .924 .954 .708 .000 .976 | .625 .917 .813 .250 .946 | .969 |

Peak Hour Analysis From 10:00 AM to 01:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

|              | 01:00 PM             | 01:00 PM             | 12:45 PM             | 12:45 PM             |  |
|--------------|----------------------|----------------------|----------------------|----------------------|--|
| +0 mins.     | 5 0 2 0 7            | 25 0 40 0 65         | 36 266 7 0 309       | 0 289 18 0 307       |  |
| +15 mins.    | 2 0 2 1 5            | 20 2 47 0 69         | 39 241 4 0 284       | 2 245 29 0 276       |  |
| +30 mins.    | 4 0 1 0 5            | 20 1 49 0 70         | 46 255 4 0 305       | 4 268 30 1 303       |  |
| +45 mins.    | 7 0 3 0 10           | 35 0 46 0 81         | 39 267 3 0 309       | 3 290 22 0 315       |  |
| Total Volume | 18 0 8 1 27          | 100 3 182 0 285      | 160 1029 18 0 1207   | 9 1092 99 1 1201     |  |
| % App. Total | 66.7 0 29.6 3.7      | 35.1 1.1 63.9 0      | 13.9 85.3 1.5 0      | 0.7 90.9 8.2 0.1     |  |
| PHF          | .64 .00 .66 .25 .675 | .71 .37 .92 .00 .880 | .87 .96 .64 .00 .977 | .56 .94 .82 .25 .953 |  |
|              | 3 0 7 0              | 4 5 9 0              | 3 3 3 0              | 3 1 5 0              |  |

Peak Hour Analysis From 02:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Entire Intersection Begins at 03:00 PM

|              |                          |                          |                          |                          |      |
|--------------|--------------------------|--------------------------|--------------------------|--------------------------|------|
| 03:00 PM     | 3 2 1 0 6                | 24 0 30 0 54             | 42 270 3 0 315           | 2 267 29 0 298           | 673  |
| 03:15 PM     | 4 0 0 0 4                | 19 0 43 0 62             | 40 269 2 0 311           | 2 240 32 0 274           | 651  |
| 03:30 PM     | 2 3 3 0 8                | 29 2 55 0 86             | 52 254 2 1 309           | 2 265 33 0 300           | 703  |
| 03:45 PM     | 3 1 2 0 6                | 31 0 56 1 88             | 37 272 1 0 310           | 2 233 25 0 260           | 664  |
| Total Volume | 12 6 6 0 24              | 103 2 184 1 290          | 171 1065 8 1 1245        | 8 1005 119 0 1132        | 2691 |
| % App. Total | 50.25 25.0 0             | 35.5 0.7 63.4 0.3        | 13.7 85.5 0.6 0.1        | 0.7 88.8 10.5 0          |      |
| PHF          | .750 .500 .500 .000 .750 | .831 .250 .821 .250 .824 | .822 .979 .667 .250 .988 | 1.00 .941 .902 .000 .943 | .957 |

Peak Hour Analysis From 02:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

|              | 04:30 PM             | 04:30 PM             | 02:15 PM             | 02:45 PM          |      |
|--------------|----------------------|----------------------|----------------------|-------------------|------|
| +0 mins.     | 7 1 4 0 12           | 31 1 56 1 89         | 46 270 2 0 318       | 2 243 19 0 264    |      |
| +15 mins.    | 2 1 2 0 5            | 23 0 48 1 72         | 31 298 1 0 330       | 2 267 29 0 298    |      |
| +30 mins.    | 2 1 0 0 3            | 46 0 59 0 105        | 38 257 3 0 298       | 2 240 32 0 274    |      |
| +45 mins.    | 5 4 2 0 11           | 32 0 53 1 86         | 42 270 3 0 315       | 2 265 33 0 300    |      |
| Total Volume | 16 7 8 0 31          | 132 1 216 3 352      | 157 1095 9 0 1261    | 8 1015 113 0 1136 |      |
| % App. Total | 51.22.25.0 0         | 37.5 0.3 61.4 0.9    | 12.5 86.8 0.7 0      | 0.7 89.3 9.9 0    |      |
| PHF          | .57 .43 .50 .00 .646 | .71 .25 .91 .75 .838 | .85 .91 .75 .00 .955 | 1.000 .95 0 .6 0  | .947 |
|              | 1 8 0 0 0            | 7 0 5 0 0            | 3 9 0 0 0            |                   |      |

Groups Printed- Heavy Trucks

|                      | NORTH BANANA RIVER DR Northbound |      |       |      |            | NORTH BANANA RIVER DR Southbound |      |       |      |            | STATE ROAD 520 Eastbound |      |       |      |            | STATE ROAD 520 Westbound |      |       |      |            |            |  |
|----------------------|----------------------------------|------|-------|------|------------|----------------------------------|------|-------|------|------------|--------------------------|------|-------|------|------------|--------------------------|------|-------|------|------------|------------|--|
| Start Time           | Left                             | Thru | Right | Peds | App. Total | Left                             | Thru | Right | Peds | App. Total | Left                     | Thru | Right | Peds | App. Total | Left                     | Thru | Right | Peds | App. Total | Int. Total |  |
| 07:00 AM             | 0                                | 0    | 0     | 0    | 0          | 0                                | 0    | 0     | 0    | 0          | 0                        | 2    | 0     | 1    | 3          | 0                        | 2    | 0     | 0    | 2          | 5          |  |
| 07:15 AM             | 0                                | 0    | 0     | 0    | 0          | 0                                | 0    | 0     | 0    | 0          | 2                        | 0    | 0     | 0    | 2          | 0                        | 2    | 0     | 0    | 2          | 4          |  |
| 07:30 AM             | 0                                | 0    | 0     | 0    | 0          | 0                                | 0    | 0     | 0    | 0          | 1                        | 5    | 0     | 0    | 6          | 0                        | 5    | 0     | 0    | 5          | 11         |  |
| 07:45 AM             | 0                                | 0    | 0     | 0    | 0          | 0                                | 0    | 0     | 0    | 0          | 0                        | 4    | 0     | 0    | 4          | 0                        | 3    | 0     | 0    | 3          | 7          |  |
| Total                | 0                                | 0    | 0     | 0    | 0          | 0                                | 0    | 0     | 0    | 0          | 3                        | 11   | 0     | 1    | 15         | 0                        | 12   | 0     | 0    | 12         | 27         |  |
| 08:00 AM             | 0                                | 0    | 0     | 0    | 0          | 0                                | 0    | 0     | 0    | 0          | 1                        | 4    | 0     | 0    | 5          | 0                        | 2    | 0     | 0    | 2          | 7          |  |
| 08:15 AM             | 0                                | 0    | 0     | 0    | 0          | 0                                | 0    | 1     | 0    | 1          | 0                        | 5    | 0     | 2    | 7          | 0                        | 1    | 1     | 0    | 2          | 10         |  |
| 08:30 AM             | 0                                | 0    | 0     | 0    | 0          | 0                                | 0    | 1     | 0    | 1          | 1                        | 6    | 0     | 1    | 8          | 0                        | 5    | 2     | 0    | 7          | 16         |  |
| 08:45 AM             | 0                                | 0    | 0     | 0    | 0          | 0                                | 0    | 1     | 0    | 1          | 0                        | 5    | 0     | 0    | 5          | 0                        | 6    | 0     | 0    | 6          | 12         |  |
| Total                | 0                                | 0    | 0     | 0    | 0          | 0                                | 0    | 3     | 0    | 3          | 2                        | 20   | 0     | 3    | 25         | 0                        | 14   | 3     | 0    | 17         | 45         |  |
| <b>*** BREAK ***</b> |                                  |      |       |      |            |                                  |      |       |      |            |                          |      |       |      |            |                          |      |       |      |            |            |  |
| 12:00 PM             | 0                                | 0    | 0     | 0    | 0          | 0                                | 0    | 1     | 0    | 1          | 0                        | 3    | 0     | 0    | 3          | 0                        | 6    | 0     | 0    | 6          | 10         |  |
| 12:15 PM             | 0                                | 0    | 0     | 0    | 0          | 0                                | 2    | 0     | 1    | 0          | 3                        | 1    | 3     | 0    | 4          | 0                        | 2    | 0     | 0    | 2          | 9          |  |
| 12:30 PM             | 0                                | 0    | 1     | 0    | 1          | 0                                | 0    | 1     | 0    | 1          | 0                        | 3    | 1     | 0    | 4          | 0                        | 1    | 2     | 0    | 3          | 9          |  |
| 12:45 PM             | 0                                | 0    | 0     | 0    | 0          | 0                                | 0    | 0     | 0    | 0          | 1                        | 4    | 0     | 0    | 5          | 0                        | 1    | 0     | 0    | 1          | 6          |  |
| Total                | 0                                | 0    | 1     | 0    | 1          | 2                                | 0    | 3     | 0    | 5          | 2                        | 13   | 1     | 0    | 16         | 0                        | 10   | 2     | 0    | 12         | 34         |  |
| 01:00 PM             | 0                                | 0    | 0     | 0    | 0          | 0                                | 0    | 0     | 0    | 0          | 1                        | 1    | 0     | 0    | 2          | 0                        | 5    | 0     | 0    | 5          | 7          |  |
| 01:15 PM             | 0                                | 0    | 0     | 1    | 1          | 1                                | 0    | 3     | 0    | 4          | 0                        | 3    | 0     | 0    | 3          | 0                        | 3    | 0     | 1    | 4          | 12         |  |
| 01:30 PM             | 0                                | 0    | 0     | 0    | 0          | 0                                | 0    | 2     | 0    | 2          | 0                        | 2    | 0     | 0    | 2          | 0                        | 2    | 0     | 0    | 2          | 6          |  |
| 01:45 PM             | 0                                | 0    | 0     | 0    | 0          | 0                                | 0    | 0     | 0    | 0          | 1                        | 4    | 0     | 0    | 5          | 0                        | 0    | 0     | 0    | 0          | 5          |  |
| Total                | 0                                | 0    | 0     | 1    | 1          | 1                                | 0    | 5     | 0    | 6          | 2                        | 10   | 0     | 0    | 12         | 0                        | 10   | 0     | 1    | 11         | 30         |  |
| 02:00 PM             | 0                                | 0    | 0     | 0    | 0          | 0                                | 0    | 1     | 0    | 1          | 1                        | 6    | 0     | 0    | 7          | 0                        | 5    | 0     | 1    | 6          | 14         |  |
| 02:15 PM             | 0                                | 0    | 1     | 0    | 1          | 1                                | 0    | 1     | 1    | 3          | 0                        | 3    | 0     | 0    | 3          | 0                        | 2    | 0     | 0    | 2          | 9          |  |
| 02:30 PM             | 0                                | 0    | 0     | 0    | 0          | 0                                | 0    | 0     | 2    | 0          | 2                        | 0    | 3     | 0    | 3          | 0                        | 3    | 0     | 0    | 3          | 8          |  |
| 02:45 PM             | 0                                | 0    | 0     | 0    | 0          | 0                                | 0    | 0     | 1    | 1          | 2                        | 1    | 4     | 0    | 5          | 0                        | 5    | 0     | 0    | 5          | 12         |  |
| Total                | 0                                | 0    | 1     | 0    | 1          | 1                                | 0    | 5     | 2    | 8          | 2                        | 16   | 0     | 0    | 18         | 0                        | 15   | 0     | 1    | 16         | 43         |  |
| 03:00 PM             | 0                                | 0    | 0     | 0    | 0          | 0                                | 0    | 0     | 0    | 0          | 1                        | 1    | 0     | 0    | 2          | 0                        | 3    | 0     | 0    | 3          | 5          |  |
| 03:15 PM             | 0                                | 0    | 0     | 0    | 0          | 0                                | 0    | 4     | 0    | 4          | 0                        | 4    | 0     | 0    | 4          | 0                        | 3    | 1     | 0    | 4          | 12         |  |
| 03:30 PM             | 0                                | 0    | 1     | 0    | 1          | 0                                | 0    | 1     | 0    | 1          | 0                        | 2    | 1     | 0    | 3          | 0                        | 2    | 0     | 0    | 2          | 7          |  |
| 03:45 PM             | 1                                | 0    | 0     | 0    | 1          | 0                                | 0    | 2     | 1    | 3          | 0                        | 2    | 0     | 0    | 2          | 0                        | 2    | 0     | 0    | 2          | 8          |  |
| Total                | 1                                | 0    | 1     | 0    | 2          | 0                                | 0    | 7     | 1    | 8          | 1                        | 9    | 1     | 0    | 11         | 0                        | 10   | 1     | 0    | 11         | 32         |  |
| 04:00 PM             | 0                                | 0    | 0     | 1    | 1          | 0                                | 0    | 1     | 0    | 1          | 0                        | 1    | 0     | 0    | 1          | 0                        | 4    | 1     | 0    | 5          | 8          |  |
| 04:15 PM             | 0                                | 0    | 0     | 0    | 0          | 0                                | 0    | 1     | 0    | 1          | 1                        | 3    | 0     | 0    | 4          | 0                        | 2    | 1     | 0    | 3          | 8          |  |
| 04:30 PM             | 0                                | 0    | 0     | 0    | 0          | 0                                | 0    | 1     | 0    | 1          | 0                        | 3    | 0     | 0    | 3          | 0                        | 3    | 0     | 0    | 3          | 7          |  |
| 04:45 PM             | 0                                | 0    | 0     | 0    | 0          | 0                                | 0    | 0     | 1    | 1          | 0                        | 2    | 0     | 0    | 2          | 0                        | 1    | 0     | 0    | 1          | 4          |  |
| Total                | 0                                | 0    | 0     | 1    | 1          | 0                                | 0    | 3     | 1    | 4          | 1                        | 9    | 0     | 0    | 10         | 0                        | 10   | 2     | 0    | 12         | 27         |  |
| 05:00 PM             | 0                                | 0    | 0     | 0    | 0          | 0                                | 0    | 0     | 0    | 0          | 0                        | 0    | 0     | 0    | 0          | 0                        | 3    | 0     | 0    | 3          | 3          |  |
| 05:15 PM             | 0                                | 0    | 0     | 0    | 0          | 0                                | 0    | 0     | 1    | 1          | 0                        | 1    | 0     | 0    | 1          | 0                        | 0    | 0     | 0    | 0          | 2          |  |
| 05:30 PM             | 0                                | 0    | 0     | 0    | 0          | 0                                | 0    | 0     | 0    | 0          | 0                        | 0    | 0     | 0    | 0          | 0                        | 3    | 0     | 0    | 3          | 3          |  |
| 05:45 PM             | 0                                | 0    | 0     | 0    | 0          | 0                                | 0    | 0     | 0    | 0          | 0                        | 1    | 0     | 0    | 1          | 0                        | 1    | 0     | 0    | 1          | 2          |  |
| Total                | 0                                | 0    | 0     | 0    | 0          | 0                                | 0    | 0     | 1    | 1          | 0                        | 2    | 0     | 0    | 2          | 0                        | 7    | 0     | 0    | 7          | 10         |  |
| Grand Total          | 1                                | 0    | 3     | 2    | 6          | 4                                | 0    | 26    | 5    | 35         | 13                       | 90   | 2     | 4    | 109        | 0                        | 88   | 8     | 2    | 98         | 248        |  |
| Apprch %             | 16.7                             | 0    | 50    | 33.3 |            | 11.4                             | 0    | 74.3  | 14.3 |            | 11.9                     | 82.6 | 1.8   | 3.7  | 109        | 0                        | 89.8 | 8.2   | 2    |            |            |  |
| Total %              | 0.4                              | 0    | 1.2   | 0.8  |            | 2.4                              | 1.6  | 0     | 10.5 | 2          | 14.1                     | 5.2  | 36.3  | 0.8  | 1.6        | 44                       | 0    | 35.5  | 3.2  | 0.8        | 39.5       |  |

|   | NORTH BANANA RIVER DR Northbound |      |      |       |      | NORTH BANANA RIVER DR Southbound |      |      |       |      | STATE ROAD 520 Eastbound |      |      |       |      | STATE ROAD 520 Westbound |      |      |       |      |            |            |
|---|----------------------------------|------|------|-------|------|----------------------------------|------|------|-------|------|--------------------------|------|------|-------|------|--------------------------|------|------|-------|------|------------|------------|
|   | Start Time                       | Left | Thru | Right | Peds | App. Total                       | Left | Thru | Right | Peds | App. Total               | Left | Thru | Right | Peds | App. Total               | Left | Thru | Right | Peds | App. Total | Int. Total |
| <b>Peak Hour Analysis From 07:00 AM to 09:45 AM - Peak 1 of 1</b> |                                  |      |      |       |      |                                  |      |      |       |      |                          |      |      |       |      |                          |      |      |       |      |            |            |
| <b>Peak Hour for Entire Intersection Begins at 08:00 AM</b>       |                                  |      |      |       |      |                                  |      |      |       |      |                          |      |      |       |      |                          |      |      |       |      |            |            |
| 08:00 AM  | 0                                | 0    | 0    | 0     | 0    | 0                                | 0    | 0    | 0     | 0    | 0                        | 1    | 4    | 0     | 0    | 5                        | 0    | 2    | 0     | 0    | 2          | 7          |
| 08:15 AM  | 0                                | 0    | 0    | 0     | 0    | 0                                | 0    | 0    | 1     | 0    | 1                        | 0    | 5    | 0     | 2    | 7                        | 0    | 1    | 1     | 0    | 2          | 10         |
| 08:30 AM  | 0                                | 0    | 0    | 0     | 0    | 0                                | 0    | 0    | 1     | 0    | 1                        | 1    | 6    | 0     | 1    | 8                        | 0    | 5    | 2     | 0    | 7          | 16         |
| 08:45 AM  | 0                                | 0    | 0    | 0     | 0    | 0                                | 0    | 0    | 1     | 0    | 1                        | 0    | 5    | 0     | 0    | 5                        | 0    | 6    | 0     | 0    | 6          | 12         |
| Total Volume  | 0                                | 0    | 0    | 0     | 0    | 0                                | 0    | 0    | 3     | 0    | 3                        | 2    | 20   | 0     | 3    | 25                       | 0    | 14   | 3     | 0    | 17         | 45         |
| % App. Total  | 0                                | 0    | 0    | 0     | 0    | 0                                | 0    | 0    | 100   | 0    | 0                        | 8    | 80   | 0     | 12   | 0                        | 82.4 | 17.6 | 0     |      |            |            |
| PHF   | .000                             | .000 | .000 | .000  | .000 | .000                             | .000 | .750 | .000  | .750 | .500                     | .833 | .000 | .375  | .781 | .000                     | .583 | .375 | .000  | .607 | .703       |            |

Peak Hour Analysis From 07:00 AM to 09:45 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

|              | 07:00 AM             | 08:00 AM             | 08:00 AM             | 08:00 AM             |      |
|--------------|----------------------|----------------------|----------------------|----------------------|------|
| +0 mins.     | 0 0 0 0 0            | 0 0 0 0 0            | 1 4 0 0 5            | 0 2 0 0 2            | 2    |
| +15 mins.    | 0 0 0 0 0            | 0 0 1 0 1            | 0 5 0 2 7            | 0 1 1 0 2            | 2    |
| +30 mins.    | 0 0 0 0 0            | 0 0 1 0 1            | 1 6 0 1 8            | 0 5 2 0 7            | 7    |
| +45 mins.    | 0 0 0 0 0            | 0 0 1 0 1            | 0 5 0 0 5            | 0 6 0 0 6            | 6    |
| Total Volume | 0 0 0 0 0            | 0 0 3 0 3            | 2 20 0 3 25          | 0 14 3 0 17          | 17   |
| % App. Total | 0 0 0 0 0            | 0 0 100 0 0          | 8 80 0 12            | 82.4 17.6 0          | 0    |
| PHF          | .00 .00 .00 .00 .000 | .00 .00 .75 .00 .750 | .50 .83 .00 .37 .781 | .00 .58 .37 .00 .607 | .607 |

Peak Hour Analysis From 10:00 AM to 01:45 PM - Peak 1 of 1

Peak Hour for Entire Intersection Begins at 12:00 PM

|              |                          |                          |                          |                          |      |
|--------------|--------------------------|--------------------------|--------------------------|--------------------------|------|
| 12:00 PM     | 0 0 0 0 0                | 0 0 1 0 1                | 0 3 0 0 3                | 0 6 0 0 6                | 10   |
| 12:15 PM     | 0 0 0 0 0                | 2 0 1 0 3                | 1 3 0 0 4                | 0 2 0 0 2                | 9    |
| 12:30 PM     | 0 0 1 0 1                | 0 0 1 0 1                | 0 3 1 0 4                | 0 1 2 0 3                | 9    |
| 12:45 PM     | 0 0 0 0 0                | 0 0 0 0 0                | 1 4 0 0 5                | 0 1 0 0 1                | 6    |
| Total Volume | 0 0 1 0 1                | 2 0 3 0 5                | 2 13 1 0 16              | 0 10 2 0 12              | 34   |
| % App. Total | 0 0 100 0 0              | 40 0 60 0 0              | 12.5 81.2 6.2 0          | 83.3 16.7 0              | 0    |
| PHF          | .000 .000 .250 .000 .250 | .250 .000 .750 .000 .417 | .500 .813 .250 .000 .800 | .000 .417 .250 .000 .500 | .850 |

Peak Hour Analysis From 10:00 AM to 01:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

|              | 12:30 PM             | 12:45 PM             | 12:00 PM             | 12:30 PM             |      |
|--------------|----------------------|----------------------|----------------------|----------------------|------|
| +0 mins.     | 0 0 1 0 1            | 0 0 0 0 0            | 0 3 0 0 3            | 0 1 2 0 3            | 3    |
| +15 mins.    | 0 0 0 0 0            | 0 0 0 0 0            | 1 3 0 0 4            | 0 1 0 0 1            | 1    |
| +30 mins.    | 0 0 0 0 0            | 1 0 3 0 4            | 0 3 1 0 4            | 0 5 0 0 5            | 5    |
| +45 mins.    | 0 0 0 1 1            | 0 0 2 0 2            | 1 4 0 0 5            | 0 3 0 1 4            | 4    |
| Total Volume | 0 0 1 1 2            | 1 0 5 0 6            | 2 13 1 0 16          | 0 10 2 1 13          | 13   |
| % App. Total | 0 0 50 50            | 16.7 0 83.3 0        | 12.5 81.2 6.2 0      | 76.9 15.4 7.7        | 0    |
| PHF          | .00 .00 .25 .25 .500 | .25 .00 .41 .00 .375 | .50 .81 .25 .00 .800 | .00 .50 .25 .25 .650 | .650 |

Peak Hour Analysis From 02:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Entire Intersection Begins at 02:00 PM

|              |                          |                          |                          |                          |      |
|--------------|--------------------------|--------------------------|--------------------------|--------------------------|------|
| 02:00 PM     | 0 0 0 0 0                | 0 0 1 0 1                | 1 6 0 0 7                | 0 5 0 1 6                | 14   |
| 02:15 PM     | 0 0 1 0 1                | 1 0 1 1 3                | 0 3 0 0 3                | 0 2 0 0 2                | 9    |
| 02:30 PM     | 0 0 0 0 0                | 0 0 2 0 2                | 0 3 0 0 3                | 0 3 0 0 3                | 8    |
| 02:45 PM     | 0 0 0 0 0                | 0 0 1 1 2                | 1 4 0 0 5                | 0 5 0 0 5                | 12   |
| Total Volume | 0 0 1 0 1                | 1 0 5 2 8                | 2 16 0 0 18              | 0 15 0 1 16              | 43   |
| % App. Total | 0 0 100 0 0              | 12.5 0 62.5 25           | 11.1 88.9 0 0            | 93.8 0 6.2               | 0    |
| PHF          | .000 .000 .250 .000 .250 | .250 .000 .625 .500 .667 | .500 .667 .000 .000 .643 | .000 .750 .000 .250 .667 | .768 |

Peak Hour Analysis From 02:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

|              | 03:15 PM             | 03:15 PM             | 02:00 PM             | 02:00 PM             |      |
|--------------|----------------------|----------------------|----------------------|----------------------|------|
| +0 mins.     | 0 0 0 0 0            | 0 0 4 0 4            | 1 6 0 0 7            | 0 5 0 1 6            | 6    |
| +15 mins.    | 0 0 1 0 1            | 0 0 1 0 1            | 0 3 0 0 3            | 0 2 0 0 2            | 2    |
| +30 mins.    | 1 0 0 0 1            | 0 0 2 1 3            | 0 3 0 0 3            | 0 3 0 0 3            | 3    |
| +45 mins.    | 0 0 0 1 1            | 0 0 1 0 1            | 1 4 0 0 5            | 0 5 0 0 5            | 5    |
| Total Volume | 1 0 1 1 3            | 0 0 8 1 9            | 2 16 0 0 18          | 0 15 0 1 16          | 16   |
| % App. Total | 33.3 0 33.3 3        | 0 0 88.9 11.1        | 11.1 88.9 0 0        | 93.8 0 6.2           | 0    |
| PHF          | .25 .00 .25 .25 .750 | .00 .00 .50 .25 .563 | .50 .66 .00 .00 .643 | .00 .75 .00 .25 .667 | .667 |

File Name : SR 520 & N. Banana River Dr  
Site Code : 00000000  
Start Date : 10/27/2015  
Page No : 1

## **Groups Printed- UTURNS**

|                                    | NORTH BANANA RIVER<br>DR<br>Northbound |      |       |      |            | NORTH BANANA RIVER<br>DR<br>Southbound |      |       |      |            | STATE ROAD 520<br>Eastbound |      |       |      |            | STATE ROAD 520<br>Westbound |      |       |      |            |            |
|------------------------------------|--|------|-------|------|------------|--|------|-------|------|------------|-----------------------------|------|-------|------|------------|-----------------------------|------|-------|------|------------|------------|
| Start Time                         | Left                                   | Thru | Right | Peds | App. Total | Left                                   | Thru | Right | Peds | App. Total | Left                        | Thru | Right | Peds | App. Total | Left                        | Thru | Right | Peds | App. Total | Int. Total |
| <b>*** BREAK ***</b>               |  |      |       |      |            |  |      |       |      |            |                             |      |       |      |            |                             |      |       |      |            |            |
| 12:15 PM  <br><b>*** BREAK ***</b> | 0                                      | 0    | 0     | 0    | 0          | 0                                      | 0    | 0     | 0    | 0          | 0                           | 1    | 0     | 0    | 0          | 1                           | 0    | 0     | 0    | 0          | 1          |
| Total                              | 0                                      | 0    | 0     | 0    | 0          | 0                                      | 0    | 0     | 0    | 0          | 0                           | 1    | 0     | 0    | 0          | 1                           | 0    | 0     | 0    | 0          | 1          |
| <b>*** BREAK ***</b>               |  |      |       |      |            |  |      |       |      |            |                             |      |       |      |            |                             |      |       |      |            |            |
| 01:15 PM  <br><b>*** BREAK ***</b> | 0                                      | 0    | 0     | 0    | 0          | 0                                      | 0    | 0     | 0    | 0          | 0                           | 0    | 0     | 0    | 0          | 0                           | 1    | 0     | 0    | 0          | 1          |
| Total                              | 0                                      | 0    | 0     | 0    | 0          | 0                                      | 0    | 0     | 0    | 0          | 0                           | 0    | 0     | 0    | 0          | 0                           | 1    | 0     | 0    | 0          | 1          |
| <b>*** BREAK ***</b>               |  |      |       |      |            |  |      |       |      |            |                             |      |       |      |            |                             |      |       |      |            |            |
| 02:00 PM  <br><b>*** BREAK ***</b> | 0                                      | 0    | 0     | 0    | 0          | 0                                      | 0    | 0     | 0    | 0          | 0                           | 1    | 0     | 0    | 0          | 1                           | 0    | 0     | 0    | 0          | 1          |
| Total                              | 0                                      | 0    | 0     | 0    | 0          | 0                                      | 0    | 0     | 0    | 0          | 0                           | 1    | 0     | 0    | 0          | 1                           | 0    | 0     | 0    | 0          | 1          |
| <b>*** BREAK ***</b>               |  |      |       |      |            |  |      |       |      |            |                             |      |       |      |            |                             |      |       |      |            |            |
| 03:15 PM                           | 0                                      | 0    | 0     | 0    | 0          | 0                                      | 0    | 0     | 0    | 0          | 1                           | 0    | 0     | 0    | 1          | 0                           | 0    | 0     | 0    | 0          | 1          |
| 03:30 PM                           | 0                                      | 0    | 0     | 0    | 0          | 0                                      | 0    | 0     | 0    | 0          | 1                           | 0    | 0     | 0    | 1          | 0                           | 0    | 0     | 0    | 0          | 1          |
| 03:45 PM                           | 0                                      | 0    | 0     | 0    | 0          | 0                                      | 0    | 0     | 0    | 0          | 0                           | 0    | 0     | 0    | 0          | 1                           | 0    | 0     | 0    | 0          | 1          |
| Total                              | 0                                      | 0    | 0     | 0    | 0          | 0                                      | 0    | 0     | 0    | 0          | 2                           | 0    | 0     | 0    | 2          | 1                           | 0    | 0     | 0    | 1          | 3          |
| <b>*** BREAK ***</b>               |  |      |       |      |            |  |      |       |      |            |                             |      |       |      |            |                             |      |       |      |            |            |
| 05:00 PM  <br><b>*** BREAK ***</b> | 0                                      | 0    | 0     | 0    | 0          | 0                                      | 0    | 0     | 0    | 0          | 2                           | 0    | 0     | 0    | 2          | 0                           | 0    | 0     | 0    | 0          | 2          |
| 05:30 PM  <br><b>*** BREAK ***</b> | 0                                      | 0    | 0     | 0    | 0          | 0                                      | 0    | 0     | 0    | 0          | 1                           | 0    | 0     | 0    | 1          | 0                           | 0    | 0     | 0    | 0          | 1          |
| Total                              | 0                                      | 0    | 0     | 0    | 0          | 0                                      | 0    | 0     | 0    | 0          | 3                           | 0    | 0     | 0    | 3          | 0                           | 0    | 0     | 0    | 0          | 3          |
| Grand Total                        |  |      |       |      |            |  |      |       |      |            |                             |      |       |      |            |                             |      |       |      |            |            |
| Apprch %                           | 0                                      | 0    | 0     | 0    | 0          | 0                                      | 0    | 0     | 0    | 0          | 7                           | 0    | 0     | 0    | 7          | 2                           | 0    | 0     | 0    | 0          | 2          |
| Total %                            | 0                                      | 0    | 0     | 0    | 0          | 0                                      | 0    | 0     | 0    | 0          | 100                         | 0    | 0     | 0    | 100        | 0                           | 0    | 0     | 0    | 0          | 9          |

Peak Hour Analysis From 07:00 AM to 09:45 AM - Peak 1 of 1

File Name : SR 520 & N. Banana River Dr  
 Site Code : 00000000  
 Start Date : 10/27/2015  
 Page No : 2

|  | NORTH BANANA RIVER DR Northbound |      |       |      |            | NORTH BANANA RIVER DR Southbound |      |       |      |            | STATE ROAD 520 Eastbound |      |       |      |            | STATE ROAD 520 Westbound |      |       |      |            |            |
|--|----------------------------------|------|-------|------|------------|----------------------------------|------|-------|------|------------|--------------------------|------|-------|------|------------|--------------------------|------|-------|------|------------|------------|
| Start Time   | Left                             | Thru | Right | Peds | App. Total | Left                             | Thru | Right | Peds | App. Total | Left                     | Thru | Right | Peds | App. Total | Left                     | Thru | Right | Peds | App. Total | Int. Total |
| Peak Hour Analysis From 10:00 AM to 01:45 PM - Peak 1 of 1 |                                  |      |       |      |            |                                  |      |       |      |            |                          |      |       |      |            |                          |      |       |      |            |            |
| Peak Hour for Entire Intersection Begins at 11:30 AM       |                                  |      |       |      |            |                                  |      |       |      |            |                          |      |       |      |            |                          |      |       |      |            |            |
| 11:30 AM   | 0                                | 0    | 0     | 0    | 0          | 0                                | 0    | 0     | 0    | 0          | 0                        | 0    | 0     | 0    | 0          | 0                        | 0    | 0     | 0    | 0          |            |
| 11:45 AM   | 0                                | 0    | 0     | 0    | 0          | 0                                | 0    | 0     | 0    | 0          | 0                        | 0    | 0     | 0    | 0          | 0                        | 0    | 0     | 0    | 0          |            |
| 12:00 PM   | 0                                | 0    | 0     | 0    | 0          | 0                                | 0    | 0     | 0    | 0          | 0                        | 0    | 0     | 0    | 0          | 0                        | 0    | 0     | 0    | 0          |            |
| 12:15 PM   | 0                                | 0    | 0     | 0    | 0          | 0                                | 0    | 0     | 0    | 0          | 1                        | 0    | 0     | 0    | 1          | 0                        | 0    | 0     | 0    | 1          |            |
| Total Volume   | 0                                | 0    | 0     | 0    | 0          | 0                                | 0    | 0     | 0    | 0          | 1                        | 0    | 0     | 0    | 1          | 0                        | 0    | 0     | 0    | 1          |            |
| % App. Total   | 0                                | 0    | 0     | 0    | 0          | 0                                | 0    | 0     | 0    | 0          | 100                      | 0    | 0     | 0    | 0          | 0                        | 0    | 0     | 0    | 0          |            |
| PHF  | .000                             | .000 | .000  | .000 | .000       | .000                             | .000 | .000  | .000 | .000       | .250                     | .000 | .000  | .000 | .250       | .000                     | .000 | .000  | .000 | .250       |            |

Peak Hour Analysis From 10:00 AM to 01:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

|              | 10:00 AM             | 10:00 AM             | 11:30 AM             | 12:30 PM             |
|--------------|----------------------|----------------------|----------------------|----------------------|
| +0 mins.     | 0 0 0 0 0            | 0 0 0 0 0            | 0 0 0 0 0            | 0 0 0 0 0            |
| +15 mins.    | 0 0 0 0 0            | 0 0 0 0 0            | 0 0 0 0 0            | 0 0 0 0 0            |
| +30 mins.    | 0 0 0 0 0            | 0 0 0 0 0            | 0 0 0 0 0            | 0 0 0 0 0            |
| +45 mins.    | 0 0 0 0 0            | 0 0 0 0 0            | 1 0 0 0 1            | 1 0 0 0 1            |
| Total Volume | 0 0 0 0 0            | 0 0 0 0 0            | 1 0 0 0 1            | 1 0 0 0 1            |
| % App. Total | 0 0 0 0 0            | 0 0 0 0 0            | 100 0 0 0 100        | 100 0 0 0 100        |
| PHF          | .00 .00 .00 .00 .000 | .00 .00 .00 .00 .000 | .25 .00 .00 .00 .250 | .25 .00 .00 .00 .250 |

Peak Hour Analysis From 02:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Entire Intersection Begins at 03:00 PM

|              |                          |                          |                          |                          |
|--------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 03:00 PM     | 0 0 0 0 0                | 0 0 0 0 0                | 0 0 0 0 0                | 0 0 0 0 0                |
| 03:15 PM     | 0 0 0 0 0                | 0 0 0 0 0                | 1 0 0 0 1                | 0 0 0 0 0                |
| 03:30 PM     | 0 0 0 0 0                | 0 0 0 0 0                | 1 0 0 0 1                | 0 0 0 0 0                |
| 03:45 PM     | 0 0 0 0 0                | 0 0 0 0 0                | 0 0 0 0 0                | 1 0 0 0 1                |
| Total Volume | 0 0 0 0 0                | 0 0 0 0 0                | 2 0 0 0 2                | 1 0 0 0 1                |
| % App. Total | 0 0 0 0 0                | 0 0 0 0 0                | 100 0 0 0 100            | 100 0 0 0 100            |
| PHF          | .000 .000 .000 .000 .000 | .000 .000 .000 .000 .000 | .500 .000 .000 .000 .500 | .250 .000 .000 .000 .250 |

Peak Hour Analysis From 02:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

|              | 02:00 PM             | 02:00 PM             | 04:45 PM               | 03:00 PM               |
|--------------|----------------------|----------------------|------------------------|------------------------|
| +0 mins.     | 0 0 0 0 0            | 0 0 0 0 0            | 0 0 0 0 0              | 0 0 0 0 0              |
| +15 mins.    | 0 0 0 0 0            | 0 0 0 0 0            | 2 0 0 0 2              | 0 0 0 0 0              |
| +30 mins.    | 0 0 0 0 0            | 0 0 0 0 0            | 0 0 0 0 0              | 0 0 0 0 0              |
| +45 mins.    | 0 0 0 0 0            | 0 0 0 0 0            | 1 0 0 0 1              | 1 0 0 0 1              |
| Total Volume | 0 0 0 0 0            | 0 0 0 0 0            | 3 0 0 0 3              | 1 0 0 0 1              |
| % App. Total | 0 0 0 0 0            | 0 0 0 0 0            | 100 0 0 0 100          | 100 0 0 0 100          |
| PHF          | .00 .00 .00 .00 .000 | .00 .00 .00 .00 .000 | .37 5 .00 .00 .00 .375 | .25 0 .00 .00 .00 .250 |

Groups Printed- All Vehicles

|          | NEW FOUND HARBOR<br>Northbound |      |      |       |      | NEW FOUND HARBOR<br>Southbound |      |      |       |      | STATE ROAD 520<br>Eastbound |      |      |       |      | STATE ROAD 520<br>Westbound |      |      |       |      |           |           |
|----------|--------------------------------|------|------|-------|------|--------------------------------|------|------|-------|------|-----------------------------|------|------|-------|------|-----------------------------|------|------|-------|------|-----------|-----------|
|          | Start Time                     | Left | Thru | Right | Peds | App.Total                      | Left | Thru | Right | Peds | App.Total                   | Left | Thru | Right | Peds | App.Total                   | Left | Thru | Right | Peds | App.Total | Int.Total |
| 07:00 AM | 48                             | 2    | 21   | 0     | 71   | 71                             | 3    | 1    | 16    | 0    | 20                          | 5    | 76   | 13    | 0    | 94                          | 6    | 91   | 7     | 0    | 104       | 289       |
| 07:15 AM | 46                             | 2    | 20   | 0     | 68   | 68                             | 3    | 3    | 14    | 0    | 20                          | 10   | 121  | 33    | 0    | 164                         | 7    | 152  | 4     | 2    | 165       | 417       |
| 07:30 AM | 99                             | 1    | 26   | 1     | 127  | 127                            | 5    | 0    | 8     | 0    | 13                          | 2    | 169  | 19    | 1    | 191                         | 6    | 169  | 6     | 1    | 182       | 513       |
| 07:45 AM | 62                             | 2    | 34   | 0     | 98   | 98                             | 4    | 2    | 10    | 0    | 16                          | 11   | 192  | 26    | 0    | 229                         | 8    | 202  | 6     | 0    | 216       | 559       |
| Total    | 255                            | 7    | 101  | 1     | 364  | 364                            | 15   | 6    | 48    | 0    | 69                          | 28   | 558  | 91    | 1    | 678                         | 27   | 614  | 23    | 3    | 667       | 1778      |
| 08:00 AM | 59                             | 1    | 20   | 0     | 80   | 80                             | 11   | 1    | 11    | 0    | 23                          | 21   | 181  | 23    | 0    | 225                         | 12   | 150  | 7     | 0    | 169       | 497       |
| 08:15 AM | 71                             | 1    | 22   | 0     | 94   | 94                             | 7    | 1    | 13    | 0    | 21                          | 21   | 201  | 38    | 1    | 261                         | 14   | 211  | 6     | 0    | 231       | 607       |
| 08:30 AM | 56                             | 4    | 22   | 0     | 82   | 82                             | 8    | 0    | 13    | 0    | 21                          | 13   | 170  | 39    | 0    | 222                         | 15   | 185  | 9     | 0    | 209       | 534       |
| 08:45 AM | 45                             | 2    | 21   | 1     | 69   | 69                             | 11   | 2    | 15    | 0    | 28                          | 33   | 183  | 31    | 0    | 247                         | 7    | 172  | 5     | 0    | 184       | 528       |
| Total    | 231                            | 8    | 85   | 1     | 325  | 325                            | 37   | 4    | 52    | 0    | 93                          | 88   | 735  | 131   | 1    | 955                         | 48   | 718  | 27    | 0    | 793       | 2166      |

\*\*\* BREAK \*\*\*

|             |      |     |      |     |      |      |      |     |      |   |      |      |      |      |   |       |     |      |     |     |      |       |
|-------------|------|-----|------|-----|------|------|------|-----|------|---|------|------|------|------|---|-------|-----|------|-----|-----|------|-------|
| 12:00 PM    | 56   | 4   | 16   | 0   | 76   | 76   | 40   | 7   | 50   | 0 | 97   | 59   | 237  | 47   | 0 | 343   | 14  | 243  | 12  | 0   | 269  | 785   |
| 12:15 PM    | 42   | 2   | 21   | 0   | 65   | 65   | 33   | 6   | 34   | 0 | 73   | 51   | 210  | 25   | 0 | 286   | 8   | 286  | 24  | 0   | 318  | 742   |
| 12:30 PM    | 53   | 2   | 9    | 0   | 64   | 64   | 39   | 2   | 46   | 0 | 87   | 79   | 222  | 51   | 0 | 352   | 12  | 243  | 21  | 0   | 276  | 779   |
| 12:45 PM    | 53   | 4   | 24   | 2   | 83   | 83   | 38   | 6   | 53   | 0 | 97   | 53   | 281  | 41   | 0 | 375   | 12  | 274  | 24  | 0   | 310  | 865   |
| Total       | 204  | 12  | 70   | 2   | 288  | 288  | 150  | 21  | 183  | 0 | 354  | 242  | 950  | 164  | 0 | 1356  | 46  | 1046 | 81  | 0   | 1173 | 3171  |
| 01:00 PM    | 35   | 2   | 12   | 2   | 51   | 51   | 45   | 5   | 42   | 0 | 92   | 50   | 222  | 35   | 0 | 307   | 10  | 243  | 21  | 1   | 275  | 725   |
| 01:15 PM    | 34   | 4   | 10   | 2   | 50   | 50   | 49   | 5   | 52   | 0 | 106  | 49   | 271  | 32   | 0 | 352   | 12  | 305  | 28  | 1   | 346  | 854   |
| 01:30 PM    | 46   | 4   | 14   | 2   | 66   | 66   | 69   | 6   | 52   | 0 | 127  | 41   | 272  | 49   | 0 | 362   | 7   | 254  | 25  | 0   | 286  | 841   |
| 01:45 PM    | 53   | 6   | 16   | 1   | 76   | 76   | 43   | 6   | 52   | 0 | 101  | 55   | 223  | 37   | 0 | 315   | 22  | 300  | 24  | 0   | 346  | 838   |
| Total       | 168  | 16  | 52   | 7   | 243  | 243  | 206  | 22  | 198  | 0 | 426  | 195  | 988  | 153  | 0 | 1336  | 51  | 1102 | 98  | 2   | 1253 | 3258  |
| 02:00 PM    | 37   | 3   | 22   | 0   | 62   | 62   | 32   | 4   | 41   | 0 | 77   | 50   | 247  | 49   | 0 | 346   | 15  | 284  | 23  | 0   | 322  | 807   |
| 02:15 PM    | 45   | 2   | 16   | 0   | 63   | 63   | 46   | 9   | 44   | 0 | 99   | 48   | 257  | 39   | 0 | 344   | 13  | 258  | 20  | 0   | 291  | 797   |
| 02:30 PM    | 60   | 4   | 18   | 0   | 82   | 82   | 54   | 3   | 58   | 0 | 115  | 46   | 269  | 47   | 0 | 362   | 18  | 240  | 23  | 0   | 281  | 840   |
| 02:45 PM    | 48   | 5   | 13   | 0   | 66   | 66   | 46   | 5   | 44   | 0 | 95   | 49   | 231  | 41   | 0 | 321   | 16  | 257  | 25  | 0   | 298  | 780   |
| Total       | 190  | 14  | 69   | 0   | 273  | 273  | 178  | 21  | 187  | 0 | 386  | 193  | 1004 | 176  | 0 | 1373  | 62  | 1039 | 91  | 0   | 1192 | 3224  |
| 03:00 PM    | 39   | 5   | 17   | 0   | 61   | 61   | 47   | 6   | 37   | 0 | 90   | 57   | 284  | 38   | 0 | 379   | 15  | 240  | 20  | 0   | 275  | 805   |
| 03:15 PM    | 43   | 6   | 15   | 1   | 65   | 65   | 47   | 7   | 50   | 0 | 104  | 37   | 247  | 55   | 0 | 339   | 16  | 290  | 13  | 0   | 319  | 827   |
| 03:30 PM    | 51   | 4   | 14   | 1   | 70   | 70   | 48   | 4   | 53   | 0 | 105  | 48   | 237  | 51   | 0 | 336   | 14  | 299  | 12  | 0   | 325  | 836   |
| 03:45 PM    | 55   | 5   | 16   | 0   | 76   | 76   | 43   | 5   | 45   | 0 | 93   | 51   | 257  | 61   | 0 | 369   | 19  | 284  | 15  | 0   | 318  | 856   |
| Total       | 188  | 20  | 62   | 2   | 272  | 272  | 185  | 22  | 185  | 0 | 392  | 193  | 1025 | 205  | 0 | 1423  | 64  | 1113 | 60  | 0   | 1237 | 3324  |
| 04:00 PM    | 58   | 7   | 15   | 1   | 81   | 81   | 49   | 8   | 48   | 0 | 105  | 70   | 231  | 66   | 0 | 367   | 28  | 294  | 13  | 0   | 335  | 888   |
| 04:15 PM    | 56   | 5   | 19   | 1   | 81   | 81   | 49   | 8   | 52   | 0 | 109  | 64   | 286  | 84   | 0 | 434   | 16  | 231  | 16  | 0   | 263  | 887   |
| 04:30 PM    | 62   | 5   | 11   | 0   | 78   | 78   | 46   | 7   | 52   | 0 | 105  | 64   | 271  | 80   | 0 | 415   | 42  | 278  | 12  | 0   | 332  | 930   |
| 04:45 PM    | 58   | 9   | 13   | 0   | 80   | 80   | 44   | 12  | 38   | 0 | 94   | 54   | 228  | 75   | 0 | 357   | 28  | 225  | 17  | 0   | 270  | 801   |
| Total       | 234  | 26  | 58   | 2   | 320  | 320  | 188  | 35  | 190  | 0 | 413  | 252  | 1016 | 305  | 0 | 1573  | 114 | 1028 | 58  | 0   | 1200 | 3506  |
| 05:00 PM    | 60   | 6   | 31   | 0   | 97   | 97   | 33   | 4   | 41   | 0 | 78   | 53   | 278  | 79   | 0 | 410   | 28  | 289  | 11  | 0   | 328  | 913   |
| 05:15 PM    | 55   | 7   | 24   | 2   | 88   | 88   | 52   | 8   | 47   | 0 | 107  | 55   | 248  | 92   | 0 | 395   | 34  | 239  | 13  | 0   | 286  | 876   |
| 05:30 PM    | 50   | 15  | 19   | 0   | 84   | 84   | 54   | 8   | 48   | 0 | 110  | 53   | 217  | 64   | 0 | 334   | 28  | 240  | 18  | 0   | 286  | 814   |
| 05:45 PM    | 48   | 2   | 17   | 0   | 67   | 67   | 38   | 10  | 41   | 0 | 89   | 43   | 246  | 69   | 0 | 358   | 16  | 197  | 21  | 0   | 234  | 748   |
| Total       | 213  | 30  | 91   | 2   | 336  | 336  | 177  | 30  | 177  | 0 | 384  | 204  | 989  | 304  | 0 | 1497  | 106 | 965  | 63  | 0   | 1134 | 3351  |
| Grand Total | 1683 | 133 | 588  | 17  | 2421 | 2421 | 1136 | 161 | 1220 | 0 | 2517 | 1395 | 7265 | 1529 | 2 | 10191 | 518 | 7625 | 501 | 5   | 8649 | 23778 |
| Apprch %    | 69.5 | 5.5 | 24.3 | 0.7 |      |      | 45.1 | 6.4 | 48.5 | 0 |      | 13.7 | 71.3 | 15   | 0 |       | 6   | 88.2 | 5.8 | 0.1 |      |       |
| Total %     | 7.1  | 0.6 | 2.5  | 0.1 | 10.2 | 10.2 | 4.8  | 0.7 | 5.1  | 0 | 10.6 | 5.9  | 30.6 | 6.4  | 0 | 42.9  | 2.2 | 32.1 | 2.1 | 0   | 36.4 |       |

|  | NEW FOUND HARBOR<br>Northbound |      |      |       |      | NEW FOUND HARBOR<br>Southbound |      |      |       |      | STATE ROAD 520<br>Eastbound |      |      |       |      | STATE ROAD 520<br>Westbound |      |      |       |      |           |           |
|--|--------------------------------|------|------|-------|------|--------------------------------|------|------|-------|------|-----------------------------|------|------|-------|------|-----------------------------|------|------|-------|------|-----------|-----------|
|  | Start Time                     | Left | Thru | Right | Peds | App.Total                      | Left | Thru | Right | Peds | App.Total                   | Left | Thru | Right | Peds | App.Total                   | Left | Thru | Right | Peds | App.Total | Int.Total |
| Peak Hour Analysis From 07:00 AM to 09:45 AM - Peak 1 of 1 |                                |      |      |       |      |                                |      |      |       |      |                             |      |      |       |      |                             |      |      |       |      |           |           |
| Peak Hour for Entire Intersection Begins at 07:45 AM       |                                |      |      |       |      |                                |      |      |       |      |                             |      |      |       |      |                             |      |      |       |      |           |           |
| 07:45 AM   | 62                             | 2    | 34   | 0     | 98   | 98                             | 4    | 2    | 10    | 0    | 16                          | 11   | 192  | 26    | 0    | 229                         | 8    | 202  | 6     | 0    | 216       | 559       |
| 08:00 AM   | 59                             | 1    | 20   | 0     | 80   | 80                             | 11   | 1    | 11    | 0    | 23                          | 21   | 181  | 23    | 0    | 225                         | 12   | 150  | 7     | 0    | 169       | 497       |
| 08:15 AM   | 71                             | 1    | 22   | 0     | 94   | 94                             | 7    | 1    | 13    | 0    | 21                          | 21   | 201  | 38    | 1    | 261                         | 14   | 211  | 6     | 0    | 231       | 607       |
| 08:30 AM   | 56                             | 4    | 22   | 0     | 82   | 82                             | 8    | 0    | 13    | 0    | 21                          | 13   | 170  | 39    | 0    | 222                         | 15   | 185  | 9     | 0    | 209       | 534       |
| Total Volume   | 248                            | 8    | 98   | 0     | 354  | 354                            | 30   | 4    | 47    | 0    | 81                          | 66   | 744  | 126   | 1    | 937                         | 49   | 748  | 28    | 0    | 825       | 2197      |
| % App.Total  | 70.1                           | 2.3  | 27.7 | 0     |      |                                | 37   | 4.9  | 58    | 0    |                             | 7    | 79.4 | 13.4  | 0.1  |                             | 5.9  | 90.7 | 3.4   | 0    |           |           |
| PHF  | .873                           | .500 | .721 | .000  | .903 | .903                           | .682 | .500 | .904  | .000 | .880                        | .786 | .925 | .808  | .250 | .898                        | .817 | .886 | .778  | .000 | .893      | .905      |

File Name : Not Named 1  
 Site Code : 00000000  
 Start Date : 1/26/2016  
 Page No : 2

|            | NEW FOUND HARBOR<br>Northbound |      |       |      |           | NEW FOUND HARBOR<br>Southbound |      |       |      |           | STATE ROAD 520<br>Eastbound |      |       |      |           | STATE ROAD 520<br>Westbound |      |       |      |           |            |
|------------|--------------------------------|------|-------|------|-----------|--------------------------------|------|-------|------|-----------|-----------------------------|------|-------|------|-----------|-----------------------------|------|-------|------|-----------|------------|
| Start Time | Left                           | Thru | Right | Peds | App.Total | Left                           | Thru | Right | Peds | App.Total | Left                        | Thru | Right | Peds | App.Total | Left                        | Thru | Right | Peds | App.Total | Int. Total |

Peak Hour Analysis From 07:00 AM to 09:45 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

|              | 07:30 AM |      |      |      |      | 08:00 AM |      |      |      |      | 08:00 AM |      |      |      |      | 07:45 AM |      |      |      |      |
|--------------|----------|------|------|------|------|----------|------|------|------|------|----------|------|------|------|------|----------|------|------|------|------|
| +0 mins.     | 99       | 1    | 26   | 1    | 127  | 11       | 1    | 11   | 0    | 23   | 21       | 181  | 23   | 0    | 225  | 8        | 202  | 6    | 0    | 216  |
| +15 mins.    | 62       | 2    | 34   | 0    | 98   | 7        | 1    | 13   | 0    | 21   | 21       | 201  | 38   | 1    | 261  | 12       | 150  | 7    | 0    | 169  |
| +30 mins.    | 59       | 1    | 20   | 0    | 80   | 8        | 0    | 13   | 0    | 21   | 13       | 170  | 39   | 0    | 222  | 14       | 211  | 6    | 0    | 231  |
| +45 mins.    | 71       | 1    | 22   | 0    | 94   | 11       | 2    | 15   | 0    | 28   | 33       | 183  | 31   | 0    | 247  | 15       | 185  | 9    | 0    | 209  |
| Total Volume | 291      | 5    | 102  | 1    | 399  | 37       | 4    | 52   | 0    | 93   | 88       | 735  | 131  | 1    | 955  | 49       | 748  | 28   | 0    | 825  |
| % App. Total | 72.9     | 1.3  | 25.6 | 0.3  |      | 39.8     | 4.3  | 55.9 | 0    |      | 9.2      | 77   | 13.7 | 0.1  |      | 5.9      | 90.7 | 3.4  | 0    |      |
| PHF          | .735     | .625 | .750 | .250 | .785 | .841     | .500 | .867 | .000 | .830 | .667     | .914 | .840 | .250 | .915 | .817     | .886 | .778 | .000 | .893 |

Peak Hour Analysis From 10:00 AM to 01:45 PM - Peak 1 of 1

Peak Hour for Entire Intersection Begins at 12:45 PM

|              |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|--------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 12:45 PM     | 53   | 4    | 24   | 2    | 83   | 38   | 6    | 53   | 0    | 97   | 53   | 281  | 41   | 0    | 375  | 12   | 274  | 24   | 0    | 310  | 865  |
| 01:00 PM     | 35   | 2    | 12   | 2    | 51   | 45   | 5    | 42   | 0    | 92   | 50   | 222  | 35   | 0    | 307  | 10   | 243  | 21   | 1    | 275  | 725  |
| 01:15 PM     | 34   | 4    | 10   | 2    | 50   | 49   | 5    | 52   | 0    | 106  | 49   | 271  | 32   | 0    | 352  | 12   | 305  | 28   | 1    | 346  | 854  |
| 01:30 PM     | 46   | 4    | 14   | 2    | 66   | 69   | 6    | 52   | 0    | 127  | 41   | 272  | 49   | 0    | 362  | 7    | 254  | 25   | 0    | 286  | 841  |
| Total Volume | 168  | 14   | 60   | 8    | 250  | 201  | 22   | 199  | 0    | 422  | 193  | 1046 | 157  | 0    | 1396 | 41   | 1076 | 98   | 2    | 1217 | 3285 |
| % App. Total | 67.2 | 5.6  | 24.2 | 3.2  |      | 47.6 | 5.2  | 47.2 | 0    |      | 13.8 | 74.9 | 11.2 | 0    |      | 3.4  | 88.4 | 8.1  | 0.2  |      |      |
| PHF          | .792 | .875 | .625 | 1.00 | .753 | .728 | .917 | .939 | .000 | .831 | .910 | .931 | .801 | .000 | .931 | .854 | .882 | .875 | .500 | .879 | .949 |

Peak Hour Analysis From 10:00 AM to 01:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

|              | 12:00 PM |      |      |      |      | 01:00 PM |      |      |      |      | 12:45 PM |      |      |      |      | 01:00 PM |      |      |      |      |  |
|--------------|----------|------|------|------|------|----------|------|------|------|------|----------|------|------|------|------|----------|------|------|------|------|--|
| +0 mins.     | 56       | 4    | 16   | 0    | 76   | 45       | 5    | 42   | 0    | 92   | 53       | 281  | 41   | 0    | 375  | 10       | 243  | 21   | 1    | 275  |  |
| +15 mins.    | 42       | 2    | 21   | 0    | 65   | 49       | 5    | 52   | 0    | 106  | 50       | 222  | 35   | 0    | 307  | 12       | 305  | 28   | 1    | 346  |  |
| +30 mins.    | 53       | 2    | 9    | 0    | 64   | 69       | 6    | 52   | 0    | 127  | 49       | 271  | 32   | 0    | 352  | 7        | 254  | 25   | 0    | 286  |  |
| +45 mins.    | 53       | 4    | 24   | 2    | 83   | 43       | 6    | 52   | 0    | 101  | 41       | 272  | 49   | 0    | 362  | 22       | 300  | 24   | 0    | 346  |  |
| Total Volume | 204      | 12   | 70   | 2    | 288  | 206      | 22   | 198  | 0    | 426  | 193      | 1046 | 157  | 0    | 1396 | 51       | 1102 | 98   | 2    | 1253 |  |
| % App. Total | 70.8     | 4.2  | 24.3 | 0.7  |      | 48.4     | 5.2  | 46.5 | 0    |      | 13.8     | 74.9 | 11.2 | 0    |      | 4.1      | 87.9 | 7.8  | 0.2  |      |  |
| PHF          | .911     | .750 | .729 | .250 | .867 | .746     | .917 | .952 | .000 | .839 | .910     | .931 | .801 | .000 | .931 | .580     | .903 | .875 | .500 | .905 |  |

Peak Hour Analysis From 02:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Entire Intersection Begins at 03:45 PM

|              |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|--------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 03:45 PM     | 55   | 5    | 16   | 0    | 76   | 43   | 5    | 45   | 0    | 93   | 51   | 257  | 61   | 0    | 369  | 19   | 284  | 15   | 0    | 318  | 856  |
| 04:00 PM     | 58   | 7    | 15   | 1    | 81   | 49   | 8    | 48   | 0    | 105  | 70   | 231  | 66   | 0    | 367  | 28   | 294  | 13   | 0    | 335  | 888  |
| 04:15 PM     | 56   | 5    | 19   | 1    | 81   | 49   | 8    | 52   | 0    | 109  | 64   | 286  | 84   | 0    | 434  | 16   | 231  | 16   | 0    | 263  | 887  |
| 04:30 PM     | 62   | 5    | 11   | 0    | 78   | 46   | 7    | 52   | 0    | 105  | 64   | 271  | 80   | 0    | 415  | 42   | 278  | 12   | 0    | 332  | 930  |
| Total Volume | 231  | 22   | 61   | 2    | 316  | 187  | 28   | 197  | 0    | 412  | 249  | 1045 | 291  | 0    | 1585 | 105  | 1087 | 56   | 0    | 1248 | 3561 |
| % App. Total | 73.1 | 7    | 19.3 | 0.6  |      | 45.4 | 6.8  | 47.8 | 0    |      | 15.7 | 65.9 | 18.4 | 0    |      | 8.4  | 87.1 | 4.5  | 0    |      |      |
| PHF          | .931 | .786 | .803 | .500 | .975 | .954 | .875 | .947 | .000 | .945 | .889 | .913 | .866 | .000 | .913 | .625 | .924 | .875 | .000 | .931 | .957 |

Peak Hour Analysis From 02:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

|              | 04:45 PM |      |      |      |      | 04:00 PM |      |      |      |      | 04:15 PM |      |      |      |      | 03:15 PM |      |      |      |      |  |
|--------------|----------|------|------|------|------|----------|------|------|------|------|----------|------|------|------|------|----------|------|------|------|------|--|
| +0 mins.     | 58       | 9    | 13   | 0    | 80   | 49       | 8    | 48   | 0    | 105  | 64       | 286  | 84   | 0    | 434  | 16       | 290  | 13   | 0    | 319  |  |
| +15 mins.    | 60       | 6    | 31   | 0    | 97   | 49       | 8    | 52   | 0    | 109  | 64       | 271  | 80   | 0    | 415  | 14       | 299  | 12   | 0    | 325  |  |
| +30 mins.    | 55       | 7    | 24   | 2    | 88   | 46       | 7    | 52   | 0    | 105  | 54       | 228  | 75   | 0    | 357  | 19       | 284  | 15   | 0    | 318  |  |
| +45 mins.    | 50       | 15   | 19   | 0    | 84   | 44       | 12   | 38   | 0    | 94   | 53       | 278  | 79   | 0    | 410  | 28       | 294  | 13   | 0    | 335  |  |
| Total Volume | 223      | 37   | 87   | 2    | 349  | 188      | 35   | 190  | 0    | 413  | 235      | 1063 | 318  | 0    | 1616 | 77       | 1167 | 53   | 0    | 1297 |  |
| % App. Total | 63.9     | 10.6 | 24.9 | 0.6  |      | 45.5     | 8.5  | 46   | 0    |      | 14.5     | 65.8 | 19.7 | 0    |      | 5.9      | 90   | 4.1  | 0    |      |  |
| PHF          | .929     | .617 | .702 | .250 | .899 | .959     | .729 | .913 | .000 | .947 | .918     | .929 | .946 | .000 | .931 | .688     | .976 | .883 | .000 | .968 |  |

Groups Printed- Heavy Trucks

|            | NEW FOUND HARBOR<br>Northbound |      |       |      |           | NEW FOUND HARBOR<br>Southbound |      |       |      |           | STATE ROAD 520<br>Eastbound |      |       |      |           | STATE ROAD 520<br>Westbound |      |       |      |           |            |
|------------|--------------------------------|------|-------|------|-----------|--------------------------------|------|-------|------|-----------|-----------------------------|------|-------|------|-----------|-----------------------------|------|-------|------|-----------|------------|
| Start Time | Left                           | Thru | Right | Peds | App.Total | Left                           | Thru | Right | Peds | App.Total | Left                        | Thru | Right | Peds | App.Total | Left                        | Thru | Right | Peds | App.Total | Int. Total |
| 07:00 AM   | 0                              | 0    | 0     | 0    | 0         | 0                              | 0    | 2     | 0    | 2         | 0                           | 1    | 3     | 0    | 4         | 0                           | 0    | 0     | 0    | 0         | 6          |
| 07:15 AM   | 3                              | 0    | 1     | 0    | 4         | 0                              | 0    | 1     | 0    | 1         | 2                           | 2    | 1     | 0    | 5         | 0                           | 2    | 1     | 1    | 4         | 14         |
| 07:30 AM   | 1                              | 0    | 0     | 1    | 2         | 1                              | 0    | 1     | 0    | 2         | 0                           | 4    | 0     | 1    | 5         | 0                           | 4    | 0     | 1    | 5         | 14         |
| 07:45 AM   | 1                              | 0    | 0     | 0    | 1         | 0                              | 0    | 2     | 0    | 2         | 0                           | 5    | 1     | 0    | 6         | 0                           | 2    | 2     | 0    | 4         | 13         |
| Total      | 5                              | 0    | 1     | 1    | 7         | 1                              | 0    | 6     | 0    | 7         | 2                           | 12   | 5     | 1    | 20        | 0                           | 8    | 3     | 2    | 13        | 47         |
| 08:00 AM   | 0                              | 0    | 0     | 0    | 0         | 0                              | 0    | 1     | 0    | 1         | 0                           | 3    | 0     | 0    | 3         | 0                           | 1    | 0     | 0    | 1         | 5          |
| 08:15 AM   | 2                              | 0    | 0     | 0    | 2         | 0                              | 0    | 1     | 0    | 1         | 0                           | 6    | 0     | 1    | 7         | 0                           | 0    | 1     | 0    | 0         | 11         |
| 08:30 AM   | 0                              | 0    | 1     | 0    | 1         | 0                              | 0    | 3     | 0    | 3         | 1                           | 5    | 1     | 0    | 7         | 0                           | 3    | 0     | 0    | 3         | 14         |
| Total      | 2                              | 0    | 1     | 0    | 3         | 1                              | 0    | 6     | 0    | 7         | 1                           | 16   | 1     | 1    | 19        | 0                           | 9    | 1     | 0    | 10        | 39         |

\*\*\* BREAK \*\*\*

|             |      |   |      |      |    |      |   |      |   |      |     |      |      |     |      |     |      |     |     |      |     |
|-------------|------|---|------|------|----|------|---|------|---|------|-----|------|------|-----|------|-----|------|-----|-----|------|-----|
| 12:00 PM    | 0    | 0 | 0    | 0    | 0  | 0    | 0 | 1    | 0 | 1    | 0   | 3    | 0    | 0   | 3    | 1   | 5    | 0   | 0   | 6    | 10  |
| 12:15 PM    | 0    | 0 | 0    | 0    | 0  | 0    | 0 | 1    | 0 | 1    | 2   | 2    | 0    | 0   | 4    | 0   | 3    | 0   | 0   | 3    | 8   |
| 12:30 PM    | 0    | 0 | 0    | 0    | 0  | 0    | 0 | 1    | 0 | 1    | 0   | 3    | 0    | 0   | 3    | 0   | 2    | 0   | 0   | 2    | 6   |
| 12:45 PM    | 0    | 0 | 0    | 0    | 0  | 1    | 0 | 0    | 0 | 1    | 0   | 5    | 0    | 0   | 5    | 0   | 0    | 0   | 0   | 0    | 6   |
| Total       | 0    | 0 | 0    | 0    | 0  | 1    | 0 | 3    | 0 | 4    | 2   | 13   | 0    | 0   | 15   | 1   | 10   | 0   | 0   | 11   | 30  |
| 01:00 PM    | 0    | 0 | 0    | 1    | 1  | 1    | 0 | 2    | 0 | 3    | 0   | 0    | 0    | 0   | 0    | 0   | 3    | 0   | 1   | 4    | 8   |
| 01:15 PM    | 1    | 0 | 0    | 2    | 3  | 0    | 0 | 1    | 0 | 1    | 0   | 2    | 0    | 0   | 2    | 0   | 4    | 0   | 0   | 4    | 10  |
| 01:30 PM    | 0    | 0 | 0    | 1    | 1  | 1    | 0 | 1    | 0 | 2    | 0   | 1    | 0    | 0   | 1    | 0   | 2    | 0   | 0   | 2    | 6   |
| 01:45 PM    | 0    | 0 | 0    | 1    | 1  | 0    | 0 | 0    | 0 | 0    | 1   | 4    | 0    | 0   | 5    | 0   | 0    | 0   | 0   | 0    | 6   |
| Total       | 1    | 0 | 0    | 5    | 6  | 2    | 0 | 4    | 0 | 6    | 1   | 7    | 0    | 0   | 8    | 0   | 9    | 0   | 1   | 10   | 30  |
| 02:00 PM    | 0    | 0 | 0    | 0    | 0  | 0    | 0 | 1    | 0 | 1    | 0   | 9    | 0    | 0   | 9    | 0   | 3    | 0   | 0   | 3    | 13  |
| 02:15 PM    | 0    | 0 | 1    | 0    | 1  | 0    | 0 | 1    | 0 | 1    | 0   | 1    | 2    | 0   | 3    | 0   | 4    | 0   | 0   | 4    | 9   |
| 02:30 PM    | 0    | 0 | 0    | 0    | 0  | 0    | 0 | 1    | 0 | 1    | 0   | 3    | 2    | 0   | 5    | 1   | 2    | 0   | 0   | 3    | 9   |
| 02:45 PM    | 3    | 0 | 1    | 0    | 4  | 0    | 0 | 1    | 0 | 1    | 0   | 2    | 1    | 0   | 3    | 0   | 5    | 0   | 0   | 5    | 13  |
| Total       | 3    | 0 | 2    | 0    | 5  | 0    | 0 | 4    | 0 | 4    | 0   | 15   | 5    | 0   | 20   | 1   | 14   | 0   | 0   | 15   | 44  |
| 03:00 PM    | 2    | 0 | 0    | 0    | 2  | 0    | 0 | 1    | 0 | 1    | 0   | 1    | 0    | 0   | 1    | 0   | 1    | 0   | 0   | 1    | 5   |
| 03:15 PM    | 0    | 0 | 0    | 0    | 0  | 0    | 0 | 1    | 0 | 1    | 0   | 1    | 0    | 0   | 1    | 1   | 3    | 0   | 0   | 4    | 6   |
| 03:30 PM    | 0    | 0 | 0    | 0    | 0  | 0    | 0 | 2    | 0 | 2    | 0   | 1    | 0    | 0   | 1    | 0   | 0    | 0   | 0   | 0    | 3   |
| 03:45 PM    | 0    | 0 | 0    | 0    | 0  | 0    | 0 | 1    | 0 | 1    | 0   | 2    | 0    | 0   | 2    | 0   | 0    | 0   | 0   | 0    | 3   |
| Total       | 2    | 0 | 0    | 0    | 2  | 0    | 0 | 5    | 0 | 5    | 0   | 5    | 0    | 0   | 5    | 1   | 4    | 0   | 0   | 5    | 17  |
| 04:00 PM    | 0    | 0 | 0    | 0    | 0  | 0    | 0 | 1    | 0 | 1    | 0   | 1    | 0    | 0   | 1    | 0   | 4    | 0   | 0   | 4    | 6   |
| 04:15 PM    | 0    | 0 | 0    | 1    | 1  | 0    | 0 | 2    | 0 | 2    | 0   | 2    | 1    | 0   | 3    | 0   | 2    | 0   | 0   | 2    | 8   |
| 04:30 PM    | 0    | 0 | 0    | 0    | 0  | 0    | 0 | 1    | 0 | 1    | 0   | 4    | 0    | 0   | 4    | 0   | 2    | 0   | 0   | 2    | 7   |
| 04:45 PM    | 1    | 0 | 0    | 0    | 1  | 0    | 0 | 0    | 0 | 0    | 0   | 1    | 0    | 0   | 1    | 0   | 1    | 0   | 0   | 1    | 3   |
| Total       | 1    | 0 | 0    | 1    | 2  | 0    | 0 | 4    | 0 | 4    | 0   | 8    | 1    | 0   | 9    | 0   | 9    | 0   | 0   | 9    | 24  |
| 05:00 PM    | 0    | 0 | 0    | 0    | 0  | 0    | 0 | 2    | 0 | 2    | 1   | 1    | 1    | 0   | 3    | 0   | 0    | 0   | 0   | 0    | 5   |
| 05:15 PM    | 0    | 0 | 0    | 2    | 2  | 0    | 0 | 1    | 0 | 1    | 0   | 1    | 0    | 0   | 1    | 0   | 1    | 0   | 0   | 1    | 5   |
| 05:30 PM    | 0    | 0 | 0    | 0    | 0  | 0    | 0 | 2    | 0 | 2    | 0   | 0    | 0    | 0   | 0    | 0   | 1    | 0   | 0   | 1    | 3   |
| 05:45 PM    | 0    | 0 | 0    | 0    | 0  | 0    | 0 | 0    | 0 | 0    | 0   | 1    | 0    | 0   | 1    | 0   | 0    | 0   | 0   | 0    | 1   |
| Total       | 0    | 0 | 0    | 2    | 2  | 0    | 0 | 5    | 0 | 5    | 1   | 3    | 1    | 0   | 5    | 0   | 2    | 0   | 0   | 2    | 14  |
| Grand Total | 14   | 0 | 4    | 9    | 27 | 5    | 0 | 37   | 0 | 42   | 7   | 79   | 13   | 2   | 101  | 3   | 65   | 4   | 3   | 75   | 245 |
| Apprch %    | 51.9 | 0 | 14.8 | 33.3 |    | 11.9 | 0 | 88.1 | 0 |      | 6.9 | 78.2 | 12.9 | 2   |      | 4   | 86.7 | 5.3 | 4   |      |     |
| Total %     | 5.7  | 0 | 1.6  | 3.7  | 11 | 2    | 0 | 15.1 | 0 | 17.1 | 2.9 | 32.2 | 5.3  | 0.8 | 41.2 | 1.2 | 26.5 | 1.6 | 1.2 | 30.6 |     |

|  | NEW FOUND HARBOR<br>Northbound |      |       |      |           | NEW FOUND HARBOR<br>Southbound |      |       |      |           | STATE ROAD 520<br>Eastbound |      |       |      |           | STATE ROAD 520<br>Westbound |      |       |      |           |            |
|--|--------------------------------|------|-------|------|-----------|--------------------------------|------|-------|------|-----------|-----------------------------|------|-------|------|-----------|-----------------------------|------|-------|------|-----------|------------|
| Start Time   | Left                           | Thru | Right | Peds | App.Total | Left                           | Thru | Right | Peds | App.Total | Left                        | Thru | Right | Peds | App.Total | Left                        | Thru | Right | Peds | App.Total | Int. Total |
| Peak Hour Analysis From 07:00 AM to 09:45 AM - Peak 1 of 1 |                                |      |       |      |           |                                |      |       |      |           |                             |      |       |      |           |                             |      |       |      |           |            |
| Peak Hour for Entire Intersection Begins at 07:00 AM       |                                |      |       |      |           |                                |      |       |      |           |                             |      |       |      |           |                             |      |       |      |           |            |
| 07:00 AM   | 0                              | 0    | 0     | 0    | 0         | 0                              | 0    | 2     | 0    | 2         | 0                           | 1    | 3     | 0    | 4         | 0                           | 0    | 0     | 0    | 0         | 6          |
| 07:15 AM   | 3                              | 0    | 1     | 0    | 4         | 0                              | 0    | 1     | 0    | 1         | 2                           | 2    | 1     | 0    | 5         | 0                           | 2    | 1     | 1    | 4         | 14         |
| 07:30 AM   | 1                              | 0    | 0     | 1    | 2         | 1                              | 0    | 1     | 0    | 2         | 0                           | 4    | 0     | 1    | 5         | 0                           | 4    | 0     | 1    | 5         | 14         |
| 07:45 AM   | 1                              | 0    | 0     | 0    | 1         | 0                              | 0    | 2     | 0    | 2         | 0                           | 5    | 1     | 0    | 6         | 0                           | 2    | 2     | 0    | 4         | 13         |
| Total Volume   | 5                              | 0    | 1     | 1    | 7         | 1                              | 0    | 6     | 0    | 7         | 2                           | 12   | 5     | 1    | 20        | 0                           | 8    | 3     | 2    | 13        | 47         |
| % App.Total  | 71.4                           | 0    | 14.3  | 14.3 |           | 14.3                           | 0    | 85.7  | 0    |           | 10                          | 60   | 25    | 5    |           | 0                           | 61.5 | 23.1  | 15.4 |           |            |
| PHF  | .417                           | .000 | .250  | .250 | .438      | .250                           | .000 | .750  | .000 | .875      | .250                        | .600 | .417  | .250 | .833      | .000                        | .500 | .375  | .500 | .650      | .839       |

|            | NEW FOUND HARBOR<br>Northbound |      |       |      |           | NEW FOUND HARBOR<br>Southbound |      |       |      |           | STATE ROAD 520<br>Eastbound |      |       |      |           | STATE ROAD 520<br>Westbound |      |       |      |           |           |
|------------|--------------------------------|------|-------|------|-----------|--------------------------------|------|-------|------|-----------|-----------------------------|------|-------|------|-----------|-----------------------------|------|-------|------|-----------|-----------|
| Start Time | Left                           | Thru | Right | Peds | App.Total | Left                           | Thru | Right | Peds | App.Total | Left                        | Thru | Right | Peds | App.Total | Left                        | Thru | Right | Peds | App.Total | Int.Total |

Peak Hour Analysis From 07:00 AM to 09:45 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

|              | 07:00 AM                 | 07:00 AM                 | 07:45 AM                 | 07:15 AM                 |
|--------------|--------------------------|--------------------------|--------------------------|--------------------------|
| +0 mins.     | 0 0 0 0 0                | 0 0 2 0 2                | 0 5 1 0 6                | 0 2 1 1 4                |
| +15 mins.    | 3 0 1 0 4                | 0 0 1 0 1                | 0 3 0 0 3                | 0 4 0 1 5                |
| +30 mins.    | 1 0 0 1 2                | 1 0 1 0 2                | 0 6 0 1 7                | 0 2 2 0 4                |
| +45 mins.    | 1 0 0 0 1                | 0 0 2 0 2                | 1 5 1 0 7                | 0 1 0 0 1                |
| Total Volume | 5 0 1 1 7                | 1 0 6 0 7                | 1 19 2 1 23              | 0 9 3 2 14               |
| % App. Total | 71.4 0 14.3 14.3         | 14.3 0 85.7 0            | 4.3 82.6 8.7 4.3         | 0 64.3 21.4 14.3         |
| PHF          | .417 .000 .250 .250 .438 | .250 .000 .750 .000 .875 | .250 .792 .500 .250 .821 | .000 .563 .375 .500 .700 |

Peak Hour Analysis From 10:00 AM to 01:45 PM - Peak 1 of 1

Peak Hour for Entire Intersection Begins at 12:00 PM

|              | 12:00 PM                 | 12:15 PM                 | 12:30 PM                 | 12:45 PM                 | Total Volume | % App. Total | PHF |
|--------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------|--------------|-----|
| 12:00 PM     | 0 0 0 0 0                | 0 0 1 0 1                | 0 3 0 0 3                | 1 5 0 0 6                | 10           |              |     |
| 12:15 PM     | 0 0 0 0 0                | 0 0 1 0 1                | 2 2 0 0 4                | 0 3 0 0 3                | 8            |              |     |
| 12:30 PM     | 0 0 0 0 0                | 0 0 1 0 1                | 0 3 0 0 3                | 0 2 0 0 2                | 6            |              |     |
| 12:45 PM     | 0 0 0 0 0                | 1 0 0 0 1                | 0 5 0 0 5                | 0 0 0 0 0                | 6            |              |     |
|              |                          |                          |                          |                          |              |              |     |
| Total Volume | 0 0 0 0 0                | 1 0 3 0 4                | 2 13 0 0 15              | 1 10 0 0 11              | 30           |              |     |
| % App. Total | 0 0 0 0 0                | 25 0 75 0                | 13.3 86.7 0 0            | 9.1 90.9 0 0             |              |              |     |
| PHF          | .000 .000 .000 .000 .000 | .250 .000 .750 .000 1.00 | .250 .650 .000 .000 .750 | .250 .500 .000 .000 .458 | .750         |              |     |

Peak Hour Analysis From 10:00 AM to 01:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

|              | 01:00 PM                 | 12:45 PM                 | 12:00 PM                 | 11:45 AM                 |
|--------------|--------------------------|--------------------------|--------------------------|--------------------------|
| +0 mins.     | 0 0 0 1 1                | 1 0 0 0 1                | 0 3 0 0 3                | 0 0 0 0 0                |
| +15 mins.    | 1 0 0 2 3                | 1 0 2 0 3                | 2 2 0 0 4                | 1 5 0 0 6                |
| +30 mins.    | 0 0 0 1 1                | 0 0 1 0 1                | 0 3 0 0 3                | 0 3 0 0 3                |
| +45 mins.    | 0 0 0 1 1                | 1 0 1 0 2                | 0 5 0 0 5                | 2 0 0 0 2                |
| Total Volume | 1 0 0 5 6                | 3 0 4 0 7                | 2 13 0 0 15              | 1 10 0 0 11              |
| % App. Total | 16.7 0 83.3              | 42.9 0 57.1 0            | 13.3 86.7 0 0            | 9.1 90.9 0 0             |
| PHF          | .250 .000 .000 .625 .500 | .750 .000 .500 .000 .583 | .250 .650 .000 .000 .750 | .250 .500 .000 .000 .458 |

Peak Hour Analysis From 02:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Entire Intersection Begins at 02:00 PM

|              | 02:00 PM                 | 02:15 PM                 | 02:30 PM                 | 02:45 PM                 | Total Volume | % App. Total | PHF |
|--------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------|--------------|-----|
| 02:00 PM     | 0 0 0 0 0                | 0 0 1 0 1                | 0 1 0 0 1                | 0 9 0 0 9                | 0 3 0 0 3    |              |     |
| 02:15 PM     | 0 0 1 0 1                | 0 0 0 1 0                | 1 0 1 0 1                | 0 1 2 0 3                | 0 4 0 0 4    |              |     |
| 02:30 PM     | 0 0 0 0 0                | 0 0 0 1 0                | 0 1 0 0 1                | 0 3 2 0 5                | 1 2 0 0 3    |              |     |
| 02:45 PM     | 3 0 1 0 4                | 0 0 1 0 1                | 0 2 1 0 1                | 0 2 1 0 3                | 0 5 0 0 5    |              |     |
|              |                          |                          |                          |                          |              |              |     |
| Total Volume | 3 0 2 0 5                | 0 0 4 0 4                | 0 15 5 0 20              | 1 14 0 0 15              | 44           |              |     |
| % App. Total | 60 0 40 0                | 0 0 100 0                | 0 75 25 0                | 6.7 93.3 0 0             |              |              |     |
| PHF          | .250 .000 .500 .000 .313 | .000 .000 1.00 .000 1.00 | .000 .417 .625 .000 .556 | .250 .700 .000 .000 .750 | .846         |              |     |

Peak Hour Analysis From 02:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

|              | 02:15 PM                 | 03:30 PM                 | 02:00 PM                 | 02:00 PM                 |
|--------------|--------------------------|--------------------------|--------------------------|--------------------------|
| +0 mins.     | 0 0 1 0 1                | 0 0 2 0 2                | 0 9 0 0 9                | 0 3 0 0 3                |
| +15 mins.    | 0 0 0 0 0                | 0 0 1 0 1                | 1 2 0 0 3                | 4 0 0 0 4                |
| +30 mins.    | 3 0 1 0 4                | 0 0 1 0 1                | 0 3 2 0 5                | 1 2 0 0 3                |
| +45 mins.    | 2 0 0 0 2                | 0 0 2 0 2                | 0 2 1 0 3                | 0 5 0 0 5                |
| Total Volume | 5 0 2 0 7                | 0 0 6 0 6                | 0 15 5 0 20              | 1 14 0 0 15              |
| % App. Total | 71.4 0 28.6 0            | 0 0 100 0                | 0 75 25 0                | 6.7 93.3 0 0             |
| PHF          | .417 .000 .500 .000 .438 | .000 .000 .750 .000 .750 | .000 .417 .625 .000 .556 | .250 .700 .000 .000 .750 |

File Name : TMC  
 Site Code : 00000000  
 Start Date : 1/26/2016  
 Page No : 1

Groups Printed- UTurns

|                      | NEW FOUND HARBOR<br>Northbound |      |       |      |           | NEW FOUND HARBOR<br>Southbound |      |       |      |           | STATE ROAD 520<br>Eastbound |      |       |      |           | STATE ROAD 520<br>Westbound |      |       |      |           |           |
|----------------------|--------------------------------|------|-------|------|-----------|--------------------------------|------|-------|------|-----------|-----------------------------|------|-------|------|-----------|-----------------------------|------|-------|------|-----------|-----------|
| Start Time           | Left                           | Thru | Right | Peds | App.Total | Left                           | Thru | Right | Peds | App.Total | Left                        | Thru | Right | Peds | App.Total | Left                        | Thru | Right | Peds | App.Total | Int.Total |
| <b>*** BREAK ***</b> |                                |      |       |      |           |                                |      |       |      |           |                             |      |       |      |           |                             |      |       |      |           |           |
| 07:30 AM             | 0                              | 0    | 0     | 0    | 0         | 0                              | 0    | 0     | 0    | 0         | 0                           | 0    | 0     | 0    | 0         | 1                           | 0    | 0     | 0    | 1         |           |
| 07:45 AM             | 0                              | 0    | 0     | 0    | 0         | 0                              | 0    | 0     | 0    | 0         | 0                           | 1    | 0     | 0    | 0         | 0                           | 0    | 0     | 0    | 1         |           |
| Total                | 0                              | 0    | 0     | 0    | 0         | 0                              | 0    | 0     | 0    | 0         | 0                           | 1    | 0     | 0    | 0         | 1                           | 1    | 0     | 0    | 0         | 2         |
| <b>*** BREAK ***</b> |                                |      |       |      |           |                                |      |       |      |           |                             |      |       |      |           |                             |      |       |      |           |           |
| 08:45 AM             | 0                              | 0    | 0     | 0    | 0         | 0                              | 0    | 0     | 0    | 0         | 1                           | 0    | 0     | 0    | 0         | 0                           | 0    | 0     | 0    | 0         |           |
| Total                | 0                              | 0    | 0     | 0    | 0         | 0                              | 0    | 0     | 0    | 0         | 1                           | 0    | 0     | 0    | 0         | 0                           | 0    | 0     | 0    | 1         |           |
| <b>*** BREAK ***</b> |                                |      |       |      |           |                                |      |       |      |           |                             |      |       |      |           |                             |      |       |      |           |           |
| 12:15 PM             | 0                              | 0    | 0     | 0    | 0         | 0                              | 0    | 0     | 0    | 0         | 0                           | 0    | 0     | 0    | 0         | 1                           | 0    | 0     | 0    | 1         |           |
| <b>*** BREAK ***</b> |                                |      |       |      |           |                                |      |       |      |           |                             |      |       |      |           |                             |      |       |      |           |           |
| 12:45 PM             | 0                              | 0    | 0     | 0    | 0         | 0                              | 0    | 0     | 0    | 0         | 0                           | 0    | 0     | 0    | 0         | 1                           | 0    | 0     | 0    | 1         |           |
| Total                | 0                              | 0    | 0     | 0    | 0         | 0                              | 0    | 0     | 0    | 0         | 0                           | 0    | 0     | 0    | 0         | 2                           | 0    | 0     | 0    | 2         |           |
| <b>*** BREAK ***</b> |                                |      |       |      |           |                                |      |       |      |           |                             |      |       |      |           |                             |      |       |      |           |           |
| 02:15 PM             | 0                              | 0    | 0     | 0    | 0         | 0                              | 0    | 0     | 0    | 0         | 0                           | 0    | 0     | 0    | 0         | 1                           | 0    | 0     | 0    | 1         |           |
| 02:30 PM             | 0                              | 0    | 0     | 0    | 0         | 0                              | 0    | 0     | 0    | 0         | 0                           | 0    | 0     | 0    | 0         | 1                           | 0    | 0     | 0    | 1         |           |
| 02:45 PM             | 0                              | 0    | 0     | 0    | 0         | 0                              | 0    | 0     | 0    | 0         | 0                           | 0    | 0     | 0    | 0         | 1                           | 0    | 0     | 0    | 1         |           |
| Total                | 0                              | 0    | 0     | 0    | 0         | 0                              | 0    | 0     | 0    | 0         | 0                           | 0    | 0     | 0    | 0         | 3                           | 0    | 0     | 0    | 3         |           |
| <b>*** BREAK ***</b> |                                |      |       |      |           |                                |      |       |      |           |                             |      |       |      |           |                             |      |       |      |           |           |
| 04:15 PM             | 0                              | 0    | 0     | 0    | 0         | 0                              | 0    | 0     | 0    | 0         | 0                           | 0    | 0     | 0    | 0         | 1                           | 0    | 0     | 0    | 1         |           |
| <b>*** BREAK ***</b> |                                |      |       |      |           |                                |      |       |      |           |                             |      |       |      |           |                             |      |       |      |           |           |
| Total                | 0                              | 0    | 0     | 0    | 0         | 0                              | 0    | 0     | 0    | 0         | 0                           | 0    | 0     | 0    | 0         | 1                           | 0    | 0     | 0    | 1         |           |
| <b>*** BREAK ***</b> |                                |      |       |      |           |                                |      |       |      |           |                             |      |       |      |           |                             |      |       |      |           |           |
| 05:30 PM             | 0                              | 0    | 0     | 0    | 0         | 0                              | 0    | 0     | 0    | 0         | 0                           | 0    | 0     | 0    | 0         | 1                           | 0    | 0     | 0    | 1         |           |
| 05:45 PM             | 0                              | 0    | 0     | 0    | 0         | 0                              | 0    | 0     | 0    | 0         | 0                           | 0    | 0     | 0    | 0         | 0                           | 0    | 0     | 0    | 0         |           |
| Total                | 0                              | 0    | 0     | 0    | 0         | 0                              | 0    | 0     | 0    | 0         | 0                           | 0    | 0     | 0    | 0         | 1                           | 1    | 0     | 0    | 2         |           |
| Grand Total          | 0                              | 0    | 0     | 0    | 0         | 0                              | 0    | 0     | 0    | 0         | 2                           | 1    | 0     | 0    | 3         | 8                           | 0    | 0     | 0    | 8         |           |
| Apprch %             | 0                              | 0    | 0     | 0    | 0         | 0                              | 0    | 0     | 0    | 0         | 66.7                        | 33.3 | 0     | 0    | 0         | 100                         | 0    | 0     | 0    | 0         |           |
| Total %              | 0                              | 0    | 0     | 0    | 0         | 0                              | 0    | 0     | 0    | 0         | 18.2                        | 9.1  | 0     | 0    | 27.3      | 72.7                        | 0    | 0     | 0    | 72.7      |           |

|  | NEW FOUND HARBOR<br>Northbound |      |       |      |           | NEW FOUND HARBOR<br>Southbound |      |       |      |           | STATE ROAD 520<br>Eastbound |      |       |      |           | STATE ROAD 520<br>Westbound |      |       |      |           |           |
|--|--------------------------------|------|-------|------|-----------|--------------------------------|------|-------|------|-----------|-----------------------------|------|-------|------|-----------|-----------------------------|------|-------|------|-----------|-----------|
| Start Time   | Left                           | Thru | Right | Peds | App.Total | Left                           | Thru | Right | Peds | App.Total | Left                        | Thru | Right | Peds | App.Total | Left                        | Thru | Right | Peds | App.Total | Int.Total |
| Peak Hour Analysis From 07:00 AM to 09:45 AM - Peak 1 of 1 |                                |      |       |      |           |                                |      |       |      |           |                             |      |       |      |           |                             |      |       |      |           |           |
| Peak Hour for Entire Intersection Begins at 07:00 AM       |                                |      |       |      |           |                                |      |       |      |           |                             |      |       |      |           |                             |      |       |      |           |           |
| 07:00 AM   | 0                              | 0    | 0     | 0    | 0         | 0                              | 0    | 0     | 0    | 0         | 0                           | 0    | 0     | 0    | 0         | 0                           | 0    | 0     | 0    | 0         |           |
| 07:15 AM   | 0                              | 0    | 0     | 0    | 0         | 0                              | 0    | 0     | 0    | 0         | 0                           | 0    | 0     | 0    | 0         | 0                           | 0    | 0     | 0    | 0         |           |
| 07:30 AM   | 0                              | 0    | 0     | 0    | 0         | 0                              | 0    | 0     | 0    | 0         | 0                           | 0    | 0     | 0    | 0         | 1                           | 0    | 0     | 0    | 1         |           |
| 07:45 AM   | 0                              | 0    | 0     | 0    | 0         | 0                              | 0    | 0     | 0    | 0         | 0                           | 1    | 0     | 0    | 1         | 0                           | 0    | 0     | 0    | 1         |           |
| Total Volume   | 0                              | 0    | 0     | 0    | 0         | 0                              | 0    | 0     | 0    | 0         | 0                           | 1    | 0     | 0    | 1         | 1                           | 0    | 0     | 0    | 1         |           |
| % App. Total   | 0                              | 0    | 0     | 0    | 0         | 0                              | 0    | 0     | 0    | 0         | 0                           | 100  | 0     | 0    | 0         | 100                         | 0    | 0     | 0    | 0         |           |
| PHF  | .000                           | .000 | .000  | .000 | .000      | .000                           | .000 | .000  | .000 | .000      | .000                        | .250 | .000  | .000 | .250      | .250                        | .000 | .000  | .000 | .250      |           |

Peak Hour Analysis From 07:00 AM to 09:45 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

|              | 07:00 AM |
|--------------|----------|----------|----------|----------|----------|
| +0 mins.     | 0        | 0        | 0        | 0        | 0        |
| +15 mins.    | 0        | 0        | 0        | 0        | 0        |
| +30 mins.    | 0        | 0        | 0        | 0        | 0        |
| +45 mins.    | 0        | 0        | 0        | 0        | 0        |
| Total Volume | 0        | 0        | 0        | 0        | 0        |
| % App. Total | 0        | 0        | 0        | 0        | 0        |
| PHF          | .000     | .000     | .000     | .000     | .000     |

File Name : TMC  
 Site Code : 00000000  
 Start Date : 1/26/2016  
 Page No : 2

|  | NEW FOUND HARBOR<br>Northbound |      |       |      |           | NEW FOUND HARBOR<br>Southbound |      |       |      |           | STATE ROAD 520<br>Eastbound |      |       |      |           | STATE ROAD 520<br>Westbound |      |       |      |           |           |
|--|--------------------------------|------|-------|------|-----------|--------------------------------|------|-------|------|-----------|-----------------------------|------|-------|------|-----------|-----------------------------|------|-------|------|-----------|-----------|
| Start Time   | Left                           | Thru | Right | Peds | App.Total | Left                           | Thru | Right | Peds | App.Total | Left                        | Thru | Right | Peds | App.Total | Left                        | Thru | Right | Peds | App.Total | Int.Total |
| Peak Hour Analysis From 10:00 AM to 01:45 PM - Peak 1 of 1 |                                |      |       |      |           |                                |      |       |      |           |                             |      |       |      |           |                             |      |       |      |           |           |
| Peak Hour for Entire Intersection Begins at 12:00 PM       |                                |      |       |      |           |                                |      |       |      |           |                             |      |       |      |           |                             |      |       |      |           |           |
| 12:00 PM   | 0                              | 0    | 0     | 0    | 0         | 0                              | 0    | 0     | 0    | 0         | 0                           | 0    | 0     | 0    | 0         | 0                           | 0    | 0     | 0    | 0         |           |
| 12:15 PM   | 0                              | 0    | 0     | 0    | 0         | 0                              | 0    | 0     | 0    | 0         | 0                           | 0    | 0     | 0    | 0         | 1                           | 0    | 0     | 0    | 1         |           |
| 12:30 PM   | 0                              | 0    | 0     | 0    | 0         | 0                              | 0    | 0     | 0    | 0         | 0                           | 0    | 0     | 0    | 0         | 0                           | 0    | 0     | 0    | 0         |           |
| 12:45 PM   | 0                              | 0    | 0     | 0    | 0         | 0                              | 0    | 0     | 0    | 0         | 0                           | 0    | 0     | 0    | 0         | 1                           | 0    | 0     | 0    | 1         |           |
| Total Volume   | 0                              | 0    | 0     | 0    | 0         | 0                              | 0    | 0     | 0    | 0         | 0                           | 0    | 0     | 0    | 0         | 2                           | 0    | 0     | 0    | 2         |           |
| % App. Total   | 0                              | 0    | 0     | 0    | 0         | 0                              | 0    | 0     | 0    | 0         | 0                           | 0    | 0     | 0    | 0         | 100                         | 0    | 0     | 0    | 0         |           |
| PHF  | .000                           | .000 | .000  | .000 | .000      | .000                           | .000 | .000  | .000 | .000      | .000                        | .000 | .000  | .000 | .000      | .500                        | .000 | .000  | .000 | .500      |           |

Peak Hour Analysis From 10:00 AM to 01:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

|              | 10:00 AM | 10:00 AM | 10:00 AM | 12:00 PM |
|--------------|----------|----------|----------|----------|
| +0 mins.     | 0        | 0        | 0        | 0        |
| +15 mins.    | 0        | 0        | 0        | 0        |
| +30 mins.    | 0        | 0        | 0        | 0        |
| +45 mins.    | 0        | 0        | 0        | 0        |
| Total Volume | 0        | 0        | 0        | 0        |
| % App. Total | 0        | 0        | 0        | 0        |
| PHF          | .000     | .000     | .000     | .000     |

Peak Hour Analysis From 10:00 AM to 01:45 PM - Peak 1 of 1

Peak Hour for Entire Intersection Begins at 02:00 PM

|              | 02:00 PM | 02:00 PM | 02:00 PM | 02:00 PM |
|--------------|----------|----------|----------|----------|
| 02:00 PM     | 0        | 0        | 0        | 0        |
| 02:15 PM     | 0        | 0        | 0        | 0        |
| 02:30 PM     | 0        | 0        | 0        | 0        |
| 02:45 PM     | 0        | 0        | 0        | 0        |
| Total Volume | 0        | 0        | 0        | 0        |
| % App. Total | 0        | 0        | 0        | 0        |
| PHF          | .000     | .000     | .000     | .000     |

Peak Hour Analysis From 02:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

|              | 02:00 PM | 02:00 PM | 05:00 PM | 02:00 PM |
|--------------|----------|----------|----------|----------|
| +0 mins.     | 0        | 0        | 0        | 0        |
| +15 mins.    | 0        | 0        | 0        | 0        |
| +30 mins.    | 0        | 0        | 0        | 0        |
| +45 mins.    | 0        | 0        | 0        | 0        |
| Total Volume | 0        | 0        | 0        | 0        |
| % App. Total | 0        | 0        | 0        | 0        |
| PHF          | .000     | .000     | .000     | .000     |

## Groups Printed- All Vehicles

|                      | SOUTH BANANA RIVER<br>DR<br>Northbound |      |      |       |      | SOUTH BANANA RIVER<br>DR<br>Southbound |      |      |       |      | STATE ROAD 520<br>Eastbound |      |      |       |      | STATE ROAD 520<br>Westbound |      |      |       |      |            |            |
|----------------------|--|------|------|-------|------|--|------|------|-------|------|-----------------------------|------|------|-------|------|-----------------------------|------|------|-------|------|------------|------------|
|                      | Start Time                             | Left | Thru | Right | Peds | App. Total                             | Left | Thru | Right | Peds | App. Total                  | Left | Thru | Right | Peds | App. Total                  | Left | Thru | Right | Peds | App. Total | Int. Total |
| 07:00 AM             | 12                                     | 0    | 6    | 0     | 18   | 0                                      | 0    | 2    | 0     | 2    | 0                           | 88   | 7    | 0     | 95   | 1                           | 101  | 1    | 0     | 103  | 218        |            |
| 07:15 AM             | 10                                     | 2    | 8    | 0     | 20   | 2                                      | 0    | 4    | 0     | 6    | 0                           | 119  | 9    | 0     | 128  | 1                           | 129  | 1    | 0     | 131  | 285        |            |
| 07:30 AM             | 13                                     | 0    | 13   | 0     | 26   | 0                                      | 0    | 7    | 0     | 7    | 1                           | 156  | 11   | 0     | 168  | 3                           | 163  | 0    | 0     | 166  | 367        |            |
| 07:45 AM             | 19                                     | 0    | 7    | 1     | 27   | 0                                      | 1    | 4    | 0     | 5    | 0                           | 208  | 8    | 0     | 216  | 2                           | 192  | 1    | 0     | 195  | 443        |            |
| Total                | 54                                     | 2    | 34   | 1     | 91   | 2                                      | 1    | 17   | 0     | 20   | 1                           | 571  | 35   | 0     | 607  | 7                           | 585  | 3    | 0     | 595  | 1313       |            |
| 08:00 AM             | 7                                      | 0    | 6    | 0     | 13   | 0                                      | 1    | 5    | 0     | 6    | 2                           | 176  | 26   | 1     | 205  | 1                           | 157  | 1    | 0     | 159  | 383        |            |
| 08:15 AM             | 9                                      | 1    | 9    | 0     | 19   | 0                                      | 1    | 2    | 0     | 3    | 4                           | 198  | 16   | 1     | 219  | 3                           | 179  | 0    | 0     | 182  | 423        |            |
| 08:30 AM             | 9                                      | 1    | 10   | 0     | 20   | 1                                      | 0    | 3    | 0     | 4    | 1                           | 168  | 15   | 0     | 184  | 5                           | 205  | 0    | 0     | 210  | 418        |            |
| 08:45 AM             | 19                                     | 0    | 9    | 0     | 28   | 1                                      | 0    | 1    | 0     | 2    | 3                           | 174  | 15   | 0     | 192  | 2                           | 183  | 0    | 0     | 185  | 407        |            |
| Total                | 44                                     | 2    | 34   | 0     | 80   | 2                                      | 2    | 11   | 0     | 15   | 10                          | 716  | 72   | 2     | 800  | 11                          | 724  | 1    | 0     | 736  | 1631       |            |
| <b>*** BREAK ***</b> |  |      |      |       |      |  |      |      |       |      |                             |      |      |       |      |                             |      |      |       |      |            |            |
| 12:00 PM             | 20                                     | 0    | 7    | 0     | 27   | 1                                      | 0    | 5    | 0     | 6    | 5                           | 252  | 23   | 0     | 280  | 13                          | 245  | 2    | 0     | 260  | 573        |            |
| 12:15 PM             | 22                                     | 0    | 6    | 0     | 28   | 3                                      | 1    | 7    | 0     | 11   | 4                           | 210  | 12   | 0     | 226  | 5                           | 266  | 0    | 0     | 271  | 536        |            |
| 12:30 PM             | 11                                     | 0    | 7    | 0     | 18   | 1                                      | 0    | 6    | 0     | 7    | 2                           | 219  | 15   | 0     | 236  | 0                           | 245  | 1    | 0     | 246  | 507        |            |
| 12:45 PM             | 18                                     | 0    | 2    | 0     | 20   | 2                                      | 0    | 4    | 0     | 6    | 3                           | 279  | 26   | 0     | 308  | 4                           | 257  | 2    | 0     | 263  | 597        |            |
| Total                | 71                                     | 0    | 22   | 0     | 93   | 7                                      | 1    | 22   | 0     | 30   | 14                          | 960  | 76   | 0     | 1050 | 22                          | 1013 | 5    | 0     | 1040 | 2213       |            |
| 01:00 PM             | 13                                     | 1    | 5    | 0     | 19   | 3                                      | 0    | 3    | 0     | 6    | 2                           | 211  | 13   | 0     | 226  | 5                           | 266  | 3    | 0     | 274  | 525        |            |
| 01:15 PM             | 19                                     | 0    | 7    | 0     | 26   | 1                                      | 1    | 7    | 0     | 9    | 2                           | 294  | 23   | 0     | 319  | 6                           | 298  | 2    | 0     | 306  | 660        |            |
| 01:30 PM             | 22                                     | 0    | 8    | 0     | 30   | 0                                      | 0    | 2    | 0     | 2    | 5                           | 267  | 20   | 0     | 292  | 4                           | 277  | 3    | 0     | 284  | 608        |            |
| 01:45 PM             | 13                                     | 0    | 5    | 0     | 18   | 0                                      | 0    | 0    | 0     | 0    | 4                           | 244  | 18   | 0     | 266  | 7                           | 314  | 2    | 0     | 323  | 607        |            |
| Total                | 67                                     | 1    | 25   | 0     | 93   | 4                                      | 1    | 12   | 0     | 17   | 13                          | 1016 | 74   | 0     | 1103 | 22                          | 1155 | 10   | 0     | 1187 | 2400       |            |
| 02:00 PM             | 30                                     | 1    | 6    | 0     | 37   | 1                                      | 0    | 4    | 0     | 5    | 4                           | 235  | 15   | 0     | 254  | 6                           | 240  | 2    | 0     | 248  | 544        |            |
| 02:15 PM             | 24                                     | 0    | 8    | 0     | 32   | 2                                      | 2    | 7    | 1     | 12   | 8                           | 245  | 23   | 0     | 276  | 6                           | 263  | 1    | 0     | 270  | 590        |            |
| 02:30 PM             | 14                                     | 0    | 1    | 0     | 15   | 1                                      | 0    | 6    | 1     | 8    | 3                           | 292  | 16   | 0     | 311  | 6                           | 249  | 1    | 0     | 256  | 590        |            |
| 02:45 PM             | 16                                     | 0    | 6    | 0     | 22   | 0                                      | 1    | 3    | 0     | 4    | 3                           | 250  | 26   | 0     | 279  | 4                           | 252  | 3    | 0     | 259  | 564        |            |
| Total                | 84                                     | 1    | 21   | 0     | 106  | 4                                      | 3    | 20   | 2     | 29   | 18                          | 1022 | 80   | 0     | 1120 | 22                          | 1004 | 7    | 0     | 1033 | 2288       |            |
| 03:00 PM             | 14                                     | 0    | 8    | 0     | 22   | 1                                      | 0    | 3    | 0     | 4    | 8                           | 268  | 16   | 0     | 292  | 8                           | 252  | 1    | 0     | 261  | 579        |            |
| 03:15 PM             | 10                                     | 1    | 5    | 0     | 16   | 2                                      | 0    | 5    | 0     | 7    | 6                           | 243  | 20   | 0     | 269  | 5                           | 285  | 2    | 0     | 292  | 584        |            |
| 03:30 PM             | 16                                     | 0    | 9    | 0     | 25   | 1                                      | 0    | 5    | 0     | 6    | 3                           | 255  | 23   | 0     | 281  | 7                           | 271  | 0    | 0     | 278  | 590        |            |
| 03:45 PM             | 10                                     | 1    | 5    | 0     | 16   | 1                                      | 2    | 1    | 0     | 4    | 3                           | 284  | 24   | 0     | 311  | 5                           | 269  | 2    | 0     | 276  | 607        |            |
| Total                | 50                                     | 2    | 27   | 0     | 79   | 5                                      | 2    | 14   | 0     | 21   | 20                          | 1050 | 83   | 0     | 1153 | 25                          | 1077 | 5    | 0     | 1107 | 2360       |            |
| 04:00 PM             | 15                                     | 0    | 5    | 0     | 20   | 0                                      | 0    | 5    | 1     | 6    | 1                           | 273  | 18   | 0     | 292  | 11                          | 284  | 1    | 0     | 296  | 614        |            |
| 04:15 PM             | 0                                      | 0    | 2    | 0     | 2    | 0                                      | 0    | 1    | 0     | 1    | 1                           | 264  | 18   | 2     | 285  | 14                          | 227  | 0    | 0     | 241  | 529        |            |
| 04:30 PM             | 19                                     | 1    | 3    | 0     | 23   | 0                                      | 1    | 2    | 0     | 3    | 4                           | 291  | 23   | 0     | 318  | 8                           | 249  | 1    | 0     | 258  | 602        |            |
| 04:45 PM             | 11                                     | 2    | 2    | 0     | 15   | 1                                      | 1    | 3    | 0     | 5    | 3                           | 240  | 22   | 0     | 265  | 9                           | 235  | 4    | 0     | 248  | 533        |            |
| Total                | 45                                     | 3    | 12   | 0     | 60   | 1                                      | 2    | 11   | 1     | 15   | 9                           | 1068 | 81   | 2     | 1160 | 42                          | 995  | 6    | 0     | 1043 | 2278       |            |
| 05:00 PM             | 18                                     | 0    | 3    | 0     | 21   | 0                                      | 2    | 2    | 0     | 4    | 5                           | 245  | 21   | 0     | 271  | 12                          | 272  | 0    | 0     | 284  | 580        |            |
| 05:15 PM             | 12                                     | 1    | 10   | 0     | 23   | 0                                      | 1    | 2    | 0     | 3    | 6                           | 247  | 29   | 1     | 283  | 11                          | 256  | 0    | 1     | 268  | 577        |            |
| 05:30 PM             | 11                                     | 0    | 6    | 0     | 17   | 0                                      | 1    | 5    | 0     | 6    | 2                           | 245  | 15   | 0     | 262  | 8                           | 236  | 4    | 0     | 248  | 533        |            |
| 05:45 PM             | 11                                     | 0    | 3    | 0     | 14   | 0                                      | 0    | 2    | 0     | 2    | 4                           | 214  | 20   | 0     | 238  | 7                           | 217  | 0    | 0     | 224  | 478        |            |
| Total                | 52                                     | 1    | 22   | 0     | 75   | 0                                      | 4    | 11   | 0     | 15   | 17                          | 951  | 85   | 1     | 1054 | 38                          | 981  | 4    | 1     | 1024 | 2168       |            |
| Grand Total          | 467                                    | 12   | 197  | 1     | 677  | 25                                     | 16   | 118  | 3     | 162  | 102                         | 7354 | 586  | 5     | 8047 | 189                         | 7534 | 41   | 1     | 7765 | 16651      |            |
| Apprch %             | 69                                     | 1.8  | 29.1 | 0.1   |      | 15.4                                   | 9.9  | 72.8 | 1.9   |      | 1.3                         | 91.4 | 7.3  | 0.1   |      | 2.4                         | 97   | 0.5  | 0     |      |            |            |
| Total %              | 2.8                                    | 0.1  | 1.2  | 0     |      | 4.1                                    | 0.2  | 0.1  | 0.7   | 0    | 1                           | 0.6  | 44.2 | 3.5   | 0    | 48.3                        | 1.1  | 45.2 | 0.2   | 0    | 46.6       |            |

|   | SOUTH BANANA RIVER DR Northbound |      |      |       |      | SOUTH BANANA RIVER DR Southbound |      |      |       |      | STATE ROAD 520 Eastbound |      |      |       |      | STATE ROAD 520 Westbound |      |      |       |      |            |
|---|----------------------------------|------|------|-------|------|----------------------------------|------|------|-------|------|--------------------------|------|------|-------|------|--------------------------|------|------|-------|------|------------|
|   | Start Time                       | Left | Thru | Right | Peds | App. Total                       | Left | Thru | Right | Peds | App. Total               | Left | Thru | Right | Peds | App. Total               | Left | Thru | Right | Peds | App. Total |
| <b>Peak Hour Analysis From 07:00 AM to 09:45 AM - Peak 1 of 1</b> |                                  |      |      |       |      |                                  |      |      |       |      |                          |      |      |       |      |                          |      |      |       |      |            |
| <b>Peak Hour for Entire Intersection Begins at 07:45 AM</b>       |                                  |      |      |       |      |                                  |      |      |       |      |                          |      |      |       |      |                          |      |      |       |      |            |
| 07:45 AM  | 19                               | 0    | 7    | 1     | 27   | 0                                | 1    | 4    | 0     | 5    | 0                        | 208  | 8    | 0     | 216  | 2                        | 192  | 1    | 0     | 195  | 443        |
| 08:00 AM  | 7                                | 0    | 6    | 0     | 13   | 0                                | 1    | 5    | 0     | 6    | 2                        | 176  | 26   | 1     | 205  | 1                        | 157  | 1    | 0     | 159  | 383        |
| 08:15 AM  | 9                                | 1    | 9    | 0     | 19   | 0                                | 1    | 2    | 0     | 3    | 4                        | 198  | 16   | 1     | 219  | 3                        | 179  | 0    | 0     | 182  | 423        |
| 08:30 AM  | 9                                | 1    | 10   | 0     | 20   | 1                                | 0    | 3    | 0     | 4    | 1                        | 168  | 15   | 0     | 184  | 5                        | 205  | 0    | 0     | 210  | 418        |
| Total Volume  | 44                               | 2    | 32   | 1     | 79   | 1                                | 3    | 14   | 0     | 18   | 7                        | 750  | 65   | 2     | 824  | 11                       | 733  | 2    | 0     | 746  | 1667       |
| % App. Total  | 55.7                             | 2.5  | 40.5 | 1.3   |      | 5.6                              | 16.7 | 77.8 | 0     |      | 0.8                      | 91   | 7.9  | 0.2   |      | 1.5                      | 98.3 | 0.3  | 0     |      |            |
| PHF   | .579                             | .500 | .800 | .250  | .731 | .250                             | .750 | .700 | .000  | .750 | .438                     | .901 | .625 | .500  | .941 | .550                     | .894 | .500 | .000  | .888 | .941       |

Peak Hour Analysis From 07:00 AM to 09:45 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

|              | 07:00 AM | 07:15 AM | 07:45 AM | 07:45 AM |      |
|--------------|----------|----------|----------|----------|------|
| +0 mins.     | 12       | 0        | 6        | 0        | 18   |
| +15 mins.    | 10       | 2        | 8        | 0        | 20   |
| +30 mins.    | 13       | 0        | 13       | 0        | 26   |
| +45 mins.    | 19       | 0        | 7        | 1        | 27   |
| Total Volume | 54       | 2        | 34       | 1        | 91   |
| % App. Total | 59.      | 2.2      | 37.      | 1.1      |      |
| PHF          | .71      | .25      | .65      | .25      | .843 |
|              | 1        | 0        | 4        | 0        |      |
|              | 0        | 0        | 4        | 0        | .857 |
|              |          |          |          |          |      |

Peak Hour Analysis From 10:00 AM to 01:45 PM - Peak 1 of 1

Peak Hour for Entire Intersection Begins at 01:00 PM

|              |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|--------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 01:00 PM     | 13   | 1    | 5    | 0    | 19   | 3    | 0    | 3    | 0    | 6    | 2    | 211  | 13   | 0    | 226  | 5    | 266  | 3    | 0    | 274  | 525  |
| 01:15 PM     | 19   | 0    | 7    | 0    | 26   | 1    | 1    | 7    | 0    | 9    | 2    | 294  | 23   | 0    | 319  | 6    | 298  | 2    | 0    | 306  | 660  |
| 01:30 PM     | 22   | 0    | 8    | 0    | 30   | 0    | 0    | 2    | 0    | 2    | 5    | 267  | 20   | 0    | 292  | 4    | 277  | 3    | 0    | 284  | 608  |
| 01:45 PM     | 13   | 0    | 5    | 0    | 18   | 0    | 0    | 0    | 0    | 0    | 4    | 244  | 18   | 0    | 266  | 7    | 314  | 2    | 0    | 323  | 607  |
| Total Volume | 67   | 1    | 25   | 0    | 93   | 4    | 1    | 12   | 0    | 17   | 13   | 1016 | 74   | 0    | 1103 | 22   | 1155 | 10   | 0    | 1187 | 2400 |
| % App. Total | 72   | 1.1  | 26.9 | 0    |      | 23.5 | 5.9  | 70.6 | 0    |      | 1.2  | 92.1 | 6.7  | 0    |      | 1.9  | 97.3 | 0.8  | 0    |      |      |
| PHF          | .761 | .250 | .781 | .000 | .775 | .333 | .250 | .429 | .000 | .472 | .650 | .864 | .804 | .000 | .864 | .786 | .920 | .833 | .000 | .919 | .909 |

Peak Hour Analysis From 10:00 AM to 01:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

|              | 12:45 PM | 12:00 PM | 12:45 PM | 01:00 PM |      |
|--------------|----------|----------|----------|----------|------|
| +0 mins.     | 18       | 0        | 2        | 0        | 20   |
| +15 mins.    | 13       | 1        | 5        | 0        | 19   |
| +30 mins.    | 19       | 0        | 7        | 0        | 26   |
| +45 mins.    | 22       | 0        | 8        | 0        | 30   |
| Total Volume | 72       | 1        | 22       | 0        | 95   |
| % App. Total | 75.      | 1.1      | 23.      | 0        |      |
| PHF          | .81      | .25      | .68      | .00      | .792 |
|              | 8        | 0        | 8        | 0        |      |
|              | 0        | 0        | 6        | 0        | .682 |
|              |          |          |          |          |      |

Peak Hour Analysis From 02:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Entire Intersection Begins at 03:15 PM

|              |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|--------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 03:15 PM     | 10   | 1    | 5    | 0    | 16   | 2    | 0    | 5    | 0    | 7    | 6    | 243  | 20   | 0    | 269  | 5    | 285  | 2    | 0    | 292  | 584  |
| 03:30 PM     | 16   | 0    | 9    | 0    | 25   | 1    | 0    | 5    | 0    | 6    | 3    | 255  | 23   | 0    | 281  | 7    | 271  | 0    | 0    | 278  | 590  |
| 03:45 PM     | 10   | 1    | 5    | 0    | 16   | 1    | 2    | 1    | 0    | 4    | 3    | 284  | 24   | 0    | 311  | 5    | 269  | 2    | 0    | 276  | 607  |
| 04:00 PM     | 15   | 0    | 5    | 0    | 20   | 0    | 0    | 5    | 1    | 6    | 1    | 273  | 18   | 0    | 292  | 11   | 284  | 1    | 0    | 296  | 614  |
| Total Volume | 51   | 2    | 24   | 0    | 77   | 4    | 2    | 16   | 1    | 23   | 13   | 1055 | 85   | 0    | 1153 | 28   | 1109 | 5    | 0    | 1142 | 2395 |
| % App. Total | 66.2 | 2.6  | 31.2 | 0    |      | 17.4 | 8.7  | 69.6 | 4.3  |      | 1.1  | 91.5 | 7.4  | 0    |      | 2.5  | 97.1 | 0.4  | 0    |      |      |
| PHF          | .797 | .500 | .667 | .000 | .770 | .500 | .250 | .800 | .250 | .821 | .542 | .929 | .885 | .000 | .927 | .636 | .973 | .625 | .000 | .965 | .975 |

Peak Hour Analysis From 02:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

|              | 02:00 PM | 02:00 PM | 03:45 PM | 03:15 PM |      |
|--------------|----------|----------|----------|----------|------|
| +0 mins.     | 30       | 1        | 6        | 0        | 37   |
| +15 mins.    | 24       | 0        | 8        | 0        | 32   |
| +30 mins.    | 14       | 0        | 1        | 0        | 15   |
| +45 mins.    | 16       | 0        | 6        | 0        | 22   |
| Total Volume | 84       | 1        | 21       | 0        | 106  |
| % App. Total | 79.      | 0.9      | 19.      | 0        |      |
| PHF          | .70      | .25      | .65      | .00      | .716 |
|              | 0        | 0        | 6        | 0        |      |
|              | 0        | 0        | 5        | 4        |      |
|              | 0        | 0        | 5        | 5        |      |
|              |          |          |          |          |      |

File Name : SR 520 &amp; S. Banana River DR

Site Code : 00000000

Start Date : 10/27/2015

Page No : 1

## Groups Printed- Heavy Trucks

|                      | SOUTH BANANA RIVER<br>DR<br>Northbound |      |       |      |            | SOUTH BANANA RIVER<br>DR<br>Southbound |      |       |      |            | STATE ROAD 520<br>Eastbound |      |       |      |            | STATE ROAD 520<br>Westbound |      |       |      |            |            |
|----------------------|--|------|-------|------|------------|--|------|-------|------|------------|-----------------------------|------|-------|------|------------|-----------------------------|------|-------|------|------------|------------|
| Start Time           | Left                                   | Thru | Right | Peds | App. Total | Left                                   | Thru | Right | Peds | App. Total | Left                        | Thru | Right | Peds | App. Total | Left                        | Thru | Right | Peds | App. Total | Int. Total |
| 07:00 AM             | 0                                      | 0    | 0     | 0    | 0          | 0                                      | 0    | 0     | 0    | 0          | 0                           | 2    | 1     | 0    | 3          | 0                           | 1    | 0     | 0    | 1          | 4          |
| 07:15 AM             | 0                                      | 0    | 0     | 0    | 0          | 0                                      | 0    | 0     | 0    | 0          | 0                           | 1    | 0     | 0    | 1          | 0                           | 3    | 0     | 0    | 3          | 4          |
| 07:30 AM             | 1                                      | 0    | 0     | 0    | 1          | 0                                      | 0    | 0     | 0    | 0          | 0                           | 2    | 0     | 0    | 2          | 0                           | 4    | 0     | 0    | 4          | 7          |
| 07:45 AM             | 1                                      | 0    | 0     | 1    | 2          | 0                                      | 0    | 0     | 0    | 0          | 0                           | 4    | 0     | 0    | 4          | 0                           | 3    | 0     | 0    | 3          | 9          |
| Total                | 2                                      | 0    | 0     | 1    | 3          | 0                                      | 0    | 0     | 0    | 0          | 0                           | 9    | 1     | 0    | 10         | 0                           | 11   | 0     | 0    | 11         | 24         |
| 08:00 AM             | 0                                      | 0    | 0     | 0    | 0          | 0                                      | 0    | 0     | 0    | 0          | 0                           | 2    | 2     | 0    | 4          | 0                           | 1    | 0     | 0    | 1          | 5          |
| 08:15 AM             | 0                                      | 0    | 0     | 0    | 0          | 0                                      | 0    | 0     | 0    | 0          | 0                           | 6    | 0     | 1    | 7          | 0                           | 1    | 0     | 0    | 1          | 8          |
| 08:30 AM             | 1                                      | 0    | 0     | 0    | 1          | 0                                      | 0    | 0     | 0    | 0          | 0                           | 2    | 2     | 0    | 4          | 0                           | 4    | 0     | 0    | 4          | 9          |
| 08:45 AM             | 0                                      | 0    | 0     | 0    | 0          | 0                                      | 0    | 0     | 0    | 0          | 0                           | 4    | 0     | 0    | 4          | 0                           | 6    | 0     | 0    | 6          | 10         |
| Total                | 1                                      | 0    | 0     | 0    | 1          | 0                                      | 0    | 0     | 0    | 0          | 0                           | 14   | 4     | 1    | 19         | 0                           | 12   | 0     | 0    | 12         | 32         |
| <b>*** BREAK ***</b> |  |      |       |      |            |  |      |       |      |            |                             |      |       |      |            |                             |      |       |      |            |            |
| 12:00 PM             | 1                                      | 0    | 0     | 0    | 1          | 0                                      | 0    | 0     | 0    | 0          | 0                           | 3    | 0     | 0    | 3          | 0                           | 5    | 0     | 0    | 5          | 9          |
| 12:15 PM             | 0                                      | 0    | 0     | 0    | 0          | 0                                      | 0    | 0     | 0    | 0          | 0                           | 3    | 1     | 0    | 4          | 0                           | 3    | 0     | 0    | 3          | 7          |
| 12:30 PM             | 1                                      | 0    | 0     | 0    | 1          | 0                                      | 0    | 0     | 0    | 0          | 0                           | 2    | 0     | 0    | 2          | 0                           | 2    | 0     | 0    | 2          | 5          |
| 12:45 PM             | 0                                      | 0    | 0     | 0    | 0          | 0                                      | 0    | 0     | 0    | 0          | 0                           | 4    | 0     | 0    | 4          | 0                           | 1    | 0     | 0    | 1          | 5          |
| Total                | 2                                      | 0    | 0     | 0    | 2          | 0                                      | 0    | 0     | 0    | 0          | 0                           | 12   | 1     | 0    | 13         | 0                           | 11   | 0     | 0    | 11         | 26         |
| 01:00 PM             | 0                                      | 0    | 0     | 0    | 0          | 0                                      | 0    | 0     | 0    | 0          | 0                           | 2    | 0     | 0    | 2          | 0                           | 4    | 0     | 0    | 4          | 6          |
| 01:15 PM             | 0                                      | 0    | 0     | 0    | 0          | 0                                      | 0    | 0     | 0    | 0          | 0                           | 4    | 0     | 0    | 4          | 0                           | 4    | 0     | 0    | 4          | 8          |
| 01:30 PM             | 0                                      | 0    | 0     | 0    | 0          | 0                                      | 0    | 0     | 0    | 0          | 0                           | 2    | 0     | 0    | 2          | 0                           | 2    | 0     | 0    | 2          | 4          |
| 01:45 PM             | 0                                      | 0    | 0     | 0    | 0          | 0                                      | 0    | 0     | 0    | 0          | 0                           | 5    | 0     | 0    | 5          | 0                           | 1    | 0     | 0    | 1          | 6          |
| Total                | 0                                      | 0    | 0     | 0    | 0          | 0                                      | 0    | 0     | 0    | 0          | 0                           | 13   | 0     | 0    | 13         | 0                           | 11   | 0     | 0    | 11         | 24         |
| 02:00 PM             | 0                                      | 0    | 0     | 0    | 0          | 0                                      | 0    | 0     | 0    | 0          | 0                           | 5    | 1     | 0    | 6          | 0                           | 3    | 0     | 0    | 3          | 9          |
| 02:15 PM             | 1                                      | 0    | 0     | 0    | 1          | 0                                      | 0    | 0     | 0    | 0          | 0                           | 4    | 0     | 0    | 4          | 0                           | 4    | 0     | 0    | 4          | 9          |
| 02:30 PM             | 0                                      | 0    | 0     | 0    | 0          | 0                                      | 0    | 0     | 0    | 0          | 0                           | 2    | 0     | 0    | 2          | 0                           | 3    | 0     | 0    | 3          | 5          |
| 02:45 PM             | 1                                      | 0    | 0     | 0    | 1          | 0                                      | 0    | 0     | 0    | 0          | 0                           | 2    | 1     | 0    | 3          | 0                           | 3    | 1     | 0    | 4          | 8          |
| Total                | 2                                      | 0    | 0     | 0    | 2          | 0                                      | 0    | 0     | 0    | 0          | 0                           | 13   | 2     | 0    | 15         | 0                           | 13   | 1     | 0    | 14         | 31         |
| 03:00 PM             | 0                                      | 0    | 0     | 0    | 0          | 0                                      | 0    | 0     | 0    | 0          | 0                           | 2    | 0     | 0    | 2          | 0                           | 2    | 0     | 0    | 2          | 4          |
| 03:15 PM             | 0                                      | 0    | 0     | 0    | 0          | 0                                      | 1    | 0     | 0    | 0          | 1                           | 0    | 4     | 0    | 4          | 0                           | 5    | 0     | 0    | 5          | 10         |
| 03:30 PM             | 0                                      | 0    | 0     | 0    | 0          | 0                                      | 0    | 0     | 0    | 0          | 0                           | 2    | 0     | 0    | 2          | 0                           | 3    | 0     | 0    | 3          | 5          |
| 03:45 PM             | 0                                      | 0    | 0     | 0    | 0          | 0                                      | 0    | 0     | 0    | 0          | 0                           | 2    | 1     | 0    | 3          | 0                           | 3    | 0     | 0    | 3          | 6          |
| Total                | 0                                      | 0    | 0     | 0    | 0          | 0                                      | 1    | 0     | 0    | 0          | 1                           | 0    | 10    | 1    | 11         | 0                           | 13   | 0     | 0    | 13         | 25         |
| 04:00 PM             | 1                                      | 0    | 0     | 0    | 1          | 0                                      | 0    | 0     | 0    | 0          | 0                           | 2    | 0     | 0    | 2          | 0                           | 4    | 0     | 0    | 4          | 7          |
| 04:15 PM             | 0                                      | 0    | 0     | 0    | 0          | 0                                      | 0    | 0     | 0    | 0          | 0                           | 2    | 0     | 1    | 3          | 0                           | 4    | 0     | 0    | 4          | 7          |
| 04:30 PM             | 0                                      | 0    | 0     | 0    | 0          | 0                                      | 0    | 0     | 0    | 0          | 0                           | 1    | 1     | 0    | 2          | 0                           | 2    | 0     | 0    | 2          | 4          |
| 04:45 PM             | 0                                      | 0    | 0     | 0    | 0          | 0                                      | 0    | 0     | 0    | 0          | 0                           | 2    | 0     | 0    | 2          | 0                           | 3    | 0     | 0    | 3          | 5          |
| Total                | 1                                      | 0    | 0     | 0    | 1          | 0                                      | 0    | 0     | 0    | 0          | 0                           | 7    | 1     | 1    | 9          | 0                           | 13   | 0     | 0    | 13         | 23         |
| 05:00 PM             | 1                                      | 0    | 0     | 0    | 1          | 0                                      | 0    | 0     | 0    | 0          | 0                           | 1    | 0     | 0    | 1          | 0                           | 1    | 0     | 0    | 1          | 3          |
| 05:15 PM             | 0                                      | 0    | 0     | 0    | 0          | 0                                      | 0    | 0     | 0    | 0          | 0                           | 1    | 0     | 0    | 1          | 0                           | 2    | 0     | 1    | 3          | 4          |
| <b>*** BREAK ***</b> |  |      |       |      |            |  |      |       |      |            |                             |      |       |      |            |                             |      |       |      |            |            |
| 05:45 PM             | 0                                      | 0    | 0     | 0    | 0          | 0                                      | 0    | 0     | 0    | 0          | 0                           | 2    | 0     | 0    | 2          | 0                           | 1    | 0     | 0    | 1          | 3          |
| Total                | 1                                      | 0    | 0     | 0    | 1          | 0                                      | 0    | 0     | 0    | 0          | 0                           | 4    | 0     | 0    | 4          | 0                           | 4    | 0     | 1    | 5          | 10         |
| Grand Total          | 9                                      | 0    | 0     | 1    | 10         | 1                                      | 0    | 0     | 0    | 1          | 0                           | 82   | 10    | 2    | 94         | 0                           | 88   | 1     | 1    | 90         | 195        |
| Apprch %             | 90                                     | 0    | 0     | 10   |            | 100                                    | 0    | 0     | 0    | 0          | 0                           | 87.2 | 10.6  | 2.1  |            | 0                           | 97.8 | 1.1   | 1.1  |            |            |
| Total %              | 4.6                                    | 0    | 0     | 0.5  | 5.1        | 0.5                                    | 0    | 0     | 0    | 0.5        | 0                           | 42.1 | 5.1   | 1    | 48.2       | 0                           | 45.1 | 0.5   | 0.5  | 46.2       |            |

|   | SOUTH BANANA RIVER DR Northbound |      |      |       |      | SOUTH BANANA RIVER DR Southbound |      |      |       |      | STATE ROAD 520 Eastbound |      |      |       |      | STATE ROAD 520 Westbound |      |      |       |      |            |            |
|---|----------------------------------|------|------|-------|------|----------------------------------|------|------|-------|------|--------------------------|------|------|-------|------|--------------------------|------|------|-------|------|------------|------------|
|   | Start Time                       | Left | Thru | Right | Peds | App. Total                       | Left | Thru | Right | Peds | App. Total               | Left | Thru | Right | Peds | App. Total               | Left | Thru | Right | Peds | App. Total | Int. Total |
| <b>Peak Hour Analysis From 07:00 AM to 09:45 AM - Peak 1 of 1</b> |                                  |      |      |       |      |                                  |      |      |       |      |                          |      |      |       |      |                          |      |      |       |      |            |            |
| <b>Peak Hour for Entire Intersection Begins at 08:00 AM</b>       |                                  |      |      |       |      |                                  |      |      |       |      |                          |      |      |       |      |                          |      |      |       |      |            |            |
| 08:00 AM  | 0                                | 0    | 0    | 0     | 0    | 0                                | 0    | 0    | 0     | 0    | 0                        | 0    | 2    | 2     | 0    | 4                        | 0    | 1    | 0     | 0    | 1          | 5          |
| 08:15 AM  | 0                                | 0    | 0    | 0     | 0    | 0                                | 0    | 0    | 0     | 0    | 0                        | 0    | 6    | 0     | 1    | 7                        | 0    | 1    | 0     | 0    | 1          | 8          |
| 08:30 AM  | 1                                | 0    | 0    | 0     | 1    | 0                                | 0    | 0    | 0     | 0    | 0                        | 0    | 2    | 2     | 0    | 4                        | 0    | 4    | 0     | 0    | 4          | 9          |
| 08:45 AM  | 0                                | 0    | 0    | 0     | 0    | 0                                | 0    | 0    | 0     | 0    | 0                        | 0    | 4    | 0     | 0    | 4                        | 0    | 6    | 0     | 0    | 6          | 10         |
| Total Volume  | 1                                | 0    | 0    | 0     | 1    | 0                                | 0    | 0    | 0     | 0    | 0                        | 0    | 14   | 4     | 1    | 19                       | 0    | 12   | 0     | 0    | 12         | 32         |
| % App. Total  | 100                              | 0    | 0    | 0     | 0    | 0                                | 0    | 0    | 0     | 0    | 0                        | 0    | 73.7 | 21.1  | 5.3  | 0                        | 100  | 0    | 0     | 0    | 0          | 0          |
| PHF   | .250                             | .000 | .000 | .000  | .250 | .000                             | .000 | .000 | .000  | .000 | .000                     | .000 | .583 | .500  | .250 | .679                     | .000 | .500 | .000  | .000 | .500       | .800       |

Peak Hour Analysis From 07:00 AM to 09:45 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

|              | 07:00 AM             | 07:00 AM             | 07:45 AM             | 08:00 AM             |
|--------------|----------------------|----------------------|----------------------|----------------------|
| +0 mins.     | 0 0 0 0 0            | 0 0 0 0 0            | 0 4 0 0 4            | 0 1 0 0 1            |
| +15 mins.    | 0 0 0 0 0            | 0 0 0 0 0            | 0 2 2 0 4            | 0 1 0 0 1            |
| +30 mins.    | 1 0 0 0 1            | 0 0 0 0 0            | 0 6 0 1 7            | 0 4 0 0 4            |
| +45 mins.    | 1 0 0 1 2            | 0 0 0 0 0            | 0 2 2 0 4            | 0 6 0 0 6            |
| Total Volume | 2 0 0 1 3            | 0 0 0 0 0            | 0 14 4 1 19          | 0 12 0 0 12          |
| % App. Total | 66.7 0 0 33.3        | 0 0 0 0 0            | 73.7 21.1 5.3        | 0 100 0 0 0          |
| PHF          | .50 .00 .00 .25 .375 | .00 .00 .00 .00 .000 | .00 .58 .50 .25 .679 | .00 .50 .00 .00 .500 |
|              | 0 0 0 0 0            | 0 0 0 0 0            | 0 3 0 0 0            | 0 0 0 0 0            |

Peak Hour Analysis From 10:00 AM to 01:45 PM - Peak 1 of 1

Peak Hour for Entire Intersection Begins at 12:00 PM

|              |                          |                          |                          |                          |
|--------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 12:00 PM     | 1 0 0 0 1                | 0 0 0 0 0                | 0 3 0 0 3                | 0 5 0 0 5                |
| 12:15 PM     | 0 0 0 0 0                | 0 0 0 0 0                | 0 3 1 0 4                | 0 3 0 0 3                |
| 12:30 PM     | 1 0 0 0 1                | 0 0 0 0 0                | 0 2 0 0 2                | 0 2 0 0 2                |
| 12:45 PM     | 0 0 0 0 0                | 0 0 0 0 0                | 0 4 0 0 4                | 0 1 0 0 1                |
| Total Volume | 2 0 0 0 2                | 0 0 0 0 0                | 0 12 1 0 13              | 0 11 0 0 11              |
| % App. Total | 100 0 0 0 0              | 0 0 0 0 0                | 92.3 7.7 0               | 0 100 0 0 0              |
| PHF          | .500 .000 .000 .000 .500 | .000 .000 .000 .000 .000 | .000 .750 .250 .000 .813 | .000 .550 .000 .000 .550 |
|              | 0 0 0 0 0                | 0 0 0 0 0                | 0 0 0 0 0                | 0 0 0 0 0                |

Peak Hour Analysis From 10:00 AM to 01:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

|              | 11:45 AM             | 10:00 AM             | 12:00 PM             | 12:00 PM             |
|--------------|----------------------|----------------------|----------------------|----------------------|
| +0 mins.     | 0 0 0 0 0            | 0 0 0 0 0            | 0 3 0 0 3            | 0 5 0 0 5            |
| +15 mins.    | 1 0 0 0 1            | 0 0 0 0 0            | 0 3 1 0 4            | 0 3 0 0 3            |
| +30 mins.    | 0 0 0 0 0            | 0 0 0 0 0            | 0 2 0 0 2            | 0 2 0 0 2            |
| +45 mins.    | 1 0 0 0 1            | 0 0 0 0 0            | 0 4 0 0 4            | 0 1 0 0 1            |
| Total Volume | 2 0 0 0 2            | 0 0 0 0 0            | 0 12 1 0 13          | 0 11 0 0 11          |
| % App. Total | 100 0 0 0 0          | 0 0 0 0 0            | 92.3 7.7 0           | 0 100 0 0 0          |
| PHF          | .50 .00 .00 .00 .500 | .00 .00 .00 .00 .000 | .00 .75 .25 .00 .813 | .00 .55 .00 .00 .550 |
|              | 0 0 0 0 0            | 0 0 0 0 0            | 0 0 0 0 0            | 0 0 0 0 0            |

Peak Hour Analysis From 02:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Entire Intersection Begins at 02:00 PM

|              |                          |                          |                          |                          |
|--------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 02:00 PM     | 0 0 0 0 0                | 0 0 0 0 0                | 0 5 1 0 6                | 0 3 0 0 3                |
| 02:15 PM     | 1 0 0 0 1                | 0 0 0 0 0                | 0 4 0 0 4                | 0 4 0 0 4                |
| 02:30 PM     | 0 0 0 0 0                | 0 0 0 0 0                | 0 2 0 0 2                | 0 3 0 0 3                |
| 02:45 PM     | 1 0 0 0 1                | 0 0 0 0 0                | 0 2 1 0 3                | 0 3 1 0 4                |
| Total Volume | 2 0 0 0 2                | 0 0 0 0 0                | 0 13 2 0 15              | 0 13 1 0 14              |
| % App. Total | 100 0 0 0 0              | 0 0 0 0 0                | 86.7 13.3 0              | 92.9 7.1 0               |
| PHF          | .500 .000 .000 .000 .500 | .000 .000 .000 .000 .000 | .000 .650 .500 .000 .625 | .000 .813 .250 .000 .875 |
|              | 0 0 0 0 0                | 0 0 0 0 0                | 0 0 0 0 0                | 0 0 0 0 0                |

Peak Hour Analysis From 02:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

|              | 02:00 PM             | 02:30 PM             | 02:00 PM             | 03:15 PM             |
|--------------|----------------------|----------------------|----------------------|----------------------|
| +0 mins.     | 0 0 0 0 0            | 0 0 0 0 0            | 0 5 1 0 6            | 0 5 0 0 5            |
| +15 mins.    | 1 0 0 0 1            | 0 0 0 0 0            | 0 4 0 0 4            | 0 3 0 0 3            |
| +30 mins.    | 0 0 0 0 0            | 0 0 0 0 0            | 0 2 0 0 2            | 0 3 0 0 3            |
| +45 mins.    | 1 0 0 0 1            | 1 0 0 0 0            | 0 2 1 0 3            | 0 4 0 0 4            |
| Total Volume | 2 0 0 0 2            | 1 0 0 0 1            | 0 13 2 0 15          | 0 15 0 0 15          |
| % App. Total | 100 0 0 0 0          | 100 0 0 0 0          | 86.7 13.3 0          | 100 0 0 0 0          |
| PHF          | .50 .00 .00 .00 .500 | .25 .00 .00 .00 .250 | .00 .65 .50 .00 .625 | .00 .75 .00 .00 .750 |
|              | 0 0 0 0 0            | 0 0 0 0 0            | 0 0 0 0 0            | 0 0 0 0 0            |

File Name : SR 520 & S. Banana River DR  
Site Code : 00000000  
Start Date : 10/27/2015  
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## **Groups Printed- UTURNS**

|  | SOUTH BANANA RIVER<br>DR<br>Northbound |      |       |      |            | SOUTH BANANA RIVER<br>DR<br>Southbound |      |       |      |            | STATE ROAD 520<br>Eastbound |      |       |      |            | STATE ROAD 520<br>Westbound |      |       |      |            |            |
|--|--|------|-------|------|------------|--|------|-------|------|------------|-----------------------------|------|-------|------|------------|-----------------------------|------|-------|------|------------|------------|
| Start Time   | Left                                   | Thru | Right | Peds | App. Total | Left                                   | Thru | Right | Peds | App. Total | Left                        | Thru | Right | Peds | App. Total | Left                        | Thru | Right | Peds | App. Total | Int. Total |
| Peak Hour Analysis From 07:00 AM to 09:45 AM - Peak 1 of 1 |  |      |       |      |            |  |      |       |      |            |                             |      |       |      |            |                             |      |       |      |            |            |
| Peak Hour for Entire Intersection Begins at 08:00 AM       |  |      |       |      |            |  |      |       |      |            |                             |      |       |      |            |                             |      |       |      |            |            |
| 08:00 AM   | 0                                      | 0    | 0     | 0    | 0          | 0                                      | 0    | 0     | 0    | 0          | 0                           | 0    | 0     | 0    | 0          | 0                           | 0    | 0     | 0    | 0          |            |
| 08:15 AM   | 0                                      | 0    | 0     | 0    | 0          | 0                                      | 0    | 0     | 0    | 0          | 0                           | 0    | 0     | 0    | 0          | 0                           | 0    | 0     | 0    | 0          |            |
| 08:30 AM   | 0                                      | 0    | 0     | 0    | 0          | 0                                      | 0    | 0     | 0    | 0          | 0                           | 0    | 0     | 0    | 0          | 0                           | 0    | 0     | 0    | 0          |            |
| 08:45 AM   | 0                                      | 0    | 0     | 0    | 0          | 0                                      | 0    | 0     | 0    | 0          | 1                           | 0    | 0     | 0    | 1          | 0                           | 0    | 0     | 0    | 1          |            |
| Total Volume   | 0                                      | 0    | 0     | 0    | 0          | 0                                      | 0    | 0     | 0    | 0          | 1                           | 0    | 0     | 0    | 1          | 0                           | 0    | 0     | 0    | 1          |            |
| % App. Total   | 0                                      | 0    | 0     | 0    | 0          | 0                                      | 0    | 0     | 0    | 0          | 100                         | 0    | 0     | 0    | 0          | 0                           | 0    | 0     | 0    | 0          |            |
| PHE  | 000                                    | 000  | 000   | 000  | 000        | 000                                    | 000  | 000   | 000  | 000        | 250                         | 000  | 000   | 000  | 250        | 000                         | 000  | 000   | 000  | 250        |            |

Peak Hour Analysis From 07:00 AM to 09:45 AM - Peak 1 of 1

Peak Hour Analysis From 07:00 AM to 08:00 AM

Peak Hour Analysis From 10:00 AM to 01:45 PM - Peak 1 of 1

Peak Hour for Entire Intersection Begins at 10:00 AM

File Name : SR 520 & S. Banana River DR  
 Site Code : 00000000  
 Start Date : 10/27/2015  
 Page No : 2

|            | SOUTH BANANA RIVER<br>DR<br>Northbound |      |       |      |            | SOUTH BANANA RIVER<br>DR<br>Southbound |      |       |      |            | STATE ROAD 520<br>Eastbound |      |       |      |            | STATE ROAD 520<br>Westbound |      |       |      |            |            |
|------------|--|------|-------|------|------------|--|------|-------|------|------------|-----------------------------|------|-------|------|------------|-----------------------------|------|-------|------|------------|------------|
| Start Time | Left                                   | Thru | Right | Peds | App. Total | Left                                   | Thru | Right | Peds | App. Total | Left                        | Thru | Right | Peds | App. Total | Left                        | Thru | Right | Peds | App. Total | Int. Total |

Peak Hour Analysis From 10:00 AM to 01:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

|              | 10:00 AM | 10:00 AM | 10:00 AM | 10:00 AM |
|--------------|----------|----------|----------|----------|
| +0 mins.     | 0        | 0        | 0        | 0        |
| +15 mins.    | 0        | 0        | 0        | 0        |
| +30 mins.    | 0        | 0        | 0        | 0        |
| +45 mins.    | 0        | 0        | 0        | 0        |
| Total Volume | 0        | 0        | 0        | 0        |
| % App. Total | 0        | 0        | 0        | 0        |
| PHF          | .000     | .000     | .000     | .000     |

Peak Hour Analysis From 02:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Entire Intersection Begins at 03:00 PM

|              | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 1    |
|--------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 03:15 PM     | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 1    | 0    | 0    | 0    | 1    | 0    | 0    | 0    | 0    | 0    | 1    |
| 03:30 PM     | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 03:45 PM     | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 1    | 0    | 0    | 0    | 1    | 0    | 0    | 0    | 0    | 1    |
| Total Volume | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 3    | 0    | 0    | 0    | 3    | 0    | 0    | 0    | 0    | 0    | 3    |
| % App. Total | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 100  | 0    | 0    | 0    | 100  | 0    | 0    | 0    | 0    | 0    | 100  |
| PHF          | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .750 | .000 | .000 | .000 | .750 | .000 | .000 | .000 | .000 | .000 | .750 |

Peak Hour Analysis From 02:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

|              | 02:00 PM | 02:00 PM | 03:00 PM | 03:30 PM |
|--------------|----------|----------|----------|----------|
| +0 mins.     | 0        | 0        | 0        | 0        |
| +15 mins.    | 0        | 0        | 0        | 0        |
| +30 mins.    | 0        | 0        | 0        | 0        |
| +45 mins.    | 0        | 0        | 0        | 0        |
| Total Volume | 0        | 0        | 0        | 0        |
| % App. Total | 0        | 0        | 0        | 0        |
| PHF          | .000     | .000     | .000     | .000     |

## **Appendix H:**

# Turning Movement Volumes

## INTERSECTION: SR 520 AT NEWFOUND HARBOR DRIVE

## SECTION #70100 &amp; MP 12.603

|                  |                       |  |  |  |
|------------------|-----------------------|--|--|--|
| E/W Road:        | SR 520                |  |  |  |
| N/S Road:        | Newfound Harbor Drive |  |  |  |
| Count Date(s):   | 1/27/2016             |  |  |  |
| Traffic Control: | Signalized            |  |  |  |
| Notes:           |                       |  |  |  |

| Existing Lanes:      | Lefts | Throughs | Rights |
|----------------------|-------|----------|--------|
| Eastbound Approach:  | 1     | 3        | 1      |
| Westbound Approach:  | 1     | 3        | 1      |
| Northbound Approach: | 1     | 1        | 0      |
| Southbound Approach: | 1     | 1        | 0      |

| Condition                             | Eastbound (SR 520) |      |         |       | Westbound (SR 520) |      |         |       | Northbound (Newfound Harbor) |      |         |       | Southbound (Walmart) |      |         |       |
|---------------------------------------|--------------------|------|---------|-------|--------------------|------|---------|-------|------------------------------|------|---------|-------|----------------------|------|---------|-------|
|                                       | U-Turn             | Left | Through | Right | U-Turn             | Left | Through | Right | U-Turn                       | Left | Through | Right | U-Turn               | Left | Through | Right |
| <b>AM PEAK HOUR (7:45 - 8:45 AM)</b>  |                    |      |         |       |                    |      |         |       |                              |      |         |       |                      |      |         |       |
| Counted Total Volume:                 | 0                  | 67   | 763     | 128   | 0                  | 49   | 754     | 31    | 0                            | 251  | 8       | 99    | 0                    | 30   | 44      | 54    |
| Counted Heavy Vehicles:               | ---                | 1    | 19      | 2     | ---                | 0    | 6       | 3     | ---                          | 3    | 0       | 1     | ---                  | 0    | 0       | 7     |
| Percent Heavy Vehicles:               | ---                | 1%   | 2%      | 2%    | ---                | 0%   | 1%      | 10%   | ---                          | 1%   | 0%      | 1%    | ---                  | 0%   | 0%      | 13%   |
| Approach Peak Hour Factor:            | 0.90               |      |         |       | 0.90               |      |         |       | 0.90                         |      |         |       | 0.92                 |      |         |       |
| Seasonal 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  | 0.99                 | 0.99 | 0.99    | 0.99  |
| Balance Adjustments**:                | ---                | ---  | -29     | ---   | ---                | ---  | 15      | ---   | ---                          | ---  | ---     | ---   | ---                  | ---  | ---     | ---   |
| Balanced 2016 Volume:                 | 0                  | 66   | 726     | 127   | 0                  | 49   | 761     | 31    | 0                            | 248  | 8       | 98    | 0                    | 30   | 44      | 53    |
| Access Mgmt Adjustment***:            | 0                  | 4    | -4      | ---   | 17                 | ---  | ---     | ---   | ---                          | ---  | ---     | ---   | ---                  | ---  | ---     | ---   |
| Build Condition Volume:               | 0                  | 70   | 722     | 127   | 17                 | 49   | 761     | 31    | 0                            | 248  | 8       | 98    | 0                    | 30   | 44      | 53    |
| Bicycle Movements:                    |                    |      |         |       |                    |      |         |       |                              |      |         |       |                      |      |         |       |
| Peds Crossing Approach:               |                    |      |         |       |                    |      |         |       |                              |      |         |       |                      |      |         |       |
| <b>MID PEAK HOUR (1:15 - 2:15 PM)</b> |                    |      |         |       |                    |      |         |       |                              |      |         |       |                      |      |         |       |
| Counted Total Volume:                 | 0                  | 196  | 1029    | 167   | 0                  | 56   | 1152    | 100   | 0                            | 171  | 17      | 62    | 0                    | 194  | 21      | 200   |
| Counted Heavy Vehicles:               | ---                | 1    | 16      | 0     | ---                | 0    | 9       | 0     | ---                          | 1    | 0       | 0     | ---                  | 1    | 0       | 3     |
| Percent Heavy Vehicles:               | ---                | 1%   | 2%      | 0%    | ---                | 0%   | 1%      | 0%    | ---                          | 1%   | 0%      | 0%    | ---                  | 1%   | 0%      | 2%    |
| Approach Peak Hour Factor:            | 0.96               |      |         |       | 0.94               |      |         |       | 0.83                         |      |         |       | 0.80                 |      |         |       |
| Seasonal 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  | 0.99                 | 0.99 | 0.99    | 0.99  |
| Adjusted 2016 Volume:                 | 0                  | 194  | 1019    | 165   | 0                  | 55   | 1140    | 99    | 0                            | 169  | 17      | 61    | 0                    | 192  | 21      | 198   |
| Bicycle Movements:                    |                    |      |         |       |                    |      |         |       |                              |      |         |       |                      |      |         |       |
| Peds Crossing Approach:               |                    |      |         |       |                    |      |         |       |                              |      |         |       |                      |      |         |       |
| <b>PM PEAK HOUR (3:45 - 4:45 PM)</b>  |                    |      |         |       |                    |      |         |       |                              |      |         |       |                      |      |         |       |
| Counted Total Volume:                 | 0                  | 249  | 1054    | 292   | 1                  | 105  | 1095    | 56    | 0                            | 231  | 22      | 61    | 0                    | 187  | 28      | 202   |
| Counted Heavy Vehicles:               | ---                | 0    | 9       | 1     | ---                | 0    | 8       | 0     | ---                          | 0    | 0       | 0     | ---                  | 0    | 0       | 5     |
| Percent Heavy Vehicles:               | ---                | 0%   | 1%      | 0%    | ---                | 0%   | 1%      | 0%    | ---                          | 0%   | 0%      | 0%    | ---                  | 0%   | 0%      | 2%    |
| Approach Peak Hour Factor:            | 0.91               |      |         |       | 0.93               |      |         |       | 0.98                         |      |         |       | 0.94                 |      |         |       |
| Seasonal 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  | 0.99                 | 0.99 | 0.99    | 0.99  |
| Balance Adjustments**:                | ---                | ---  | -49     | ---   | ---                | ---  | -90     | ---   | ---                          | ---  | ---     | ---   | ---                  | ---  | ---     | ---   |
| Balanced 2016 Volume:                 | 0                  | 247  | 994     | 289   | 1                  | 104  | 994     | 55    | 0                            | 229  | 22      | 60    | 0                    | 185  | 28      | 200   |
| Access Mgmt Adjustment***:            | 0                  | 16   | -16     | ---   | 28                 | ---  | ---     | ---   | ---                          | ---  | ---     | ---   | ---                  | ---  | ---     | ---   |
| Build Condition Volume:               | 0                  | 263  | 978     | 289   | 29                 | 104  | 994     | 55    | 0                            | 229  | 22      | 60    | 0                    | 185  | 28      | 200   |
| Bicycle Movements:                    |                    |      |         |       |                    |      |         |       |                              |      |         |       |                      |      |         |       |
| Peds Crossing Approach:               |                    |      |         |       |                    |      |         |       |                              |      |         |       |                      |      |         |       |

\* Seasonal Adjustment Factor from FDOT Traffic Information (2014 Brevard County - Countywide)

\*\* Manual Volume Adjustments to Mainline Through Movements to Promote Balancing of Traffic Volumes Between Intersections; Throughout Study Corridor

\*\*\* Volume Adjustment Based Upon Proposed Access Management Improvements (Raised Median Installation).

## INTERSECTION: SR 520 AT WALMART DRIVEWAY

## SECTION #70100 &amp; MP 12.720

|                  |                             |  |  |  |
|------------------|-----------------------------|--|--|--|
| E/W Road:        | SR 520                      |  |  |  |
| N/S Road:        | Walmart Driveway            |  |  |  |
| Count Date(s):   | 1/21/2016                   |  |  |  |
| Traffic Control: | Side Street Stop-Controlled |  |  |  |
| Notes:           |                             |  |  |  |

| Existing Lanes:      | Lefts | Throughs | Rights |
|----------------------|-------|----------|--------|
| Eastbound Approach:  | TWLTL | 3        | 1      |
| Westbound Approach:  | TWLTL | 4        | 0      |
| Northbound Approach: | 0     | 1        | 0      |
| Southbound Approach: | 0     | 0        | 1      |

| Condition                             | Eastbound (SR 520) |      |         |       | Westbound (SR 520) |      |         |       | Northbound (Driveway) |      |         |       | Southbound (Walmart) |      |         |       |
|---------------------------------------|--------------------|------|---------|-------|--------------------|------|---------|-------|-----------------------|------|---------|-------|----------------------|------|---------|-------|
|                                       | U-Turn             | Left | Through | Right | U-Turn             | Left | Through | Right | U-Turn                | Left | Through | Right | U-Turn               | Left | Through | Right |
| <b>AM PEAK HOUR (7:45 - 8:45 AM)</b>  |                    |      |         |       |                    |      |         |       |                       |      |         |       |                      |      |         |       |
| Counted Total Volume:                 | 1                  | 7    | 824     | 2     | 0                  | 0    | 840     | 42    | 0                     | 0    | 0       | 0     | 0                    | 5    | 0       | 3     |
| Counted Heavy Vehicles:               | ---                | 1    | 21      | 0     | ---                | 0    | 9       | 3     | ---                   | 0    | 0       | 0     | ---                  | 0    | 0       | 0     |
| Percent Heavy Vehicles:               | ---                | 13%  | 3%      | 0%    | ---                | 0%   | 1%      | 7%    | ---                   | 0%   | 0%      | 0%    | ---                  | 0%   | 0%      | 0%    |
| Approach Peak Hour Factor:            | 0.86               |      |         |       | 0.93               |      |         |       | 0.00                  |      |         |       | 0.50                 |      |         |       |
| Seasonal Factor*:                     | 1.01               | 1.01 | 1.01    | 1.01  | 1.01               | 1.01 | 1.01    | 1.01  | 1.01                  | 1.01 | 1.01    | 1.01  | 1.01                 | 1.01 | 1.01    | 1.01  |
| Balance Adjustments**:                | ---                | ---  | 10      | ---   | ---                | ---  | -9      | ---   | ---                   | ---  | ---     | ---   | ---                  | ---  | ---     | ---   |
| Balanced 2016 Volume:                 | 1                  | 7    | 842     | 2     | 0                  | 0    | 839     | 42    | 0                     | 0    | 0       | 0     | 0                    | 5    | 0       | 3     |
| Access Mgmt Adjustment***:            | -1                 | -7   | 19      | 0     | 0                  | 0    | 11      | 3     | ---                   | 0    | 0       | 0     | ---                  | -5   | 0       | 5     |
| Build Condition Volume:               | 0                  | 0    | 861     | 2     | 0                  | 0    | 850     | 45    | 0                     | 0    | 0       | 0     | 0                    | 0    | 0       | 8     |
| Bicycle Movements:                    |                    |      |         |       |                    |      |         |       |                       |      |         |       |                      |      |         |       |
| Peds Crossing Approach:               |                    |      |         |       |                    |      |         |       |                       |      |         |       |                      |      |         |       |
| <b>MID PEAK HOUR (1:15 - 2:15 PM)</b> |                    |      |         |       |                    |      |         |       |                       |      |         |       |                      |      |         |       |
| Counted Total Volume:                 | 0                  | 24   | 1204    | 2     | 0                  | 1    | 1226    | 92    | 0                     | 2    | 0       | 2     | 0                    | 7    | 0       | 37    |
| Counted Heavy Vehicles:               | ---                | 1    | 21      | 0     | ---                | 0    | 17      | 3     | ---                   | 0    | 0       | 0     | ---                  | 0    | 0       | 1     |
| Percent Heavy Vehicles:               | ---                | 4%   | 2%      | 0%    | ---                | 0%   | 1%      | 3%    | ---                   | 0%   | 0%      | 0%    | ---                  | 0%   | 0%      | 3%    |
| Approach Peak Hour Factor:            | 0.95               |      |         |       | 0.93               |      |         |       | 1.00                  |      |         |       | 0.85                 |      |         |       |
| Seasonal Factor*:                     | 1.01               | 1.01 | 1.01    | 1.01  | 1.01               | 1.01 | 1.01    | 1.01  | 1.01                  | 1.01 | 1.01    | 1.01  | 1.01                 | 1.01 | 1.01    | 1.01  |
| Adjusted 2016 Volume:                 | 0                  | 24   | 1216    | 2     | 0                  | 1    | 1238    | 93    | 0                     | 2    | 0       | 2     | 0                    | 7    | 0       | 37    |
| Bicycle Movements:                    |                    |      |         |       |                    |      |         |       |                       |      |         |       |                      |      |         |       |
| Peds Crossing Approach:               |                    |      |         |       |                    |      |         |       |                       |      |         |       |                      |      |         |       |
| <b>PM PEAK HOUR (3:00 - 4:00 PM)</b>  |                    |      |         |       |                    |      |         |       |                       |      |         |       |                      |      |         |       |
| Counted Total Volume:                 | 0                  | 31   | 1213    | 1     | 0                  | 0    | 1163    | 106   | 0                     | 0    | 0       | 0     | 0                    | 16   | 0       | 27    |
| Counted Heavy Vehicles:               | ---                | 0    | 11      | 0     | ---                | 0    | 16      | 4     | ---                   | 0    | 0       | 0     | ---                  | 0    | 0       | 0     |
| Percent Heavy Vehicles:               | ---                | 0%   | 1%      | 0%    | ---                | 0%   | 1%      | 4%    | ---                   | 0%   | 0%      | 0%    | ---                  | 0%   | 0%      | 0%    |
| Approach Peak Hour Factor:            | 0.92               |      |         |       | 0.95               |      |         |       | 0.00                  |      |         |       | 0.83                 |      |         |       |
| Seasonal Factor*:                     | 1.01               | 1.01 | 1.01    | 1.01  | 1.01               | 1.01 | 1.01    | 1.01  | 1.01                  | 1.01 | 1.01    | 1.01  | 1.01                 | 1.01 | 1.01    | 1.01  |
| Balance Adjustments**:                | ---                | ---  | 0       | ---   | ---                | ---  | -48     | ---   | ---                   | ---  | ---     | ---   | ---                  | ---  | ---     | ---   |
| Balanced 2016 Volume:                 | 0                  | 31   | 1225    | 1     | 0                  | 0    | 1127    | 107   | 0                     | 0    | 0       | 0     | 0                    | 16   | 0       | 27    |
| Access Mgmt Adjustment***:            | 0                  | -31  | 42      | 0     | 0                  | 0    | 11      | 15    | ---                   | 0    | 0       | 0     | ---                  | -16  | 0       | 16    |
| Build Condition Volume:               | 0                  | 0    | 1267    | 1     | 0                  | 0    | 1138    | 122   | 0                     | 0    | 0       | 0     | 0                    | 0    | 0       | 43    |
| Bicycle Movements:                    |                    |      |         |       |                    |      |         |       |                       |      |         |       |                      |      |         |       |
| Peds Crossing Approach:               |                    |      |         |       |                    |      |         |       |                       |      |         |       |                      |      |         |       |

\* Seasonal Adjustment Factor from FDOT Traffic Information (2014 Brevard County - Countywide)

\*\* Manual Volume Adjustments to Mainline Through Movements to Promote Balancing of Traffic Volumes Between Intersections; Throughout Study Corridor

\*\*\* Volume Adjustment Based Upon Proposed Access Management Improvements (Raised Median Installation).

## INTERSECTION: SR 520 AT NORTH BANANA RIVER DRIVE

## SECTION #70100 &amp; MP 12.857

|                  |                          |  |  |  |
|------------------|--------------------------|--|--|--|
| E/W Road:        | SR 520                   |  |  |  |
| N/S Road:        | North Banana River Drive |  |  |  |
| Count Date(s):   | 1/26/2016                |  |  |  |
| Traffic Control: | Signalized               |  |  |  |
| Notes:           |                          |  |  |  |

| Existing Lanes:      | Lefts | Throughs | Rights |
|----------------------|-------|----------|--------|
| Eastbound Approach:  | 1     | 3        | 0      |
| Westbound Approach:  | 1     | 3        | 1      |
| Northbound Approach: | 1     | 1        | 0      |
| Southbound Approach: | 1     | 1        | 0      |

| Condition                             | Eastbound (SR 520) |      |         |       | Westbound (SR 520) |      |         |       | Northbound (Driveway) |      |         |       | Southbound (N. Banana River) |      |         |       |
|---------------------------------------|--------------------|------|---------|-------|--------------------|------|---------|-------|-----------------------|------|---------|-------|------------------------------|------|---------|-------|
|                                       | U-Turn             | Left | Through | Right | U-Turn             | Left | Through | Right | U-Turn                | Left | Through | Right | U-Turn                       | Left | Through | Right |
| <b>AM PEAK HOUR (8:00 - 9:00 AM)</b>  |                    |      |         |       |                    |      |         |       |                       |      |         |       |                              |      |         |       |
| Counted Total Volume:                 | 0                  | 107  | 689     | 22    | 0                  | 3    | 731     | 66    | 0                     | 8    | 3       | 2     | 0                            | 115  | 10      | 149   |
| Counted Heavy Vehicles:               | ---                | 2    | 20      | 0     | ---                | 0    | 14      | 3     | ---                   | 0    | 0       | 0     | ---                          | 0    | 0       | 3     |
| Percent Heavy Vehicles:               | ---                | 2%   | 3%      | 0%    | ---                | 0%   | 2%      | 5%    | ---                   | 0%   | 0%      | 0%    | ---                          | 0%   | 0%      | 2%    |
| Approach Peak Hour Factor:            | 0.96               |      |         |       | 0.95               |      |         |       | 0.81                  |      |         |       | 0.86                         |      |         |       |
| Seasonal 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  | 0.99                         | 0.99 | 0.99    | 0.99  |
| Balance Adjustments**:                | ---                | ---  | 15      | ---   | ---                | ---  | -7      | ---   | ---                   | ---  | ---     | ---   | ---                          | ---  | ---     | ---   |
| Balanced 2016 Volume:                 | 0                  | 106  | 697     | 22    | 0                  | 3    | 717     | 65    | 0                     | 8    | 3       | 2     | 0                            | 114  | 10      | 148   |
| Access Mgmt Adjustment***:            | 26                 | ---  | ---     | ---   | 16                 | ---  | ---     | ---   | ---                   | ---  | ---     | ---   | ---                          | ---  | ---     | ---   |
| Build Condition Volume:               | 26                 | 106  | 697     | 22    | 16                 | 3    | 717     | 65    | 0                     | 8    | 3       | 2     | 0                            | 114  | 10      | 148   |
| Bicycle Movements:                    |                    |      |         |       |                    |      |         |       |                       |      |         |       |                              |      |         |       |
| Peds Crossing Approach:               |                    |      |         |       |                    |      |         |       |                       |      |         |       |                              |      |         |       |
| <b>MID PEAK HOUR (1:00 - 2:00 PM)</b> |                    |      |         |       |                    |      |         |       |                       |      |         |       |                              |      |         |       |
| Counted Total Volume:                 | 0                  | 170  | 1019    | 17    | 1                  | 9    | 1064    | 117   | 0                     | 18   | 0       | 8     | 0                            | 100  | 3       | 182   |
| Counted Heavy Vehicles:               | ---                | 2    | 10      | 0     | ---                | 0    | 10      | 0     | ---                   | 0    | 0       | 0     | ---                          | 1    | 0       | 5     |
| Percent Heavy Vehicles:               | ---                | 1%   | 1%      | 0%    | ---                | 0%   | 1%      | 0%    | ---                   | 0%   | 0%      | 0%    | ---                          | 1%   | 0%      | 3%    |
| Approach Peak Hour Factor:            | 0.98               |      |         |       | 0.95               |      |         |       | 0.65                  |      |         |       | 0.88                         |      |         |       |
| Seasonal 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  | 0.99                         | 0.99 | 0.99    | 0.99  |
| Adjusted 2016 Volume:                 | 0                  | 168  | 1009    | 17    | 1                  | 9    | 1053    | 116   | 0                     | 18   | 0       | 8     | 0                            | 99   | 3       | 180   |
| Bicycle Movements:                    |                    |      |         |       |                    |      |         |       |                       |      |         |       |                              |      |         |       |
| Peds Crossing Approach:               |                    |      |         |       |                    |      |         |       |                       |      |         |       |                              |      |         |       |
| <b>PM PEAK HOUR (4:15 - 5:15 PM)</b>  |                    |      |         |       |                    |      |         |       |                       |      |         |       |                              |      |         |       |
| Counted Total Volume:                 | 2                  | 174  | 1058    | 10    | 0                  | 6    | 940     | 125   | 0                     | 13   | 4       | 7     | 0                            | 121  | 1       | 210   |
| Counted Heavy Vehicles:               | ---                | 1    | 8       | 0     | ---                | 0    | 9       | 1     | ---                   | 0    | 0       | 0     | ---                          | 0    | 0       | 2     |
| Percent Heavy Vehicles:               | ---                | 1%   | 1%      | 0%    | ---                | 0%   | 1%      | 1%    | ---                   | 0%   | 0%      | 0%    | ---                          | 0%   | 0%      | 1%    |
| Approach Peak Hour Factor:            | 0.87               |      |         |       | 0.84               |      |         |       | 0.50                  |      |         |       | 0.79                         |      |         |       |
| Seasonal 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  | 0.99                         | 0.99 | 0.99    | 0.99  |
| Balance Adjustments**:                | ---                | ---  | 3       | ---   | ---                | ---  | 58      | ---   | ---                   | ---  | ---     | ---   | ---                          | ---  | ---     | ---   |
| Balanced 2016 Volume:                 | 2                  | 172  | 1050    | 10    | 0                  | 6    | 989     | 124   | 0                     | 13   | 4       | 7     | 0                            | 120  | 1       | 208   |
| Access Mgmt Adjustment***:            | 40                 | ---  | ---     | ---   | 18                 | ---  | ---     | ---   | ---                   | ---  | ---     | ---   | ---                          | ---  | ---     | ---   |
| Build Condition Volume:               | 42                 | 172  | 1050    | 10    | 18                 | 6    | 989     | 124   | 0                     | 13   | 4       | 7     | 0                            | 120  | 1       | 208   |
| Bicycle Movements:                    |                    |      |         |       |                    |      |         |       |                       |      |         |       |                              |      |         |       |
| Peds Crossing Approach:               |                    |      |         |       |                    |      |         |       |                       |      |         |       |                              |      |         |       |

\* Seasonal Adjustment Factor from FDOT Traffic Information (2014 Brevard County - Countywide)

\*\* Manual Volume Adjustments to Mainline Through Movements to Promote Balancing of Traffic Volumes Between Intersections; Throughout Study Corridor

\*\*\* Volume Adjustment Based Upon Proposed Access Management Improvements (Raised Median Installation).

## INTERSECTION: SR 520 AT SOUTH BANANA RIVER DRIVE

## SECTION #70100 &amp; MP 13.013

|                  |   |  |  |  |
|------------------|---|--|--|--|
| E/W Road:        | SR 520  |  |  |  |
| N/S Road:        | South Banana River Drive / Milton Point Drive |  |  |  |
| Count Date(s):   | 1/26/2016                                     |  |  |  |
| Traffic Control: | Signalized                                    |  |  |  |
| Notes:           |   |  |  |  |

| Existing Lanes:      | Lefts | Throughs | Rights |
|----------------------|-------|----------|--------|
| Eastbound Approach:  | 1     | 2        | 1      |
| Westbound Approach:  | 1     | 3        | 1      |
| Northbound Approach: | 0     | 1        | 0      |
| Southbound Approach: | 0     | 1        | 0      |

| Condition                             | Eastbound (SR 520) |      |         |       | Westbound (SR 520) |      |         |       | Northbound (S. Banana River) |      |         |       | Southbound (Milton Point) |      |         |       |
|---------------------------------------|--------------------|------|---------|-------|--------------------|------|---------|-------|------------------------------|------|---------|-------|---------------------------|------|---------|-------|
|                                       | U-Turn             | Left | Through | Right | U-Turn             | Left | Through | Right | U-Turn                       | Left | Through | Right | U-Turn                    | Left | Through | Right |
| <b>AM PEAK HOUR (7:45 - 8:45 AM)</b>  |                    |      |         |       |                    |      |         |       |                              |      |         |       |                           |      |         |       |
| Counted Total Volume:                 | 0                  | 7    | 750     | 65    | 0                  | 11   | 733     | 2     | 0                            | 44   | 2       | 32    | 0                         | 1    | 3       | 14    |
| Counted Heavy Vehicles:               | ---                | 0    | 14      | 4     | ---                | 0    | 9       | 0     | ---                          | 2    | 0       | 0     | ---                       | 0    | 0       | 0     |
| Percent Heavy Vehicles:               | ---                | 0%   | 2%      | 6%    | ---                | 0%   | 1%      | 0%    | ---                          | 5%   | 0%      | 0%    | ---                       | 0%   | 0%      | 0%    |
| Approach Peak Hour Factor:            | 0.94               |      |         |       | 0.89               |      |         |       | 0.75                         |      |         |       | 0.75                      |      |         |       |
| Seasonal 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  | 0.99                      | 0.99 | 0.99    | 0.99  |
| Balance Adjustments**:                | ---                | ---  | -28     | ---   | ---                | ---  | 20      | ---   | ---                          | ---  | ---     | ---   | ---                       | ---  | ---     | ---   |
| Balanced 2016 Volume:                 | 0                  | 7    | 715     | 64    | 0                  | 11   | 746     | 2     | 0                            | 44   | 2       | 32    | 0                         | 1    | 3       | 14    |
| Access Mgmt Adjustment***:            | 29                 | ---  | ---     | ---   | 14                 | ---  | ---     | ---   | ---                          | ---  | ---     | ---   | ---                       | ---  | ---     | ---   |
| Build Condition Volume:               | 29                 | 7    | 715     | 64    | 14                 | 11   | 746     | 2     | 0                            | 44   | 2       | 32    | 0                         | 1    | 3       | 14    |
| Bicycle Movements:                    |                    |      |         |       |                    |      |         |       |                              |      |         |       |                           |      |         |       |
| Peds Crossing Approach:               |                    |      |         |       |                    |      |         |       |                              |      |         |       |                           |      |         |       |
| <b>MID PEAK HOUR (1:15 - 2:15 PM)</b> |                    |      |         |       |                    |      |         |       |                              |      |         |       |                           |      |         |       |
| Counted Total Volume:                 | 0                  | 15   | 1040    | 76    | 0                  | 23   | 1129    | 9     | 0                            | 84   | 1       | 26    | 0                         | 2    | 1       | 13    |
| Counted Heavy Vehicles:               | ---                | 0    | 16      | 1     | ---                | 0    | 10      | 0     | ---                          | 0    | 0       | 0     | ---                       | 0    | 0       | 0     |
| Percent Heavy Vehicles:               | ---                | 0%   | 2%      | 1%    | ---                | 0%   | 1%      | 0%    | ---                          | 0%   | 0%      | 0%    | ---                       | 0%   | 0%      | 0%    |
| Approach Peak Hour Factor:            | 0.89               |      |         |       | 0.90               |      |         |       | 0.75                         |      |         |       | 0.44                      |      |         |       |
| Seasonal 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  | 0.99                      | 0.99 | 0.99    | 0.99  |
| Adjusted 2016 Volume:                 | 0                  | 15   | 1030    | 75    | 0                  | 23   | 1118    | 9     | 0                            | 83   | 1       | 26    | 0                         | 2    | 1       | 13    |
| Bicycle Movements:                    |                    |      |         |       |                    |      |         |       |                              |      |         |       |                           |      |         |       |
| Peds Crossing Approach:               |                    |      |         |       |                    |      |         |       |                              |      |         |       |                           |      |         |       |
| <b>PM PEAK HOUR (4:30 - 5:30 PM)</b>  |                    |      |         |       |                    |      |         |       |                              |      |         |       |                           |      |         |       |
| Counted Total Volume:                 | 1                  | 17   | 1023    | 95    | 0                  | 40   | 1012    | 5     | 0                            | 60   | 4       | 18    | 0                         | 1    | 5       | 9     |
| Counted Heavy Vehicles:               | ---                | 0    | 5       | 1     | ---                | 0    | 8       | 0     | ---                          | 1    | 0       | 0     | ---                       | 0    | 0       | 0     |
| Percent Heavy Vehicles:               | ---                | 0%   | 0%      | 1%    | ---                | 0%   | 1%      | 0%    | ---                          | 2%   | 0%      | 0%    | ---                       | 0%   | 0%      | 0%    |
| Approach Peak Hour Factor:            | 0.89               |      |         |       | 0.93               |      |         |       | 0.89                         |      |         |       | 0.75                      |      |         |       |
| Seasonal 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  | 0.99                      | 0.99 | 0.99    | 0.99  |
| Balance Adjustments**:                | ---                | ---  | 42      | ---   | ---                | ---  | 48      | ---   | ---                          | ---  | ---     | ---   | ---                       | ---  | ---     | ---   |
| Balanced 2016 Volume:                 | 1                  | 17   | 1055    | 94    | 0                  | 40   | 1050    | 5     | 0                            | 59   | 4       | 18    | 0                         | 1    | 5       | 9     |
| Access Mgmt Adjustment***:            | 15                 | ---  | ---     | ---   | 10                 | ---  | ---     | ---   | ---                          | ---  | ---     | ---   | ---                       | ---  | ---     | ---   |
| Build Condition Volume:               | 16                 | 17   | 1055    | 94    | 10                 | 40   | 1050    | 5     | 0                            | 59   | 4       | 18    | 0                         | 1    | 5       | 9     |
| Bicycle Movements:                    |                    |      |         |       |                    |      |         |       |                              |      |         |       |                           |      |         |       |
| Peds Crossing Approach:               |                    |      |         |       |                    |      |         |       |                              |      |         |       |                           |      |         |       |

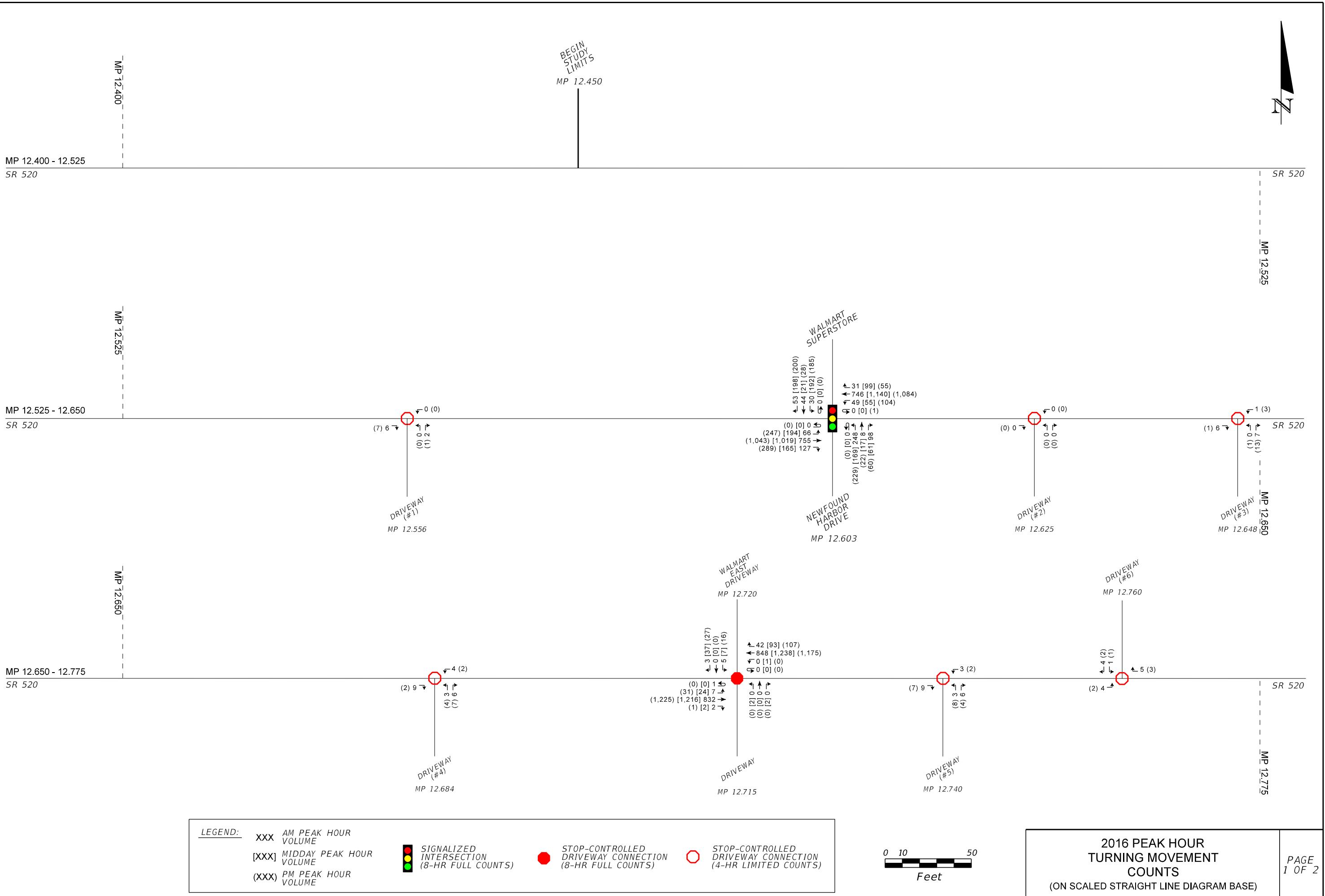
\* Seasonal Adjustment Factor from FDOT Traffic Information (2014 Brevard County - Countywide)

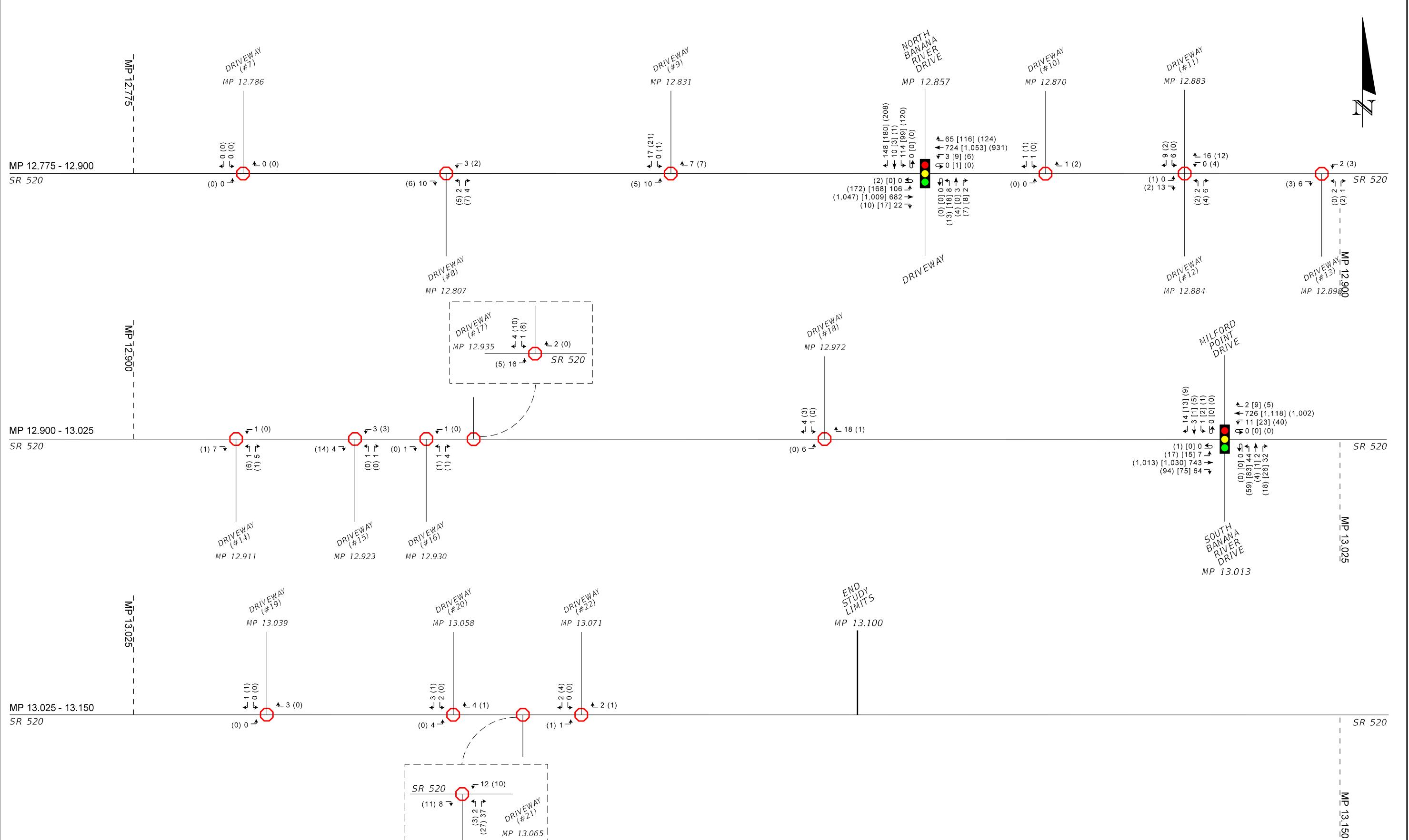
\*\* Manual Volume Adjustments to Mainline Through Movements to Promote Balancing of Traffic Volumes Between Intersections; Throughout Study Corridor

\*\*\* Volume Adjustment Based Upon Proposed Access Management Improvements (Raised Median Installation).

# SR 520 Driveways

| Driveway No. | MP     | Position | Business Name                            | Station | 9 - 11 AM |         |           |          |         |       | 3 - 5 PM |         |           |          |       |       |
|--------------|--------|----------|--|---------|-----------|---------|-----------|----------|---------|-------|----------|---------|-----------|----------|-------|-------|
|              |        |          |  |         | Right In  | Left In | Right Out | Left Out |         | Total | Right In | Left In | Right Out | Left Out |       | Total |
| 1            | 12.556 | South    | Mike Erdman Toyota                       | S1      | 5         | 0       | 2         | 0        | 9-10AM  | 7     | 4        | 0       | 2         | 0        | 3-4PM | 6     |
|              |        |          |  |         | 6         | 0       | 2         | 0        | 10-11AM | 8     | 7        | 0       | 1         | 0        | 4-5PM | 8     |
| 2            | 12.625 | South    | Express Lane                             | S2      | 0         | 0       | 0         | 0        | 9-10AM  | 0     | 0        | 0       | 0         | 0        | 3-4PM | 0     |
|              |        |          |  |         | 0         | 0       | 0         | 0        | 10-11AM | 0     | 0        | 0       | 0         | 0        | 4-5PM | 0     |
| 3            | 12.648 | South    | Mike Erdman Toyota Trucks & RVs          | S3      | 4         | 2       | 4         | 0        | 9-10AM  | 10    | 0        | 1       | 8         | 1        | 3-4PM | 10    |
|              |        |          |  |         | 6         | 1       | 7         | 0        | 10-11AM | 14    | 1        | 3       | 13        | 1        | 4-5PM | 18    |
| 4            | 12.684 | South    | Ron's European Auto Service              | S4      | 7         | 7       | 3         | 1        | 9-10AM  | 18    | 2        | 2       | 7         | 4        | 3-4PM | 15    |
|              |        |          |  |         | 9         | 4       | 6         | 3        | 10-11AM | 22    | 4        | 1       | 5         | 3        | 4-5PM | 13    |
| 5            | 12.740 | South    | CARQUEST Auto Parts                      | S5      | 7         | 4       | 3         | 2        | 9-10AM  | 16    | 6        | 6       | 4         | 4        | 3-4PM | 20    |
|              |        |          |  |         | 9         | 3       | 6         | 3        | 10-11AM | 21    | 7        | 2       | 4         | 8        | 4-5PM | 21    |
| 6            | 12.760 | North    | Fuccillo Kia                             | N1      | 3         | 2       | 3         | 2        | 9-10AM  | 10    | 3        | 2       | 2         | 1        | 3-4PM | 8     |
|              |        |          |  |         | 5         | 4       | 4         | 1        | 10-11AM | 14    | 0        | 4       | 2         | 1        | 4-5PM | 7     |
| 7            | 12.786 | North    | Fuccillo Kia                             | N2      | 0         | 0       | 0         | 0        | 9-10AM  | 0     | 0        | 0       | 0         | 0        | 3-4PM | 0     |
|              |        |          |  |         | 0         | 0       | 0         | 0        | 10-11AM | 0     | 0        | 0       | 0         | 0        | 4-5PM | 0     |
| 8            | 12.807 | South    | Boniface-Hiers Chrysler Dodge            | S6      | 8         | 2       | 3         | 1        | 9-10AM  | 14    | 3        | 4       | 3         | 1        | 3-4PM | 11    |
|              |        |          |  |         | 10        | 3       | 4         | 2        | 10-11AM | 19    | 6        | 2       | 7         | 5        | 4-5PM | 20    |
| 9            | 12.831 | North    | Sunoco                                   | N3      | 9         | 4       | 21        | 0        | 9-10AM  | 34    | 7        | 5       | 21        | 1        | 3-4PM | 34    |
|              |        |          |  |         | 7         | 10      | 17        | 0        | 10-11AM | 34    | 9        | 9       | 14        | 0        | 4-5PM | 32    |
| 10           | 12.870 | North    | BP                                       | N4      | 1         | 0       | 0         | 0        | 9-10AM  | 1     | 2        | 0       | 1         | 0        | 3-4PM | 3     |
|              |        |          |  |         | 1         | 0       | 1         | 1        | 10-11AM | 3     | 1        | 0       | 0         | 0        | 4-5PM | 1     |
| 11           | 12.883 | North    | BP                                       | N5      | 12        | 0       | 7         | 3        | 9-10AM  | 22    | 12       | 1       | 2         | 0        | 3-4PM | 15    |
|              |        |          |  |         | 16        | 0       | 9         | 6        | 10-11AM | 31    | 12       | 1       | 0         | 1        | 4-5PM | 14    |
| 12           | 12.884 | South    | Gen-X Motors                             | S7      | 11        | 0       | 3         | 1        | 9-10AM  | 15    | 2        | 4       | 4         | 2        | 3-4PM | 12    |
|              |        |          |  |         | 13        | 0       | 6         | 2        | 10-11AM | 21    | 3        | 3       | 3         | 3        | 4-5PM | 12    |
| 13           | 12.898 | South    | H&D Roadhouse Bar                        | S8      | 3         | 1       | 1         | 0        | 9-10AM  | 5     | 3        | 3       | 2         | 0        | 3-4PM | 8     |
|              |        |          |  |         | 6         | 2       | 1         | 2        | 10-11AM | 11    | 2        | 1       | 0         | 2        | 4-5PM | 5     |
| 14           | 12.911 | South    | H&D Roadhouse Bar                        | S9      | 5         | 1       | 2         | 0        | 9-10AM  | 8     | 1        | 0       | 2         | 5        | 3-4PM | 8     |
|              |        |          |  |         | 7         | 1       | 5         | 1        | 10-11AM | 14    | 1        | 0       | 1         | 6        | 4-5PM | 8     |
| 15           | 12.923 | South    | Karate Dojo                              | S10     | 1         | 2       | 0         | 2        | 9-10AM  | 5     | 5        | 1       | 0         | 0        | 3-4PM | 6     |
|              |        |          |  |         | 4         | 3       | 1         | 1        | 10-11AM | 9     | 14       | 3       | 0         | 0        | 4-5PM | 17    |
| 16           | 12.930 | South    | Karate Dojo                              | S11     | 0         | 0       | 1         | 2        | 9-10AM  | 3     | 0        | 0       | 0         | 0        | 3-4PM | 0     |
|              |        |          |  |         | 1         | 1       | 4         | 1        | 10-11AM | 7     | 0        | 0       | 1         | 1        | 4-5PM | 2     |
| 17           | 12.935 | North    | Island Lincoln Mercury                   | N6      | 2         | 16      | 4         | 1        | 9-10AM  | 23    | 0        | 5       | 10        | 8        | 3-4PM | 23    |
|              |        |          |  |         | 1         | 11      | 7         | 1        | 10-11AM | 20    | 2        | 0       | 15        | 2        | 4-5PM | 19    |
| 18           | 12.972 | North    | Island Lincoln Mercury                   | N7      | 18        | 6       | 4         | 1        | 9-10AM  | 29    | 1        | 0       | 3         | 0        | 3-4PM | 4     |
|              |        |          |  |         | 11        | 5       | 4         | 2        | 10-11AM | 22    | 0        | 0       | 3         | 0        | 4-5PM | 3     |
| 19           | 13.039 | North    | Beach Marine Service                     | N8      | 2         | 0       | 2         | 0        | 9-10AM  | 4     | 0        | 0       | 0         | 0        | 3-4PM | 0     |
|              |        |          |  |         | 3         | 0       | 1         | 0        | 10-11AM | 4     | 0        | 0       | 1         | 0        | 4-5PM | 1     |
| 20           | 13.058 | North    | Funtime Boats                            | N9      | 3         | 2       | 1         | 1        | 9-10AM  | 7     | 1        | 0       | 1         | 0        | 3-4PM | 2     |
|              |        |          |  |         | 4         | 4       | 3         | 2        | 10-11AM | 13    | 0        | 0       | 1         | 0        | 4-5PM | 1     |
| 21           | 13.065 | South    | 7-Eleven / Island Waterfront Bar & Grill | S12     | 11        | 9       | 27        | 3        | 9-10AM  | 50    | 11       | 10      | 27        | 3        | 3-4PM | 51    |
|              |        |          |  |         | 8         | 12      | 37        | 2        | 10-11AM | 59    | 8        | 11      | 23        | 0        | 4-5PM | 42    |
| 22           | 13.071 | North    | Jet Ski & Boat Rentals                   | N10     | 1         | 1       | 0         | 1        | 9-10AM  | 3     | 0        | 1       | 1         | 1        | 3-4PM | 3     |
|              |        |          |  |         | 2         | 1       | 2         | 0        | 10-11AM | 5     | 1        | 1       | 4         | 0        | 4-5PM | 6     |





LEGEND:  AM PEAK HOUR

---

**XXX** VOLUME

[XXX] MIDDAY PEAK HO  
VOLUME



**STOP-CONTROLLED  
DRIVEWAY CONNECTION  
(8-HR FULL COUNTS)**

**STOP-CONTROLLED  
DRIVEWAY CONNECTION  
(4-HR LIMITED COUNTS)**

*Feet*

# 2016 PEAK HOUR TURNING MOVEMENT COUNTS

## SCALED STRAIGHT LINE DIAGRAM

PAGE  
2 OF 2

| 2016 AM COUNT DATA           | SR 520 WESTBOUND                               |                              |                           |  | SR 520 EASTBOUND                               |                              |                           |  | AADT<br>Calculated<br>per TMCs | POST-ADJUSTMENT |                 |                 | EXISTING PER TMCS |                 |                 | TOTAL LINK<br>ADJUSTMENT<br>PROPOSED |
|------------------------------|--|------------------------------|---------------------------|--|--|------------------------------|---------------------------|--|--------------------------------|-----------------|-----------------|-----------------|-------------------|-----------------|-----------------|--------------------------------------|
|                              | Intersection<br>Appr. Counts &<br>Dir. Impacts | Balanced<br>Volumes:<br>BASE | Resulting<br>Adjustments: |  | Intersection<br>Appr. Counts &<br>Dir. Impacts | Balanced<br>Volumes:<br>BASE | Resulting<br>Adjustments: |  |                                | K               | D <sub>WB</sub> | D <sub>EB</sub> | K                 | D <sub>WB</sub> | D <sub>EB</sub> |                                      |
| Intersections (Count Date)   |  |                              |                           |  |  |                              |                           |  |                                |                 |                 |                 |                   |                 |                 |                                      |
| Driveways                    |  |                              |                           |  |  |                              |                           |  |                                |                 |                 |                 |                   |                 |                 |                                      |
|                              | 739  | 759                          | 20                        |  | 776  | 748                          | -28                       |  | 16,833                         | 8.95%           | 50.4%           | 49.6%           | 9.00%             | 48.8%           | 51.2%           | -8                                   |
| S Banana River (1/26/2016)   | 45   |                              |                           |  | -38  |                              |                           |  |                                |                 |                 |                 |                   |                 |                 |                                      |
|                              | 784  | 804                          | 20                        |  | 814  | 786                          | -28                       |  | 17,756                         | 8.95%           | 50.6%           | 49.4%           | 9.00%             | 49.1%           | 50.9%           | -8                                   |
| Driveways 10-18:             | -19  |                              |                           |  | -27  |                              |                           |  |                                |                 |                 |                 |                   |                 |                 |                                      |
|                              | 792  | 785                          | -7                        |  | 798  | 813                          | 15                        |  | 17,667                         | 9.05%           | 49.1%           | 50.9%           | 9.00%             | 49.8%           | 50.2%           | 8                                    |
| N Banana River (1/26/2016)   | 88   |                              |                           |  | -12  |                              |                           |  |                                |                 |                 |                 |                   |                 |                 |                                      |
|                              | 880  | 873                          | -7                        |  | 810  | 825                          | 15                        |  | 18,778                         | 9.04%           | 51.4%           | 48.6%           | 9.00%             | 52.1%           | 47.9%           | 8                                    |
| Driveways 5-9:               | 8  |                              |                           |  | -22  |                              |                           |  |                                |                 |                 |                 |                   |                 |                 |                                      |
|                              | 890  | 881                          | -9                        |  | 837  | 847                          | 10                        |  | 19,189                         | 9.01%           | 51.0%           | 49.0%           | 9.00%             | 51.5%           | 48.5%           | 1                                    |
| Walmart Driveway (1/21/2016) | -38  |                              |                           |  | -5   |                              |                           |  |                                |                 |                 |                 |                   |                 |                 |                                      |
|                              | 852  | 843                          | -9                        |  | 842  | 852                          | 10                        |  | 18,822                         | 9.01%           | 49.7%           | 50.3%           | 9.00%             | 50.3%           | 49.7%           | 1                                    |
| Driveways 2-4:               | -2   |                              |                           |  | -2   |                              |                           |  |                                |                 |                 |                 |                   |                 |                 |                                      |
|                              | 826  | 841                          | 15                        |  | 883  | 854                          | -29                       |  | 18,989                         | 8.93%           | 49.6%           | 50.4%           | 9.00%             | 48.3%           | 51.7%           | -14                                  |
| Newfound Harbor (1/26/2016)  | 221  |                              |                           |  | -65  |                              |                           |  |                                |                 |                 |                 |                   |                 |                 |                                      |
|                              | 1047   | 1062                         | 15                        |  | 948  | 919                          | -29                       |  | 22,167                         | 8.94%           | 53.6%           | 46.4%           | 9.00%             | 52.5%           | 47.5%           | -14                                  |

Average WB Adjustment:

5

Average EB Adjustment:

-8

Newfound-S Banana:

9.00%

K

D-WB

D-EB

9.00%\*

50.2%

K

D-WB

D-EB

GOAL VALUES:

9.00%

50.20%

49.80%

\*FDOT Standard K

| 2016 PM COUNT DATA           | SR 520 WESTBOUND                               |                              |                           |  | SR 520 EASTBOUND                               |                              |                           |  | AADT<br>Calculated<br>per TMCs | POST-ADJUSTMENT |                 |                 | EXISTING PER TMCS |                 |                 | TOTAL LINK<br>ADJUSTMENT<br>PROPOSED |
|------------------------------|--|------------------------------|---------------------------|--|--|------------------------------|---------------------------|--|--------------------------------|-----------------|-----------------|-----------------|-------------------|-----------------|-----------------|--------------------------------------|
|                              | Intersection<br>Appr. Counts &<br>Dir. Impacts | Balanced<br>Volumes:<br>BASE | Resulting<br>Adjustments: |  | Intersection<br>Appr. Counts &<br>Dir. Impacts | Balanced<br>Volumes:<br>BASE | Resulting<br>Adjustments: |  |                                | K               | D <sub>WB</sub> | D <sub>EB</sub> | K                 | D <sub>WB</sub> | D <sub>EB</sub> |                                      |
| Intersections (Count Date)   |  |                              |                           |  |  |                              |                           |  |                                |                 |                 |                 |                   |                 |                 |                                      |
| Driveways                    |  |                              |                           |  |  |                              |                           |  |                                |                 |                 |                 |                   |                 |                 |                                      |
|                              | 1047   | 1095                         | 48                        |  | 1032   | 1074                         | 42                        |  | 23,100                         | 9.39%           | 50.5%           | 49.5%           | 9.00%             | 50.4%           | 49.6%           | 90                                   |
| S Banana River (1/26/2016)   | 24   |                              |                           |  | -93  |                              |                           |  |                                |                 |                 |                 |                   |                 |                 |                                      |
|                              | 1071   | 1119                         | 48                        |  | 1125   | 1167                         | 42                        |  | 24,400                         | 9.37%           | 49.0%           | 51.0%           | 9.00%             | 48.8%           | 51.2%           | 90                                   |
| Driveways 10-18:             | 0  |                              |                           |  | -10  |                              |                           |  |                                |                 |                 |                 |                   |                 |                 |                                      |
|                              | 1061   | 1119                         | 58                        |  | 1174   | 1177                         | 3                         |  | 24,833                         | 9.25%           | 48.7%           | 51.3%           | 9.00%             | 47.5%           | 52.5%           | 61                                   |
| N Banana River (1/26/2016)   | 93   |                              |                           |  | -57  |                              |                           |  |                                |                 |                 |                 |                   |                 |                 |                                      |
|                              | 1154   | 1212                         | 58                        |  | 1231   | 1234                         | 3                         |  | 26,500                         | 9.23%           | 49.6%           | 50.4%           | 9.00%             | 48.4%           | 51.6%           | 61                                   |
| Driveways 5-9:               | 22   |                              |                           |  | -7   |                              |                           |  |                                |                 |                 |                 |                   |                 |                 |                                      |
|                              | 1282   | 1234                         | -48                       |  | 1241   | 1241                         | 0                         |  | 28,033                         | 8.83%           | 49.9%           | 50.1%           | 9.00%             | 50.8%           | 49.2%           | -48                                  |
| Walmart Driveway (1/21/2016) | -80  |                              |                           |  | -16  |                              |                           |  |                                |                 |                 |                 |                   |                 |                 |                                      |
|                              | 1202   | 1154                         | -48                       |  | 1257   | 1257                         | 0                         |  | 27,322                         | 8.82%           | 47.9%           | 52.1%           | 9.00%             | 48.9%           | 51.1%           | -48                                  |
| Driveways 2-4:               | 0  |                              |                           |  | 17   |                              |                           |  |                                |                 |                 |                 |                   |                 |                 |                                      |
|                              | 1244   | 1154                         | -90                       |  | 1289   | 1240                         | -49                       |  | 28,144                         | 8.51%           | 48.2%           | 51.8%           | 9.00%             | 49.1%           | 50.9%           | -139                                 |
| Newfound Harbor (1/26/2016)  | 269  |                              |                           |  | -290   |                              |                           |  |                                |                 |                 |                 |                   |                 |                 |                                      |
|                              | 1513   | 1423                         | -90                       |  | 1579   | 1530                         | -49                       |  | 34,356                         | 8.60%           | 48.2%           | 51.8%           | 9.00%             | 48.9%           | 51.1%           | -139                                 |

Average WB Adjustment:

-8

Average EB Adjustment:

-1

Newfound-S Banana:

9.00%

K

D-WB

D-EB

9.00%\*

48.9%

K

D-WB

D-EB

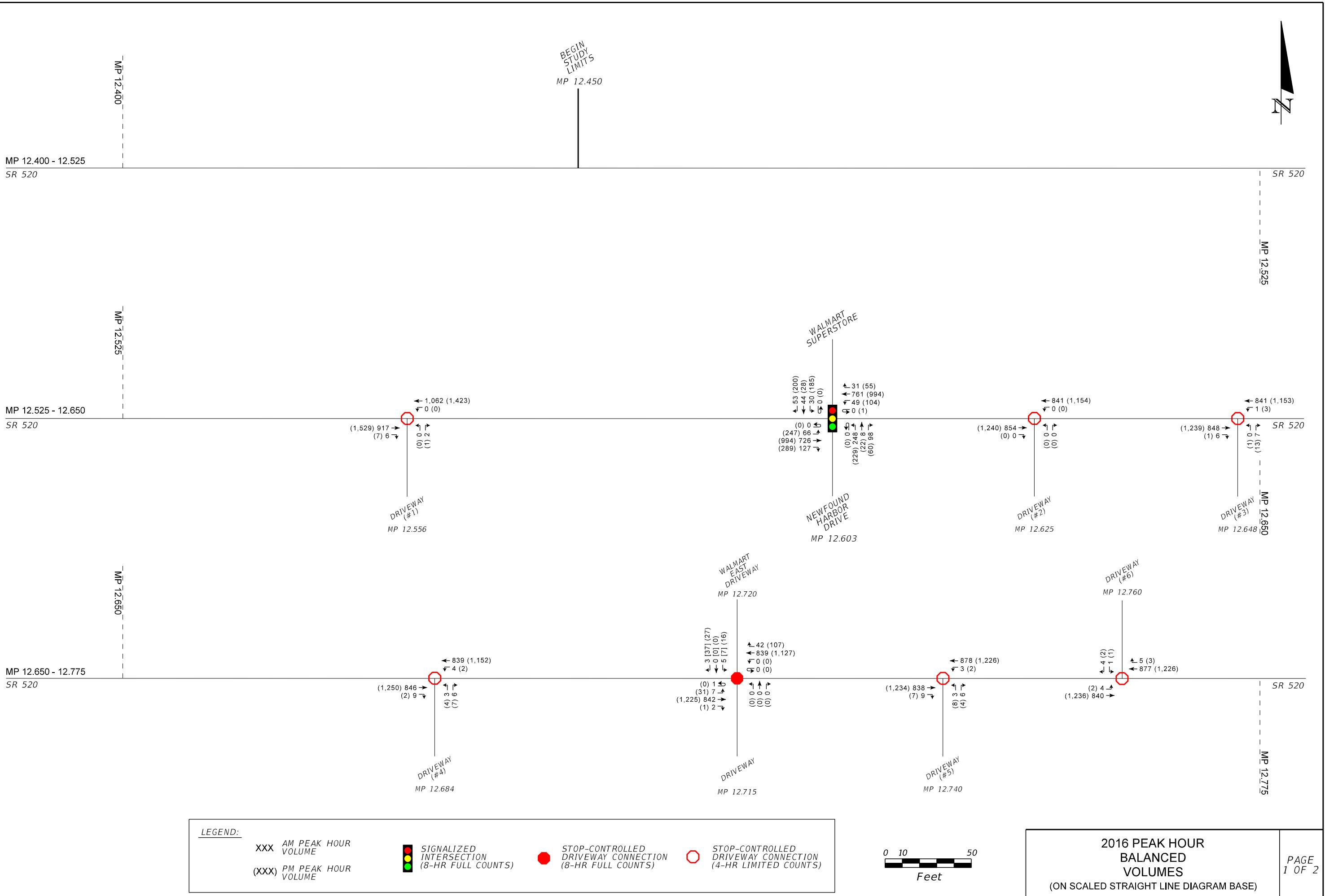
GOAL VALUES:

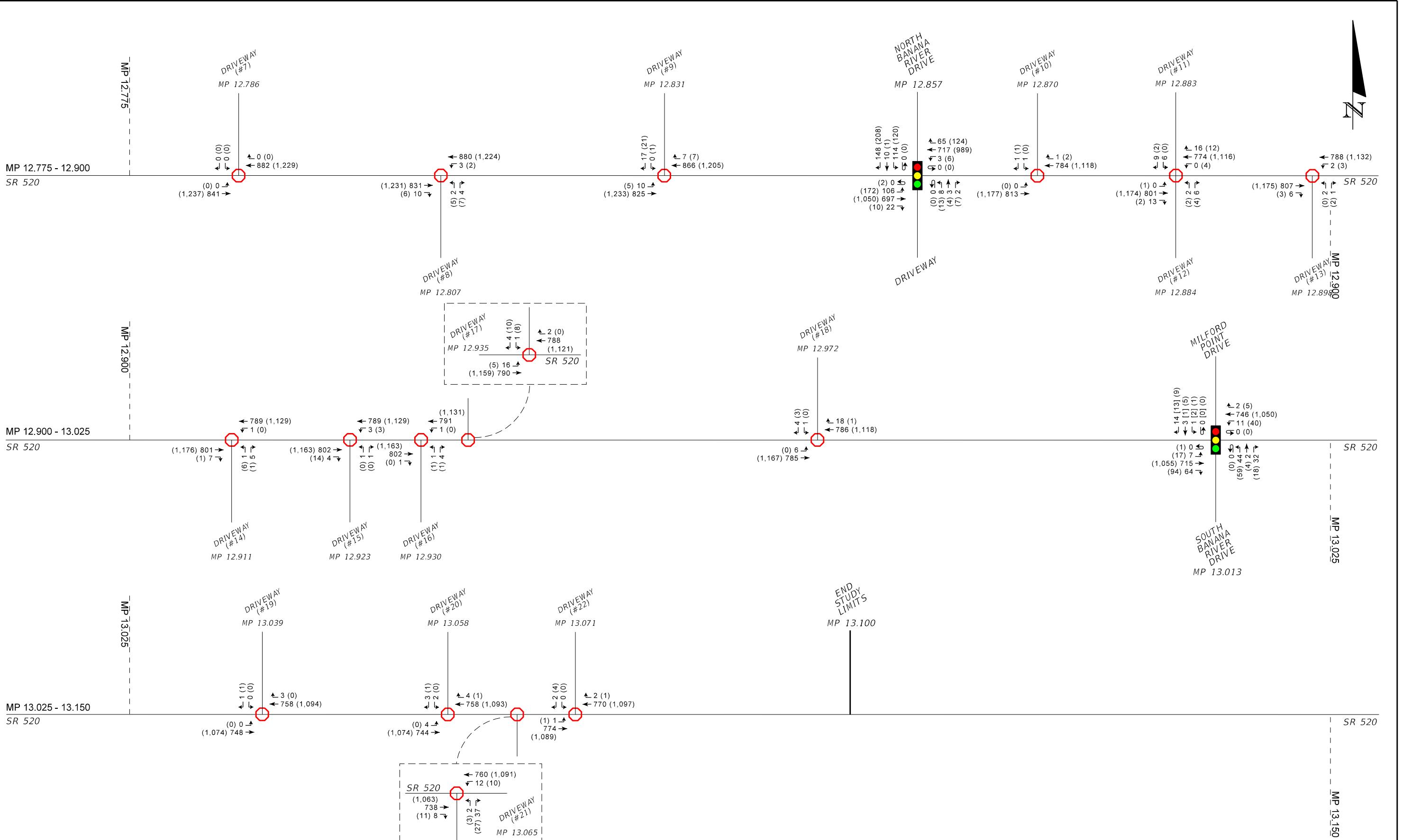
9.00%

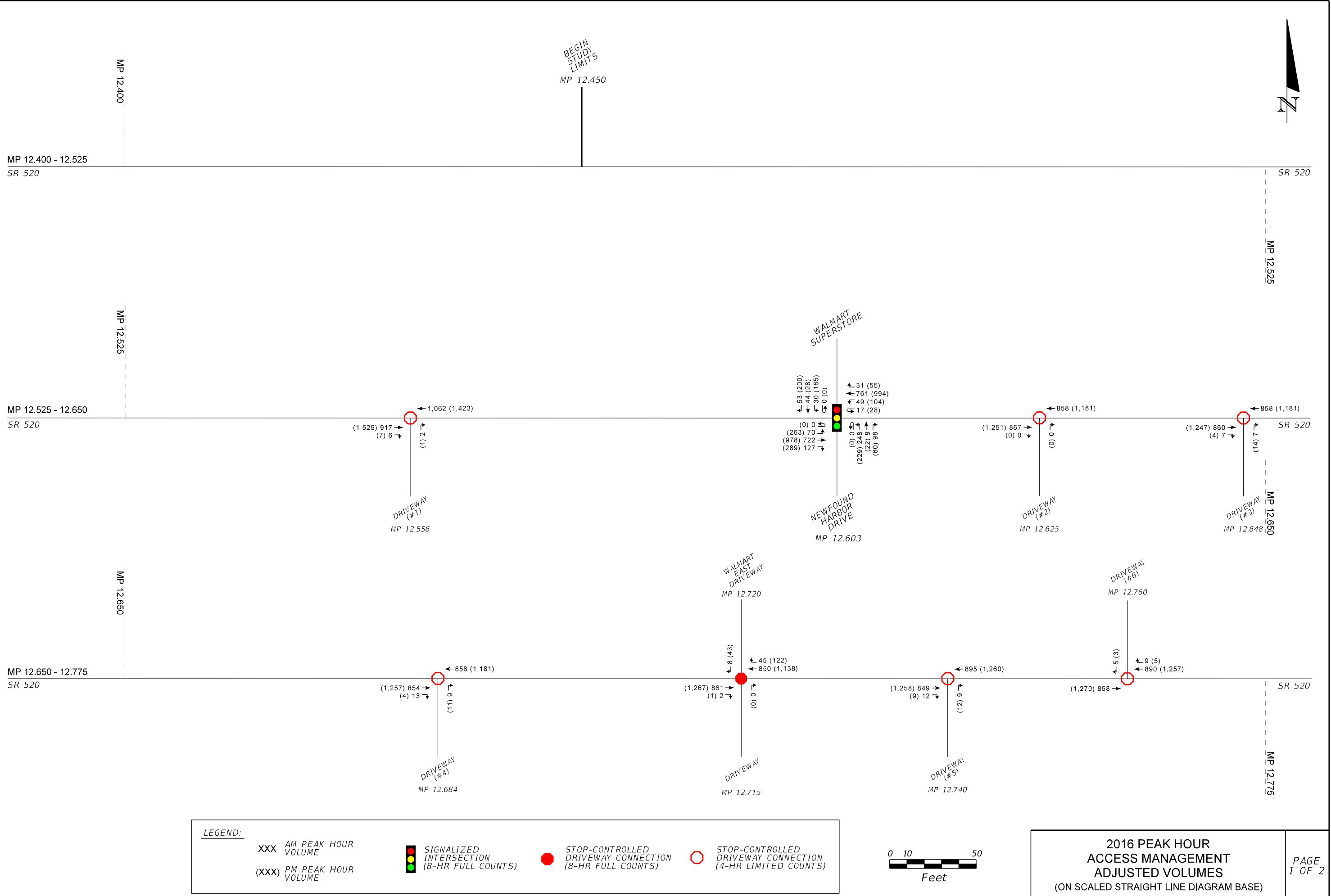
48.90%

51.10%

\*FDOT Standard K







LEGEND:

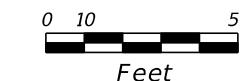
**XXX AM PEAK HOUR  
VOLUME**

**(XXX) PM PEAK HOUR  
VOLUME**



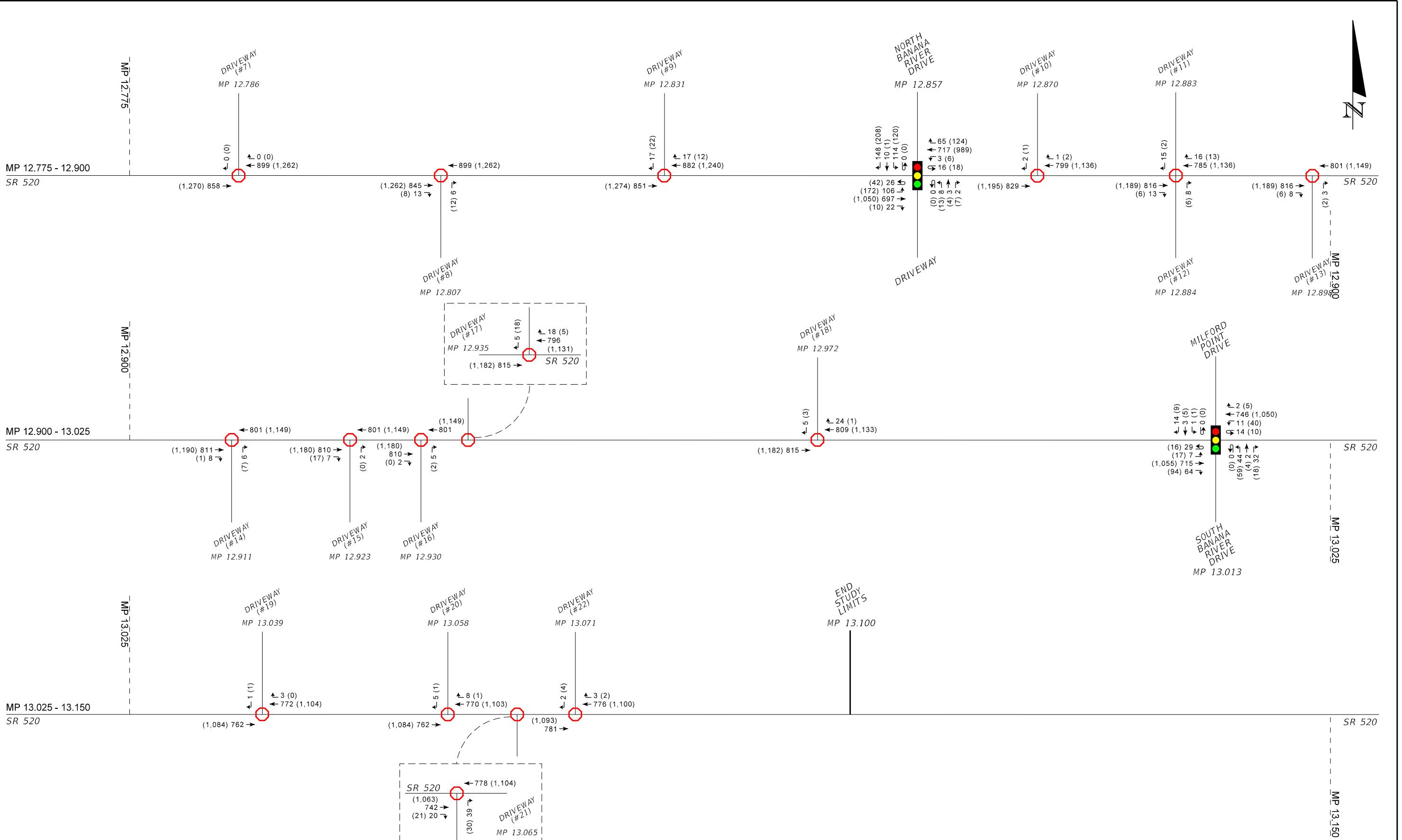
 STOP-CONTROLLED  
DRIVEWAY CONNECTION  
(8-HR FULL COUNTS)

 STOP-CONTROLLED  
DRIVEWAY CONNECTION  
(4-HR LIMITED COUNT)



**2016 PEAK HOUR  
ACCESS MANAGEMENT  
ADJUSTED VOLUMES  
(ON SCALED STRAIGHT LINE DIAGRAM BA**

PAGE  
1 OF 2



0 10 50  
Feet

2016 PEAK HOUR  
ACCESS MANAGEMENT  
ADJUSTED VOLUMES  
(ON SCALED STRAIGHT LINE DIAGRAM BASE)

PAGE  
2 OF 2

# **Appendix I:**

## **Collision Summary and Diagram**

State of Florida Department of Transportation  
**COLLISION SUMMARY**

**General Information**

| Section/Roadway ID: | <b>70100000</b>        |            |             | State Road:     |               |                        | <b>SR 520</b>           |                    |                   |                             |
|---------------------|------------------------|------------|-------------|-----------------|---------------|------------------------|-------------------------|--------------------|-------------------|-----------------------------|
| Intersecting Route: | <b>n/a</b>             |            |             | Study Period:   |               |                        | <b>1/1/2010</b>         | To:                | <b>12/31/2014</b> |                             |
| Milepost:           | <b>12.450 - 13.100</b> |            |             | Data by:        |               |                        | <b>ELH</b>              |                    |                   |                             |
| County:             | <b>Brevard</b>         |            |             | Date:           |               |                        | <b>January 28, 2016</b> |                    |                   |                             |
| <b>No.</b>          | <b>Date</b>            | <b>Day</b> | <b>Time</b> | <b>Severity</b> |               | <b>Property Damage</b> | <b>Crash Type</b>       | <b>Day / Night</b> | <b>Wet / Dry</b>  | <b>Contributing Cause</b>   |
|                     |                        |            |             | <b>Fatal</b>    | <b>Injury</b> |                        |                         |                    |                   |                             |
| 1                   | 01/08/10               | Friday     | 15:29       | 0               | 1             | \$20,000               | Left Turn               | Day                | Dry               | Failed to Yield ROW         |
| 2                   | 01/08/10               | Friday     | 15:47       | 0               | 1             | \$7,000                | Right Turn              | Day                | Dry               | Failed to Yield ROW         |
| 3                   | 02/22/10               | Monday     | 20:30       | 0               | 0             | \$5,500                | Rear End                | Night              | Wet               | Careless Driving            |
| 4                   | 02/26/10               | Friday     | 14:06       | 0               | 0             | \$300                  | Rear End                | Day                | Dry               | Careless Driving            |
| 5                   | 03/20/10               | Saturday   | 16:59       | 0               | 0             | \$500                  | Rear End                | Day                | Dry               | Careless Driving            |
| 6                   | 04/05/10               | Monday     | 22:00       | 0               | 1             | \$6,500                | Sideswipe               | Night              | Dry               | Improper Lane Change        |
| 7                   | 04/17/10               | Saturday   | 17:02       | 0               | 0             | \$8,000                | Rear End                | Day                | Dry               | Careless Driving            |
| 8                   | 05/02/10               | Sunday     | 12:41       | 0               | 0             | \$10,000               | Rear End                | Day                | Dry               | Exceeded Speed              |
| 9                   | 06/29/10               | Tuesday    | 12:21       | 0               | 0             | \$7,600                | Rear End                | Day                | Dry               | Followed Too Closely        |
| 10                  | 07/27/10               | Tuesday    | 15:55       | 0               | 3             | \$1,350                | Rear End                | Day                | Dry               | Careless Driving            |
| 11                  | 07/30/10               | Friday     | 21:48       | 0               | 1             | \$50                   | Rear End                | Night              | Dry               | Driver Distraction          |
| 12                  | 08/23/10               | Monday     | 7:26        | 0               | 1             | \$9,000                | Rear End                | Day                | Dry               | Careless Driving            |
| 13                  | 09/08/10               | Wednesday  | 8:35        | 0               | 2             | \$14,000               | Angle                   | Day                | Dry               | Disregarded Control Devices |
| 14                  | 09/08/10               | Wednesday  | 9:09        | 0               | 0             | \$1,000                | Sideswipe               | Day                | Dry               | Other                       |
| 15                  | 09/20/10               | Monday     | 15:38       | 0               | 0             | \$1,000                | Rear End                | Day                | Dry               | Careless Driving            |
| 16                  | 10/10/10               | Sunday     | 18:06       | 0               | 1             | \$6,000                | Rear End                | Day                | Dry               | Careless Driving            |
| 17                  | 10/23/10               | Saturday   | 7:07        | 0               | 0             | \$1,001                | Rear End                | Day                | Dry               | Careless Driving            |
| 18                  | 11/20/10               | Saturday   | 14:31       | 0               | 0             | \$2,000                | Rear End                | Day                | Dry               | Careless Driving            |
| 19                  | 12/19/10               | Sunday     | 18:48       | 1               | 0             | \$2,000                | Pedestrian              | Night              | Dry               | Pedestrian                  |
| 20                  | 12/23/10               | Thursday   | 14:30       | 0               | 2             | \$10,000               | Rear End                | Day                | Dry               | Careless Driving            |
| 21                  | 02/02/11               | Wednesday  | 12:15       | 0               | 0             | \$3,000                | Rear End                | Day                | Dry               | Careless Driving            |
| 22                  | 03/25/11               | Friday     | 14:45       | 0               | 1             | \$7,000                | Head-on                 | Day                | Dry               | Improper Turn               |
| 23                  | 04/06/11               | Wednesday  | 9:13        | 0               | 2             | \$10,000               | Left Turn               | Day                | Dry               | Disregarded Control Devices |
| 24                  | 05/10/11               | Tuesday    | 8:20        | 0               | 0             | \$1,000                | Sideswipe               | Day                | Dry               | Improper Lane Change        |
| 25                  | 06/10/11               | Friday     | 12:00       | 0               | 0             | \$10,000               | Left Turn               | Day                | Dry               | Improper Turn               |
| 26                  | 06/18/11               | Saturday   | 14:04       | 0               | 5             | \$1,750                | Rear End                | Day                | Dry               | Careless Driving            |
| 27                  | 07/02/11               | Saturday   | 16:15       | 0               | 0             | \$8,500                | Angle                   | Day                | Dry               | DUI                         |
| 28                  | 07/07/11               | Thursday   | 11:39       | 0               | 1             | \$10,000               | Left Turn               | Day                | Wet               | Disregarded Control Devices |
| 29                  | 07/08/11               | Friday     | 18:45       | 0               | 0             | \$0                    | Rear End                | Day                | Dry               | Careless Driving            |
| 30                  | 07/10/11               | Sunday     | 15:05       | 0               | 0             | \$1,500                | Rear End                | Day                | Dry               | Careless Driving            |
| 31                  | 07/18/11               | Monday     | 12:05       | 0               | 0             | \$6,000                | Rear End                | Day                | Dry               | Failure to Maintain Lane    |
| 32                  | 09/01/11               | Thursday   | 12:35       | 0               | 1             | \$1,000                | Rear End                | Day                | Dry               | Hit & Run                   |
| 33                  | 09/16/11               | Friday     | 22:28       | 0               | 0             | \$10,000               | Rear End                | Night              | Dry               | Hit & Run                   |
| 34                  | 10/21/11               | Friday     | 19:42       | 0               | 2             | \$1,200                | Rear End                | Night              | Dry               | Careless Driving            |
| 35                  | 10/29/11               | Saturday   | 11:24       | 0               | 0             | \$10,000               | Rear End                | Day                | Wet               | Careless Driving            |
| 36                  | 10/30/11               | Sunday     | 19:58       | 0               | 2             | \$2,100                | Left Turn               | Night              | Dry               | Disregarded Control Devices |
| 37                  | 11/01/11               | Tuesday    | 7:25        | 0               | 1             | \$1,250                | Left Turn               | Night              | Dry               | Failed to Yield ROW         |
| 38                  | 11/20/11               | Sunday     | 12:25       | 0               | 2             | \$2,000                | Rear End                | Day                | Dry               | Careless Driving            |
| 39                  | 01/03/12               | Tuesday    | 21:12       | 0               | 2             | \$17,000               | Head-on                 | Night              | Dry               | Improper Lane Change        |
| 40                  | 01/21/12               | Saturday   | 19:40       | 0               | 1             | \$2,000                | Rear End                | Night              | Dry               | DUI                         |
| 41                  | 02/17/12               | Friday     | 10:57       | 0               | 0             | \$2,500                | Rear End                | Day                | Dry               | Careless Driving            |
| 42                  | 02/22/12               | Wednesday  | 12:30       | 0               | 1             | \$4,000                | Rear End                | Day                | Dry               | Careless Driving            |
| 43                  | 02/29/12               | Wednesday  | 16:26       | 0               | 1             | \$510                  | Bicycle                 | Day                | Dry               | Bicycle                     |
| 44                  | 03/11/12               | Sunday     | 19:40       | 0               | 0             | \$2,000                | Right Turn              | Night              | Wet               | Failed to Yield ROW         |

State of Florida Department of Transportation  
**COLLISION SUMMARY**

**General Information**

| Section/Roadway ID: | <b>70100000</b>        |            |             | State Road:     |               |                        | <b>SR 520</b>           |                    |                   |                             |
|---------------------|------------------------|------------|-------------|-----------------|---------------|------------------------|-------------------------|--------------------|-------------------|-----------------------------|
| Intersecting Route: | <b>n/a</b>             |            |             | Study Period:   |               |                        | <b>1/1/2010</b>         | To:                | <b>12/31/2014</b> |                             |
| Milepost:           | <b>12.450 - 13.100</b> |            |             | Data by:        |               |                        | <b>ELH</b>              |                    |                   |                             |
| County:             | <b>Brevard</b>         |            |             | Date:           |               |                        | <b>January 28, 2016</b> |                    |                   |                             |
| <b>No.</b>          | <b>Date</b>            | <b>Day</b> | <b>Time</b> | <b>Severity</b> |               | <b>Property Damage</b> | <b>Crash Type</b>       | <b>Day / Night</b> | <b>Wet / Dry</b>  | <b>Contributing Cause</b>   |
|                     |                        |            |             | <b>Fatal</b>    | <b>Injury</b> |                        |                         |                    |                   |                             |
| 45                  | 03/23/12               | Friday     | 11:00       | 0               | 0             | \$3,000                | Rear End                | Day                | Dry               | Driver Distraction          |
| 46                  | 03/26/12               | Monday     | 13:49       | 0               | 0             | \$1                    | Sideswipe               | Day                | Dry               | Hit & Run                   |
| 47                  | 04/11/12               | Wednesday  | 12:35       | 0               | 0             | \$1,000                | Rear End                | Day                | Dry               | Careless Driving            |
| 48                  | 04/18/12               | Wednesday  | 16:15       | 0               | 0             | \$2,300                | Left Turn               | Day                | Dry               | Failed to Yield ROW         |
| 49                  | 04/19/12               | Thursday   | 0:18        | 0               | 1             | \$500                  | Pedestrian              | Night              | Dry               | Hit & Run                   |
| 50                  | 05/18/12               | Friday     | 10:55       | 0               | 0             | \$1,100                | Rear End                | Day                | Dry               | Careless Driving            |
| 51                  | 05/26/12               | Saturday   | 21:12       | 1               | 0             | \$1,000                | Pedestrian              | Night              | Dry               | Pedestrian                  |
| 52                  | 05/27/12               | Sunday     | 16:32       | 1               | 2             | \$20,000               | Left Turn               | Day                | Dry               | Disregarded Control Devices |
| 53                  | 06/17/12               | Sunday     | 19:41       | 0               | 1             | \$6,000                | Rear End                | Day                | Dry               | Careless Driving            |
| 54                  | 06/24/12               | Sunday     | 20:05       | 0               | 2             | \$19,000               | Left Turn               | Night              | Wet               | Improper Turn               |
| 55                  | 07/09/12               | Monday     | 12:55       | 0               | 1             | \$1,500                | Left Turn               | Day                | Dry               | Failed to Yield ROW         |
| 56                  | 08/01/12               | Wednesday  | 20:25       | 0               | 2             | \$11,000               | Left Turn               | Night              | Dry               | Disregarded Control Devices |
| 57                  | 08/14/12               | Tuesday    | 16:52       | 0               | 0             | \$1,100                | Sideswipe               | Day                | Dry               | Improper Lane Change        |
| 58                  | 09/25/12               | Tuesday    | 19:35       | 0               | 0             | \$6,000                | Left Turn               | Night              | Dry               | Failed to Yield ROW         |
| 59                  | 10/05/12               | Friday     | 21:11       | 0               | 0             | \$2,000                | Sideswipe               | Night              | Wet               | Failed to Yield ROW         |
| 60                  | 10/06/12               | Saturday   | 16:40       | 0               | 0             | \$750                  | Sideswipe               | Day                | Wet               | Improper Lane Change        |
| 61                  | 10/18/12               | Thursday   | 6:30        | 0               | 2             | \$3,500                | Rear End                | Night              | Dry               | Careless Driving            |
| 62                  | 10/28/12               | Sunday     | 10:00       | 0               | 1             | \$10,000               | Angle                   | Day                | Dry               | Improper Turn               |
| 63                  | 11/09/12               | Friday     | 18:28       | 0               | 1             | \$500                  | Bicycle                 | Night              | Dry               | Failed to Yield ROW         |
| 64                  | 11/14/12               | Wednesday  | 12:50       | 0               | 5             | \$10,750               | Rear End                | Day                | Dry               | Careless Driving            |
| 65                  | 12/05/12               | Wednesday  | 18:30       | 0               | 1             | \$13,000               | Rear End                | Night              | Dry               | Careless Driving            |
| 66                  | 12/14/12               | Friday     | 19:30       | 1               | 0             | \$600                  | Bicycle                 | Night              | Dry               | Bicycle                     |
| 67                  | 12/25/12               | Tuesday    | 18:54       | 0               | 0             | \$700                  | Backed Into             | Night              | Dry               | Hit & Run                   |
| 68                  | 12/28/12               | Friday     | 18:45       | 0               | 0             | \$1,000                | Left Turn               | Night              | Wet               | Failed to Yield ROW         |
| 69                  | 01/07/13               | Monday     | 21:15       | 0               | 0             | \$10,000               | Rear End                | Night              | Dry               | Careless Driving            |
| 70                  | 01/12/13               | Saturday   | 13:13       | 0               | 1             | \$1,500                | Rear End                | Day                | Dry               | Careless Driving            |
| 71                  | 01/22/13               | Tuesday    | 14:00       | 0               | 0             | \$5,000                | Sideswipe               | Day                | Dry               | Improper Lane Change        |
| 72                  | 01/24/13               | Thursday   | 20:12       | 0               | 0             | \$1,000                | Left Turn               | Night              | Dry               | Failed to Yield ROW         |
| 73                  | 02/03/13               | Sunday     | 14:00       | 0               | 1             | \$0                    | Pedestrian              | Day                | Dry               | Hit & Run                   |
| 74                  | 02/09/13               | Saturday   | 19:00       | 0               | 1             | \$5,000                | Pedestrian              | Night              | Dry               | Pedestrian                  |
| 75                  | 02/19/13               | Tuesday    | 18:59       | 0               | 0             | \$1,000                | Sideswipe               | Night              | Dry               | Hit & Run                   |
| 76                  | 02/25/13               | Monday     | 8:50        | 0               | 0             | \$2,000                | Sideswipe               | Day                | Dry               | Improper Lane Change        |
| 77                  | 02/26/13               | Tuesday    | 15:40       | 0               | 0             | \$6,200                | Rear End                | Day                | Wet               | Careless Driving            |
| 78                  | 03/01/13               | Friday     | 18:15       | 0               | 1             | \$1,000                | Rear End                | Night              | Dry               | Medical Condition           |
| 79                  | 03/14/13               | Thursday   | 12:30       | 0               | 0             | \$2,500                | Left Turn               | Day                | Dry               | Failed to Yield ROW         |
| 80                  | 04/10/13               | Wednesday  | 17:55       | 0               | 0             | \$400                  | Other                   | Day                | Dry               | Falling Cargo               |
| 81                  | 04/18/13               | Thursday   | 16:30       | 0               | 0             | \$1,000                | Rear End                | Day                | Dry               | Careless Driving            |
| 82                  | 04/29/13               | Monday     | 13:25       | 0               | 1             | \$1,100                | Bicycle                 | Day                | Dry               | Bicycle                     |
| 83                  | 04/30/13               | Tuesday    | 17:20       | 0               | 0             | \$1,800                | Rear End                | Day                | Dry               | Followed Too Closely        |
| 84                  | 05/18/13               | Saturday   | 16:04       | 0               | 0             | \$5,500                | Rear End                | Day                | Dry               | Followed Too Closely        |
| 85                  | 06/02/13               | Sunday     | 7:35        | 0               | 0             | \$700                  | Rear End                | Day                | Dry               | Careless Driving            |
| 86                  | 06/03/13               | Monday     | 16:00       | 0               | 1             | \$8,000                | Left Turn               | Day                | Wet               | Disregarded Control Devices |
| 87                  | 06/08/13               | Saturday   | 12:30       | 0               | 0             | \$2,000                | Rear End                | Day                | Dry               | Followed Too Closely        |
| 88                  | 06/21/13               | Friday     | 14:38       | 0               | 0             | \$1,000                | Backed Into             | Day                | Dry               | Improper Backing            |

State of Florida Department of Transportation  
**COLLISION SUMMARY**

**General Information**

| Section/Roadway ID: | <b>70100000</b>        |            |             | State Road:     |               |                        | <b>SR 520</b>           |                    |                   |                             |
|---------------------|------------------------|------------|-------------|-----------------|---------------|------------------------|-------------------------|--------------------|-------------------|-----------------------------|
| Intersecting Route: | <b>n/a</b>             |            |             | Study Period:   |               |                        | <b>1/1/2010</b>         | To:                | <b>12/31/2014</b> |                             |
| Milepost:           | <b>12.450 - 13.100</b> |            |             | Data by:        |               |                        | <b>ELH</b>              |                    |                   |                             |
| County:             | <b>Brevard</b>         |            |             | Date:           |               |                        | <b>January 28, 2016</b> |                    |                   |                             |
| <b>No.</b>          | <b>Date</b>            | <b>Day</b> | <b>Time</b> | <b>Severity</b> |               | <b>Property Damage</b> | <b>Crash Type</b>       | <b>Day / Night</b> | <b>Wet / Dry</b>  | <b>Contributing Cause</b>   |
|                     |                        |            |             | <b>Fatal</b>    | <b>Injury</b> |                        |                         |                    |                   |                             |
| 89                  | 07/01/13               | Monday     | 14:30       | 0               | 0             | \$750                  | Rear End                | Day                | Dry               | Careless Driving            |
| 90                  | 07/02/13               | Tuesday    | 16:30       | 0               | 0             | \$7,000                | Rear End                | Day                | Wet               | Careless Driving            |
| 91                  | 07/03/13               | Wednesday  | 11:41       | 0               | 0             | \$5,000                | Rear End                | Day                | Dry               | Exceeded Speed              |
| 92                  | 08/15/13               | Thursday   | 9:30        | 0               | 0             | \$1,250                | Rear End                | Day                | Dry               | Careless Driving            |
| 93                  | 09/02/13               | Monday     | 15:15       | 0               | 1             | \$500                  | Other                   | Day                | Dry               | Falling Cargo               |
| 94                  | 09/18/13               | Wednesday  | 19:40       | 0               | 0             | \$2,400                | Left Turn               | Night              | Dry               | Failed to Yield ROW         |
| 95                  | 10/06/13               | Sunday     | 1:15        | 0               | 0             | \$5,000                | Off Road                | Night              | Dry               | DUI                         |
| 96                  | 10/08/13               | Tuesday    | 18:06       | 0               | 0             | \$2,100                | Rear End                | Day                | Dry               | Careless Driving            |
| 97                  | 11/07/13               | Thursday   | 10:25       | 0               | 0             | \$4,000                | Rear End                | Day                | Dry               | Careless Driving            |
| 98                  | 11/12/13               | Tuesday    | 10:20       | 0               | 0             | \$1,000                | Rear End                | Day                | Dry               | Careless Driving            |
| 99                  | 12/06/13               | Friday     | 20:00       | 0               | 0             | \$5,000                | Left Turn               | Night              | Dry               | Failed to Yield ROW         |
| 100                 | 12/13/13               | Friday     | 14:45       | 0               | 1             | \$8,000                | Other                   | Day                | Dry               | Failed to Yield ROW         |
| 101                 | 01/16/14               | Thursday   | 15:05       | 0               | 1             | \$1,500                | Other                   | Day                | Dry               | Improper Turn               |
| 102                 | 01/19/14               | Sunday     | 20:35       | 0               | 0             | \$3,200                | Left Turn               | Night              | Dry               | Hit & Run                   |
| 103                 | 01/23/14               | Thursday   | 10:40       | 0               | 0             | \$5,000                | Sideswipe               | Day                | Dry               | Improper Lane Change        |
| 104                 | 01/27/14               | Monday     | 14:10       | 0               | 0             | \$3,000                | Rear End                | Day                | Dry               | Careless Driving            |
| 105                 | 03/18/14               | Tuesday    | 0:00        | 0               | 0             | \$1,500                | Sideswipe               | Night              | Dry               | Hit & Run                   |
| 106                 | 03/28/14               | Friday     | 15:56       | 0               | 0             | \$75                   | Rear End                | Day                | Dry               | Careless Driving            |
| 107                 | 03/30/14               | Sunday     | 13:30       | 0               | 1             | \$2,500                | Sideswipe               | Day                | Dry               | Failure to Maintain Lane    |
| 108                 | 04/26/14               | Saturday   | 13:40       | 0               | 1             | \$750                  | Rear End                | Day                | Dry               | Careless Driving            |
| 109                 | 05/12/14               | Monday     | 22:00       | 0               | 0             | \$500                  | Rear End                | Night              | Dry               | DUI                         |
| 110                 | 05/26/14               | Monday     | 21:16       | 0               | 1             | \$13,000               | Left Turn               | Night              | Dry               | Failed to Yield ROW         |
| 111                 | 06/14/14               | Saturday   | 17:55       | 0               | 0             | \$7,000                | Angle                   | Day                | Wet               | Failed to Yield ROW         |
| 112                 | 06/22/14               | Sunday     | 12:40       | 0               | 3             | \$12,000               | Rear End                | Day                | Dry               | Careless Driving            |
| 113                 | 07/11/14               | Friday     | 13:24       | 0               | 0             | \$4,000                | Left Turn               | Day                | Dry               | Failed to Yield ROW         |
| 114                 | 07/19/14               | Saturday   | 12:23       | 0               | 1             | \$6,000                | Rear End                | Day                | Dry               | Careless Driving            |
| 115                 | 07/29/14               | Tuesday    | 9:00        | 0               | 0             | \$500                  | Rear End                | Day                | Dry               | Followed Too Closely        |
| 116                 | 08/04/14               | Monday     | 9:55        | 0               | 0             | \$1,000                | Rear End                | Day                | Dry               | Careless Driving            |
| 117                 | 08/28/14               | Thursday   | 15:00       | 0               | 0             | \$4,700                | Sideswipe               | Day                | Dry               | Improper Lane Change        |
| 118                 | 09/06/14               | Saturday   | 19:21       | 0               | 1             | \$2,050                | Rear End                | Night              | Wet               | Followed Too Closely        |
| 119                 | 09/11/14               | Thursday   | 17:30       | 0               | 0             | \$900                  | Right Turn              | Day                | Dry               | Failed to Yield ROW         |
| 120                 | 09/15/14               | Monday     | 12:01       | 0               | 1             | \$7,500                | Rear End                | Day                | Dry               | Careless Driving            |
| 121                 | 10/05/14               | Sunday     | 7:55        | 0               | 1             | \$5,500                | Rear End                | Day                | Dry               | Careless Driving            |
| 122                 | 10/20/14               | Monday     | 9:45        | 0               | 1             | \$6,000                | Left Turn               | Day                | Dry               | Careless Driving            |
| 123                 | 11/18/14               | Tuesday    | 11:00       | 0               | 0             | \$2,100                | Rear End                | Day                | Wet               | Hit & Run                   |
| 124                 | 11/22/14               | Saturday   | 0:30        | 0               | 2             | \$4,000                | Off Road                | Night              | Wet               | DUI                         |
| 125                 | 11/26/14               | Wednesday  | 15:15       | 0               | 0             | \$2,800                | Rear End                | Day                | Dry               | Careless Driving            |
| 126                 | 11/27/14               | Thursday   | 16:10       | 0               | 0             | \$6,500                | Rear End                | Day                | Dry               | Careless Driving            |
| 127                 | 11/28/14               | Friday     | 12:15       | 0               | 0             | \$2,000                | Rear End                | Day                | Dry               | Followed Too Closely        |
| 128                 | 12/01/14               | Monday     | 12:50       | 0               | 1             | \$10                   | Pedestrian              | Day                | Dry               | Pedestrian                  |
| 129                 | 12/03/14               | Wednesday  | 15:40       | 0               | 1             | \$10,000               | Left Turn               | Day                | Dry               | Failed to Yield ROW         |
| 130                 | 12/07/14               | Sunday     | 13:30       | 0               | 0             | \$100                  | Rear End                | Day                | Dry               | Hit & Run                   |
| 131                 | 12/11/14               | Thursday   | 14:12       | 0               | 1             | \$2,500                | Left Turn               | Day                | Dry               | Disregarded Control Devices |
| 132                 | 12/12/14               | Friday     | 18:45       | 0               | 2             | \$10,000               | Left Turn               | Night              | Dry               | Failed to Yield ROW         |

State of Florida Department of Transportation

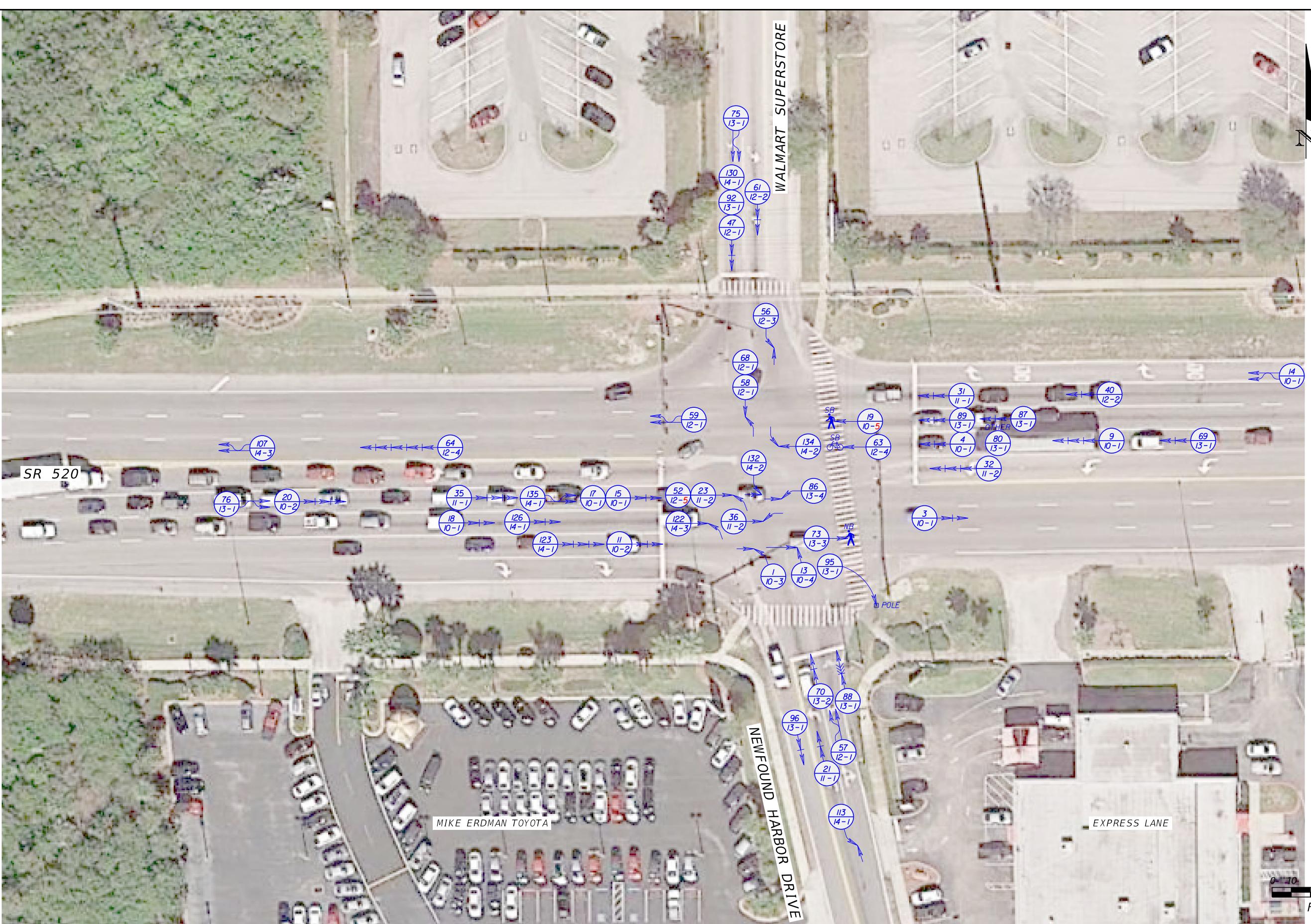
**COLLISION SUMMARY****General Information**

| Section/Roadway ID:              | 70100000        |         |                    |          |           | State Road:      | SR 520              |                  |                      |                      |                             |
|----------------------------------|-----------------|---------|--------------------|----------|-----------|------------------|---------------------|------------------|----------------------|----------------------|-----------------------------|
| Intersecting Route:              | n/a             |         |                    |          |           | Study Period:    | 1/1/2010            | To:              | 12/31/2014           |                      |                             |
| Milepost:                        | 12.450 - 13.100 |         |                    |          |           | Data by:         | ELH                 |                  |                      |                      |                             |
| County:                          | Brevard         |         |                    |          |           | Date:            | January 28, 2016    |                  |                      |                      |                             |
| No.                              | Date            | Day     | Time               | Severity |           | Property Damage  | Crash Type          | Day / Night      | Wet / Dry            | Contributing Cause   |                             |
|                                  |                 |         |                    | Fatal    | Injury    |                  |                     |                  |                      |                      |                             |
| 133                              | 12/22/14        | Monday  | 18:14              | 0        | 1         | \$1,000          | Other               | Night            | Dry                  | DUI                  |                             |
| 134                              | 12/22/14        | Monday  | 18:20              | 0        | 3         | \$23,000         | Left Turn           | Night            | Dry                  | DUI                  |                             |
| 135                              | 12/23/14        | Tuesday | 15:15              | 0        | 0         | \$2,300          | Sideswipe           | Day              | Dry                  | Improper Lane Change |                             |
| <b>TOTAL</b>                     |                 |         |                    | <b>4</b> | <b>85</b> | <b>\$596,597</b> |                     |                  |                      |                      |                             |
| Total No.                        | Fatal           | Injury  | PDO                | Rear End | Head-on   | Angle            | Left Turn           | Right Turn       | Sideswipe            | Backed Into          | Bicycle / Pedestrian        |
| 135                              | 4               | 57      | 74                 | 66       | 2         | 4                | 26                  | 3                | 15                   | 2                    | 10                          |
| PERCENT                          | 3%              | 42%     | 55%                | 49%      | 1%        | 3%               | 19%                 | 2%               | 11%                  | 1%                   | 7%                          |
| Contrib. Cause                   | Day             | Night   | PAVEMENT CONDITION |          |           | Exceeded Speed   | DUI                 | Careless Driving | Improper Lane Change | Failed to Yield ROW  | Disregarded Control Devices |
|                                  |                 |         | Wet                | Dry      | Unknown   |                  |                     |                  |                      |                      |                             |
| TOTAL                            | 95              | 40      | 15                 | 120      | 0         | 2                | 7                   | 48               | 10                   | 21                   | 8                           |
| PERCENT                          | 70%             | 30%     | 11%                | 89%      | 0%        | 1%               | 5%                  | 36%              | 7%                   | 16%                  | 6%                          |
| Total Vehicles Entering/ADT: n/a |                 |         |                    |          |           |                  | Collision Rate: n/a |                  |                      | PER M.E.V.           |                             |

Source: FDOT Crash Analysis Reporting System and University of Florida's Signal Four Analytics



| COLLISION SYMBOLS |                |  |                       |  |                            |                       |  | CRASH DIAGRAM |   | SHEET NO. |   |
|-------------------|----------------|--|-----------------------|--|----------------------------|-----------------------|--|---------------|---|-----------|---|
|                   | PEDESTRIAN     |  | RIGHT ANGLE COLLISION |  | RIGHT TURN COLLISION       | CRASH NUMBER<br>#<br> | INJURY SEVERITY:<br>1 = NO INJURY<br>2 = POSSIBLE INJURY<br>3 = NON-INCAPACITATING<br>4 = INCAPACITATING<br>5 = FATALITY | YEAR<br>#<br> | Comprehensive Engineering Services, Inc.<br>201 S Orange Ave, Suite 1300<br>Orlando, FL 32801-3442<br>Certificate of Authorization No. 7862 |           | 1 |
|                   | BICYCLE        |  | LEFT TURN COLLISION   |  | SIDE SWIPE COLLISION       |                       |  |               |   |           |   |
|                   | OUT OF CONTROL |  | REAR-END COLLISION    |  | LONG FORM CRASHES<br>#<br> |                       | LONG FORM CRASHES<br>MITIGATED BY<br>MEDIAN INSTALLATION<br>#<br>  |               |   |           |   |
|                   | FIXED OBJECT   |  | OVERTURNED VEHICLE    |  | HEAD-ON COLLISION          |                       |  |               |   |           |   |



| COLLISION SYMBOLS | PEDESTRIAN            | RIGHT ANGLE COLLISION     | RIGHT TURN COLLISION     | CRASH NUMBER | INJURY SEVERITY:       | Comprehensive Engineering Services, Inc. | SHEET NO. |
|-------------------|-----------------------|---------------------------|--------------------------|--------------|------------------------|--|-----------|
| ← VEHICLE PATH    | 🚶 PEDESTRIAN          | → ↗ RIGHT ANGLE COLLISION | → ↙ RIGHT TURN COLLISION | #            | 1 = NO INJURY          | 201 S Orange Ave, Suite 1300             |           |
| ↔ BACKING VEHICLE | 🚴 BICYCLE             | → ↘ LEFT TURN COLLISION   | → ↛ SIDE SWIPE COLLISION | 10-3         | 2 = POSSIBLE INJURY    | Orlando, FL 32801-3442                   |           |
| ↔~ OUT OF CONTROL | ↔~ OUT OF CONTROL     | ↔~ REAR-END COLLISION     | ↔~ HEAD-ON COLLISION     | #            | 3 = NON-INCAPACITATING | Certificate of Authorization No. 7862    |           |
| □ FIXED OBJECT    | ↔○ OVERTURNED VEHICLE | ↔○ OVERTURNED VEHICLE     | ↔○ OVERTURNED VEHICLE    | 10-3         | 4 = INCAPACITATING     |  |           |
|                   |                       |                           |                          |              | 5 = FATALITY           |  |           |
|                   |                       |                           |                          |              |                        | SUSERS                                   |           |
|                   |                       |                           |                          |              |                        | SDATES                                   |           |
|                   |                       |                           |                          |              |                        | STIMES                                   |           |
|                   |                       |                           |                          |              |                        | SFILES                                   |           |

CRASH DIAGRAM

SHEET NO.  
2

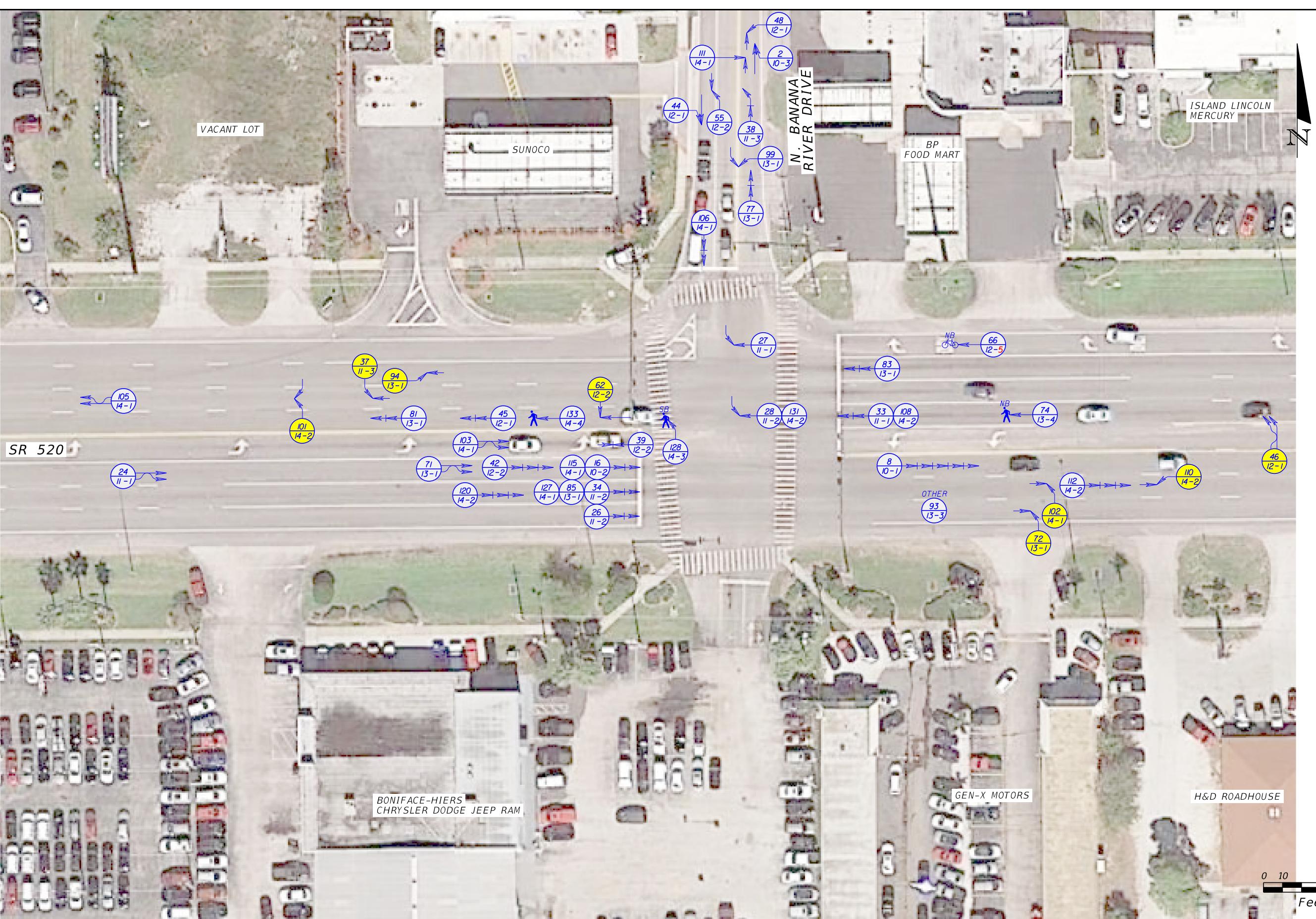


|   |  |  |  |   |  |  |
|---|--|--|--|---|--|--|
| <b>COLLISION SYMBOLS</b>  |  |  PEDESTRIAN           |  RIGHT ANGLE COLLISION             |  RIGHT TURN COLLISION  | <br>CRASH NUMBER<br><b>10-3</b> | INJURY SEVERITY:<br>1 = NO INJURY<br>2 = POSSIBLE INJURY<br>3 = NON-INCAPACITATING<br>4 = INCAPACITATING<br>5 = FATALITY |
|  VEHICLE PATH    |  BICYCLE            |  LEFT TURN COLLISION |  SIDE SWIPE COLLISION             |   |  |  |
|  BACKING VEHICLE |  OUT OF CONTROL     |  REAR-END COLLISION  |  LONG FORM CRASHES<br><b>10-3</b> |  LONG FORM CRASHES MITIGATED BY MEDIAN INSTALLATION<br><b>10-3</b> |  |  |
|  FIXED OBJECT    |  OVERTURNED VEHICLE |  HEAD-ON COLLISION   |  YEAR<br><b>10-3</b>              |   |  |  |

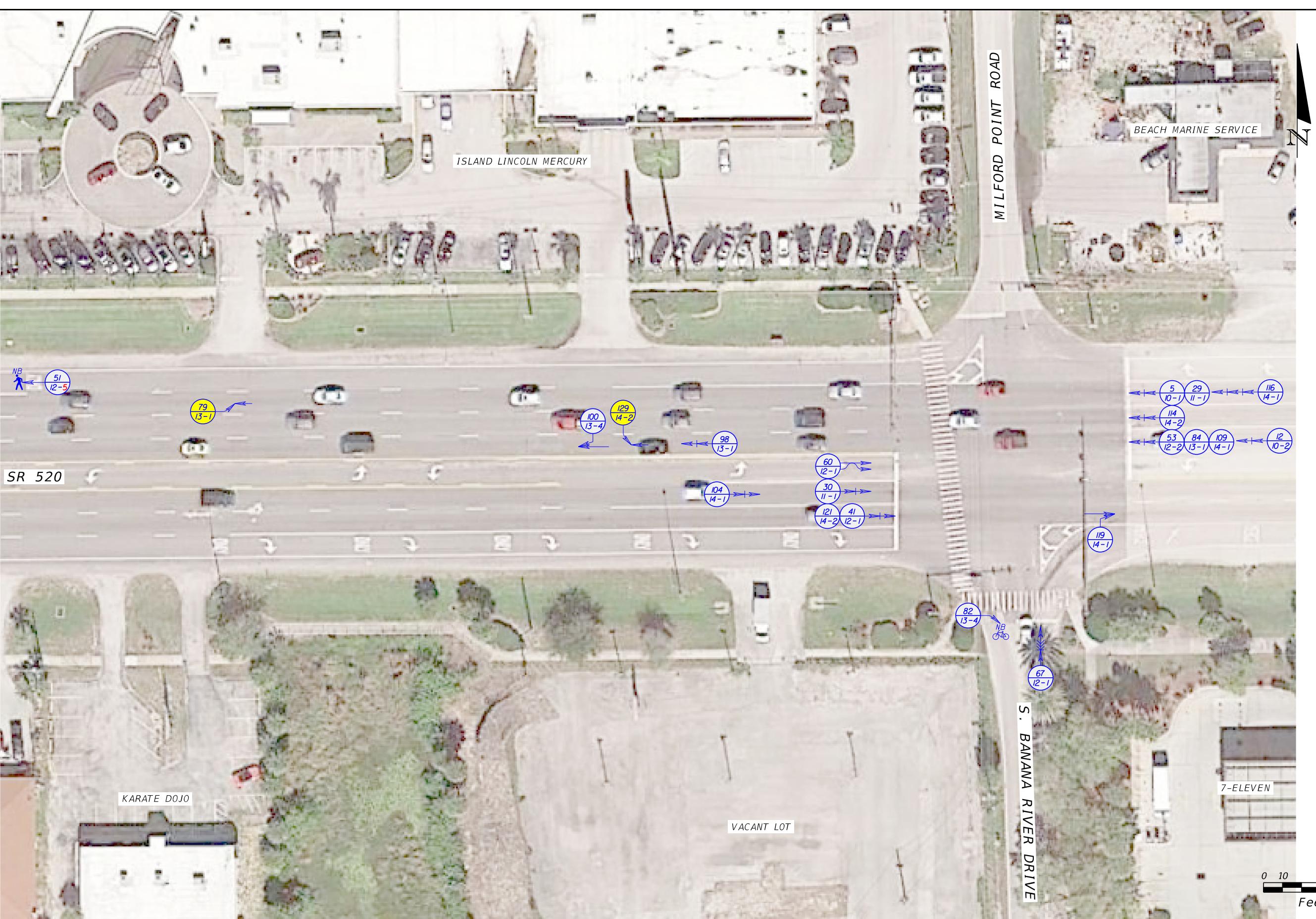
**CRASH DIAGRAM**

Comprehensive Engineering Services, Inc.  
 201 S Orange Ave, Suite 1300  
 Orlando, FL 32801-3442  
 Certificate of Authorization No. 7862

SHEET NO.  
3



| COLLISION SYMBOLS | PEDESTRIAN       | RIGHT ANGLE COLLISION   | RIGHT TURN COLLISION                                 | CRASH NUMBER | INJURY SEVERITY:       | Comprehensive Engineering Services, Inc. | SHEET NO. |
|-------------------|------------------|-------------------------|--|--------------|------------------------|--|-----------|
| ← VEHICLE PATH    | 🚶 PEDESTRIAN     | → RIGHT ANGLE COLLISION | ↔ RIGHT TURN COLLISION                               | #            | 1 = NO INJURY          | 201 S Orange Ave, Suite 1300             |           |
| → BACKING VEHICLE | 🚴 BICYCLE        | → LEFT TURN COLLISION   | ↔ SIDE SWIPE COLLISION                               | 10-3         | 2 = POSSIBLE INJURY    | Orlando, FL 32801-3442                   |           |
| ↔ FIXED OBJECT    | ↔ OUT OF CONTROL | ↔ REAR-END COLLISION    | ↔ HEAD-ON COLLISION                                  | #            | 3 = NON-INCAPACITATING | Certificate of Authorization No. 7862    |           |
|                   |                  | ↔ LONG FORM CRASHES     | ↔ LONG FORM CRASHES MITIGATED BY MEDIAN INSTALLATION | 10-3         | 4 = INCAPACITATING     |  |           |
|                   |                  |                         |  |              | 5 = FATALITY           |  |           |
|                   |                  |                         |  | YEAR         |                        |  |           |
|                   |                  |                         |  |              |                        | <b>CRASH DIAGRAM</b>                     |           |
|                   |                  |                         |  |              |                        |  | 4         |



| COLLISION SYMBOLS | PEDESTRIAN | RIGHT ANGLE COLLISION | RIGHT TURN COLLISION | SIDE SWIPE COLLISION | CRASH NUMBER | INJURY SEVERITY:       | Comprehensive Engineering Services, Inc. | SHEET NO. |
|-------------------|------------|-----------------------|----------------------|----------------------|--------------|------------------------|--|-----------|
| ← VEHICLE PATH    | 🚶          | ↗                     | ↖                    | ↙                    | #            | 1 = NO INJURY          | 201 S Orange Ave, Suite 1300             |           |
| ↔ BACKING VEHICLE | 🚴          | ↘                     | ↗                    | ↖                    | 10-3         | 2 = POSSIBLE INJURY    | Orlando, FL 32801-3442                   |           |
| ↔ OUT OF CONTROL  | ↔          | ↙                     | ↗                    | ↖                    | 10-3         | 3 = NON-INCAPACITATING | Certificate of Authorization No. 7862    |           |
| □ FIXED OBJECT    | ↔          | ↔                     | ↔                    | ↔                    | 10-3         | 4 = INCAPACITATING     |  |           |
|                   | ↔          | ↔                     | ↔                    | ↔                    | 10-3         | 5 = FATALITY           |  |           |
|                   |            |                       |                      |                      | YEAR         |                        |  |           |

CRASH DIAGRAM

5



| COLLISION SYMBOLS   | PEDESTRIAN             | RIGHT ANGLE COLLISION     | RIGHT TURN COLLISION                                   | SIDE SWIPE COLLISION     | CRASH NUMBER | INJURY SEVERITY:       | Comprehensive Engineering Services, Inc. | SHEET NO. |
|---------------------|------------------------|---------------------------|--|--------------------------|--------------|------------------------|--|-----------|
| ← VEHICLE PATH      | 🚶 PEDESTRIAN           | → ↘ RIGHT ANGLE COLLISION | → ↙ RIGHT TURN COLLISION                               | → ↖ SIDE SWIPE COLLISION | #            | 1 = NO INJURY          | 201 S Orange Ave, Suite 1300             |           |
| → ↗ BACKING VEHICLE | 🚴 BICYCLE              | → ↙ LEFT TURN COLLISION   | → ↖ REAR-END COLLISION                                 | → ↖ HEAD-ON COLLISION    | 10-3         | 2 = POSSIBLE INJURY    | Orlando, FL 32801-3442                   |           |
| ↔ FIXED OBJECT      | ↔ OUT OF CONTROL       | ↔ ↗ LONG FORM CRASHES     | ↔ ↖ LONG FORM CRASHES MITIGATED BY MEDIAN INSTALLATION |                          | 10-3         | 3 = NON-INCAPACITATING | Certificate of Authorization No. 7862    |           |
|                     | ↔ ↗ OVERTURNED VEHICLE |                           |  |                          |              | 4 = INCAPACITATING     |  |           |
|                     |                        |                           |  |                          |              | 5 = FATALITY           |  |           |
|                     |                        |                           |  |                          |              |                        | CRASH DIAGRAM                            | 6         |
|                     |                        |                           |  |                          |              |                        | \$USERS                                  | \$DATES   |
|                     |                        |                           |  |                          |              |                        | \$TIMES                                  | \$FILES   |

## **Appendix J:**

### **Existing Signal Timings**

Brevard County

## Timing Sheet

2/8/2016 10:17:15 AM

Station : 20 - SR 520 &amp; Newfound Harbor Dr ( Standard File )

| Phase              | 1<br>(WR) | 2<br>(WT) | 3<br>(SL) | 4<br>(NT) | 5<br>(WL) | 6<br>(ET) | 7<br>(NL) | 8<br>(ST) | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  |
|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----|-----|-----|-----|-----|-----|-----|-----|
| Walk               | 7         |           | 12        |           | 7         |           | 12        |           |     |     |     |     |     |     |     |     |
| Ped Clearance      | 16        |           | 42        |           | 17        |           | 37        |           |     |     |     |     |     |     |     |     |
| Min Green          | 5         | 12        | 5         | 7         | 5         | 12        | 5         | 7         | 3   |     | 3   |     | 3   |     |     | 3   |
| Gap Ext            | 5         | 3         | 3         | 3         | 3         | 3         | 3         | 3         |     |     |     |     |     |     |     |     |
| Max1               | 30        | 60        | 30        | 35        | 12        | 60        | 30        | 35        |     |     |     |     |     |     |     |     |
| Max2               | 25        | 50        | 15        | 42        | 25        | 50        | 15        | 40        |     |     |     |     |     |     |     |     |
| Yellow Clr         | 4.8       | 4.8       | 3.7       | 3.7       | 4.8       | 4.8       | 3.7       | 3.7       | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 |
| Red Clr            | 2.6       | 2.6       | 3.7       | 3.7       | 2.6       | 2.6       | 3.7       | 3.7       | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| Red Revert         |           |           |           |           |           |           |           |           |     |     |     |     |     |     |     |     |
| Added Initial      |           |           |           |           |           |           |           |           |     |     |     |     |     |     |     |     |
| Max Initial        |           |           |           |           |           |           |           |           |     |     |     |     |     |     |     |     |
| Time Before Reduce |           |           |           |           |           |           |           |           |     |     |     |     |     |     |     |     |
| Cars Before Reduce |           |           |           |           |           |           |           |           |     |     |     |     |     |     |     |     |
| Time To Reduce     |           |           |           |           |           |           |           |           |     |     |     |     |     |     |     |     |
| Reduce By          |           |           |           |           |           |           |           |           |     |     |     |     |     |     |     |     |
| Min Gap            |           |           |           |           |           |           |           |           |     |     |     |     |     |     |     |     |
| Dynamic Max Limit  |           |           |           |           |           |           |           |           |     |     |     |     |     |     |     |     |
| Dynamic Max Step   |           |           |           |           |           |           |           |           |     |     |     |     |     |     |     |     |
| Enable             | ON        |     |     |     |     | ON  | ON  | ON  | ON  |
| Auto Flash Entry   |           |           |           | ON        |           |           |           | ON        |     |     |     |     |     |     |     |     |
| Auto Flash Exit    |           | ON        |           |           |           | ON        |           |           |     |     |     |     |     |     |     |     |
| Non-Actuated 1     |           |           |           |           |           |           |           |           |     |     |     |     |     |     |     |     |
| Non-Actuated 2     |           |           |           |           |           |           |           |           |     |     |     |     |     |     |     |     |
| Lock Call          | ON        |           |           |           | ON        |           |           |           | ON  |
| Min Recall         | ON        |           |           |           | ON        |           |           |           |     |     |     |     |     |     |     |     |
| Max Recall         |           |           |           |           |           |           |           |           |     |     |     |     |     |     |     |     |
| Ped Recall         |           |           |           |           |           |           |           |           |     |     |     |     |     |     |     |     |
| Soft Recall        |           |           |           |           |           |           |           |           |     |     |     |     |     |     |     |     |
| Dual Entry         | ON        |           | ON        |           | ON        |           |           | ON        |     |     |     |     |     |     |     |     |
| Sim Gap Enable     |           | ON        |           | ON        |           | ON        |           | ON        | ON  | ON  | ON  | ON  | ON  | ON  | ON  | ON  |
| Guar Passage       | ON        |           |           |           |           |           |           |           |     |     |     |     |     |     |     |     |
| Rest In Walk       |           |           |           |           |           |           |           |           |     |     |     |     |     |     |     |     |
| Cond Service       |           |           |           |           |           |           |           |           |     |     |     |     |     |     |     |     |
| Add Init Calc      |           |           |           |           |           |           |           |           |     |     |     |     |     |     |     |     |
| Concurrent Ps      | 1         | 1         | 1         | 1         | 2         | 2         | 2         | 2         |     |     |     |     |     |     |     |     |

## Preemption

| Channel                 | 1  | 2  | 3  | 4  | 5  | 6  |
|-------------------------|----|----|----|----|----|----|
| Lock Input              | ON | ON | ON | ON | ON | ON |
| Override Auto Flash     | ON |    |    |    |    |    |
| Override Higher Preempt | ON |    |    |    |    |    |
| Flash in Dwell          |    |    |    |    |    |    |
| Link to Preempt         |    |    |    |    |    |    |
| Delay                   |    |    |    |    |    |    |
| Min Duration            |    |    |    |    |    |    |
| Min Green               |    |    |    |    |    |    |
| Min Walk                |    |    |    |    |    |    |
| Ped Clear               |    |    |    |    |    |    |
| Track Green             |    |    |    |    |    |    |
| Min Dwell               |    |    |    |    |    |    |
| Max Presence            |    |    |    |    |    |    |
| Track Veh 1             |    |    |    |    |    |    |
| Track Veh 2             |    |    |    |    |    |    |
| Track Veh 3             |    |    |    |    |    |    |
| Track Veh 4             |    |    |    |    |    |    |
| Dwell Cyc Veh 1         |    |    |    |    |    |    |
| Dwell Cyc Veh 2         |    |    |    |    |    |    |
| Dwell Cyc Veh 3         |    |    |    |    |    |    |
| Dwell Cyc Veh 4         |    |    |    |    |    |    |
| Dwell Cyc Veh 5         |    |    |    |    |    |    |

## Preempt LP

| Channel          | 1   | 2   | 3   | 4   |
|------------------|-----|-----|-----|-----|
| Min              |     |     |     |     |
| Max              |     |     |     |     |
| Enable           |     |     |     |     |
| Lock Mode        | MAX | MAX | MAX | MAX |
| Coord in Preempt |     |     |     |     |
| No Skip          |     |     |     |     |
| Priority P1      |     |     |     |     |
| Priority P2      |     |     |     |     |
| Priority P3      |     |     |     |     |
| Priority P4      |     |     |     |     |
| Lock             |     |     |     |     |
| Headway          |     |     |     |     |
| Group Lock       |     |     |     |     |
| Queue Jump       |     |     |     |     |
| Free Mode        |     |     |     |     |
| Alt Table        |     |     |     |     |

|                  |  |  |  |  |  |  |
|------------------|--|--|--|--|--|--|
| Dwell Cyc Veh 6  |  |  |  |  |  |  |
| Dwell Cyc Veh 7  |  |  |  |  |  |  |
| Dwell Cyc Veh 8  |  |  |  |  |  |  |
| Dwell Cyc Veh 9  |  |  |  |  |  |  |
| Dwell Cyc Veh 10 |  |  |  |  |  |  |
| Dwell Cyc Veh 11 |  |  |  |  |  |  |
| Dwell Cyc Veh 12 |  |  |  |  |  |  |
| Dwell Cyc Ped1   |  |  |  |  |  |  |
| Dwell Cyc Ped2   |  |  |  |  |  |  |
| Dwell Cyc Ped3   |  |  |  |  |  |  |
| Dwell Cyc Ped4   |  |  |  |  |  |  |
| Dwell Cyc Ped5   |  |  |  |  |  |  |
| Dwell Cyc Ped6   |  |  |  |  |  |  |
| Dwell vPed7      |  |  |  |  |  |  |
| Dwell Cyc Ped8   |  |  |  |  |  |  |
| Exit 1           |  |  |  |  |  |  |
| Exit 2           |  |  |  |  |  |  |
| Exit 3           |  |  |  |  |  |  |
| Exit 4           |  |  |  |  |  |  |

Prepared By

Date Implemented

Reviewed By

## Traffic Engineer

Brevard County

## Timing Sheet

2/8/2016 10:17:15 AM

**Station :** 20 - SR 520 & Newfound Harbor Dr ( Standard File )

## Coordination

Brevard County

## Timing Sheet

2/8/2016 10:17:15 AM

**Station :** 20 - SR 520 & Newfound Harbor Dr ( Standard File )

## Scheduler

|    |  |   |
|----|--|---|
| 18 |  |   |
| 19 |  | 1 |
| 20 |  | 1 |
| 21 |  | 1 |
| 22 |  | 1 |
| 23 |  | 1 |
| 24 |  | 1 |
| 25 |  | 1 |
| 26 |  | 1 |
| 27 |  | 1 |
| 28 |  | 1 |
| 29 |  | 1 |
| 30 |  | 1 |
| 31 |  | 1 |
| 32 |  | 1 |

## **User Comments:**

Brevard County

## Timing Sheet

2/8/2016 10:23:39 AM

Station : 22 - SR 520 &amp; N Banana River ( Standard File )

| Phase              | 1<br>(EL) | 2<br>(WT) | 3 | 4<br>(NT) | 5<br>(WL) | 6<br>(ET) | 7 | 8<br>(ST) | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  |
|--------------------|-----------|-----------|---|-----------|-----------|-----------|---|-----------|-----|-----|-----|-----|-----|-----|-----|-----|
| Walk               |           | 7         |   | 8         |           | 7         |   | 9         |     |     |     |     |     |     |     |     |
| Ped Clearance      |           | 21        |   | 44        |           | 16        |   | 40        |     |     |     |     |     |     |     |     |
| Min Green          | 5         | 12        |   | 7         | 5         | 12        |   | 7         | 3   |     | 3   |     | 3   |     | 3   |     |
| Gap Ext            | 3         | 3         |   | 3         | 3         | 3         |   | 3         |     |     |     |     |     |     |     |     |
| Max1               | 15        | 60        |   | 35        | 15        | 60        | 2 | 35        |     |     |     |     |     |     |     |     |
| Max2               | 20        | 45        |   | 15        | 20        | 45        |   | 15        |     |     |     |     |     |     |     |     |
| Yellow Clr         | 4.3       | 4.8       | 4 | 3         | 4.3       | 4.8       | 4 | 3         | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 |
| Red Clr            | 2.3       | 2.3       | 2 | 3         | 2.3       | 2.3       | 2 | 3         | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| Red Revert         |           |           |   |           |           |           |   |           |     |     |     |     |     |     |     |     |
| Added Initial      |           |           |   |           |           |           |   |           |     |     |     |     |     |     |     |     |
| Max Initial        |           |           |   |           |           |           |   |           |     |     |     |     |     |     |     |     |
| Time Before Reduce |           |           |   |           |           |           |   |           |     |     |     |     |     |     |     |     |
| Cars Before Reduce |           |           |   |           |           |           |   |           |     |     |     |     |     |     |     |     |
| Time To Reduce     |           |           |   |           |           |           |   |           |     |     |     |     |     |     |     |     |
| Reduce By          |           |           |   |           |           |           |   |           |     |     |     |     |     |     |     |     |
| Min Gap            |           |           |   |           |           |           |   |           |     |     |     |     |     |     |     |     |
| Dynamic Max Limit  |           |           |   |           |           |           |   |           |     |     |     |     |     |     |     |     |
| Dynamic Max Step   |           |           |   |           |           |           |   |           |     |     |     |     |     |     |     |     |
| Enable             | ON        | ON        |   | ON        | ON        | ON        |   | ON        |     |     |     |     |     |     |     |     |
| Auto Flash Entry   |           |           |   | ON        |           |           |   | ON        |     |     |     |     |     |     |     |     |
| Auto Flash Exit    |           | ON        |   |           |           | ON        |   |           |     |     |     |     |     |     |     |     |
| Non-Actuated 1     |           |           |   |           |           |           |   |           |     |     |     |     |     |     |     |     |
| Non-Actuated 2     |           |           |   |           |           |           |   |           |     |     |     |     |     |     |     |     |
| Lock Call          |           |           |   |           |           |           |   |           |     |     |     |     |     |     |     |     |
| Min Recall         |           | ON        |   |           |           | ON        |   |           |     |     |     |     |     |     |     |     |
| Max Recall         |           |           |   |           |           |           |   |           |     |     |     |     |     |     |     |     |
| Ped Recall         |           |           |   |           |           |           |   |           |     |     |     |     |     |     |     |     |
| Soft Recall        |           |           |   |           |           |           |   |           |     |     |     |     |     |     |     |     |
| Dual Entry         |           | ON        |   |           |           | ON        |   |           |     |     |     |     |     |     |     |     |
| Sim Gap Enable     |           | ON        |   |           |           | ON        |   |           |     |     |     |     |     |     |     |     |
| Guar Passage       |           |           |   |           |           |           |   |           |     |     |     |     |     |     |     |     |
| Rest In Walk       |           | ON        |   |           |           | ON        |   |           |     |     |     |     |     |     |     |     |
| Cond Service       |           |           |   |           |           |           |   |           |     |     |     |     |     |     |     |     |
| Add Init Calc      |           |           |   |           |           |           |   |           |     |     |     |     |     |     |     |     |
| Concurrent Ps      | 1         | 1         | 1 | 1         | 2         | 2         | 2 | 2         |     |     |     |     |     |     |     |     |

## Preemption

| Channel                 | 1  | 2  | 3  | 4  | 5  | 6  |
|-------------------------|----|----|----|----|----|----|
| Lock Input              | ON | ON | ON | ON | ON | ON |
| Override Auto Flash     | ON | ON | ON | ON | ON | ON |
| Override Higher Preempt | ON | ON | ON | ON | ON | ON |
| Flash in Dwell          |    |    |    |    |    |    |
| Link to Preempt         |    |    |    |    |    |    |
| Delay                   |    |    |    |    |    |    |
| Min Duration            |    |    |    |    |    |    |
| Min Green               |    |    |    |    |    |    |
| Min Walk                |    |    |    |    |    |    |
| Ped Clear               |    |    |    |    |    |    |
| Track Green             |    |    |    |    |    |    |
| Min Dwell               |    |    |    |    |    |    |
| Max Presence            |    |    |    |    |    |    |
| Track Veh 1             |    |    |    |    |    |    |
| Track Veh 2             |    |    |    |    |    |    |
| Track Veh 3             |    |    |    |    |    |    |
| Track Veh 4             |    |    |    |    |    |    |
| Dwell Cyc Veh 1         |    |    |    |    |    |    |
| Dwell Cyc Veh 2         |    |    |    |    |    |    |
| Dwell Cyc Veh 3         |    |    |    |    |    |    |
| Dwell Cyc Veh 4         |    |    |    |    |    |    |
| Dwell Cyc Veh 5         |    |    |    |    |    |    |

## Preempt LP

| Channel          | 1   | 2   | 3   | 4   |
|------------------|-----|-----|-----|-----|
| Min              |     |     |     |     |
| Max              |     |     |     |     |
| Enable           |     |     |     |     |
| Lock Mode        | MAX | MAX | MAX | MAX |
| Coord in Preempt |     |     |     |     |
| No Skip          |     |     |     |     |
| Priority P1      |     |     |     |     |
| Priority P2      |     |     |     |     |
| Priority P3      |     |     |     |     |
| Priority P4      |     |     |     |     |
| Lock             |     |     |     |     |
| Headway          |     |     |     |     |
| Group Lock       |     |     |     |     |
| Queue Jump       |     |     |     |     |
| Free Mode        |     |     |     |     |
| Alt Table        |     |     |     |     |

|                  |  |  |  |  |  |
|------------------|--|--|--|--|--|
| Dwell Cyc Veh 6  |  |  |  |  |  |
| Dwell Cyc Veh 7  |  |  |  |  |  |
| Dwell Cyc Veh 8  |  |  |  |  |  |
| Dwell Cyc Veh 9  |  |  |  |  |  |
| Dwell Cyc Veh 10 |  |  |  |  |  |
| Dwell Cyc Veh 11 |  |  |  |  |  |
| Dwell Cyc Veh 12 |  |  |  |  |  |
| Dwell Cyc Ped1   |  |  |  |  |  |
| Dwell Cyc Ped2   |  |  |  |  |  |
| Dwell Cyc Ped3   |  |  |  |  |  |
| Dwell Cyc Ped4   |  |  |  |  |  |
| Dwell Cyc Ped5   |  |  |  |  |  |
| Dwell Cyc Ped6   |  |  |  |  |  |
| Dwell vPed7      |  |  |  |  |  |
| Dwell Cyc Ped8   |  |  |  |  |  |
| Exit 1           |  |  |  |  |  |
| Exit 2           |  |  |  |  |  |
| Exit 3           |  |  |  |  |  |
| Exit 4           |  |  |  |  |  |

Prepared By

Date Implemented

Reviewed By

## Traffic Engineer

Brevard County

## Timing Sheet

2/8/2016 10:23:39 AM

**Station :** 22 - SR 520 & N Banana River ( Standard File )

### Coordination

Brevard County

## Timing Sheet

2/8/2016 10:23:39 AM

**Station :** 22 - SR 520 & N Banana River ( Standard File )

## Scheduler

|    |  |   |
|----|--|---|
| 18 |  |   |
| 19 |  | 1 |
| 20 |  | 1 |
| 21 |  | 1 |
| 22 |  | 1 |
| 23 |  | 1 |
| 24 |  | 1 |
| 25 |  | 1 |
| 26 |  | 1 |
| 27 |  | 1 |
| 28 |  | 1 |
| 29 |  | 1 |
| 30 |  | 1 |
| 31 |  | 1 |
| 32 |  | 1 |

## **User Comments:**

Brevard County

## Timing Sheet

2/8/2016 10:24:02 AM

Station : 23 - SR 520 &amp; S Banana River Drive ( Standard File )

| Phase              | 1<br>(EL) | 2<br>(WT) | 3   | 4<br>(NT) | 5<br>(WL) | 6<br>(ET) | 7  | 8<br>(ST) | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  |
|--------------------|-----------|-----------|-----|-----------|-----------|-----------|----|-----------|-----|-----|-----|-----|-----|-----|-----|-----|
| Walk               |           | 7         |     | 8         |           | 7         |    | 9         |     |     |     |     |     |     |     |     |
| Ped Clearance      |           | 19        |     | 44        |           | 16        |    | 40        |     |     |     |     |     |     |     |     |
| Min Green          | 5         | 12        |     | 7         | 5         | 12        |    | 7         | 3   |     | 3   |     | 3   |     |     | 3   |
| Gap Ext            | 3         | 3         |     | 3         | 3         | 3         |    | 3         |     |     |     |     |     |     |     |     |
| Max1               | 15        | 60        |     | 35        | 15        | 60        | 2  | 35        |     |     |     |     |     |     |     |     |
| Max2               | 20        | 45        |     | 40        | 20        | 45        |    | 40        |     |     |     |     |     |     |     |     |
| Yellow Clr         | 4.3       | 4.8       | 4   | 3.2       | 4.3       | 4.8       | 4  | 3.2       | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 |
| Red Clr            | 2.6       | 2.6       | 1.5 | 3         | 2.6       | 2.6       | 1  | 3         | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| Red Revert         |           |           |     |           |           |           |    |           |     |     |     |     |     |     |     |     |
| Added Initial      |           |           |     |           |           |           |    |           |     |     |     |     |     |     |     |     |
| Max Initial        |           |           |     |           |           |           |    |           |     |     |     |     |     |     |     |     |
| Time Before Reduce |           |           |     |           |           |           |    |           |     |     |     |     |     |     |     |     |
| Cars Before Reduce |           |           |     |           |           |           |    |           |     |     |     |     |     |     |     |     |
| Time To Reduce     |           |           |     |           |           |           |    |           |     |     |     |     |     |     |     |     |
| Reduce By          |           |           |     |           |           |           |    |           |     |     |     |     |     |     |     |     |
| Min Gap            |           |           |     |           |           |           |    |           |     |     |     |     |     |     |     |     |
| Dynamic Max Limit  |           |           |     |           |           |           |    |           |     |     |     |     |     |     |     |     |
| Dynamic Max Step   |           |           |     |           |           |           |    |           |     |     |     |     |     |     |     |     |
| Enable             | ON        | ON        |     | ON        | ON        | ON        |    | ON        |     |     | ON  |     | ON  | ON  | ON  | ON  |
| Auto Flash Entry   |           |           |     | ON        |           |           |    | ON        |     |     |     |     |     |     |     |     |
| Auto Flash Exit    |           | ON        |     |           |           |           | ON |           |     |     |     |     |     |     |     |     |
| Non-Actuated 1     |           | ON        |     |           |           |           | ON |           |     |     |     |     |     |     |     |     |
| Non-Actuated 2     |           |           |     |           |           |           |    |           |     |     |     |     |     |     |     |     |
| Lock Call          |           | ON        |     |           |           |           | ON |           |     | ON  |
| Min Recall         |           | ON        |     |           |           |           | ON |           |     |     |     |     |     |     |     |     |
| Max Recall         |           |           |     |           |           |           |    |           |     |     |     |     |     |     |     |     |
| Ped Recall         |           |           |     |           |           |           |    |           |     |     |     |     |     |     |     |     |
| Soft Recall        |           |           |     |           |           |           |    |           |     |     |     |     |     |     |     |     |
| Dual Entry         |           |           |     | ON        |           |           |    | ON        |     |     |     |     |     |     |     |     |
| Sim Gap Enable     |           | ON        |     |           |           |           | ON |           |     | ON  |     | ON  | ON  | ON  | ON  | ON  |
| Guar Passage       |           |           |     |           |           |           |    |           |     |     |     |     |     |     |     |     |
| Rest In Walk       |           |           |     |           |           |           |    |           |     |     |     |     |     |     |     |     |
| Cond Service       |           |           |     |           |           |           |    |           |     |     |     |     |     |     |     |     |
| Add Init Calc      |           |           |     |           |           |           |    |           |     |     |     |     |     |     |     |     |
| Concurrent Ps      | 1         | 1         | 1   | 1         | 2         | 2         | 2  | 2         |     |     |     |     |     |     |     |     |

## Preemption

| Channel                 | 1  | 2  | 3  | 4  | 5  | 6  |
|-------------------------|----|----|----|----|----|----|
| Lock Input              | ON | ON | ON | ON | ON | ON |
| Override Auto Flash     | ON | ON | ON | ON | ON | ON |
| Override Higher Preempt | ON | ON | ON | ON | ON | ON |
| Flash in Dwell          |    |    |    |    |    |    |
| Link to Preempt         |    |    |    |    |    |    |
| Delay                   |    |    |    |    |    |    |
| Min Duration            |    |    |    |    |    |    |
| Min Green               |    |    |    |    |    |    |
| Min Walk                |    |    |    |    |    |    |
| Ped Clear               |    |    |    |    |    |    |
| Track Green             |    |    |    |    |    |    |
| Min Dwell               |    |    |    |    |    |    |
| Max Presence            |    |    |    |    |    |    |
| Track Veh 1             |    |    |    |    |    |    |
| Track Veh 2             |    |    |    |    |    |    |
| Track Veh 3             |    |    |    |    |    |    |
| Track Veh 4             |    |    |    |    |    |    |
| Dwell Cyc Veh 1         |    |    |    |    |    |    |
| Dwell Cyc Veh 2         |    |    |    |    |    |    |
| Dwell Cyc Veh 3         |    |    |    |    |    |    |
| Dwell Cyc Veh 4         |    |    |    |    |    |    |
| Dwell Cyc Veh 5         |    |    |    |    |    |    |

## Preempt LP

| Channel          | 1   | 2   | 3   | 4   |
|------------------|-----|-----|-----|-----|
| Min              |     |     |     |     |
| Max              |     |     |     |     |
| Enable           |     |     |     |     |
| Lock Mode        | MAX | MAX | MAX | MAX |
| Coord in Preempt |     |     |     |     |
| No Skip          |     |     |     |     |
| Priority P1      |     |     |     |     |
| Priority P2      |     |     |     |     |
| Priority P3      |     |     |     |     |
| Priority P4      |     |     |     |     |
| Lock             |     |     |     |     |
| Headway          |     |     |     |     |
| Group Lock       |     |     |     |     |
| Queue Jump       |     |     |     |     |
| Free Mode        |     |     |     |     |
| Alt Table        |     |     |     |     |

|                  |  |  |  |  |
|------------------|--|--|--|--|
| Dwell Cyc Veh 6  |  |  |  |  |
| Dwell Cyc Veh 7  |  |  |  |  |
| Dwell Cyc Veh 8  |  |  |  |  |
| Dwell Cyc Veh 9  |  |  |  |  |
| Dwell Cyc Veh 10 |  |  |  |  |
| Dwell Cyc Veh 11 |  |  |  |  |
| Dwell Cyc Veh 12 |  |  |  |  |
| Dwell Cyc Ped1   |  |  |  |  |
| Dwell Cyc Ped2   |  |  |  |  |
| Dwell Cyc Ped3   |  |  |  |  |
| Dwell Cyc Ped4   |  |  |  |  |
| Dwell Cyc Ped5   |  |  |  |  |
| Dwell Cyc Ped6   |  |  |  |  |
| Dwell vPed7      |  |  |  |  |
| Dwell Cyc Ped8   |  |  |  |  |
| Exit 1           |  |  |  |  |
| Exit 2           |  |  |  |  |
| Exit 3           |  |  |  |  |
| Exit 4           |  |  |  |  |

Prepared By

Date Implemented

Reviewed By

## Traffic Engineer

Brevard County

## Timing Sheet

2/8/2016 10:24:02 AM

**Station :** 23 - SR 520 & S Banana River Drive ( Standard File )

## Coordination

Brevard County

## Timing Sheet

2/8/2016 10:24:02 AM

**Station :** 23 - SR 520 & S Banana River Drive ( Standard File )

## Scheduler

## User Comments:

## **Appendix K:**

## **Synchro Reports**

## Lanes, Volumes, Timings

### 1: Newfound Harbor Dr/Walmart & SR 520

|                            | EBL   | EBT  | EBR   | WBL   | WBT  | WBR   | NBL   | NBT  | NBR   | SBL   | SBT  | SBR   |
|----------------------------|-------|------|-------|-------|------|-------|-------|------|-------|-------|------|-------|
| Lane Configurations        | 1     | 2    | 1     | 1     | 2    | 1     | 1     | 1    | 1     | 1     | 1    | 1     |
| Volume (vph)               | 66    | 755  | 127   | 49    | 776  | 31    | 248   | 8    | 98    | 30    | 44   | 53    |
| Ideal Flow (vphpl)         | 1950  | 1950 | 1950  | 1950  | 1950 | 1950  | 1950  | 1950 | 1950  | 1950  | 1950 | 1950  |
| Lane Width (ft)            | 12    | 12   | 12    | 12    | 12   | 12    | 12    | 12   | 12    | 12    | 12   | 12    |
| Grade (%)                  | 0%    |      |       | 0%    |      |       | 0%    |      |       | 0%    |      | 0%    |
| Storage Length (ft)        | 300   |      | 200   | 240   |      | 0     | 125   |      | 0     | 0     |      | 0     |
| Storage Lanes              | 1     |      | 1     | 1     |      | 1     | 1     |      | 0     | 1     |      | 0     |
| Taper Length (ft)          | 100   |      |       | 25    |      |       | 300   |      |       | 25    |      |       |
| Lane Util. Factor          | 1.00  | 0.91 | 1.00  | 1.00  | 0.91 | 1.00  | 1.00  | 1.00 | 1.00  | 1.00  | 1.00 | 1.00  |
| Ped Bike Factor            |       |      |       |       |      |       |       |      |       |       |      |       |
| Fr <sub>t</sub>            |       |      | 0.850 |       |      | 0.850 |       |      | 0.861 |       |      | 0.918 |
| Flt Protected              | 0.950 |      |       | 0.950 |      |       | 0.950 |      |       | 0.950 |      |       |
| Satd. Flow (prot)          | 1834  | 5219 | 1625  | 1852  | 5271 | 1507  | 1834  | 1664 | 0     | 1852  | 1671 | 0     |
| Flt Permitted              | 0.950 |      |       | 0.950 |      |       | 0.434 |      |       | 0.681 |      |       |
| Satd. Flow (perm)          | 1834  | 5219 | 1625  | 1852  | 5271 | 1507  | 838   | 1664 | 0     | 1328  | 1671 | 0     |
| Right Turn on Red          |       |      | Yes   |       |      | Yes   |       |      | Yes   |       |      | Yes   |
| Satd. Flow (RTOR)          |       |      | 264   |       |      | 264   |       |      | 109   |       |      | 52    |
| Link Speed (mph)           |       | 50   |       |       | 50   |       |       | 30   |       |       | 30   |       |
| Link Distance (ft)         |       | 1003 |       |       | 630  |       |       | 1067 |       |       | 629  |       |
| Travel Time (s)            |       | 13.7 |       |       | 8.6  |       |       | 24.3 |       |       | 14.3 |       |
| Confl. Peds. (#/hr)        |       |      |       |       |      |       |       |      |       |       |      |       |
| Confl. Bikes (#/hr)        |       |      |       |       |      |       |       |      |       |       |      |       |
| Peak Hour Factor           | 0.90  | 0.90 | 0.90  | 0.90  | 0.90 | 0.90  | 0.90  | 0.90 | 0.90  | 0.92  | 0.92 | 0.92  |
| Growth Factor              | 100%  | 100% | 100%  | 100%  | 100% | 100%  | 100%  | 100% | 100%  | 100%  | 100% | 100%  |
| Heavy Vehicles (%)         | 1%    | 2%   | 2%    | 0%    | 1%   | 10%   | 1%    | 0%   | 1%    | 0%    | 0%   | 13%   |
| Bus Blockages (#/hr)       | 0     | 0    | 0     | 0     | 0    | 0     | 0     | 0    | 0     | 0     | 0    | 0     |
| Parking (#/hr)             |       |      |       |       |      |       |       |      |       |       |      |       |
| Mid-Block Traffic (%)      |       | 0%   |       |       | 0%   |       |       | 0%   |       |       | 0%   |       |
| Adj. Flow (vph)            | 73    | 839  | 141   | 54    | 862  | 34    | 276   | 9    | 109   | 33    | 48   | 58    |
| Shared Lane Traffic (%)    |       |      |       |       |      |       |       |      |       |       |      |       |
| Lane Group Flow (vph)      | 73    | 839  | 141   | 54    | 862  | 34    | 276   | 118  | 0     | 33    | 106  | 0     |
| Enter Blocked Intersection | No    | No   | No    |
| Lane Alignment             | Left  | Left | Right |
| Median Width(ft)           |       | 12   |       |       | 12   |       |       | 12   |       |       | 12   |       |
| Link Offset(ft)            |       | 0    |       |       | 0    |       |       | 0    |       |       | 0    |       |
| Crosswalk Width(ft)        |       | 16   |       |       | 16   |       |       | 16   |       |       | 16   |       |
| Two way Left Turn Lane     |       |      |       |       | Yes  |       |       |      |       |       |      |       |
| Headway 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  |
| Turning Speed (mph)        | 15    |      | 9     | 15    |      | 9     | 15    |      | 9     | 15    |      | 9     |
| Number of Detectors        | 1     | 2    | 1     | 1     | 2    | 1     | 1     | 2    |       | 1     | 2    |       |
| Detector Template          | Left  | Thru | Right | Left  | Thru | Right | Left  | Thru |       | Left  | Thru |       |
| Leading Detector (ft)      | 20    | 100  | 20    | 20    | 100  | 20    | 20    | 100  |       | 20    | 100  |       |
| Trailing Detector (ft)     | 0     | 0    | 0     | 0     | 0    | 0     | 0     | 0    |       | 0     | 0    |       |
| Turn Type                  | Prot  | NA   | Perm  | Prot  | NA   | Perm  | pm+pt | NA   |       | pm+pt | NA   |       |
| Protected Phases           | 1     | 6    |       | 5     | 2    |       | 7     | 4    |       | 3     | 8    |       |
| Permitted Phases           |       |      |       | 6     |      |       | 2     | 4    |       |       | 8    |       |
| Detector Phase             | 1     | 6    | 6     | 5     | 2    | 2     | 7     | 4    |       | 3     | 8    |       |
| Switch Phase               |       |      |       |       |      |       |       |      |       |       |      |       |
| Minimum Initial (s)        | 5.0   | 12.0 | 12.0  | 5.0   | 12.0 | 12.0  | 5.0   | 7.0  |       | 5.0   | 7.0  |       |

## Lanes, Volumes, Timings

### 1: Newfound Harbor Dr/Walmart & SR 520

| Lane Group              | EBL   | EBT   | EBR   | WBL   | WBT   | WBR   | NBL   | NBT   | NBR | SBL   | SBT   | SBR |
|-------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-------|-------|-----|
| Minimum Split (s)       | 12.4  | 19.4  | 19.4  | 12.4  | 19.4  | 19.4  | 12.4  | 14.4  |     | 12.4  | 14.4  |     |
| Total Split (s)         | 16.0  | 28.0  | 28.0  | 16.0  | 28.0  | 28.0  | 33.0  | 53.0  |     | 13.0  | 33.0  |     |
| Total Split (%)         | 14.5% | 25.5% | 25.5% | 14.5% | 25.5% | 25.5% | 30.0% | 48.2% |     | 11.8% | 30.0% |     |
| Maximum Green (s)       | 8.6   | 20.6  | 20.6  | 8.6   | 20.6  | 20.6  | 25.6  | 45.6  |     | 5.6   | 25.6  |     |
| Yellow Time (s)         | 4.8   | 4.8   | 4.8   | 4.8   | 4.8   | 4.8   | 3.7   | 3.7   |     | 3.7   | 3.7   |     |
| All-Red Time (s)        | 2.6   | 2.6   | 2.6   | 2.6   | 2.6   | 2.6   | 3.7   | 3.7   |     | 3.7   | 3.7   |     |
| 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)     | 7.4   | 7.4   | 7.4   | 7.4   | 7.4   | 7.4   | 7.4   | 7.4   |     | 7.4   | 7.4   |     |
| Lead/Lag                | Lead  | Lead  | Lead  | Lag   | Lag   | Lag   | Lead  | Lag   |     | Lead  | Lag   |     |
| Lead-Lag Optimize?      | Yes   |     | Yes   | Yes   |     |
| Vehicle Extension (s)   | 5.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   |     | 3.0   | 3.0   |     |
| Minimum Gap (s)         | 5.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   |     | 3.0   | 3.0   |     |
| Time Before Reduce (s)  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |     | 0.0   | 0.0   |     |
| Time To Reduce (s)      | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |     | 0.0   | 0.0   |     |
| Recall Mode             | None  | Max   | Max   | None  | C-Max | C-Max | None  | None  |     | None  | None  |     |
| Walk Time (s)           |       |       |       |       |       |       |       |       |     |       |       |     |
| Flash Dont Walk (s)     |       |       |       |       |       |       |       |       |     |       |       |     |
| Pedestrian Calls (#/hr) |       |       |       |       |       |       |       |       |     |       |       |     |
| Act Effct Green (s)     | 11.6  | 44.2  | 44.2  | 8.0   | 41.0  | 41.0  | 38.2  | 30.4  |     | 15.2  | 9.6   |     |
| Actuated g/C Ratio      | 0.11  | 0.40  | 0.40  | 0.07  | 0.37  | 0.37  | 0.35  | 0.28  |     | 0.14  | 0.09  |     |
| v/c Ratio               | 0.38  | 0.40  | 0.17  | 0.40  | 0.44  | 0.05  | 0.57  | 0.22  |     | 0.16  | 0.55  |     |
| Control Delay           | 50.7  | 26.5  | 0.5   | 46.2  | 20.1  | 0.2   | 31.4  | 7.7   |     | 25.8  | 36.4  |     |
| Queue Delay             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |     | 0.0   | 0.0   |     |
| Total Delay             | 50.7  | 26.5  | 0.5   | 46.2  | 20.1  | 0.2   | 31.4  | 7.7   |     | 25.8  | 36.4  |     |
| LOS                     | D     | C     | A     | D     | C     | A     | C     | A     |     | C     | D     |     |
| Approach Delay          |       | 24.7  |       |       | 20.9  |       |       | 24.3  |     |       | 33.9  |     |
| Approach LOS            |       | C     |       |       | C     |       |       | C     |     |       | C     |     |
| 90th %ile Green (s)     | 15.2  | 32.1  | 32.1  | 8.6   | 25.5  | 25.5  | 25.6  | 34.1  |     | 5.6   | 14.1  |     |
| 90th %ile Term Code     | Gap   | Coord | Coord | Max   | Coord | Coord | Max   | Hold  |     | Max   | Gap   |     |
| 70th %ile Green (s)     | 13.1  | 36.0  | 36.0  | 8.6   | 31.5  | 31.5  | 24.7  | 30.2  |     | 5.6   | 11.1  |     |
| 70th %ile Term Code     | Gap   | Coord | Coord | Max   | Coord | Coord | Gap   | Hold  |     | Max   | Gap   |     |
| 50th %ile Green (s)     | 11.6  | 41.4  | 41.4  | 8.6   | 38.4  | 38.4  | 21.4  | 24.8  |     | 5.6   | 9.0   |     |
| 50th %ile Term Code     | Gap   | Coord | Coord | Max   | Coord | Coord | Gap   | Hold  |     | Max   | Gap   |     |
| 30th %ile Green (s)     | 10.1  | 45.3  | 45.3  | 8.6   | 43.8  | 43.8  | 19.5  | 33.9  |     | 0.0   | 7.0   |     |
| 30th %ile Term Code     | Gap   | Coord | Coord | Hold  | Coord | Coord | Gap   | Hold  |     | Skip  | Min   |     |
| 10th %ile Green (s)     | 0.0   | 66.0  | 66.0  | 0.0   | 66.0  | 66.0  | 14.8  | 29.2  |     | 0.0   | 7.0   |     |
| 10th %ile Term Code     | Skip  | Coord | Coord | Skip  | Coord | Coord | Gap   | Hold  |     | Skip  | Min   |     |
| Stops (vph)             | 61    | 535   | 0     | 43    | 474   | 0     | 181   | 18    |     | 25    | 50    |     |
| Fuel Used(gal)          | 2     | 17    | 1     | 1     | 14    | 0     | 5     | 1     |     | 0     | 1     |     |
| CO Emissions (g/hr)     | 142   | 1194  | 57    | 92    | 948   | 9     | 325   | 80    |     | 31    | 104   |     |
| NOx Emissions (g/hr)    | 28    | 232   | 11    | 18    | 184   | 2     | 63    | 16    |     | 6     | 20    |     |
| VOC Emissions (g/hr)    | 33    | 277   | 13    | 21    | 220   | 2     | 75    | 19    |     | 7     | 24    |     |
| Dilemma Vehicles (#)    | 0     | 34    | 0     | 0     | 51    | 0     | 0     | 0     |     | 0     | 0     |     |
| Queue Length 50th (ft)  | 49    | 159   | 0     | 37    | 139   | 0     | 149   | 5     |     | 16    | 37    |     |
| Queue Length 95th (ft)  | 92    | 226   | 0     | 58    | 193   | 0     | 195   | 46    |     | 32    | 90    |     |
| Internal Link Dist (ft) |       | 923   |       |       | 550   |       |       | 987   |     |       | 549   |     |
| Turn Bay Length (ft)    | 300   |       | 200   | 240   |       |       | 125   |       |     |       |       |     |
| Base Capacity (vph)     | 195   | 2095  | 810   | 144   | 1966  | 727   | 523   | 753   |     | 210   | 428   |     |
| Starvation Cap Reductn  | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |     | 0     | 0     |     |

## Lanes, Volumes, Timings

### 1: Newfound Harbor Dr/Walmart & SR 520



| Lane Group            | EBL  | EBT  | EBR  | WBL  | WBT  | WBR  | NBL  | NBT  | NBR  | SBL  | SBT  | SBR  |
|-----------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Spillback Cap Reductn | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Storage Cap Reductn   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Reduced v/c Ratio     | 0.37 | 0.40 | 0.17 | 0.38 | 0.44 | 0.05 | 0.53 | 0.16 | 0.16 | 0.16 | 0.25 | 0.25 |

#### Intersection Summary

Area Type: Other

Cycle Length: 110

Actuated Cycle Length: 110

Offset: 57 (52%), Referenced to phase 2:WBT, Start of Yellow

Natural Cycle: 60

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 0.57

Intersection Signal Delay: 23.7

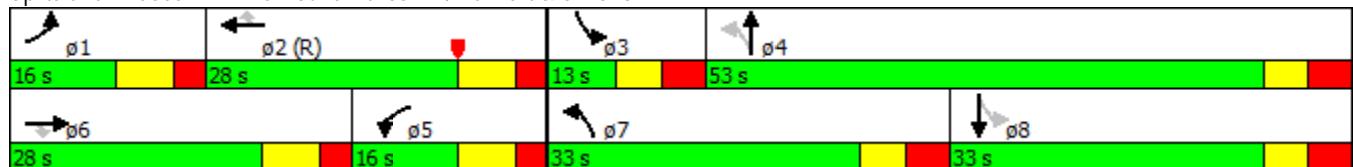
Intersection LOS: C

Intersection Capacity Utilization 57.3%

ICU Level of Service B

Analysis Period (min) 15

#### Splits and Phases: 1: Newfound Harbor Dr/Walmart & SR 520



Lanes, Volumes, Timings  
2: Dodge/N. Banana River Dr & SR 520

|                            | ↑     | →     | ↓     | ↗     | ↖    | ↙     | ↖     | ↗     | ↑     | ↗     | ↖     | ↓     | ↗   |
|----------------------------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-----|
| Lane Group                 | EBL   | EBT   | EBR   | WBL   | WBT  | WBR   | NBL   | NBT   | NBR   | SBL   | SBT   | SBR   |     |
| Lane Configurations        | ↑     | ↑↑↑   |       | ↑     | ↑↑↑  | ↑     | ↑     | ↑     |       | ↑     | ↑↑    |       |     |
| Volume (vph)               | 106   | 682   | 22    | 3     | 724  | 65    | 8     | 3     | 2     | 114   | 10    | 148   |     |
| Ideal Flow (vphpl)         | 1950  | 1950  | 1950  | 1950  | 1950 | 1950  | 1950  | 1950  | 1950  | 1950  | 1950  | 1950  |     |
| Lane Width (ft)            | 12    | 12    | 12    | 12    | 12   | 12    | 12    | 12    | 12    | 12    | 12    | 12    |     |
| Grade (%)                  |       |       |       |       | 0%   |       |       |       | 0%    |       |       | 0%    |     |
| Storage Length (ft)        | 400   |       |       | 0     | 200  |       | 700   |       | 0     |       | 0     |       | 100 |
| Storage Lanes              | 1     |       |       | 0     | 1    |       | 1     |       | 1     |       | 0     | 1     | 1   |
| Taper Length (ft)          | 25    |       |       | 25    |      |       | 25    |       |       |       | 25    |       |     |
| Lane Util. Factor          | 1.00  | 0.91  | 0.91  | 1.00  | 0.91 | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  |     |
| Ped Bike Factor            |       |       |       |       |      |       |       |       |       |       |       |       |     |
| Fr <sub>t</sub>            |       | 0.995 |       |       |      | 0.850 |       | 0.950 |       |       | 0.860 |       |     |
| Flt Protected              | 0.950 |       |       | 0.950 |      |       | 0.950 |       |       | 0.950 |       |       |     |
| Satd. Flow (prot)          | 1816  | 5147  | 0     | 1852  | 5219 | 1579  | 1852  | 1852  | 0     | 1852  | 1646  | 0     |     |
| Flt Permitted              | 0.950 |       |       | 0.950 |      |       | 0.444 |       |       | 0.754 |       |       |     |
| Satd. Flow (perm)          | 1816  | 5147  | 0     | 1852  | 5219 | 1579  | 866   | 1852  | 0     | 1470  | 1646  | 0     |     |
| Right Turn on Red          |       |       | Yes   |       |      | Yes   |       |       | Yes   |       |       | Yes   |     |
| Satd. Flow (RTOR)          |       | 6     |       |       | 161  |       | 2     |       |       |       | 172   |       |     |
| Link Speed (mph)           | 50    |       |       | 50    |      |       | 30    |       |       |       | 25    |       |     |
| Link Distance (ft)         | 712   |       |       | 813   |      |       | 547   |       |       |       | 1044  |       |     |
| Travel Time (s)            |       | 9.7   |       |       | 11.1 |       | 12.4  |       |       |       | 28.5  |       |     |
| Confl. Peds. (#/hr)        |       |       |       |       |      |       |       |       |       |       |       |       |     |
| Confl. Bikes (#/hr)        |       |       |       |       |      |       |       |       |       |       |       |       |     |
| Peak Hour Factor           | 0.96  | 0.96  | 0.96  | 0.95  | 0.95 | 0.95  | 0.81  | 0.81  | 0.81  | 0.86  | 0.86  | 0.86  |     |
| Growth Factor              | 100%  | 100%  | 100%  | 100%  | 100% | 100%  | 100%  | 100%  | 100%  | 100%  | 100%  | 100%  |     |
| Heavy Vehicles (%)         | 2%    | 3%    | 0%    | 0%    | 2%   | 5%    | 0%    | 0%    | 0%    | 0%    | 0%    | 0%    | 2%  |
| Bus Blockages (#/hr)       | 0     | 0     | 0     | 0     | 0    | 0     | 0     | 0     | 0     | 0     | 0     | 0     |     |
| Parking (#/hr)             |       |       |       |       |      |       |       |       |       |       |       |       |     |
| Mid-Block Traffic (%)      |       | 0%    |       |       | 0%   |       |       | 0%    |       |       | 0%    |       |     |
| Adj. Flow (vph)            | 110   | 710   | 23    | 3     | 762  | 68    | 10    | 4     | 2     | 133   | 12    | 172   |     |
| Shared Lane Traffic (%)    |       |       |       |       |      |       |       |       |       |       |       |       |     |
| Lane Group Flow (vph)      | 110   | 733   | 0     | 3     | 762  | 68    | 10    | 6     | 0     | 133   | 184   | 0     |     |
| Enter Blocked Intersection | No    | No    | No    | No    | No   | No    | No    | No    | No    | No    | No    | No    |     |
| Lane Alignment             | Left  | Left  | Right | Left  | Left | Right | Left  | Left  | Right | Left  | Left  | Right |     |
| Median Width(ft)           | 12    |       |       | 12    |      |       | 12    |       |       |       | 12    |       |     |
| Link Offset(ft)            | 0     |       |       | 0     |      |       | 0     |       |       |       | 0     |       |     |
| Crosswalk Width(ft)        | 16    |       |       | 16    |      |       | 16    |       |       |       | 16    |       |     |
| Two way Left Turn Lane     |       | Yes   |       |       | Yes  |       |       |       |       |       |       |       |     |
| Headway 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  |     |
| Turning Speed (mph)        | 15    |       | 9     | 15    |      | 9     | 15    |       | 9     | 15    |       | 9     |     |
| Number of Detectors        | 1     | 2     |       | 1     | 2    | 1     | 1     | 2     |       | 1     | 2     |       |     |
| Detector Template          | Left  | Thru  |       | Left  | Thru | Right | Left  | Thru  |       | Left  | Thru  |       |     |
| Leading Detector (ft)      | 20    | 100   |       | 20    | 100  | 20    | 20    | 100   |       | 20    | 100   |       |     |
| Trailing Detector (ft)     | 0     | 0     |       | 0     | 0    | 0     | 0     | 0     |       | 0     | 0     |       |     |
| Turn Type                  | Prot  | NA    |       | Prot  | NA   | Perm  | Perm  | NA    |       | Perm  | NA    |       |     |
| Protected Phases           | 1     | 6     |       | 5     | 2    |       |       | 4     |       |       | 8     |       |     |
| Permitted Phases           |       |       |       |       |      | 2     | 4     |       |       |       | 8     |       |     |
| Detector Phase             | 1     | 6     |       | 5     | 2    | 2     | 4     | 4     |       | 8     | 8     |       |     |
| Switch Phase               |       |       |       |       |      |       |       |       |       |       |       |       |     |
| Minimum Initial (s)        | 5.0   | 12.0  |       | 5.0   | 12.0 | 12.0  | 7.0   | 7.0   |       | 7.0   | 7.0   |       |     |

Lanes, Volumes, Timings  
2: Dodge/N. Banana River Dr & SR 520

| Lane Group              | EBL   | EBT   | EBR | WBL   | WBT   | WBR   | NBL   | NBT   | NBR | SBL   | SBT   | SBR |
|-------------------------|-------|-------|-----|-------|-------|-------|-------|-------|-----|-------|-------|-----|
| Minimum Split (s)       | 11.6  | 19.1  |     | 11.6  | 19.1  | 19.1  | 13.0  | 13.0  |     | 13.0  | 13.0  |     |
| Total Split (s)         | 31.0  | 59.0  |     | 16.0  | 44.0  | 44.0  | 35.0  | 35.0  |     | 35.0  | 35.0  |     |
| Total Split (%)         | 28.2% | 53.6% |     | 14.5% | 40.0% | 40.0% | 31.8% | 31.8% |     | 31.8% | 31.8% |     |
| Maximum Green (s)       | 24.4  | 51.9  |     | 9.4   | 36.9  | 36.9  | 29.0  | 29.0  |     | 29.0  | 29.0  |     |
| Yellow Time (s)         | 4.3   | 4.8   |     | 4.3   | 4.8   | 4.8   | 3.0   | 3.0   |     | 3.0   | 3.0   |     |
| All-Red Time (s)        | 2.3   | 2.3   |     | 2.3   | 2.3   | 2.3   | 3.0   | 3.0   |     | 3.0   | 3.0   |     |
| 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)     | 6.6   | 7.1   |     | 6.6   | 7.1   | 7.1   | 6.0   | 6.0   |     | 6.0   | 6.0   |     |
| Lead/Lag                | Lead  | Lag   |     | Lead  | Lag   | 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   |     |
| Minimum Gap (s)         | 3.0   | 3.0   |     | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   |     | 3.0   | 3.0   |     |
| Time Before Reduce (s)  | 0.0   | 0.0   |     | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |     | 0.0   | 0.0   |     |
| Time To Reduce (s)      | 0.0   | 0.0   |     | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |     | 0.0   | 0.0   |     |
| Recall Mode             | None  | C-Max |     | None  | C-Max | C-Max | None  | None  |     | None  | None  |     |
| Walk Time (s)           |       |       |     |       |       |       |       |       |     |       |       |     |
| Flash Dont Walk (s)     |       |       |     |       |       |       |       |       |     |       |       |     |
| Pedestrian Calls (#/hr) |       |       |     |       |       |       |       |       |     |       |       |     |
| Act Effct Green (s)     | 12.0  | 78.8  |     | 5.8   | 62.9  | 62.9  | 15.5  | 15.5  |     | 15.5  | 15.5  |     |
| Actuated g/C Ratio      | 0.11  | 0.72  |     | 0.05  | 0.57  | 0.57  | 0.14  | 0.14  |     | 0.14  | 0.14  |     |
| v/c Ratio               | 0.56  | 0.20  |     | 0.03  | 0.26  | 0.07  | 0.08  | 0.02  |     | 0.65  | 0.49  |     |
| Control Delay           | 68.5  | 1.2   |     | 52.3  | 10.9  | 0.1   | 39.4  | 32.0  |     | 58.2  | 11.8  |     |
| Queue Delay             | 0.0   | 0.0   |     | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |     | 0.0   | 0.0   |     |
| Total Delay             | 68.5  | 1.2   |     | 52.3  | 10.9  | 0.1   | 39.4  | 32.0  |     | 58.2  | 11.8  |     |
| LOS                     | E     | A     |     | D     | B     | A     | D     | C     |     | E     | B     |     |
| Approach Delay          |       | 9.9   |     |       | 10.2  |       |       | 36.6  |     |       | 31.2  |     |
| Approach LOS            |       | A     |     |       | B     |       |       | D     |     |       | C     |     |
| 90th %ile Green (s)     | 16.6  | 61.5  |     | 6.4   | 51.3  | 51.3  | 22.4  | 22.4  |     | 22.4  | 22.4  |     |
| 90th %ile Term Code     | Gap   | Coord |     | Gap   | Coord | Coord | Hold  | Hold  |     | Gap   | Gap   |     |
| 70th %ile Green (s)     | 13.8  | 79.0  |     | 0.0   | 58.6  | 58.6  | 17.9  | 17.9  |     | 17.9  | 17.9  |     |
| 70th %ile Term Code     | Gap   | Coord |     | Skip  | Coord | Coord | Hold  | Hold  |     | Gap   | Gap   |     |
| 50th %ile Green (s)     | 12.0  | 81.6  |     | 0.0   | 63.0  | 63.0  | 15.3  | 15.3  |     | 15.3  | 15.3  |     |
| 50th %ile Term Code     | Gap   | Coord |     | Skip  | Coord | Coord | Hold  | Hold  |     | Gap   | Gap   |     |
| 30th %ile Green (s)     | 10.1  | 84.2  |     | 0.0   | 67.5  | 67.5  | 12.7  | 12.7  |     | 12.7  | 12.7  |     |
| 30th %ile Term Code     | Gap   | Coord |     | Skip  | Coord | Coord | Hold  | Hold  |     | Gap   | Gap   |     |
| 10th %ile Green (s)     | 7.4   | 87.9  |     | 0.0   | 73.9  | 73.9  | 9.0   | 9.0   |     | 9.0   | 9.0   |     |
| 10th %ile Term Code     | Gap   | Coord |     | Skip  | Coord | Coord | Hold  | Hold  |     | Gap   | Gap   |     |
| Stops (vph)             | 106   | 48    |     | 5     | 254   | 0     | 8     | 5     |     | 105   | 27    |     |
| Fuel Used(gal)          | 4     | 4     |     | 0     | 9     | 0     | 0     | 0     |     | 3     | 2     |     |
| CO Emissions (g/hr)     | 250   | 285   |     | 9     | 646   | 24    | 10    | 6     |     | 193   | 132   |     |
| NOx Emissions (g/hr)    | 49    | 56    |     | 2     | 126   | 5     | 2     | 1     |     | 38    | 26    |     |
| VOC Emissions (g/hr)    | 58    | 66    |     | 2     | 150   | 5     | 2     | 1     |     | 45    | 31    |     |
| Dilemma Vehicles (#)    | 0     | 13    |     | 0     | 32    | 0     | 0     | 0     |     | 0     | 0     |     |
| Queue Length 50th (ft)  | 82    | 4     |     | 2     | 72    | 0     | 6     | 2     |     | 90    | 7     |     |
| Queue Length 95th (ft)  | 142   | 21    |     | m10   | 94    | 0     | 19    | 12    |     | 137   | 58    |     |
| Internal Link Dist (ft) |       | 632   |     |       | 733   |       |       | 467   |     |       | 964   |     |
| Turn Bay Length (ft)    | 400   |       |     | 200   |       | 700   |       |       |     |       |       |     |
| Base Capacity (vph)     | 402   | 3690  |     | 158   | 2982  | 971   | 228   | 489   |     | 387   | 560   |     |
| Starvation Cap Reductn  | 0     | 0     |     | 0     | 0     | 0     | 0     | 0     |     | 0     | 0     |     |

Lanes, Volumes, Timings  
2: Dodge/N. Banana River Dr & SR 520



| Lane Group            | EBL  | EBT  | EBR | WBL  | WBT  | WBR  | NBL  | NBT  | NBR | SBL  | SBT  | SBR |
|-----------------------|------|------|-----|------|------|------|------|------|-----|------|------|-----|
| 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     | 0.27 | 0.20 |     | 0.02 | 0.26 | 0.07 | 0.04 | 0.01 |     | 0.34 | 0.33 |     |

Intersection Summary

Area Type: Other

Cycle Length: 110

Actuated Cycle Length: 110

Offset: 60 (55%), Referenced to phase 2:WBT and 6:EBT, Start of Yellow

Natural Cycle: 45

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 0.65

Intersection Signal Delay: 13.6

Intersection LOS: B

Intersection Capacity Utilization 48.6%

ICU Level of Service A

Analysis Period (min) 15

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

Splits and Phases: 2: Dodge/N. Banana River Dr & SR 520



## Lanes, Volumes, Timings

### 3: S. Banana River Dr/Milford Point Dr & SR 520

|                            | ↑     | →    | ↓     | ↗     | ↖    | ↙     | ↖    | ↗     | ↑     | ↗    | ↖     | ↓     | ↗ |
|----------------------------|-------|------|-------|-------|------|-------|------|-------|-------|------|-------|-------|---|
| Lane Group                 | EBL   | EBT  | EBR   | WBL   | WBT  | WBR   | NBL  | NBT   | NBR   | SBL  | SBT   | SBR   |   |
| Lane Configurations        | ↑     | ↑↑   | ↑     | ↑     | ↑↑↑  | ↑     |      | ↔     |       |      | ↔     |       |   |
| Volume (vph)               | 7     | 743  | 64    | 11    | 766  | 2     | 44   | 2     | 32    | 1    | 3     | 14    |   |
| Ideal Flow (vphpl)         | 1950  | 1950 | 1950  | 1950  | 1950 | 1950  | 1950 | 1950  | 1950  | 1950 | 1950  | 1950  |   |
| Lane Width (ft)            | 12    | 12   | 12    | 12    | 12   | 12    | 12   | 12    | 12    | 12   | 12    | 12    |   |
| Grade (%)                  |       | 0%   |       |       | 0%   |       |      | 0%    |       |      | 0%    |       |   |
| Storage Length (ft)        | 200   |      | 0     | 200   |      | 250   | 0    |       | 0     | 0    |       | 0     |   |
| Storage Lanes              | 1     |      | 1     | 1     |      | 1     | 0    |       | 0     | 0    |       | 0     |   |
| Taper Length (ft)          | 25    |      |       | 25    |      |       | 25   |       |       | 25   |       |       |   |
| Lane Util. Factor          | 1.00  | 0.95 | 1.00  | 1.00  | 0.91 | 1.00  | 1.00 | 1.00  | 1.00  | 1.00 | 1.00  | 1.00  |   |
| Ped Bike Factor            |       |      |       |       |      |       |      |       |       |      |       |       |   |
| Frt                        |       |      | 0.850 |       |      | 0.850 |      | 0.945 |       |      | 0.893 |       |   |
| Flt Protected              | 0.950 |      |       | 0.950 |      |       |      | 0.973 |       |      | 0.998 |       |   |
| Satd. Flow (prot)          | 1852  | 3632 | 1564  | 1852  | 5271 | 1658  | 0    | 1744  | 0     | 0    | 1738  | 0     |   |
| Flt Permitted              | 0.950 |      |       | 0.950 |      |       |      | 0.812 |       |      | 0.988 |       |   |
| Satd. Flow (perm)          | 1852  | 3632 | 1564  | 1852  | 5271 | 1658  | 0    | 1455  | 0     | 0    | 1720  | 0     |   |
| Right Turn on Red          |       |      | Yes   |       |      | Yes   |      |       | Yes   |      |       | Yes   |   |
| Satd. Flow (RTOR)          |       |      | 100   |       |      | 100   |      | 31    |       |      | 19    |       |   |
| Link Speed (mph)           | 50    |      |       | 50    |      |       | 25   |       |       | 25   |       |       |   |
| Link Distance (ft)         | 813   |      |       | 414   |      |       | 776  |       |       | 1028 |       |       |   |
| Travel Time (s)            | 11.1  |      |       | 5.6   |      |       | 21.2 |       |       | 28.0 |       |       |   |
| Confl. Peds. (#/hr)        |       |      |       |       |      |       |      |       |       |      |       |       |   |
| Confl. Bikes (#/hr)        |       |      |       |       |      |       |      |       |       |      |       |       |   |
| Peak Hour Factor           | 0.94  | 0.94 | 0.94  | 0.89  | 0.89 | 0.89  | 0.75 | 0.75  | 0.75  | 0.75 | 0.75  | 0.75  |   |
| Growth Factor              | 100%  | 100% | 100%  | 100%  | 100% | 100%  | 100% | 100%  | 100%  | 100% | 100%  | 100%  |   |
| Heavy Vehicles (%)         | 0%    | 2%   | 6%    | 0%    | 1%   | 0%    | 5%   | 0%    | 0%    | 0%   | 0%    | 0%    |   |
| Bus Blockages (#/hr)       | 0     | 0    | 0     | 0     | 0    | 0     | 0    | 0     | 0     | 0    | 0     | 0     |   |
| Parking (#/hr)             |       |      |       |       |      |       |      |       |       |      |       |       |   |
| Mid-Block Traffic (%)      |       | 0%   |       |       | 0%   |       |      | 0%    |       |      | 0%    |       |   |
| Adj. Flow (vph)            | 7     | 790  | 68    | 12    | 861  | 2     | 59   | 3     | 43    | 1    | 4     | 19    |   |
| Shared Lane Traffic (%)    |       |      |       |       |      |       |      |       |       |      |       |       |   |
| Lane Group Flow (vph)      | 7     | 790  | 68    | 12    | 861  | 2     | 0    | 105   | 0     | 0    | 24    | 0     |   |
| Enter Blocked Intersection | No    | No   | No    | No    | No   | No    | No   | No    | No    | No   | No    | No    |   |
| Lane Alignment             | Left  | Left | Right | Left  | Left | Right | Left | Left  | Right | Left | Left  | Right |   |
| Median Width(ft)           | 12    |      |       | 12    |      |       | 0    |       |       | 0    |       |       |   |
| Link Offset(ft)            | 0     |      |       | 0     |      |       | 0    |       |       | 0    |       |       |   |
| Crosswalk Width(ft)        | 16    |      |       | 16    |      |       | 16   |       |       | 16   |       |       |   |
| Two way Left Turn Lane     | Yes   |      |       | Yes   |      |       |      |       |       |      |       |       |   |
| Headway 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  |   |
| Turning Speed (mph)        | 15    |      | 9     | 15    |      | 9     | 15   |       | 9     | 15   |       | 9     |   |
| Number of Detectors        | 1     | 2    | 1     | 1     | 2    | 1     | 1    | 2     |       | 1    | 2     |       |   |
| Detector Template          | Left  | Thru | Right | Left  | Thru | Right | Left | Thru  |       | Left | Thru  |       |   |
| Leading Detector (ft)      | 20    | 100  | 20    | 20    | 100  | 20    | 20   | 100   |       | 20   | 100   |       |   |
| Trailing Detector (ft)     | 0     | 0    | 0     | 0     | 0    | 0     | 0    | 0     |       | 0    | 0     |       |   |
| Turn Type                  | Prot  | NA   | Perm  | Prot  | NA   | Perm  | Perm | NA    |       | Perm | NA    |       |   |
| Protected Phases           | 1     | 6    |       | 5     | 2    |       |      | 4     |       |      | 8     |       |   |
| Permitted Phases           |       |      |       | 6     |      | 2     | 4    |       |       | 8    |       |       |   |
| Detector Phase             | 1     | 6    | 6     | 5     | 2    | 2     | 4    | 4     |       | 8    | 8     |       |   |
| Switch Phase               |       |      |       |       |      |       |      |       |       |      |       |       |   |
| Minimum Initial (s)        | 5.0   | 12.0 | 12.0  | 5.0   | 12.0 | 12.0  | 7.0  | 7.0   |       | 7.0  | 7.0   |       |   |

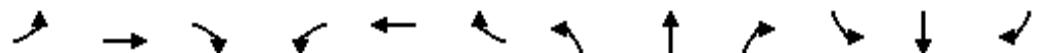
## Lanes, Volumes, Timings

### 3: S. Banana River Dr/Milford Point Dr & SR 520

| Lane Group              | EBL   | EBT   | EBR   | WBL   | WBT   | WBR   | NBL   | NBT   | NBR | SBL   | SBT   | SBR |
|-------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-------|-------|-----|
| Minimum Split (s)       | 11.9  | 19.4  | 19.4  | 11.9  | 19.4  | 19.4  | 13.2  | 13.2  |     | 13.2  | 13.2  |     |
| Total Split (s)         | 18.0  | 54.0  | 54.0  | 20.0  | 56.0  | 56.0  | 36.0  | 36.0  |     | 36.0  | 36.0  |     |
| Total Split (%)         | 16.4% | 49.1% | 49.1% | 18.2% | 50.9% | 50.9% | 32.7% | 32.7% |     | 32.7% | 32.7% |     |
| Maximum Green (s)       | 11.1  | 46.6  | 46.6  | 13.1  | 48.6  | 48.6  | 29.8  | 29.8  |     | 29.8  | 29.8  |     |
| Yellow Time (s)         | 4.3   | 4.8   | 4.8   | 4.3   | 4.8   | 4.8   | 3.2   | 3.2   |     | 3.2   | 3.2   |     |
| All-Red Time (s)        | 2.6   | 2.6   | 2.6   | 2.6   | 2.6   | 2.6   | 3.0   | 3.0   |     | 3.0   | 3.0   |     |
| 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)     | 6.9   | 7.4   | 7.4   | 6.9   | 7.4   | 7.4   | 6.2   | 6.2   |     | 6.2   | 6.2   |     |
| Lead/Lag                | Lead  | Lag   | Lag   | Lead  | Lag   | Lag   |       |       |     |       |       |     |
| Lead-Lag Optimize?      | Yes   | 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   |     |
| Minimum Gap (s)         | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   |     | 3.0   | 3.0   |     |
| Time Before Reduce (s)  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |     | 0.0   | 0.0   |     |
| Time To Reduce (s)      | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |     | 0.0   | 0.0   |     |
| Recall Mode             | None  | C-Max | C-Max | None  | C-Max | C-Max | None  | None  |     | None  | None  |     |
| Walk Time (s)           |       |       |       |       |       |       |       |       |     |       |       |     |
| Flash Dont Walk (s)     |       |       |       |       |       |       |       |       |     |       |       |     |
| Pedestrian Calls (#/hr) |       |       |       |       |       |       |       |       |     |       |       |     |
| Act Effct Green (s)     | 6.0   | 82.2  | 82.2  | 6.3   | 82.3  | 82.3  |       | 11.3  |     | 11.3  |       |     |
| Actuated g/C Ratio      | 0.05  | 0.75  | 0.75  | 0.06  | 0.75  | 0.75  |       | 0.10  |     | 0.10  |       |     |
| v/c Ratio               | 0.07  | 0.29  | 0.06  | 0.11  | 0.22  | 0.00  |       | 0.59  |     | 0.12  |       |     |
| Control Delay           | 58.4  | 3.1   | 0.3   | 51.1  | 5.2   | 0.0   |       | 46.1  |     | 22.2  |       |     |
| Queue Delay             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |       | 0.0   |     | 0.0   |       |     |
| Total Delay             | 58.4  | 3.1   | 0.3   | 51.1  | 5.2   | 0.0   |       | 46.1  |     | 22.2  |       |     |
| LOS                     | E     | A     | A     | D     | A     | A     |       | D     |     | C     |       |     |
| Approach Delay          |       | 3.3   |       |       | 5.9   |       |       | 46.1  |     | 22.2  |       |     |
| Approach LOS            |       | A     |       |       | A     |       |       | D     |     | C     |       |     |
| 90th %ile Green (s)     | 7.0   | 65.3  | 65.3  | 7.6   | 65.9  | 65.9  | 16.6  | 16.6  |     | 16.6  | 16.6  |     |
| 90th %ile Term Code     | Gap   | Coord | Coord | Gap   | Coord | Coord | Gap   | Gap   |     | Hold  | Hold  |     |
| 70th %ile Green (s)     | 0.0   | 83.1  | 83.1  | 0.0   | 83.1  | 83.1  | 13.3  | 13.3  |     | 13.3  | 13.3  |     |
| 70th %ile Term Code     | Skip  | Coord | Coord | Skip  | Coord | Coord | Gap   | Gap   |     | Hold  | Hold  |     |
| 50th %ile Green (s)     | 0.0   | 85.4  | 85.4  | 0.0   | 85.4  | 85.4  | 11.0  | 11.0  |     | 11.0  | 11.0  |     |
| 50th %ile Term Code     | Skip  | Coord | Coord | Skip  | Coord | Coord | Gap   | Gap   |     | Hold  | Hold  |     |
| 30th %ile Green (s)     | 0.0   | 87.8  | 87.8  | 0.0   | 87.8  | 87.8  | 8.6   | 8.6   |     | 8.6   | 8.6   |     |
| 30th %ile Term Code     | Skip  | Coord | Coord | Skip  | Coord | Coord | Gap   | Gap   |     | Hold  | Hold  |     |
| 10th %ile Green (s)     | 0.0   | 89.4  | 89.4  | 0.0   | 89.4  | 89.4  | 7.0   | 7.0   |     | 7.0   | 7.0   |     |
| 10th %ile Term Code     | Skip  | Coord | Coord | Skip  | Coord | Coord | Min   | Min   |     | Hold  | Hold  |     |
| Stops (vph)             | 9     | 108   | 1     | 12    | 222   | 0     |       | 53    |     | 8     |       |     |
| Fuel Used(gal)          | 0     | 6     | 0     | 0     | 10    | 0     |       | 1     |     | 0     |       |     |
| CO Emissions (g/hr)     | 18    | 417   | 24    | 27    | 702   | 1     |       | 103   |     | 19    |       |     |
| NOx Emissions (g/hr)    | 4     | 81    | 5     | 5     | 137   | 0     |       | 20    |     | 4     |       |     |
| VOC Emissions (g/hr)    | 4     | 97    | 6     | 6     | 163   | 0     |       | 24    |     | 4     |       |     |
| Dilemma Vehicles (#)    | 0     | 42    | 0     | 0     | 35    | 0     |       | 0     |     | 0     |       |     |
| Queue Length 50th (ft)  | 5     | 36    | 0     | 8     | 48    | 0     |       | 50    |     | 3     |       |     |
| Queue Length 95th (ft)  | m20   | 75    | 1     | 27    | 121   | 0     |       | 80    |     | 21    |       |     |
| Internal Link Dist (ft) |       | 733   |       |       | 334   |       |       | 696   |     | 948   |       |     |
| Turn Bay Length (ft)    | 200   |       | 200   |       | 250   |       |       |       |     |       |       |     |
| Base Capacity (vph)     | 186   | 2713  | 1193  | 220   | 3944  | 1265  |       | 416   |     | 479   |       |     |
| Starvation Cap Reductn  | 0     | 0     | 0     | 0     | 0     | 0     |       | 0     |     | 0     |       |     |

## Lanes, Volumes, Timings

### 3: S. Banana River Dr/Milford Point Dr & SR 520



| Lane Group            | EBL  | EBT  | EBR  | WBL  | WBT  | WBR  | NBL | NBT  | NBR | SBL | SBT  | SBR |
|-----------------------|------|------|------|------|------|------|-----|------|-----|-----|------|-----|
| Spillback Cap Reductn | 0    | 0    | 0    | 0    | 0    | 0    | 0   | 0    | 0   | 0   | 0    | 0   |
| Storage Cap Reductn   | 0    | 0    | 0    | 0    | 0    | 0    | 0   | 0    | 0   | 0   | 0    | 0   |
| Reduced v/c Ratio     | 0.04 | 0.29 | 0.06 | 0.05 | 0.22 | 0.00 |     | 0.25 |     |     | 0.05 |     |

#### Intersection Summary

Area Type: Other

Cycle Length: 110

Actuated Cycle Length: 110

Offset: 84 (76%), Referenced to phase 2:WBT and 6:EBT, Start of Yellow

Natural Cycle: 50

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 0.59

Intersection Signal Delay: 7.2

Intersection LOS: A

Intersection Capacity Utilization 42.4%

ICU Level of Service A

Analysis Period (min) 15

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

Splits and Phases: 3: S. Banana River Dr/Milford Point Dr & SR 520



## Lanes, Volumes, Timings

### 1: Newfound Harbor Dr/Walmart & SR 520

| Lane Group                 | EBL   | EBT  | EBR   | WBL   | WBT  | WBR   | NBL   | NBT  | NBR   | SBL   | SBT  | SBR   |
|----------------------------|-------|------|-------|-------|------|-------|-------|------|-------|-------|------|-------|
| Lane Configurations        |       |      |       |       |      |       |       |      |       |       |      |       |
| Volume (vph)               | 194   | 1019 | 165   | 55    | 1140 | 99    | 169   | 17   | 61    | 192   | 21   | 198   |
| Ideal Flow (vphpl)         | 1950  | 1950 | 1950  | 1950  | 1950 | 1950  | 1950  | 1950 | 1950  | 1950  | 1950 | 1950  |
| Lane Width (ft)            | 12    | 12   | 12    | 12    | 12   | 12    | 12    | 12   | 12    | 12    | 12   | 12    |
| Grade (%)                  | 0%    |      |       | 0%    |      |       | 0%    |      |       | 0%    |      | 0%    |
| Storage Length (ft)        | 300   |      | 200   | 240   |      | 0     | 125   |      | 0     | 0     |      | 0     |
| Storage Lanes              | 1     |      | 1     | 1     |      | 1     | 1     |      | 0     | 1     |      | 0     |
| Taper Length (ft)          | 100   |      |       | 25    |      |       | 300   |      |       | 25    |      |       |
| Lane Util. Factor          | 1.00  | 0.91 | 1.00  | 1.00  | 0.91 | 1.00  | 1.00  | 1.00 | 1.00  | 1.00  | 1.00 | 1.00  |
| Ped Bike Factor            |       |      |       |       |      |       |       |      |       |       |      |       |
| Fr <sub>t</sub>            |       |      | 0.850 |       |      | 0.850 |       |      | 0.882 |       |      | 0.864 |
| Flt Protected              | 0.950 |      |       | 0.950 |      |       | 0.950 |      |       | 0.950 |      |       |
| Satd. Flow (prot)          | 1834  | 5219 | 1658  | 1852  | 5271 | 1658  | 1834  | 1720 | 0     | 1834  | 1655 | 0     |
| Flt Permitted              | 0.950 |      |       | 0.950 |      |       | 0.222 |      |       | 0.697 |      |       |
| Satd. Flow (perm)          | 1834  | 5219 | 1658  | 1852  | 5271 | 1658  | 429   | 1720 | 0     | 1346  | 1655 | 0     |
| Right Turn on Red          |       |      | Yes   |       |      | Yes   |       |      | Yes   |       |      | Yes   |
| Satd. Flow (RTOR)          |       |      | 264   |       |      | 264   |       |      | 73    |       |      | 248   |
| Link Speed (mph)           |       | 50   |       |       | 50   |       |       | 30   |       |       | 30   |       |
| Link Distance (ft)         |       | 1003 |       |       | 630  |       |       | 1067 |       |       | 629  |       |
| Travel Time (s)            |       | 13.7 |       |       | 8.6  |       |       | 24.3 |       |       | 14.3 |       |
| Confl. Peds. (#/hr)        |       |      |       |       |      |       |       |      |       |       |      |       |
| Confl. Bikes (#/hr)        |       |      |       |       |      |       |       |      |       |       |      |       |
| Peak Hour Factor           | 0.96  | 0.96 | 0.96  | 0.94  | 0.94 | 0.94  | 0.83  | 0.83 | 0.83  | 0.80  | 0.80 | 0.80  |
| Growth Factor              | 100%  | 100% | 100%  | 100%  | 100% | 100%  | 100%  | 100% | 100%  | 100%  | 100% | 100%  |
| Heavy Vehicles (%)         | 1%    | 2%   | 0%    | 0%    | 1%   | 0%    | 1%    | 0%   | 0%    | 1%    | 0%   | 2%    |
| Bus Blockages (#/hr)       | 0     | 0    | 0     | 0     | 0    | 0     | 0     | 0    | 0     | 0     | 0    | 0     |
| Parking (#/hr)             |       |      |       |       |      |       |       |      |       |       |      |       |
| Mid-Block Traffic (%)      |       | 0%   |       |       | 0%   |       |       | 0%   |       |       | 0%   |       |
| Adj. Flow (vph)            | 202   | 1061 | 172   | 59    | 1213 | 105   | 204   | 20   | 73    | 240   | 26   | 248   |
| Shared Lane Traffic (%)    |       |      |       |       |      |       |       |      |       |       |      |       |
| Lane Group Flow (vph)      | 202   | 1061 | 172   | 59    | 1213 | 105   | 204   | 93   | 0     | 240   | 274  | 0     |
| Enter Blocked Intersection | No    | No   | No    |
| Lane Alignment             | Left  | Left | Right |
| Median Width(ft)           |       | 12   |       |       | 12   |       |       | 12   |       |       | 12   |       |
| Link Offset(ft)            |       | 0    |       |       | 0    |       |       | 0    |       |       | 0    |       |
| Crosswalk Width(ft)        |       | 16   |       |       | 16   |       |       | 16   |       |       | 16   |       |
| Two way Left Turn Lane     |       |      |       |       | Yes  |       |       |      |       |       |      |       |
| Headway 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  |
| Turning Speed (mph)        | 15    |      | 9     | 15    |      | 9     | 15    |      | 9     | 15    |      | 9     |
| Number of Detectors        | 1     | 2    | 1     | 1     | 2    | 1     | 1     | 2    |       | 1     | 2    |       |
| Detector Template          | Left  | Thru | Right | Left  | Thru | Right | Left  | Thru |       | Left  | Thru |       |
| Leading Detector (ft)      | 20    | 100  | 20    | 20    | 100  | 20    | 20    | 100  |       | 20    | 100  |       |
| Trailing Detector (ft)     | 0     | 0    | 0     | 0     | 0    | 0     | 0     | 0    |       | 0     | 0    |       |
| Turn Type                  | Prot  | NA   | Perm  | Prot  | NA   | Perm  | pm+pt | NA   |       | pm+pt | NA   |       |
| Protected Phases           | 1     | 6    |       | 5     | 2    |       | 7     | 4    |       | 3     | 8    |       |
| Permitted Phases           |       |      | 6     |       |      | 2     | 4     |      |       | 8     |      |       |
| Detector Phase             | 1     | 6    | 6     | 5     | 2    | 2     | 7     | 4    |       | 3     | 8    |       |
| Switch Phase               |       |      |       |       |      |       |       |      |       |       |      |       |
| Minimum Initial (s)        | 5.0   | 12.0 | 12.0  | 5.0   | 12.0 | 12.0  | 5.0   | 7.0  |       | 5.0   | 7.0  |       |

## Lanes, Volumes, Timings

### 1: Newfound Harbor Dr/Walmart & SR 520

| Lane Group              | EBL   | EBT   | EBR   | WBL   | WBT   | WBR   | NBL   | NBT   | NBR | SBL   | SBT   | SBR |
|-------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-------|-------|-----|
| Minimum Split (s)       | 12.4  | 19.4  | 19.4  | 12.4  | 19.4  | 19.4  | 12.4  | 14.4  |     | 12.4  | 14.4  |     |
| Total Split (s)         | 19.0  | 28.0  | 28.0  | 17.0  | 26.0  | 26.0  | 27.0  | 52.0  |     | 13.0  | 38.0  |     |
| Total Split (%)         | 17.3% | 25.5% | 25.5% | 15.5% | 23.6% | 23.6% | 24.5% | 47.3% |     | 11.8% | 34.5% |     |
| Maximum Green (s)       | 11.6  | 20.6  | 20.6  | 9.6   | 18.6  | 18.6  | 19.6  | 44.6  |     | 5.6   | 30.6  |     |
| Yellow Time (s)         | 4.8   | 4.8   | 4.8   | 4.8   | 4.8   | 4.8   | 3.7   | 3.7   |     | 3.7   | 3.7   |     |
| All-Red Time (s)        | 2.6   | 2.6   | 2.6   | 2.6   | 2.6   | 2.6   | 3.7   | 3.7   |     | 3.7   | 3.7   |     |
| 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)     | 7.4   | 7.4   | 7.4   | 7.4   | 7.4   | 7.4   | 7.4   | 7.4   |     | 7.4   | 7.4   |     |
| Lead/Lag                | Lead  | Lag   | Lag   | Lead  | Lag   | Lag   | Lead  | Lag   |     | Lead  | Lag   |     |
| Lead-Lag Optimize?      | Yes   |     | Yes   | Yes   |     |
| Vehicle Extension (s)   | 5.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   |     | 3.0   | 3.0   |     |
| Minimum Gap (s)         | 5.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   |     | 3.0   | 3.0   |     |
| Time Before Reduce (s)  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |     | 0.0   | 0.0   |     |
| Time To Reduce (s)      | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |     | 0.0   | 0.0   |     |
| Recall Mode             | None  | C-Max | C-Max | None  | C-Max | C-Max | None  | None  |     | None  | None  |     |
| Walk Time (s)           |       |       |       |       |       |       |       |       |     |       |       |     |
| Flash Dont Walk (s)     |       |       |       |       |       |       |       |       |     |       |       |     |
| Pedestrian Calls (#/hr) |       |       |       |       |       |       |       |       |     |       |       |     |
| Act Effct Green (s)     | 22.5  | 48.0  | 48.0  | 8.9   | 31.8  | 31.8  | 30.6  | 19.4  |     | 18.1  | 9.9   |     |
| Actuated g/C Ratio      | 0.20  | 0.44  | 0.44  | 0.08  | 0.29  | 0.29  | 0.28  | 0.18  |     | 0.16  | 0.09  |     |
| v/c Ratio               | 0.54  | 0.47  | 0.20  | 0.40  | 0.80  | 0.16  | 0.63  | 0.26  |     | 0.91  | 0.73  |     |
| Control Delay           | 44.9  | 25.3  | 0.6   | 46.1  | 43.0  | 4.0   | 38.6  | 12.8  |     | 76.9  | 20.2  |     |
| Queue Delay             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |     | 0.0   | 0.0   |     |
| Total Delay             | 44.9  | 25.3  | 0.6   | 46.1  | 43.0  | 4.0   | 38.6  | 12.8  |     | 76.9  | 20.2  |     |
| LOS                     | D     | C     | A     | D     | D     | A     | D     | B     |     | E     | C     |     |
| Approach Delay          |       | 25.1  |       |       | 40.1  |       |       | 30.6  |     |       | 46.7  |     |
| Approach LOS            |       | C     |       |       | D     |       |       | C     |     |       | D     |     |
| 90th %ile Green (s)     | 24.4  | 31.9  | 31.9  | 12.1  | 19.6  | 19.6  | 19.6  | 30.8  |     | 5.6   | 16.8  |     |
| 90th %ile Term Code     | Gap   | Coord | Coord | Gap   | Coord | Coord | Max   | Hold  |     | Max   | Gap   |     |
| 70th %ile Green (s)     | 22.9  | 39.6  | 39.6  | 10.2  | 26.9  | 26.9  | 19.3  | 25.0  |     | 5.6   | 11.3  |     |
| 70th %ile Term Code     | Gap   | Coord | Coord | Gap   | Coord | Coord | Gap   | Hold  |     | Max   | Gap   |     |
| 50th %ile Green (s)     | 22.2  | 47.4  | 47.4  | 8.9   | 34.1  | 34.1  | 16.7  | 18.5  |     | 5.6   | 7.4   |     |
| 50th %ile Term Code     | Gap   | Coord | Coord | Gap   | Coord | Coord | Gap   | Hold  |     | Max   | Gap   |     |
| 30th %ile Green (s)     | 21.7  | 51.8  | 51.8  | 7.5   | 37.6  | 37.6  | 14.1  | 15.5  |     | 5.6   | 7.0   |     |
| 30th %ile Term Code     | Gap   | Coord | Coord | Gap   | Coord | Coord | Gap   | Hold  |     | Max   | Min   |     |
| 10th %ile Green (s)     | 21.4  | 69.4  | 69.4  | 0.0   | 40.6  | 40.6  | 11.4  | 0.0   |     | 25.8  | 7.0   |     |
| 10th %ile Term Code     | Gap   | Coord | Coord | Skip  | Coord | Coord | Gap   | Skip  |     | Hold  | Min   |     |
| Stops (vph)             | 169   | 720   | 1     | 46    | 995   | 19    | 128   | 21    |     | 191   | 41    |     |
| Fuel Used(gal)          | 6     | 23    | 1     | 1     | 30    | 1     | 3     | 1     |     | 5     | 2     |     |
| CO Emissions (g/hr)     | 391   | 1593  | 76    | 101   | 2083  | 54    | 241   | 67    |     | 350   | 154   |     |
| NOx Emissions (g/hr)    | 76    | 310   | 15    | 20    | 405   | 10    | 47    | 13    |     | 68    | 30    |     |
| VOC Emissions (g/hr)    | 91    | 369   | 18    | 23    | 483   | 12    | 56    | 16    |     | 81    | 36    |     |
| Dilemma Vehicles (#)    | 0     | 46    | 0     | 0     | 12    | 0     | 0     | 0     |     | 0     | 0     |     |
| Queue Length 50th (ft)  | 129   | 191   | 0     | 40    | 320   | 9     | 116   | 12    |     | ~150  | 18    |     |
| Queue Length 95th (ft)  | 200   | 295   | 1     | 62    | #509  | 27    | 139   | 43    |     | #164  | 62    |     |
| Internal Link Dist (ft) |       | 923   |       |       | 550   |       |       | 987   |     |       | 549   |     |
| Turn Bay Length (ft)    | 300   |       | 200   | 240   |       |       | 125   |       |     |       |       |     |
| Base Capacity (vph)     | 375   | 2278  | 872   | 171   | 1521  | 666   | 376   | 740   |     | 264   | 639   |     |
| Starvation Cap Reductn  | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |     | 0     | 0     |     |

## Lanes, Volumes, Timings

### 1: Newfound Harbor Dr/Walmart & SR 520



| Lane Group            | EBL  | EBT  | EBR  | WBL  | WBT  | WBR  | NBL  | NBT  | NBR  | SBL  | SBT | SBR |
|-----------------------|------|------|------|------|------|------|------|------|------|------|-----|-----|
| Spillback Cap Reductn | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0   | 0   |
| Storage Cap Reductn   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0   | 0   |
| Reduced v/c Ratio     | 0.54 | 0.47 | 0.20 | 0.35 | 0.80 | 0.16 | 0.54 | 0.13 | 0.91 | 0.43 |     |     |

#### Intersection Summary

Area Type: Other

Cycle Length: 110

Actuated Cycle Length: 110

Offset: 78 (71%), Referenced to phase 2:WBT and 6:EBT, Start of Yellow

Natural Cycle: 80

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 0.91

Intersection Signal Delay: 34.3

Intersection LOS: C

Intersection Capacity Utilization 78.7%

ICU Level of Service D

Analysis Period (min) 15

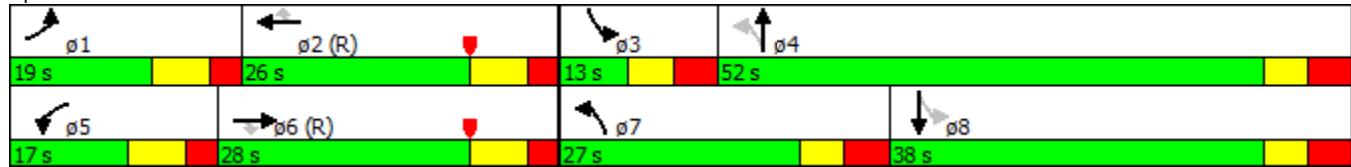
~ Volume exceeds capacity, queue is theoretically infinite.

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: 1: Newfound Harbor Dr/Walmart & SR 520



Lanes, Volumes, Timings  
2: Dodge/N. Banana River Dr & SR 520

|                            | EBL   | EBT   | EBR   | WBL   | WBT  | WBR   | NBL   | NBT   | NBR   | SBL   | SBT   | SBR   |
|----------------------------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|
| Lane Configurations        | ↑     | ↑↑↓   |       | ↑     | ↑↑↑  | ↑     | ↑     | ↑     |       | ↑     | ↑     |       |
| Volume (vph)               | 168   | 1009  | 17    | 11    | 1053 | 116   | 18    | 0     | 8     | 99    | 3     | 180   |
| Ideal Flow (vphpl)         | 1950  | 1950  | 1950  | 1950  | 1950 | 1950  | 1950  | 1950  | 1950  | 1950  | 1950  | 1950  |
| Lane Width (ft)            | 12    | 12    | 12    | 12    | 12   | 12    | 12    | 12    | 12    | 12    | 12    | 12    |
| Grade (%)                  | 0%    |       |       | 0%    |      |       | 0%    |       |       | 0%    |       | 0%    |
| Storage Length (ft)        | 400   |       | 0     | 100   |      | 700   | 0     |       | 0     | 0     |       | 100   |
| Storage Lanes              | 1     |       | 0     | 1     |      | 1     | 1     |       | 0     | 1     |       | 1     |
| Taper Length (ft)          | 25    |       |       | 25    |      |       | 25    |       |       | 25    |       |       |
| Lane Util. Factor          | 1.00  | 0.91  | 0.91  | 1.00  | 0.91 | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  |
| Ped Bike Factor            |       |       |       |       |      |       |       |       |       |       |       |       |
| Frt                        |       | 0.998 |       |       |      | 0.850 |       | 0.850 |       |       | 0.852 |       |
| Flt Protected              | 0.950 |       |       | 0.950 |      |       | 0.950 |       |       | 0.950 |       |       |
| Satd. Flow (prot)          | 1834  | 5261  | 0     | 1852  | 5271 | 1658  | 1852  | 1658  | 0     | 1834  | 1614  | 0     |
| Flt Permitted              | 0.950 |       |       | 0.950 |      |       | 0.326 |       |       | 0.750 |       |       |
| Satd. Flow (perm)          | 1834  | 5261  | 0     | 1852  | 5271 | 1658  | 636   | 1658  | 0     | 1448  | 1614  | 0     |
| Right Turn on Red          |       |       | Yes   |       |      | Yes   |       |       | Yes   |       |       | Yes   |
| Satd. Flow (RTOR)          |       | 3     |       |       |      | 161   |       | 241   |       |       | 205   |       |
| Link Speed (mph)           | 50    |       |       | 50    |      |       | 30    |       |       | 25    |       |       |
| Link Distance (ft)         | 712   |       |       | 813   |      |       | 547   |       |       | 1044  |       |       |
| Travel Time (s)            |       | 9.7   |       |       | 11.1 |       |       | 12.4  |       |       | 28.5  |       |
| Confl. Peds. (#/hr)        |       |       |       |       |      |       |       |       |       |       |       |       |
| Confl. Bikes (#/hr)        |       |       |       |       |      |       |       |       |       |       |       |       |
| Peak Hour Factor           | 0.98  | 0.98  | 0.98  | 0.95  | 0.95 | 0.95  | 0.65  | 0.65  | 0.65  | 0.88  | 0.88  | 0.88  |
| Growth Factor              | 100%  | 100%  | 100%  | 100%  | 100% | 100%  | 100%  | 100%  | 100%  | 100%  | 100%  | 100%  |
| Heavy Vehicles (%)         | 1%    | 1%    | 0%    | 0%    | 1%   | 0%    | 0%    | 0%    | 0%    | 1%    | 0%    | 3%    |
| Bus Blockages (#/hr)       | 0     | 0     | 0     | 0     | 0    | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Parking (#/hr)             |       |       |       |       |      |       |       |       |       |       |       |       |
| Mid-Block Traffic (%)      |       | 0%    |       |       | 0%   |       |       | 0%    |       |       | 0%    |       |
| Adj. Flow (vph)            | 171   | 1030  | 17    | 12    | 1108 | 122   | 28    | 0     | 12    | 112   | 3     | 205   |
| Shared Lane Traffic (%)    |       |       |       |       |      |       |       |       |       |       |       |       |
| Lane Group Flow (vph)      | 171   | 1047  | 0     | 12    | 1108 | 122   | 28    | 12    | 0     | 112   | 208   | 0     |
| Enter Blocked Intersection | No    | No    | No    | No    | No   | No    | No    | No    | No    | No    | No    | No    |
| Lane Alignment             | Left  | Left  | Right | Left  | Left | Right | Left  | Left  | Right | Left  | Left  | Right |
| Median Width(ft)           | 12    |       |       | 12    |      |       | 12    |       |       | 12    |       |       |
| Link Offset(ft)            | 0     |       |       | 0     |      |       | 0     |       |       | 0     |       |       |
| Crosswalk Width(ft)        | 16    |       |       | 16    |      |       | 16    |       |       | 16    |       |       |
| Two way Left Turn Lane     |       | Yes   |       |       | Yes  |       |       |       |       |       |       |       |
| Headway 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  |
| Turning Speed (mph)        | 15    |       | 9     | 15    |      | 9     | 15    |       | 9     | 15    |       | 9     |
| Number of Detectors        | 1     | 2     |       | 1     | 2    | 1     | 1     | 2     |       | 1     | 2     |       |
| Detector Template          | Left  | Thru  |       | Left  | Thru | Right | Left  | Thru  |       | Left  | Thru  |       |
| Leading Detector (ft)      | 20    | 100   |       | 20    | 100  | 20    | 20    | 100   |       | 20    | 100   |       |
| Trailing Detector (ft)     | 0     | 0     |       | 0     | 0    | 0     | 0     | 0     |       | 0     | 0     |       |
| Turn Type                  | Prot  | NA    |       | Prot  | NA   | Perm  | Perm  | NA    |       | Perm  | NA    |       |
| Protected Phases           | 1     | 6     |       | 5     | 2    |       |       | 4     |       |       | 8     |       |
| Permitted Phases           |       |       |       |       |      | 2     | 4     |       |       | 8     |       |       |
| Detector Phase             | 1     | 6     |       | 5     | 2    | 2     | 4     | 4     |       | 8     | 8     |       |
| Switch Phase               |       |       |       |       |      |       |       |       |       |       |       |       |
| Minimum Initial (s)        | 5.0   | 12.0  |       | 5.0   | 12.0 | 12.0  | 7.0   | 7.0   |       | 7.0   | 7.0   |       |

Lanes, Volumes, Timings  
2: Dodge/N. Banana River Dr & SR 520

|                         | ↙     | →     | ↘   | ↖     | ←     | ↗     | ↖     | ↑     | ↗   | ↘     | ↓     | ↖   |
|-------------------------|-------|-------|-----|-------|-------|-------|-------|-------|-----|-------|-------|-----|
| Lane Group              | EBL   | EBT   | EBR | WBL   | WBT   | WBR   | NBL   | NBT   | NBR | SBL   | SBT   | SBR |
| Minimum Split (s)       | 11.6  | 19.1  |     | 11.6  | 19.1  | 19.1  | 13.0  | 13.0  |     | 13.0  | 13.0  |     |
| Total Split (s)         | 35.0  | 69.0  |     | 16.0  | 50.0  | 50.0  | 25.0  | 25.0  |     | 25.0  | 25.0  |     |
| Total Split (%)         | 31.8% | 62.7% |     | 14.5% | 45.5% | 45.5% | 22.7% | 22.7% |     | 22.7% | 22.7% |     |
| Maximum Green (s)       | 28.4  | 61.9  |     | 9.4   | 42.9  | 42.9  | 19.0  | 19.0  |     | 19.0  | 19.0  |     |
| Yellow Time (s)         | 4.3   | 4.8   |     | 4.3   | 4.8   | 4.8   | 3.0   | 3.0   |     | 3.0   | 3.0   |     |
| All-Red Time (s)        | 2.3   | 2.3   |     | 2.3   | 2.3   | 2.3   | 3.0   | 3.0   |     | 3.0   | 3.0   |     |
| 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)     | 6.6   | 7.1   |     | 6.6   | 7.1   | 7.1   | 6.0   | 6.0   |     | 6.0   | 6.0   |     |
| Lead/Lag                | Lead  | Lag   |     | Lead  | Lag   | 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   |     |
| Minimum Gap (s)         | 3.0   | 3.0   |     | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   |     | 3.0   | 3.0   |     |
| Time Before Reduce (s)  | 0.0   | 0.0   |     | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |     | 0.0   | 0.0   |     |
| Time To Reduce (s)      | 0.0   | 0.0   |     | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |     | 0.0   | 0.0   |     |
| Recall Mode             | None  | C-Max |     | None  | C-Max | C-Max | None  | None  |     | None  | None  |     |
| Walk Time (s)           |       |       |     |       |       |       |       |       |     |       |       |     |
| Flash Dont Walk (s)     |       |       |     |       |       |       |       |       |     |       |       |     |
| Pedestrian Calls (#/hr) |       |       |     |       |       |       |       |       |     |       |       |     |
| Act Effct Green (s)     | 15.6  | 80.4  |     | 6.3   | 61.1  | 61.1  | 13.7  | 13.7  |     | 13.7  | 13.7  |     |
| Actuated g/C Ratio      | 0.14  | 0.73  |     | 0.06  | 0.56  | 0.56  | 0.12  | 0.12  |     | 0.12  | 0.12  |     |
| v/c Ratio               | 0.66  | 0.27  |     | 0.11  | 0.38  | 0.12  | 0.36  | 0.03  |     | 0.63  | 0.55  |     |
| Control Delay           | 38.0  | 9.5   |     | 52.2  | 10.5  | 0.4   | 55.2  | 0.1   |     | 60.2  | 11.8  |     |
| Queue Delay             | 0.0   | 0.0   |     | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |     | 0.0   | 0.0   |     |
| Total Delay             | 38.0  | 9.5   |     | 52.2  | 10.5  | 0.4   | 55.2  | 0.1   |     | 60.2  | 11.8  |     |
| LOS                     | D     | A     |     | D     | B     | A     | E     | A     |     | E     | B     |     |
| Approach Delay          |       | 13.5  |     |       | 9.9   |       |       | 38.7  |     |       | 28.7  |     |
| Approach LOS            |       | B     |     |       | A     |       |       | D     |     |       | C     |     |
| 90th %ile Green (s)     | 21.2  | 63.7  |     | 7.6   | 50.1  | 50.1  | 19.0  | 19.0  |     | 19.0  | 19.0  |     |
| 90th %ile Term Code     | Gap   | Coord |     | Gap   | Coord | Coord | Hold  | Hold  |     | Max   | Max   |     |
| 70th %ile Green (s)     | 17.9  | 80.8  |     | 0.0   | 56.3  | 56.3  | 16.1  | 16.1  |     | 16.1  | 16.1  |     |
| 70th %ile Term Code     | Gap   | Coord |     | Skip  | Coord | Coord | Hold  | Hold  |     | Gap   | Gap   |     |
| 50th %ile Green (s)     | 15.6  | 83.1  |     | 0.0   | 60.9  | 60.9  | 13.8  | 13.8  |     | 13.8  | 13.8  |     |
| 50th %ile Term Code     | Gap   | Coord |     | Skip  | Coord | Coord | Hold  | Hold  |     | Gap   | Gap   |     |
| 30th %ile Green (s)     | 13.2  | 85.5  |     | 0.0   | 65.7  | 65.7  | 11.4  | 11.4  |     | 11.4  | 11.4  |     |
| 30th %ile Term Code     | Gap   | Coord |     | Skip  | Coord | Coord | Hold  | Hold  |     | Gap   | Gap   |     |
| 10th %ile Green (s)     | 9.9   | 88.9  |     | 0.0   | 72.4  | 72.4  | 8.0   | 8.0   |     | 8.0   | 8.0   |     |
| 10th %ile Term Code     | Gap   | Coord |     | Skip  | Coord | Coord | Hold  | Hold  |     | Gap   | Gap   |     |
| Stops (vph)             | 144   | 631   |     | 12    | 320   | 1     | 17    | 0     |     | 92    | 26    |     |
| Fuel Used(gal)          | 4     | 16    |     | 0     | 13    | 1     | 0     | 0     |     | 2     | 2     |     |
| CO Emissions (g/hr)     | 298   | 1139  |     | 25    | 881   | 44    | 26    | 2     |     | 171   | 151   |     |
| NOx Emissions (g/hr)    | 58    | 222   |     | 5     | 171   | 8     | 5     | 0     |     | 33    | 29    |     |
| VOC Emissions (g/hr)    | 69    | 264   |     | 6     | 204   | 10    | 6     | 1     |     | 40    | 35    |     |
| Dilemma Vehicles (#)    | 0     | 8     |     | 0     | 44    | 0     | 0     | 0     |     | 0     | 0     |     |
| Queue Length 50th (ft)  | 118   | 184   |     | 9     | 93    | 0     | 18    | 0     |     | 76    | 2     |     |
| Queue Length 95th (ft)  | m100  | m263  |     | m25   | 110   | 3     | 33    | 0     |     | 127   | 62    |     |
| Internal Link Dist (ft) |       | 632   |     |       | 733   |       |       | 467   |     |       | 964   |     |
| Turn Bay Length (ft)    | 400   |       |     | 100   |       | 700   |       |       |     |       |       |     |
| Base Capacity (vph)     | 473   | 3846  |     | 158   | 2926  | 992   | 109   | 485   |     | 250   | 448   |     |
| Starvation Cap Reductn  | 0     | 0     |     | 0     | 0     | 0     | 0     | 0     |     | 0     | 0     |     |

Lanes, Volumes, Timings  
2: Dodge/N. Banana River Dr & SR 520



| Lane Group            | EBL  | EBT  | EBR | WBL  | WBT  | WBR  | NBL  | NBT  | NBR | SBL  | SBT  | SBR |
|-----------------------|------|------|-----|------|------|------|------|------|-----|------|------|-----|
| 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     | 0.36 | 0.27 |     | 0.08 | 0.38 | 0.12 | 0.26 | 0.02 |     | 0.45 | 0.46 |     |

Intersection Summary

Area Type: Other

Cycle Length: 110

Actuated Cycle Length: 110

Offset: 40 (36%), Referenced to phase 2:WBT and 6:EBT, Start of Yellow

Natural Cycle: 60

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 0.66

Intersection Signal Delay: 14.0

Intersection LOS: B

Intersection Capacity Utilization 59.9%

ICU Level of Service B

Analysis Period (min) 15

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

Splits and Phases: 2: Dodge/N. Banana River Dr & SR 520



## Lanes, Volumes, Timings

### 3: S. Banana River Dr/Milford Point Dr & SR 520

| Lane Group                 | EBL   | EBT  | EBR   | WBL   | WBT  | WBR   | NBL  | NBT   | NBR   | SBL  | SBT   | SBR   |
|----------------------------|-------|------|-------|-------|------|-------|------|-------|-------|------|-------|-------|
| Lane Configurations        |       |      |       |       |      |       |      |       |       |      |       |       |
| Volume (vph)               | 15    | 1030 | 75    | 23    | 1118 | 9     | 83   | 1     | 26    | 2    | 1     | 13    |
| Ideal Flow (vphpl)         | 1950  | 1950 | 1950  | 1950  | 1950 | 1950  | 1950 | 1950  | 1950  | 1950 | 1950  | 1950  |
| Lane Width (ft)            | 12    | 12   | 12    | 12    | 12   | 12    | 12   | 12    | 12    | 12   | 12    | 12    |
| Grade (%)                  |       | 0%   |       |       | 0%   |       |      | 0%    |       |      | 0%    |       |
| Storage Length (ft)        | 100   |      | 0     | 200   |      | 250   | 0    |       | 0     | 0    |       | 0     |
| Storage Lanes              | 1     |      | 1     | 1     |      | 1     | 0    |       | 0     | 0    |       | 0     |
| Taper Length (ft)          | 25    |      |       | 25    |      |       | 25   |       |       | 25   |       |       |
| Lane Util. Factor          | 1.00  | 0.95 | 1.00  | 1.00  | 0.91 | 1.00  | 1.00 | 1.00  | 1.00  | 1.00 | 1.00  | 1.00  |
| Ped Bike Factor            |       |      |       |       |      |       |      |       |       |      |       |       |
| Frt                        |       |      | 0.850 |       |      | 0.850 |      | 0.968 |       |      | 0.891 |       |
| Flt Protected              | 0.950 |      |       | 0.950 |      |       |      | 0.964 |       |      | 0.993 |       |
| Satd. Flow (prot)          | 1852  | 3632 | 1641  | 1852  | 5271 | 1658  | 0    | 1820  | 0     | 0    | 1725  | 0     |
| Flt Permitted              | 0.950 |      |       | 0.950 |      |       |      | 0.755 |       |      | 0.961 |       |
| Satd. Flow (perm)          | 1852  | 3632 | 1641  | 1852  | 5271 | 1658  | 0    | 1425  | 0     | 0    | 1670  | 0     |
| Right Turn on Red          |       |      | Yes   |       |      | Yes   |      |       | Yes   |      |       | Yes   |
| Satd. Flow (RTOR)          |       |      | 100   |       |      | 100   |      | 13    |       |      | 30    |       |
| Link Speed (mph)           | 50    |      |       | 50    |      |       | 25   |       |       | 25   |       |       |
| Link Distance (ft)         | 813   |      |       | 414   |      |       | 776  |       |       | 1028 |       |       |
| Travel Time (s)            | 11.1  |      |       | 5.6   |      |       | 21.2 |       |       | 28.0 |       |       |
| Confl. Peds. (#/hr)        |       |      |       |       |      |       |      |       |       |      |       |       |
| Confl. Bikes (#/hr)        |       |      |       |       |      |       |      |       |       |      |       |       |
| Peak Hour Factor           | 0.89  | 0.89 | 0.89  | 0.90  | 0.90 | 0.90  | 0.75 | 0.75  | 0.75  | 0.44 | 0.44  | 0.44  |
| Growth Factor              | 100%  | 100% | 100%  | 100%  | 100% | 100%  | 100% | 100%  | 100%  | 100% | 100%  | 100%  |
| Heavy Vehicles (%)         | 0%    | 2%   | 1%    | 0%    | 1%   | 0%    | 0%   | 0%    | 0%    | 0%   | 0%    | 0%    |
| Bus Blockages (#/hr)       | 0     | 0    | 0     | 0     | 0    | 0     | 0    | 0     | 0     | 0    | 0     | 0     |
| Parking (#/hr)             |       |      |       |       |      |       |      |       |       |      |       |       |
| Mid-Block Traffic (%)      |       | 0%   |       |       | 0%   |       |      | 0%    |       |      | 0%    |       |
| Adj. Flow (vph)            | 17    | 1157 | 84    | 26    | 1242 | 10    | 111  | 1     | 35    | 5    | 2     | 30    |
| Shared Lane Traffic (%)    |       |      |       |       |      |       |      |       |       |      |       |       |
| Lane Group Flow (vph)      | 17    | 1157 | 84    | 26    | 1242 | 10    | 0    | 147   | 0     | 0    | 37    | 0     |
| Enter Blocked Intersection | No    | No   | No    | No    | No   | No    | No   | No    | No    | No   | No    | No    |
| Lane Alignment             | Left  | Left | Right | Left  | Left | Right | Left | Left  | Right | Left | Left  | Right |
| Median Width(ft)           | 12    |      |       | 12    |      |       | 0    |       |       | 0    |       |       |
| Link Offset(ft)            | 0     |      |       | 0     |      |       | 0    |       |       | 0    |       |       |
| Crosswalk Width(ft)        | 16    |      |       | 16    |      |       | 16   |       |       | 16   |       |       |
| Two way Left Turn Lane     |       | Yes  |       |       | Yes  |       |      |       |       |      |       |       |
| Headway 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  |
| Turning Speed (mph)        | 15    |      | 9     | 15    |      | 9     | 15   |       | 9     | 15   |       | 9     |
| Number of Detectors        | 1     | 2    | 1     | 1     | 2    | 1     | 1    | 2     |       | 1    | 2     |       |
| Detector Template          | Left  | Thru | Right | Left  | Thru | Right | Left | Thru  |       | Left | Thru  |       |
| Leading Detector (ft)      | 20    | 100  | 20    | 20    | 100  | 20    | 20   | 100   |       | 20   | 100   |       |
| Trailing Detector (ft)     | 0     | 0    | 0     | 0     | 0    | 0     | 0    | 0     |       | 0    | 0     |       |
| Turn Type                  | Prot  | NA   | Perm  | Prot  | NA   | Perm  | Perm | NA    |       | Perm | NA    |       |
| Protected Phases           | 1     | 6    |       | 5     | 2    |       |      | 4     |       |      | 8     |       |
| Permitted Phases           |       |      |       | 6     |      |       | 2    | 4     |       |      | 8     |       |
| Detector Phase             | 1     | 6    | 6     | 5     | 2    | 2     | 4    | 4     |       | 8    | 8     |       |
| Switch Phase               |       |      |       |       |      |       |      |       |       |      |       |       |
| Minimum Initial (s)        | 5.0   | 12.0 | 12.0  | 5.0   | 12.0 | 12.0  | 7.0  | 7.0   |       | 7.0  | 7.0   |       |

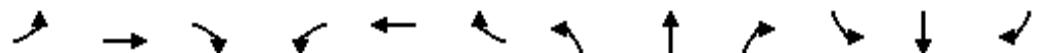
## Lanes, Volumes, Timings

### 3: S. Banana River Dr/Milford Point Dr & SR 520

| Lane Group              | EBL   | EBT   | EBR   | WBL   | WBT   | WBR   | NBL   | NBT   | NBR | SBL   | SBT   | SBR |
|-------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-------|-------|-----|
| Minimum Split (s)       | 11.9  | 19.4  | 19.4  | 11.9  | 19.4  | 19.4  | 13.2  | 13.2  |     | 13.2  | 13.2  |     |
| Total Split (s)         | 14.0  | 65.0  | 65.0  | 16.0  | 67.0  | 67.0  | 29.0  | 29.0  |     | 29.0  | 29.0  |     |
| Total Split (%)         | 12.7% | 59.1% | 59.1% | 14.5% | 60.9% | 60.9% | 26.4% | 26.4% |     | 26.4% | 26.4% |     |
| Maximum Green (s)       | 7.1   | 57.6  | 57.6  | 9.1   | 59.6  | 59.6  | 22.8  | 22.8  |     | 22.8  | 22.8  |     |
| Yellow Time (s)         | 4.3   | 4.8   | 4.8   | 4.3   | 4.8   | 4.8   | 3.2   | 3.2   |     | 3.2   | 3.2   |     |
| All-Red Time (s)        | 2.6   | 2.6   | 2.6   | 2.6   | 2.6   | 2.6   | 3.0   | 3.0   |     | 3.0   | 3.0   |     |
| 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)     | 6.9   | 7.4   | 7.4   | 6.9   | 7.4   | 7.4   | 6.2   |       |     | 6.2   |       |     |
| Lead/Lag                | Lead  | Lag   | Lag   | Lead  | Lag   | Lag   |       |       |     |       |       |     |
| Lead-Lag Optimize?      | Yes   | 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   |     |
| Minimum Gap (s)         | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   |     | 3.0   | 3.0   |     |
| Time Before Reduce (s)  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |     | 0.0   | 0.0   |     |
| Time To Reduce (s)      | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |     | 0.0   | 0.0   |     |
| Recall Mode             | None  | C-Max | C-Max | None  | C-Max | C-Max | None  | None  |     | None  | None  |     |
| Walk Time (s)           |       |       |       |       |       |       |       |       |     |       |       |     |
| Flash Dont Walk (s)     |       |       |       |       |       |       |       |       |     |       |       |     |
| Pedestrian Calls (#/hr) |       |       |       |       |       |       |       |       |     |       |       |     |
| Act Effct Green (s)     | 6.4   | 71.8  | 71.8  | 7.1   | 75.1  | 75.1  |       | 15.7  |     | 15.7  |       |     |
| Actuated g/C Ratio      | 0.06  | 0.65  | 0.65  | 0.06  | 0.68  | 0.68  |       | 0.14  |     | 0.14  |       |     |
| v/c Ratio               | 0.16  | 0.49  | 0.08  | 0.22  | 0.35  | 0.01  |       | 0.69  |     | 0.14  |       |     |
| Control Delay           | 58.5  | 17.5  | 3.8   | 52.6  | 9.2   | 0.0   |       | 56.4  |     | 17.3  |       |     |
| Queue Delay             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |       | 0.0   |     | 0.0   |       |     |
| Total Delay             | 58.5  | 17.5  | 3.8   | 52.6  | 9.2   | 0.0   |       | 56.4  |     | 17.3  |       |     |
| LOS                     | E     | B     | A     | D     | A     | A     |       | E     |     | B     |       |     |
| Approach Delay          |       | 17.1  |       |       | 10.0  |       |       | 56.4  |     | 17.3  |       |     |
| Approach LOS            |       | B     |       |       | A     |       |       | E     |     | B     |       |     |
| 90th %ile Green (s)     | 7.5   | 58.0  | 58.0  | 9.1   | 59.6  | 59.6  | 22.4  | 22.4  |     | 22.4  | 22.4  |     |
| 90th %ile Term Code     | Max   | Coord | Coord | Gap   | Coord | Coord | Gap   | Gap   |     | Hold  | Hold  |     |
| 70th %ile Green (s)     | 7.1   | 63.3  | 63.3  | 7.8   | 64.0  | 64.0  | 18.4  | 18.4  |     | 18.4  | 18.4  |     |
| 70th %ile Term Code     | Gap   | Coord | Coord | Gap   | Coord | Coord | Gap   | Gap   |     | Hold  | Hold  |     |
| 50th %ile Green (s)     | 0.0   | 66.8  | 66.8  | 7.0   | 80.7  | 80.7  | 15.7  | 15.7  |     | 15.7  | 15.7  |     |
| 50th %ile Term Code     | Skip  | Coord | Coord | Gap   | Coord | Coord | Gap   | Gap   |     | Hold  | Hold  |     |
| 30th %ile Green (s)     | 0.0   | 83.5  | 83.5  | 0.0   | 83.5  | 83.5  | 12.9  | 12.9  |     | 12.9  | 12.9  |     |
| 30th %ile Term Code     | Skip  | Coord | Coord | Skip  | Coord | Coord | Gap   | Gap   |     | Hold  | Hold  |     |
| 10th %ile Green (s)     | 0.0   | 87.5  | 87.5  | 0.0   | 87.5  | 87.5  | 8.9   | 8.9   |     | 8.9   | 8.9   |     |
| 10th %ile Term Code     | Skip  | Coord | Coord | Skip  | Coord | Coord | Gap   | Gap   |     | Hold  | Hold  |     |
| Stops (vph)             | 14    | 786   | 21    | 24    | 455   | 0     |       | 93    |     | 6     |       |     |
| Fuel Used(gal)          | 0     | 21    | 1     | 1     | 18    | 0     |       | 2     |     | 0     |       |     |
| CO Emissions (g/hr)     | 33    | 1471  | 54    | 55    | 1228  | 5     |       | 164   |     | 15    |       |     |
| NOx Emissions (g/hr)    | 6     | 286   | 10    | 11    | 239   | 1     |       | 32    |     | 3     |       |     |
| VOC Emissions (g/hr)    | 8     | 341   | 12    | 13    | 284   | 1     |       | 38    |     | 4     |       |     |
| Dilemma Vehicles (#)    | 0     | 4     | 0     | 0     | 51    | 0     |       | 0     |     | 0     |       |     |
| Queue Length 50th (ft)  | 8     | 405   | 19    | 18    | 96    | 0     |       | 91    |     | 4     |       |     |
| Queue Length 95th (ft)  | m36   | 458   | 14    | 46    | 219   | 0     |       | 120   |     | 6     |       |     |
| Internal Link Dist (ft) |       | 733   |       |       | 334   |       |       | 696   |     | 948   |       |     |
| Turn Bay Length (ft)    | 100   |       | 200   |       | 250   |       |       |       |     |       |       |     |
| Base Capacity (vph)     | 120   | 2371  | 1105  | 153   | 3596  | 1163  |       | 305   |     | 369   |       |     |
| Starvation Cap Reductn  | 0     | 0     | 0     | 0     | 0     | 0     |       | 0     |     | 0     |       |     |

## Lanes, Volumes, Timings

### 3: S. Banana River Dr/Milford Point Dr & SR 520



| Lane Group            | EBL  | EBT  | EBR  | WBL  | WBT  | WBR  | NBL | NBT | NBR  | SBL | SBT | SBR  |
|-----------------------|------|------|------|------|------|------|-----|-----|------|-----|-----|------|
| Spillback Cap Reductn | 0    | 0    | 0    | 0    | 0    | 0    | 0   | 0   | 0    | 0   | 0   | 0    |
| Storage Cap Reductn   | 0    | 0    | 0    | 0    | 0    | 0    | 0   | 0   | 0    | 0   | 0   | 0    |
| Reduced v/c Ratio     | 0.14 | 0.49 | 0.08 | 0.17 | 0.35 | 0.01 |     |     | 0.48 |     |     | 0.10 |

#### Intersection Summary

Area Type: Other

Cycle Length: 110

Actuated Cycle Length: 110

Offset: 55 (50%), Referenced to phase 2:WBT and 6:EBT, Start of Yellow

Natural Cycle: 60

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 0.69

Intersection Signal Delay: 15.9

Intersection LOS: B

Intersection Capacity Utilization 51.8%

ICU Level of Service A

Analysis Period (min) 15

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

Splits and Phases: 3: S. Banana River Dr/Milford Point Dr & SR 520



## Lanes, Volumes, Timings

### 1: Newfound Harbor Dr/Walmart & SR 520

|                            | EBL   | EBT  | EBR   | WBL   | WBT  | WBR   | NBL   | NBT   | NBR   | SBL   | SBT   | SBR   |
|----------------------------|-------|------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|
| Lane Configurations        | 1     | 2    | 1     | 1     | 2    | 1     | 1     | 1     | 1     | 1     | 1     | 1     |
| Volume (vph)               | 247   | 1043 | 289   | 106   | 1084 | 55    | 229   | 22    | 60    | 185   | 28    | 200   |
| Ideal Flow (vphpl)         | 1950  | 1950 | 1950  | 1950  | 1950 | 1950  | 1950  | 1950  | 1950  | 1950  | 1950  | 1950  |
| Lane Width (ft)            | 12    | 12   | 12    | 12    | 12   | 12    | 12    | 12    | 12    | 12    | 12    | 12    |
| Grade (%)                  | 0%    |      |       | 0%    |      |       | 0%    |       |       | 0%    |       | 0%    |
| Storage Length (ft)        | 300   |      | 200   | 240   |      | 0     | 125   |       | 0     | 0     |       | 0     |
| Storage Lanes              | 1     |      | 1     | 1     |      | 1     | 1     |       | 0     | 1     |       | 0     |
| Taper Length (ft)          | 100   |      |       | 25    |      |       | 300   |       |       | 25    |       |       |
| Lane Util. Factor          | 1.00  | 0.91 | 1.00  | 1.00  | 0.91 | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  |
| Ped Bike Factor            |       |      |       |       |      |       |       |       |       |       |       |       |
| Fr <sub>t</sub>            |       |      | 0.850 |       |      | 0.850 |       | 0.890 |       |       | 0.869 |       |
| Flt Protected              | 0.950 |      |       | 0.950 |      |       | 0.950 |       |       | 0.950 |       |       |
| Satd. Flow (prot)          | 1852  | 5271 | 1658  | 1852  | 5271 | 1658  | 1852  | 1735  | 0     | 1852  | 1665  | 0     |
| Flt Permitted              | 0.950 |      |       | 0.950 |      |       | 0.263 |       |       | 0.703 |       |       |
| Satd. Flow (perm)          | 1852  | 5271 | 1658  | 1852  | 5271 | 1658  | 513   | 1735  | 0     | 1371  | 1665  | 0     |
| Right Turn on Red          |       |      | Yes   |       |      | Yes   |       |       | Yes   |       |       | Yes   |
| Satd. Flow (RTOR)          |       |      | 317   |       |      | 264   |       | 61    |       |       | 213   |       |
| Link Speed (mph)           |       | 50   |       | 50    |      |       | 30    |       |       | 30    |       |       |
| Link Distance (ft)         |       | 1003 |       | 630   |      |       | 1067  |       |       | 629   |       |       |
| Travel Time (s)            |       | 13.7 |       | 8.6   |      |       | 24.3  |       |       | 14.3  |       |       |
| Confl. Peds. (#/hr)        |       |      |       |       |      |       |       |       |       |       |       |       |
| Confl. Bikes (#/hr)        |       |      |       |       |      |       |       |       |       |       |       |       |
| Peak Hour Factor           | 0.91  | 0.91 | 0.91  | 0.93  | 0.93 | 0.93  | 0.98  | 0.98  | 0.98  | 0.94  | 0.94  | 0.94  |
| Growth Factor              | 100%  | 100% | 100%  | 100%  | 100% | 100%  | 100%  | 100%  | 100%  | 100%  | 100%  | 100%  |
| Heavy Vehicles (%)         | 0%    | 1%   | 0%    | 0%    | 1%   | 0%    | 0%    | 0%    | 0%    | 0%    | 0%    | 2%    |
| Bus Blockages (#/hr)       | 0     | 0    | 0     | 0     | 0    | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Parking (#/hr)             |       |      |       |       |      |       |       |       |       |       |       |       |
| Mid-Block Traffic (%)      |       | 0%   |       | 0%    |      |       | 0%    |       |       | 0%    |       |       |
| Adj. Flow (vph)            | 271   | 1146 | 318   | 114   | 1166 | 59    | 234   | 22    | 61    | 197   | 30    | 213   |
| Shared Lane Traffic (%)    |       |      |       |       |      |       |       |       |       |       |       |       |
| Lane Group Flow (vph)      | 271   | 1146 | 318   | 114   | 1166 | 59    | 234   | 83    | 0     | 197   | 243   | 0     |
| Enter Blocked Intersection | No    | No   | No    | No    | No   | No    | No    | No    | No    | No    | No    | No    |
| Lane Alignment             | Left  | Left | Right | Left  | Left | Right | Left  | Left  | Right | Left  | Left  | Right |
| Median Width(ft)           |       | 12   |       |       | 12   |       |       | 12    |       |       | 12    |       |
| Link Offset(ft)            |       | 0    |       | 0     |      |       | 0     |       |       | 0     |       |       |
| Crosswalk Width(ft)        |       | 16   |       | 16    |      |       | 16    |       |       | 16    |       |       |
| Two way Left Turn Lane     |       |      |       | Yes   |      |       |       |       |       |       |       |       |
| Headway 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  |
| Turning Speed (mph)        | 15    |      | 9     | 15    |      | 9     | 15    |       | 9     | 15    |       | 9     |
| Number of Detectors        | 1     | 2    | 1     | 1     | 2    | 1     | 1     | 2     |       | 1     | 2     |       |
| Detector Template          | Left  | Thru | Right | Left  | Thru | Right | Left  | Thru  |       | Left  | Thru  |       |
| Leading Detector (ft)      | 20    | 100  | 20    | 20    | 100  | 20    | 20    | 100   |       | 20    | 100   |       |
| Trailing Detector (ft)     | 0     | 0    | 0     | 0     | 0    | 0     | 0     | 0     |       | 0     | 0     |       |
| Turn Type                  | Prot  | NA   | Perm  | Prot  | NA   | Perm  | pm+pt | NA    |       | pm+pt | NA    |       |
| Protected Phases           | 1     | 6    |       | 5     | 2    |       | 7     | 4     |       | 3     | 8     |       |
| Permitted Phases           |       |      | 6     |       |      | 2     | 4     |       |       | 8     |       |       |
| Detector Phase             | 1     | 6    | 6     | 5     | 2    | 2     | 7     | 4     |       | 3     | 8     |       |
| Switch Phase               |       |      |       |       |      |       |       |       |       |       |       |       |
| Minimum Initial (s)        | 5.0   | 12.0 | 12.0  | 5.0   | 12.0 | 12.0  | 5.0   | 7.0   |       | 5.0   | 7.0   |       |

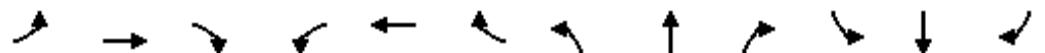
## Lanes, Volumes, Timings

### 1: Newfound Harbor Dr/Walmart & SR 520

|                         | ↗     | →     | ↘     | ↙     | ←     | ↖     | ↑     | ↗     | ↘   | ↓     | ↙     |     |
|-------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-------|-------|-----|
| Lane Group              | EBL   | EBT   | EBR   | WBL   | WBT   | WBR   | NBL   | NBT   | NBR | SBL   | SBT   | SBR |
| Minimum Split (s)       | 12.4  | 19.4  | 19.4  | 12.4  | 19.4  | 19.4  | 12.4  | 14.4  |     | 12.4  | 14.4  |     |
| Total Split (s)         | 25.0  | 40.0  | 40.0  | 20.0  | 35.0  | 35.0  | 28.0  | 33.0  |     | 17.0  | 22.0  |     |
| Total Split (%)         | 22.7% | 36.4% | 36.4% | 18.2% | 31.8% | 31.8% | 25.5% | 30.0% |     | 15.5% | 20.0% |     |
| Maximum Green (s)       | 17.6  | 32.6  | 32.6  | 12.6  | 27.6  | 27.6  | 20.6  | 25.6  |     | 9.6   | 14.6  |     |
| Yellow Time (s)         | 4.8   | 4.8   | 4.8   | 4.8   | 4.8   | 4.8   | 3.7   | 3.7   |     | 3.7   | 3.7   |     |
| All-Red Time (s)        | 2.6   | 2.6   | 2.6   | 2.6   | 2.6   | 2.6   | 3.7   | 3.7   |     | 3.7   | 3.7   |     |
| 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)     | 7.4   | 7.4   | 7.4   | 7.4   | 7.4   | 7.4   | 7.4   | 7.4   |     | 7.4   | 7.4   |     |
| Lead/Lag                | Lead  | Lag   | Lag   | Lead  | Lag   | Lag   | Lead  | Lag   |     | Lead  | Lag   |     |
| Lead-Lag Optimize?      | Yes   |     | Yes   | Yes   |     |
| Vehicle Extension (s)   | 5.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   |     | 3.0   | 3.0   |     |
| Minimum Gap (s)         | 5.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   |     | 3.0   | 3.0   |     |
| Time Before Reduce (s)  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |     | 0.0   | 0.0   |     |
| Time To Reduce (s)      | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |     | 0.0   | 0.0   |     |
| Recall Mode             | None  | C-Max | C-Max | None  | C-Max | C-Max | None  | None  |     | None  | None  |     |
| Walk Time (s)           |       |       |       |       |       |       |       |       |     |       |       |     |
| Flash Dont Walk (s)     |       |       |       |       |       |       |       |       |     |       |       |     |
| Pedestrian Calls (#/hr) |       |       |       |       |       |       |       |       |     |       |       |     |
| Act Effct Green (s)     | 21.1  | 42.3  | 42.3  | 11.2  | 32.5  | 32.5  | 31.0  | 16.6  |     | 21.2  | 9.5   |     |
| Actuated g/C Ratio      | 0.19  | 0.38  | 0.38  | 0.10  | 0.30  | 0.30  | 0.28  | 0.15  |     | 0.19  | 0.09  |     |
| v/c Ratio               | 0.77  | 0.57  | 0.38  | 0.60  | 0.75  | 0.09  | 0.66  | 0.26  |     | 0.61  | 0.72  |     |
| Control Delay           | 57.8  | 29.4  | 4.8   | 57.8  | 45.3  | 0.9   | 39.4  | 15.8  |     | 39.6  | 22.1  |     |
| Queue Delay             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |     | 0.0   | 0.0   |     |
| Total Delay             | 57.8  | 29.4  | 4.8   | 57.8  | 45.3  | 0.9   | 39.4  | 15.8  |     | 39.6  | 22.1  |     |
| LOS                     | E     | C     | A     | E     | D     | A     | D     | B     |     | D     | C     |     |
| Approach Delay          |       | 29.3  |       |       | 44.4  |       |       | 33.2  |     |       | 29.9  |     |
| Approach LOS            |       | C     |       |       | D     |       |       | C     |     |       | C     |     |
| 90th %ile Green (s)     | 17.6  | 32.6  | 32.6  | 12.6  | 27.6  | 27.6  | 20.6  | 25.6  |     | 9.6   | 14.6  |     |
| 90th %ile Term Code     | Max   | Coord | Coord | Max   | Coord | Coord | Max   | Hold  |     | Max   | Max   |     |
| 70th %ile Green (s)     | 21.2  | 34.9  | 34.9  | 13.9  | 27.6  | 27.6  | 20.5  | 22.0  |     | 9.6   | 11.1  |     |
| 70th %ile Term Code     | Max   | Coord | Coord | Gap   | Coord | Coord | Gap   | Hold  |     | Max   | Gap   |     |
| 50th %ile Green (s)     | 25.0  | 42.8  | 42.8  | 12.0  | 29.8  | 29.8  | 17.9  | 16.0  |     | 9.6   | 7.7   |     |
| 50th %ile Term Code     | Gap   | Coord | Coord | Gap   | Coord | Coord | Gap   | Hold  |     | Max   | Gap   |     |
| 30th %ile Green (s)     | 22.8  | 48.0  | 48.0  | 10.2  | 35.4  | 35.4  | 15.2  | 12.6  |     | 9.6   | 7.0   |     |
| 30th %ile Term Code     | Gap   | Coord | Coord | Gap   | Coord | Coord | Gap   | Hold  |     | Max   | Min   |     |
| 10th %ile Green (s)     | 18.8  | 53.2  | 53.2  | 7.5   | 41.9  | 41.9  | 12.7  | 0.0   |     | 27.1  | 7.0   |     |
| 10th %ile Term Code     | Gap   | Coord | Coord | Gap   | Coord | Coord | Gap   | Skip  |     | Hold  | Min   |     |
| Stops (vph)             | 211   | 809   | 27    | 104   | 735   | 3     | 176   | 25    |     | 172   | 48    |     |
| Fuel Used(gal)          | 8     | 25    | 3     | 3     | 26    | 0     | 5     | 1     |     | 3     | 2     |     |
| CO Emissions (g/hr)     | 539   | 1769  | 177   | 228   | 1791  | 19    | 329   | 75    |     | 234   | 168   |     |
| NOx Emissions (g/hr)    | 105   | 344   | 34    | 44    | 348   | 4     | 64    | 15    |     | 46    | 33    |     |
| VOC Emissions (g/hr)    | 125   | 410   | 41    | 53    | 415   | 4     | 76    | 17    |     | 54    | 39    |     |
| Dilemma Vehicles (#)    | 0     | 47    | 0     | 0     | 118   | 0     | 0     | 0     |     | 0     | 0     |     |
| Queue Length 50th (ft)  | 174   | 228   | 0     | 84    | 198   | 0     | 132   | 14    |     | 109   | 20    |     |
| Queue Length 95th (ft)  | #346  | 319   | 64    | 145   | #349  | m6    | 178   | 52    |     | 150   | 97    |     |
| Internal Link Dist (ft) |       | 923   |       |       | 550   |       |       | 987   |     |       | 549   |     |
| Turn Bay Length (ft)    | 300   |       | 200   | 240   |       |       | 125   |       |     |       |       |     |
| Base Capacity (vph)     | 354   | 2027  | 832   | 216   | 1555  | 675   | 404   | 450   |     | 321   | 405   |     |
| Starvation Cap Reductn  | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |     | 0     | 0     |     |

## Lanes, Volumes, Timings

### 1: Newfound Harbor Dr/Walmart & SR 520



| Lane Group            | EBL  | EBT  | EBR  | WBL  | WBT  | WBR  | NBL  | NBT  | NBR  | SBL  | SBT | SBR |
|-----------------------|------|------|------|------|------|------|------|------|------|------|-----|-----|
| Spillback Cap Reductn | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0   | 0   |
| Storage Cap Reductn   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0   | 0   |
| Reduced v/c Ratio     | 0.77 | 0.57 | 0.38 | 0.53 | 0.75 | 0.09 | 0.58 | 0.18 | 0.61 | 0.60 |     |     |

#### Intersection Summary

Area Type: Other

Cycle Length: 110

Actuated Cycle Length: 110

Offset: 13 (12%), Referenced to phase 2:WBT and 6:EBT, Start of Yellow

Natural Cycle: 80

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 0.77

Intersection Signal Delay: 35.0

Intersection LOS: D

Intersection Capacity Utilization 84.2%

ICU Level of Service E

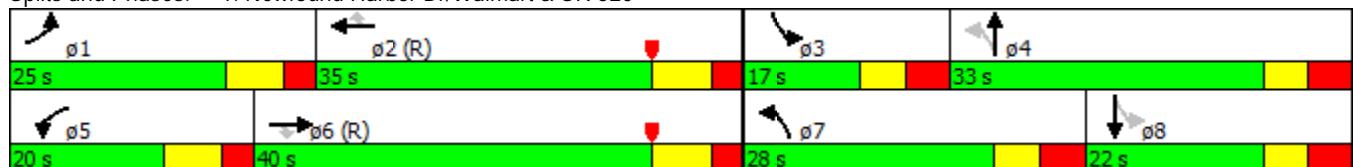
Analysis Period (min) 15

# 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: 1: Newfound Harbor Dr/Walmart & SR 520



Lanes, Volumes, Timings  
2: Dodge/N. Banana River Dr & SR 520

|                            | EBL   | EBT   | EBR   | WBL   | WBT  | WBR   | NBL   | NBT  | NBR   | SBL   | SBT  | SBR   |
|----------------------------|-------|-------|-------|-------|------|-------|-------|------|-------|-------|------|-------|
| Lane Configurations        | 1     | 2     | 1     | 1     | 2    | 1     | 1     | 2    | 1     | 1     | 2    | 1     |
| Volume (vph)               | 176   | 1047  | 10    | 6     | 931  | 124   | 13    | 4    | 7     | 120   | 1    | 208   |
| Ideal Flow (vphpl)         | 1950  | 1950  | 1950  | 1950  | 1950 | 1950  | 1950  | 1950 | 1950  | 1950  | 1950 | 1950  |
| Lane Width (ft)            | 12    | 12    | 12    | 12    | 12   | 12    | 12    | 12   | 12    | 12    | 12   | 12    |
| Grade (%)                  | 0%    |       |       | 0%    |      |       | 0%    |      | 0%    |       | 0%   |       |
| Storage Length (ft)        | 400   |       | 0     | 200   |      | 700   | 0     |      | 0     | 0     |      | 100   |
| Storage Lanes              | 1     |       | 0     | 1     |      | 1     | 1     |      | 0     | 1     |      | 1     |
| Taper Length (ft)          | 25    |       |       | 25    |      |       | 25    |      |       | 25    |      |       |
| Lane Util. Factor          | 1.00  | 0.91  | 0.91  | 1.00  | 0.91 | 1.00  | 1.00  | 1.00 | 1.00  | 1.00  | 1.00 | 1.00  |
| Ped Bike Factor            |       |       |       |       |      |       |       |      |       |       |      |       |
| Frt                        |       | 0.999 |       |       |      | 0.850 |       |      | 0.905 |       |      | 0.851 |
| Flt Protected              | 0.950 |       |       | 0.950 |      |       | 0.950 |      |       | 0.950 |      |       |
| Satd. Flow (prot)          | 1834  | 5266  | 0     | 1852  | 5271 | 1641  | 1852  | 1765 | 0     | 1852  | 1643 | 0     |
| Flt Permitted              | 0.950 |       |       | 0.950 |      |       | 0.255 |      |       | 0.743 |      |       |
| Satd. Flow (perm)          | 1834  | 5266  | 0     | 1852  | 5271 | 1641  | 497   | 1765 | 0     | 1449  | 1643 | 0     |
| Right Turn on Red          |       |       | Yes   |       |      | Yes   |       |      | Yes   |       |      | Yes   |
| Satd. Flow (RTOR)          |       | 2     |       |       |      | 161   |       |      | 14    |       |      | 263   |
| Link Speed (mph)           | 50    |       |       | 50    |      |       | 30    |      |       | 25    |      |       |
| Link Distance (ft)         | 712   |       |       | 813   |      |       | 547   |      |       | 1044  |      |       |
| Travel Time (s)            | 9.7   |       |       | 11.1  |      |       | 12.4  |      |       | 28.5  |      |       |
| Confl. Peds. (#/hr)        |       |       |       |       |      |       |       |      |       |       |      |       |
| Confl. Bikes (#/hr)        |       |       |       |       |      |       |       |      |       |       |      |       |
| Peak Hour Factor           | 0.87  | 0.87  | 0.87  | 0.84  | 0.84 | 0.84  | 0.50  | 0.50 | 0.50  | 0.79  | 0.79 | 0.79  |
| Growth Factor              | 100%  | 100%  | 100%  | 100%  | 100% | 100%  | 100%  | 100% | 100%  | 100%  | 100% | 100%  |
| Heavy Vehicles (%)         | 1%    | 1%    | 0%    | 0%    | 1%   | 1%    | 0%    | 0%   | 0%    | 0%    | 0%   | 1%    |
| Bus Blockages (#/hr)       | 0     | 0     | 0     | 0     | 0    | 0     | 0     | 0    | 0     | 0     | 0    | 0     |
| Parking (#/hr)             |       |       |       |       |      |       |       |      |       |       |      |       |
| Mid-Block Traffic (%)      |       | 0%    |       |       | 0%   |       |       | 0%   |       |       | 0%   |       |
| Adj. Flow (vph)            | 202   | 1203  | 11    | 7     | 1108 | 148   | 26    | 8    | 14    | 152   | 1    | 263   |
| Shared Lane Traffic (%)    |       |       |       |       |      |       |       |      |       |       |      |       |
| Lane Group Flow (vph)      | 202   | 1214  | 0     | 7     | 1108 | 148   | 26    | 22   | 0     | 152   | 264  | 0     |
| Enter Blocked Intersection | No    | No    | No    | No    | No   | No    | No    | No   | No    | No    | No   | No    |
| Lane Alignment             | Left  | Left  | Right | Left  | Left | Right | Left  | Left | Right | Left  | Left | Right |
| Median Width(ft)           | 12    |       |       | 12    |      |       | 12    |      |       | 12    |      |       |
| Link Offset(ft)            | 0     |       |       | 0     |      |       | 0     |      |       | 0     |      |       |
| Crosswalk Width(ft)        | 16    |       |       | 16    |      |       | 16    |      |       | 16    |      |       |
| Two way Left Turn Lane     |       | Yes   |       |       | Yes  |       |       |      |       |       |      |       |
| Headway 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  |
| Turning Speed (mph)        | 15    |       | 9     | 15    |      | 9     | 15    |      | 9     | 15    |      | 9     |
| Number of Detectors        | 1     | 2     |       | 1     | 2    | 1     | 1     | 2    |       | 1     | 2    |       |
| Detector Template          | Left  | Thru  |       | Left  | Thru | Right | Left  | Thru |       | Left  | Thru |       |
| Leading Detector (ft)      | 20    | 100   |       | 20    | 100  | 20    | 20    | 100  |       | 20    | 100  |       |
| Trailing Detector (ft)     | 0     | 0     |       | 0     | 0    | 0     | 0     | 0    |       | 0     | 0    |       |
| Turn Type                  | Prot  | NA    |       | Prot  | NA   | Perm  | Perm  | NA   |       | Perm  | NA   |       |
| Protected Phases           | 1     | 6     |       | 5     | 2    |       |       | 4    |       |       | 8    |       |
| Permitted Phases           |       |       |       |       |      | 2     | 4     |      |       | 8     |      |       |
| Detector Phase             | 1     | 6     |       | 5     | 2    | 2     | 4     | 4    |       | 8     | 8    |       |
| Switch Phase               |       |       |       |       |      |       |       |      |       |       |      |       |
| Minimum Initial (s)        | 5.0   | 12.0  |       | 5.0   | 12.0 | 12.0  | 7.0   | 7.0  |       | 7.0   | 7.0  |       |

Lanes, Volumes, Timings  
2: Dodge/N. Banana River Dr & SR 520

|                         | EBL   | EBT   | EBR | WBL   | WBT   | WBR   | NBL   | NBT   | NBR | SBL   | SBT   | SBR |
|-------------------------|-------|-------|-----|-------|-------|-------|-------|-------|-----|-------|-------|-----|
| Lane Group              | EBL   | EBT   | EBR | WBL   | WBT   | WBR   | NBL   | NBT   | NBR | SBL   | SBT   | SBR |
| Minimum Split (s)       | 11.6  | 19.1  |     | 11.6  | 19.1  | 19.1  | 13.0  | 13.0  |     | 13.0  | 13.0  |     |
| Total Split (s)         | 35.0  | 69.0  |     | 16.0  | 50.0  | 50.0  | 25.0  | 25.0  |     | 25.0  | 25.0  |     |
| Total Split (%)         | 31.8% | 62.7% |     | 14.5% | 45.5% | 45.5% | 22.7% | 22.7% |     | 22.7% | 22.7% |     |
| Maximum Green (s)       | 28.4  | 61.9  |     | 9.4   | 42.9  | 42.9  | 19.0  | 19.0  |     | 19.0  | 19.0  |     |
| Yellow Time (s)         | 4.3   | 4.8   |     | 4.3   | 4.8   | 4.8   | 3.0   | 3.0   |     | 3.0   | 3.0   |     |
| All-Red Time (s)        | 2.3   | 2.3   |     | 2.3   | 2.3   | 2.3   | 3.0   | 3.0   |     | 3.0   | 3.0   |     |
| 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)     | 6.6   | 7.1   |     | 6.6   | 7.1   | 7.1   | 6.0   | 6.0   |     | 6.0   | 6.0   |     |
| Lead/Lag                | Lead  | Lag   |     | Lead  | Lag   | 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   |     |
| Minimum Gap (s)         | 3.0   | 3.0   |     | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   |     | 3.0   | 3.0   |     |
| Time Before Reduce (s)  | 0.0   | 0.0   |     | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |     | 0.0   | 0.0   |     |
| Time To Reduce (s)      | 0.0   | 0.0   |     | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |     | 0.0   | 0.0   |     |
| Recall Mode             | None  | C-Max |     | None  | C-Max | C-Max | None  | None  |     | None  | None  |     |
| Walk Time (s)           |       |       |     |       |       |       |       |       |     |       |       |     |
| Flash Dont Walk (s)     |       |       |     |       |       |       |       |       |     |       |       |     |
| Pedestrian Calls (#/hr) |       |       |     |       |       |       |       |       |     |       |       |     |
| Act Effct Green (s)     | 17.4  | 78.4  |     | 6.0   | 57.2  | 57.2  | 15.7  | 15.7  |     | 15.7  | 15.7  |     |
| Actuated g/C Ratio      | 0.16  | 0.71  |     | 0.05  | 0.52  | 0.52  | 0.14  | 0.14  |     | 0.14  | 0.14  |     |
| v/c Ratio               | 0.70  | 0.32  |     | 0.07  | 0.40  | 0.16  | 0.37  | 0.08  |     | 0.73  | 0.57  |     |
| Control Delay           | 73.2  | 3.7   |     | 53.2  | 13.0  | 0.9   | 56.4  | 23.4  |     | 65.3  | 10.4  |     |
| Queue Delay             | 0.0   | 0.0   |     | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |     | 0.0   | 0.0   |     |
| Total Delay             | 73.2  | 3.7   |     | 53.2  | 13.0  | 0.9   | 56.4  | 23.4  |     | 65.3  | 10.4  |     |
| LOS                     | E     | A     |     | D     | B     | A     | E     | C     |     | E     | B     |     |
| Approach Delay          |       | 13.6  |     |       | 11.8  |       |       | 41.3  |     |       | 30.5  |     |
| Approach LOS            |       | B     |     |       | B     |       |       | D     |     |       | C     |     |
| 90th %ile Green (s)     | 23.5  | 64.3  |     | 7.0   | 47.8  | 47.8  | 19.0  | 19.0  |     | 19.0  | 19.0  |     |
| 90th %ile Term Code     | Gap   | Coord |     | Gap   | Coord | Coord | Hold  | Hold  |     | Max   | Max   |     |
| 70th %ile Green (s)     | 20.0  | 77.9  |     | 0.0   | 51.3  | 51.3  | 19.0  | 19.0  |     | 19.0  | 19.0  |     |
| 70th %ile Term Code     | Gap   | Coord |     | Skip  | Coord | Coord | Hold  | Hold  |     | Max   | Max   |     |
| 50th %ile Green (s)     | 17.4  | 80.2  |     | 0.0   | 56.2  | 56.2  | 16.7  | 16.7  |     | 16.7  | 16.7  |     |
| 50th %ile Term Code     | Gap   | Coord |     | Skip  | Coord | Coord | Hold  | Hold  |     | Gap   | Gap   |     |
| 30th %ile Green (s)     | 14.9  | 82.9  |     | 0.0   | 61.4  | 61.4  | 14.0  | 14.0  |     | 14.0  | 14.0  |     |
| 30th %ile Term Code     | Gap   | Coord |     | Skip  | Coord | Coord | Hold  | Hold  |     | Gap   | Gap   |     |
| 10th %ile Green (s)     | 11.2  | 86.9  |     | 0.0   | 69.1  | 69.1  | 10.0  | 10.0  |     | 10.0  | 10.0  |     |
| 10th %ile Term Code     | Gap   | Coord |     | Skip  | Coord | Coord | Hold  | Hold  |     | Gap   | Gap   |     |
| Stops (vph)             | 176   | 159   |     | 8     | 394   | 4     | 13    | 6     |     | 113   | 26    |     |
| Fuel Used(gal)          | 6     | 8     |     | 0     | 13    | 1     | 0     | 0     |     | 3     | 2     |     |
| CO Emissions (g/hr)     | 428   | 559   |     | 15    | 931   | 51    | 19    | 9     |     | 216   | 168   |     |
| NOx Emissions (g/hr)    | 83    | 109   |     | 3     | 181   | 10    | 4     | 2     |     | 42    | 33    |     |
| VOC Emissions (g/hr)    | 99    | 130   |     | 4     | 216   | 12    | 4     | 2     |     | 50    | 39    |     |
| Dilemma Vehicles (#)    | 0     | 61    |     | 0     | 40    | 0     | 0     | 0     |     | 0     | 0     |     |
| Queue Length 50th (ft)  | 153   | 49    |     | 5     | 178   | 0     | 17    | 5     |     | 103   | 1     |     |
| Queue Length 95th (ft)  | 221   | 66    |     | m19   | 102   | 7     | 24    | 11    |     | 147   | 41    |     |
| Internal Link Dist (ft) |       | 632   |     |       | 733   |       |       | 467   |     |       | 964   |     |
| Turn Bay Length (ft)    | 400   |       |     | 200   |       | 700   |       |       |     |       |       |     |
| Base Capacity (vph)     | 473   | 3755  |     | 158   | 2739  | 930   | 85    | 316   |     | 250   | 501   |     |
| Starvation Cap Reductn  | 0     | 0     |     | 0     | 0     | 0     | 0     | 0     |     | 0     | 0     |     |

Lanes, Volumes, Timings  
2: Dodge/N. Banana River Dr & SR 520



| Lane Group            | EBL  | EBT  | EBR | WBL  | WBT  | WBR  | NBL  | NBT  | NBR | SBL  | SBT  | SBR |
|-----------------------|------|------|-----|------|------|------|------|------|-----|------|------|-----|
| 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     | 0.43 | 0.32 |     | 0.04 | 0.40 | 0.16 | 0.31 | 0.07 |     | 0.61 | 0.53 |     |

Intersection Summary

Area Type: Other

Cycle Length: 110

Actuated Cycle Length: 110

Offset: 40 (36%), Referenced to phase 2:WBT and 6:EBT, Start of Yellow

Natural Cycle: 55

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 0.73

Intersection Signal Delay: 15.5

Intersection LOS: B

Intersection Capacity Utilization 56.6%

ICU Level of Service B

Analysis Period (min) 15

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

Splits and Phases: 2: Dodge/N. Banana River Dr & SR 520



## Lanes, Volumes, Timings

### 3: S. Banana River Dr/Milford Point Dr & SR 520

| Lane Group                 | EBL   | EBT  | EBR   | WBL   | WBT  | WBR   | NBL  | NBT   | NBR   | SBL  | SBT   | SBR   |
|----------------------------|-------|------|-------|-------|------|-------|------|-------|-------|------|-------|-------|
| Lane Configurations        |       |      |       |       |      |       |      |       |       |      |       |       |
| Volume (vph)               | 17    | 1013 | 94    | 40    | 1002 | 5     | 59   | 4     | 18    | 1    | 5     | 9     |
| Ideal Flow (vphpl)         | 1950  | 1950 | 1950  | 1950  | 1950 | 1950  | 1950 | 1950  | 1950  | 1950 | 1950  | 1950  |
| Lane Width (ft)            | 12    | 12   | 12    | 12    | 12   | 12    | 12   | 12    | 12    | 12   | 12    | 12    |
| Grade (%)                  |       | 0%   |       |       | 0%   |       |      | 0%    |       |      | 0%    |       |
| Storage Length (ft)        | 200   |      | 0     | 200   |      | 250   | 0    |       | 0     | 0    |       | 0     |
| Storage Lanes              | 1     |      | 1     | 1     |      | 1     | 0    |       | 0     | 0    |       | 0     |
| Taper Length (ft)          | 25    |      |       | 25    |      |       | 25   |       |       | 25   |       |       |
| Lane Util. Factor          | 1.00  | 0.95 | 1.00  | 1.00  | 0.91 | 1.00  | 1.00 | 1.00  | 1.00  | 1.00 | 1.00  | 1.00  |
| Ped Bike Factor            |       |      |       |       |      |       |      |       |       |      |       |       |
| Frt                        |       |      | 0.850 |       |      | 0.850 |      | 0.970 |       |      | 0.919 |       |
| Flt Protected              | 0.950 |      |       | 0.950 |      |       |      | 0.965 |       |      | 0.998 |       |
| Satd. Flow (prot)          | 1852  | 3705 | 1641  | 1852  | 5271 | 1658  | 0    | 1799  | 0     | 0    | 1788  | 0     |
| Flt Permitted              | 0.950 |      |       | 0.950 |      |       |      | 0.771 |       |      | 0.985 |       |
| Satd. Flow (perm)          | 1852  | 3705 | 1641  | 1852  | 5271 | 1658  | 0    | 1437  | 0     | 0    | 1765  | 0     |
| Right Turn on Red          |       |      | Yes   |       |      | Yes   |      |       | Yes   |      |       | Yes   |
| Satd. Flow (RTOR)          |       |      | 106   |       |      | 100   |      | 12    |       |      | 12    |       |
| Link Speed (mph)           | 50    |      |       | 50    |      |       | 25   |       |       | 25   |       |       |
| Link Distance (ft)         | 813   |      |       | 414   |      |       | 776  |       |       | 1028 |       |       |
| Travel Time (s)            | 11.1  |      |       | 5.6   |      |       | 21.2 |       |       | 28.0 |       |       |
| Confl. Peds. (#/hr)        |       |      |       |       |      |       |      |       |       |      |       |       |
| Confl. Bikes (#/hr)        |       |      |       |       |      |       |      |       |       |      |       |       |
| Peak Hour Factor           | 0.89  | 0.89 | 0.89  | 0.93  | 0.93 | 0.93  | 0.89 | 0.89  | 0.89  | 0.75 | 0.75  | 0.75  |
| Growth Factor              | 100%  | 100% | 100%  | 100%  | 100% | 100%  | 100% | 100%  | 100%  | 100% | 100%  | 100%  |
| Heavy Vehicles (%)         | 0%    | 0%   | 1%    | 0%    | 1%   | 0%    | 2%   | 0%    | 0%    | 0%   | 0%    | 0%    |
| Bus Blockages (#/hr)       | 0     | 0    | 0     | 0     | 0    | 0     | 0    | 0     | 0     | 0    | 0     | 0     |
| Parking (#/hr)             |       |      |       |       |      |       |      |       |       |      |       |       |
| Mid-Block Traffic (%)      |       |      | 0%    |       |      | 0%    |      | 0%    |       |      | 0%    |       |
| Adj. Flow (vph)            | 19    | 1138 | 106   | 43    | 1077 | 5     | 66   | 4     | 20    | 1    | 7     | 12    |
| Shared Lane Traffic (%)    |       |      |       |       |      |       |      |       |       |      |       |       |
| Lane Group Flow (vph)      | 19    | 1138 | 106   | 43    | 1077 | 5     | 0    | 90    | 0     | 0    | 20    | 0     |
| Enter Blocked Intersection | No    | No   | No    | No    | No   | No    | No   | No    | No    | No   | No    | No    |
| Lane Alignment             | Left  | Left | Right | Left  | Left | Right | Left | Left  | Right | Left | Left  | Right |
| Median Width(ft)           | 12    |      |       | 12    |      |       | 0    |       |       | 0    |       |       |
| Link Offset(ft)            | 0     |      |       | 0     |      |       | 0    |       |       | 0    |       |       |
| Crosswalk Width(ft)        | 16    |      |       | 16    |      |       | 16   |       |       | 16   |       |       |
| Two way Left Turn Lane     |       | Yes  |       |       | Yes  |       |      |       |       |      |       |       |
| Headway 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  |
| Turning Speed (mph)        | 15    |      | 9     | 15    |      | 9     | 15   |       | 9     | 15   |       | 9     |
| Number of Detectors        | 1     | 2    | 1     | 1     | 2    | 1     | 1    | 2     |       | 1    | 2     |       |
| Detector Template          | Left  | Thru | Right | Left  | Thru | Right | Left | Thru  |       | Left | Thru  |       |
| Leading Detector (ft)      | 20    | 100  | 20    | 20    | 100  | 20    | 20   | 100   |       | 20   | 100   |       |
| Trailing Detector (ft)     | 0     | 0    | 0     | 0     | 0    | 0     | 0    | 0     |       | 0    | 0     |       |
| Turn Type                  | Prot  | NA   | Perm  | Prot  | NA   | Perm  | Perm | NA    |       | Perm | NA    |       |
| Protected Phases           | 1     | 6    |       | 5     | 2    |       |      | 4     |       |      | 8     |       |
| Permitted Phases           |       |      |       | 6     |      |       | 2    | 4     |       |      | 8     |       |
| Detector Phase             | 1     | 6    | 6     | 5     | 2    | 2     | 4    | 4     |       | 8    | 8     |       |
| Switch Phase               |       |      |       |       |      |       |      |       |       |      |       |       |
| Minimum Initial (s)        | 5.0   | 12.0 | 12.0  | 5.0   | 12.0 | 12.0  | 7.0  | 7.0   |       | 7.0  | 7.0   |       |

## Lanes, Volumes, Timings

### 3: S. Banana River Dr/Milford Point Dr & SR 520

| Lane Group              | EBL   | EBT   | EBR   | WBL   | WBT   | WBR   | NBL   | NBT   | NBR | SBL   | SBT   | SBR |
|-------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-------|-------|-----|
| Minimum Split (s)       | 11.9  | 19.4  | 19.4  | 11.9  | 19.4  | 19.4  | 13.2  | 13.2  |     | 13.2  | 13.2  |     |
| Total Split (s)         | 14.0  | 65.0  | 65.0  | 16.0  | 67.0  | 67.0  | 29.0  | 29.0  |     | 29.0  | 29.0  |     |
| Total Split (%)         | 12.7% | 59.1% | 59.1% | 14.5% | 60.9% | 60.9% | 26.4% | 26.4% |     | 26.4% | 26.4% |     |
| Maximum Green (s)       | 7.1   | 57.6  | 57.6  | 9.1   | 59.6  | 59.6  | 22.8  | 22.8  |     | 22.8  | 22.8  |     |
| Yellow Time (s)         | 4.3   | 4.8   | 4.8   | 4.3   | 4.8   | 4.8   | 3.2   | 3.2   |     | 3.2   | 3.2   |     |
| All-Red Time (s)        | 2.6   | 2.6   | 2.6   | 2.6   | 2.6   | 2.6   | 3.0   | 3.0   |     | 3.0   | 3.0   |     |
| 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)     | 6.9   | 7.4   | 7.4   | 6.9   | 7.4   | 7.4   | 6.2   |       |     | 6.2   |       |     |
| Lead/Lag                | Lead  | Lag   | Lag   | Lead  | Lag   | Lag   |       |       |     |       |       |     |
| Lead-Lag Optimize?      | Yes   | 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   |     |
| Minimum Gap (s)         | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   |     | 3.0   | 3.0   |     |
| Time Before Reduce (s)  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |     | 0.0   | 0.0   |     |
| Time To Reduce (s)      | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |     | 0.0   | 0.0   |     |
| Recall Mode             | None  | C-Max | C-Max | None  | C-Max | C-Max | None  | None  |     | None  | None  |     |
| Walk Time (s)           |       |       |       |       |       |       |       |       |     |       |       |     |
| Flash Dont Walk (s)     |       |       |       |       |       |       |       |       |     |       |       |     |
| Pedestrian Calls (#/hr) |       |       |       |       |       |       |       |       |     |       |       |     |
| Act Effct Green (s)     | 6.7   | 79.3  | 79.3  | 8.0   | 83.1  | 83.1  |       | 11.6  |     | 11.6  |       |     |
| Actuated g/C Ratio      | 0.06  | 0.72  | 0.72  | 0.07  | 0.76  | 0.76  |       | 0.11  |     | 0.11  |       |     |
| v/c Ratio               | 0.17  | 0.43  | 0.09  | 0.32  | 0.27  | 0.00  |       | 0.56  |     | 0.10  |       |     |
| Control Delay           | 60.3  | 5.3   | 0.9   | 54.0  | 6.7   | 0.0   |       | 52.8  |     | 26.9  |       |     |
| Queue Delay             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |       | 0.0   |     | 0.0   |       |     |
| Total Delay             | 60.3  | 5.3   | 0.9   | 54.0  | 6.7   | 0.0   |       | 52.8  |     | 26.9  |       |     |
| LOS                     | E     | A     | A     | D     | A     | A     |       | D     |     | C     |       |     |
| Approach Delay          |       | 5.8   |       |       | 8.4   |       |       | 52.8  |     | 26.9  |       |     |
| Approach LOS            |       | A     |       |       | A     |       |       | D     |     | C     |       |     |
| 90th %ile Green (s)     | 8.4   | 62.1  | 62.1  | 10.7  | 64.4  | 64.4  | 16.7  | 16.7  |     | 16.7  | 16.7  |     |
| 90th %ile Term Code     | Gap   | Coord | Coord | Gap   | Coord | Coord | Gap   | Gap   |     | Hold  | Hold  |     |
| 70th %ile Green (s)     | 7.3   | 66.9  | 66.9  | 9.1   | 68.7  | 68.7  | 13.5  | 13.5  |     | 13.5  | 13.5  |     |
| 70th %ile Term Code     | Gap   | Coord | Coord | Gap   | Coord | Coord | Gap   | Gap   |     | Hold  | Hold  |     |
| 50th %ile Green (s)     | 0.0   | 70.2  | 70.2  | 7.9   | 85.0  | 85.0  | 11.4  | 11.4  |     | 11.4  | 11.4  |     |
| 50th %ile Term Code     | Skip  | Coord | Coord | Gap   | Coord | Coord | Gap   | Gap   |     | Hold  | Hold  |     |
| 30th %ile Green (s)     | 0.0   | 87.2  | 87.2  | 0.0   | 87.2  | 87.2  | 9.2   | 9.2   |     | 9.2   | 9.2   |     |
| 30th %ile Term Code     | Skip  | Coord | Coord | Skip  | Coord | Coord | Gap   | Gap   |     | Hold  | Hold  |     |
| 10th %ile Green (s)     | 0.0   | 102.6 | 102.6 | 0.0   | 102.6 | 102.6 | 0.0   | 0.0   |     | 0.0   | 0.0   |     |
| 10th %ile Term Code     | Skip  | Coord | Coord | Skip  | Coord | Coord | Skip  | Skip  |     | Skip  | Skip  |     |
| Stops (vph)             | 17    | 223   | 6     | 38    | 315   | 0     |       | 63    |     | 9     |       |     |
| Fuel Used(gal)          | 1     | 10    | 1     | 1     | 14    | 0     |       | 2     |     | 0     |       |     |
| CO Emissions (g/hr)     | 39    | 681   | 42    | 93    | 965   | 3     |       | 114   |     | 17    |       |     |
| NOx Emissions (g/hr)    | 8     | 133   | 8     | 18    | 188   | 1     |       | 22    |     | 3     |       |     |
| VOC Emissions (g/hr)    | 9     | 158   | 10    | 21    | 224   | 1     |       | 26    |     | 4     |       |     |
| Dilemma Vehicles (#)    | 0     | 0     | 0     | 0     | 38    | 0     |       | 0     |     | 0     |       |     |
| Queue Length 50th (ft)  | 12    | 120   | 1     | 29    | 65    | 0     |       | 53    |     | 5     |       |     |
| Queue Length 95th (ft)  | m39   | 146   | m2    | 65    | 164   | 0     |       | 100   |     | 22    |       |     |
| Internal Link Dist (ft) |       | 733   |       |       | 334   |       |       | 696   |     | 948   |       |     |
| Turn Bay Length (ft)    | 200   |       | 200   |       | 250   |       |       |       |     |       |       |     |
| Base Capacity (vph)     | 124   | 2670  | 1212  | 158   | 3980  | 1276  |       | 307   |     | 375   |       |     |
| Starvation Cap Reductn  | 0     | 0     | 0     | 0     | 0     | 0     |       | 0     |     | 0     |       |     |

## Lanes, Volumes, Timings

### 3: S. Banana River Dr/Milford Point Dr & SR 520



| Lane Group            | EBL  | EBT  | EBR  | WBL  | WBT  | WBR  | NBL | NBT | NBR  | SBL | SBT | SBR  |
|-----------------------|------|------|------|------|------|------|-----|-----|------|-----|-----|------|
| Spillback Cap Reductn | 0    | 0    | 0    | 0    | 0    | 0    | 0   | 0   | 0    | 0   | 0   | 0    |
| Storage Cap Reductn   | 0    | 0    | 0    | 0    | 0    | 0    | 0   | 0   | 0    | 0   | 0   | 0    |
| Reduced v/c Ratio     | 0.15 | 0.43 | 0.09 | 0.27 | 0.27 | 0.00 |     |     | 0.29 |     |     | 0.05 |

#### Intersection Summary

Area Type: Other

Cycle Length: 110

Actuated Cycle Length: 110

Offset: 55 (50%), Referenced to phase 2:WBT and 6:EBT, Start of Yellow

Natural Cycle: 60

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 0.56

Intersection Signal Delay: 8.8

Intersection LOS: A

Intersection Capacity Utilization 54.8%

ICU Level of Service A

Analysis Period (min) 15

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

Splits and Phases: 3: S. Banana River Dr/Milford Point Dr & SR 520



## Lanes, Volumes, Timings

### 1: Newfound Harbor Dr/Walmart & SR 520

| Lane Group                 | EBL   | EBT  | EBR   | WBU  | WBL   | WBT   | WBR   | NBL   | NBT   | NBR   | SBL   | SBT   | SBR   |
|----------------------------|-------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Lane Configurations        | ↑     | ↑↑↑  | ↑     |      | ↑     | ↑↑↑   | ↑     | ↑     | ↑     |       | ↑     | ↑     |       |
| Volume (vph)               | 70    | 722  | 127   | 17   | 49    | 761   | 31    | 248   | 8     | 98    | 30    | 44    | 53    |
| Ideal Flow (vphpl)         | 1950  | 1950 | 1950  | 1950 | 1950  | 1950  | 1950  | 1950  | 1950  | 1950  | 1950  | 1950  | 1950  |
| Lane Width (ft)            | 11    | 12   | 12    | 11   | 11    | 12    | 12    | 12    | 12    | 12    | 12    | 12    | 12    |
| Grade (%)                  | 0%    |      |       |      | 0%    |       |       | 0%    |       |       | 0%    |       |       |
| Storage Length (ft)        | 300   |      | 200   |      | 240   |       | 0     | 125   |       | 0     | 0     |       | 0     |
| Storage Lanes              | 1     |      | 1     |      | 1     |       | 1     | 1     |       | 0     | 1     |       | 0     |
| Taper Length (ft)          | 100   |      |       | 50   |       |       | 300   |       |       | 25    |       |       |       |
| Lane Util. Factor          | 1.00  | 0.91 | 1.00  | 0.91 | 1.00  | 0.91  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  |
| Ped Bike Factor            |       |      |       |      |       |       |       |       |       |       |       |       |       |
| Frt                        |       |      | 0.850 |      |       | 0.850 |       |       | 0.861 |       |       | 0.918 |       |
| Flt Protected              | 0.950 |      |       |      | 0.950 |       |       | 0.950 |       |       | 0.950 |       |       |
| Satd. Flow (prot)          | 1773  | 5219 | 1625  | 0    | 1782  | 5271  | 1507  | 1834  | 1664  | 0     | 1852  | 1671  | 0     |
| Flt Permitted              | 0.950 |      |       |      | 0.950 |       |       | 0.372 |       |       | 0.681 |       |       |
| Satd. Flow (perm)          | 1773  | 5219 | 1625  | 0    | 1782  | 5271  | 1507  | 718   | 1664  | 0     | 1328  | 1671  | 0     |
| Right Turn on Red          |       |      | Yes   |      |       |       | Yes   |       |       | Yes   |       |       | Yes   |
| Satd. Flow (RTOR)          |       |      | 322   |      |       |       | 322   |       | 109   |       |       | 55    |       |
| Link Speed (mph)           | 50    |      |       | 50   |       |       | 30    |       |       | 30    |       |       |       |
| Link Distance (ft)         | 1003  |      |       | 630  |       |       | 1067  |       |       | 629   |       |       |       |
| Travel Time (s)            | 13.7  |      |       | 8.6  |       |       | 24.3  |       |       | 14.3  |       |       |       |
| Confl. Peds. (#/hr)        |       |      |       |      |       |       |       |       |       |       |       |       |       |
| Confl. Bikes (#/hr)        |       |      |       |      |       |       |       |       |       |       |       |       |       |
| Peak Hour Factor           | 0.90  | 0.90 | 0.90  | 0.92 | 0.90  | 0.90  | 0.90  | 0.90  | 0.90  | 0.90  | 0.92  | 0.92  | 0.92  |
| Growth Factor              | 100%  | 100% | 100%  | 100% | 100%  | 100%  | 100%  | 100%  | 100%  | 100%  | 100%  | 100%  | 100%  |
| Heavy Vehicles (%)         | 1%    | 2%   | 2%    | 2%   | 0%    | 1%    | 10%   | 1%    | 0%    | 1%    | 0%    | 0%    | 13%   |
| Bus Blockages (#/hr)       | 0     | 0    | 0     | 0    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Parking (#/hr)             |       |      |       |      |       |       |       |       |       |       |       |       |       |
| Mid-Block Traffic (%)      |       |      | 0%    |      |       | 0%    |       |       | 0%    |       | 0%    |       |       |
| Adj. Flow (vph)            | 78    | 802  | 141   | 18   | 54    | 846   | 34    | 276   | 9     | 109   | 33    | 48    | 58    |
| Shared Lane Traffic (%)    |       |      |       |      |       |       |       |       |       |       |       |       |       |
| Lane Group Flow (vph)      | 78    | 802  | 141   | 0    | 72    | 846   | 34    | 276   | 118   | 0     | 33    | 106   | 0     |
| Enter Blocked Intersection | No    | No   | No    | No   | No    | No    | No    | No    | No    | No    | No    | No    | No    |
| Lane Alignment             | Left  | Left | Right | R NA | Left  | Left  | Right | Left  | Left  | Right | Left  | Left  | Right |
| Median Width(ft)           | 11    |      |       |      | 11    |       |       |       | 12    |       | 12    |       |       |

## Lanes, Volumes, Timings

### 1: Newfound Harbor Dr/Walmart & SR 520

| Lane Group              | EBL   | EBT   | EBR   | WBU   | WBL   | WBT   | WBR   | NBL   | NBT   | NBR  | SBL   | SBT   | SBR  |
|-------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|------|
| Link Offset(ft)         | 0     |       |       |       |       | 0     |       |       | 0     |      |       | 0     |      |
| Crosswalk Width(ft)     | 16    |       |       |       |       | 16    |       |       | 16    |      |       | 16    |      |
| Two way Left Turn Lane  |       |       |       |       |       |       |       |       |       |      |       |       |      |
| Headway Factor          | 1.01  | 0.97  | 0.97  | 1.01  | 1.01  | 0.97  | 0.97  | 0.97  | 0.97  | 0.97 | 0.97  | 0.97  | 0.97 |
| Turning Speed (mph)     | 15    |       | 9     | 9     | 15    |       | 9     | 15    |       | 9    | 15    |       | 9    |
| Number of Detectors     | 1     | 2     | 1     | 1     | 1     | 2     | 1     | 1     | 2     |      | 1     | 2     |      |
| Detector Template       | Left  | Thru  | Right | Left  | Left  | Thru  | Right | Left  | Thru  |      | Left  | Thru  |      |
| Leading Detector (ft)   | 20    | 100   | 20    | 20    | 20    | 100   | 20    | 20    | 100   |      | 20    | 100   |      |
| Trailing Detector (ft)  | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |      | 0     | 0     |      |
| Turn Type               | Prot  | NA    | Perm  | Prot  | Prot  | NA    | Perm  | pm+pt | NA    |      | pm+pt | NA    |      |
| Protected Phases        | 1     | 6     |       | 5     | 5     | 2     |       | 7     | 4     |      | 3     | 8     |      |
| Permitted Phases        |       |       | 6     |       |       |       | 2     | 4     |       |      | 8     |       |      |
| Detector Phase          | 1     | 6     | 6     | 5     | 5     | 2     | 2     | 7     | 4     |      | 3     | 8     |      |
| Switch Phase            |       |       |       |       |       |       |       |       |       |      |       |       |      |
| Minimum Initial (s)     | 5.0   | 12.0  | 12.0  | 5.0   | 5.0   | 12.0  | 12.0  | 5.0   | 7.0   |      | 5.0   | 7.0   |      |
| Minimum Split (s)       | 12.4  | 19.4  | 19.4  | 12.4  | 12.4  | 19.4  | 19.4  | 12.4  | 14.4  |      | 12.4  | 14.4  |      |
| Total Split (s)         | 17.0  | 31.0  | 31.0  | 16.0  | 16.0  | 30.0  | 30.0  | 25.0  | 30.0  |      | 13.0  | 18.0  |      |
| Total Split (%)         | 18.9% | 34.4% | 34.4% | 17.8% | 17.8% | 33.3% | 33.3% | 27.8% | 33.3% |      | 14.4% | 20.0% |      |
| Maximum Green (s)       | 9.6   | 23.6  | 23.6  | 8.6   | 8.6   | 22.6  | 22.6  | 17.6  | 22.6  |      | 5.6   | 10.6  |      |
| Yellow Time (s)         | 4.8   | 4.8   | 4.8   | 4.8   | 4.8   | 4.8   | 4.8   | 3.7   | 3.7   |      | 3.7   | 3.7   |      |
| All-Red Time (s)        | 2.6   | 2.6   | 2.6   | 2.6   | 2.6   | 2.6   | 2.6   | 3.7   | 3.7   |      | 3.7   | 3.7   |      |
| 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)     | 7.4   | 7.4   | 7.4   |       | 7.4   | 7.4   | 7.4   | 7.4   | 7.4   |      | 7.4   | 7.4   |      |
| Lead/Lag                | Lead  | Lead  | Lead  | Lag   | Lag   | Lag   | Lag   | Lead  | Lag   |      | Lead  | Lag   |      |
| Lead-Lag Optimize?      |       |       |       |       |       |       |       |       |       |      |       |       |      |
| Vehicle Extension (s)   | 5.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   |      | 3.0   | 3.0   |      |
| Minimum Gap (s)         | 5.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   |      | 3.0   | 3.0   |      |
| Time Before Reduce (s)  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |      | 0.0   | 0.0   |      |
| Time To Reduce (s)      | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |      | 0.0   | 0.0   |      |
| Recall Mode             | None  | Max   | Max   | None  | None  | C-Max | C-Max | None  | None  |      | None  | None  |      |
| Walk Time (s)           |       |       |       |       |       |       |       |       |       |      |       |       |      |
| Flash Dont Walk (s)     |       |       |       |       |       |       |       |       |       |      |       |       |      |
| Pedestrian Calls (#/hr) |       |       |       |       |       |       |       |       |       |      |       |       |      |
| Act Effct Green (s)     | 9.7   | 33.0  | 33.0  |       | 8.0   | 31.7  | 31.7  | 29.4  | 21.6  |      | 12.7  | 8.6   |      |

SR 520 Optimized AM Peak

ELH

Synchro 8 Report

Page 2

## Lanes, Volumes, Timings

### 1: Newfound Harbor Dr/Walmart & SR 520

| Lane Group              | EBL  | EBT   | EBR   | WBU  | WBL  | WBT   | WBR   | NBL  | NBT  | NBR | SBL  | SBT  | SBR |
|-------------------------|------|-------|-------|------|------|-------|-------|------|------|-----|------|------|-----|
| Actuated g/C Ratio      | 0.11 | 0.37  | 0.37  |      | 0.09 | 0.35  | 0.35  | 0.33 | 0.24 |     | 0.14 | 0.10 |     |
| v/c Ratio               | 0.41 | 0.42  | 0.18  |      | 0.46 | 0.46  | 0.05  | 0.63 | 0.24 |     | 0.15 | 0.51 |     |
| Control Delay           | 44.2 | 25.3  | 0.5   |      | 33.8 | 15.2  | 0.1   | 29.5 | 8.1  |     | 21.2 | 29.2 |     |
| Queue Delay             | 0.0  | 0.0   | 0.0   |      | 0.0  | 0.0   | 0.0   | 0.0  | 0.0  |     | 0.0  | 0.0  |     |
| Total Delay             | 44.2 | 25.3  | 0.5   |      | 33.8 | 15.2  | 0.1   | 29.5 | 8.1  |     | 21.2 | 29.2 |     |
| LOS                     | D    | C     | A     |      | C    | B     | A     | C    | A    |     | C    | C    |     |
| Approach Delay          | 23.4 |       |       |      | 16.0 |       |       |      | 23.1 |     | 27.3 |      |     |
| Approach LOS            |      | C     |       |      |      | B     |       |      | C    |     | C    |      |     |
| 90th %ile Green (s)     | 9.6  | 23.6  | 23.6  | 8.6  | 8.6  | 22.6  | 22.6  | 17.6 | 22.6 |     | 5.6  | 10.6 |     |
| 90th %ile Term Code     | Max  | Coord | Coord | Max  | Max  | Coord | Coord | Max  | Hold |     | Max  | Max  |     |
| 70th %ile Green (s)     | 10.2 | 24.2  | 24.2  | 8.6  | 8.6  | 22.6  | 22.6  | 17.6 | 22.0 |     | 5.6  | 10.0 |     |
| 70th %ile Term Code     | Max  | Coord | Coord | Max  | Max  | Coord | Coord | Max  | Hold |     | Max  | Gap  |     |
| 50th %ile Green (s)     | 11.2 | 26.0  | 26.0  | 8.6  | 8.6  | 23.4  | 23.4  | 17.6 | 20.2 |     | 5.6  | 8.2  |     |
| 50th %ile Term Code     | Gap  | Coord | Coord | Max  | Max  | Coord | Coord | Max  | Hold |     | Max  | Gap  |     |
| 30th %ile Green (s)     | 9.8  | 28.4  | 28.4  | 8.6  | 8.6  | 27.2  | 27.2  | 16.4 | 30.8 |     | 0.0  | 7.0  |     |
| 30th %ile Term Code     | Gap  | Coord | Coord | Hold | Hold | Coord | Coord | Gap  | Hold |     | Skip | Min  |     |
| 10th %ile Green (s)     | 0.0  | 62.9  | 62.9  | 0.0  | 0.0  | 62.9  | 62.9  | 12.3 | 12.3 |     | 0.0  | 0.0  |     |
| 10th %ile Term Code     | Skip | Coord | Coord | Skip | Skip | Coord | Coord | Gap  | Hold |     | Skip | Skip |     |
| Stops (vph)             | 64   | 543   | 0     |      | 56   | 427   | 0     | 183  | 21   |     | 25   | 49   |     |
| Fuel Used(gal)          | 2    | 17    | 1     |      | 2    | 12    | 0     | 5    | 1    |     | 0    | 1    |     |
| CO Emissions (g/hr)     | 144  | 1164  | 57    |      | 109  | 835   | 9     | 319  | 82   |     | 29   | 93   |     |
| NOx Emissions (g/hr)    | 28   | 227   | 11    |      | 21   | 162   | 2     | 62   | 16   |     | 6    | 18   |     |
| VOC Emissions (g/hr)    | 33   | 270   | 13    |      | 25   | 193   | 2     | 74   | 19   |     | 7    | 22   |     |
| Dilemma Vehicles (#)    | 0    | 40    | 0     |      | 0    | 50    | 0     | 0    | 0    |     | 0    | 0    |     |
| Queue Length 50th (ft)  | 41   | 139   | 0     |      | 40   | 101   | 0     | 115  | 4    |     | 12   | 28   |     |
| Queue Length 95th (ft)  | 86   | 186   | 0     |      | 55   | 73    | 0     | 174  | 45   |     | 30   | 76   |     |
| Internal Link Dist (ft) |      | 923   |       |      | 550  |       |       | 987  |      |     | 549  |      |     |
| Turn Bay Length (ft)    | 300  |       | 200   |      | 240  |       |       | 125  |      |     |      |      |     |
| Base Capacity (vph)     | 198  | 1914  | 800   |      | 170  | 1858  | 740   | 461  | 527  |     | 220  | 245  |     |
| 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       | 0.39 | 0.42  | 0.18  |      | 0.42 | 0.46  | 0.05  | 0.60 | 0.22 |     | 0.15 | 0.43 |     |

## Lanes, Volumes, Timings

### 1: Newfound Harbor Dr/Walmart & SR 520

#### Intersection Summary

Area Type: Other

Cycle Length: 90

Actuated Cycle Length: 90

Offset: 6 (7%), Referenced to phase 2:WBT, Start of Yellow

Natural Cycle: 60

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 0.63

Intersection Signal Delay: 20.7

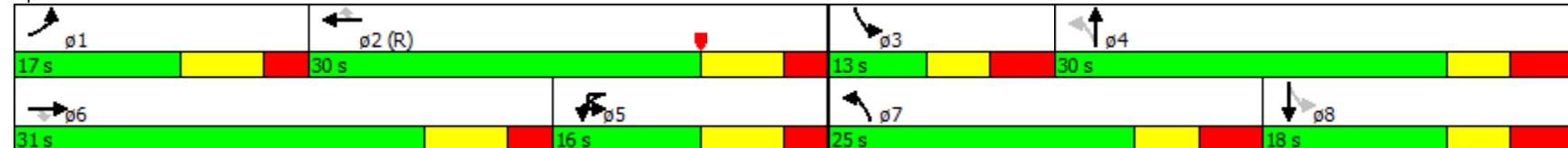
Intersection LOS: C

Intersection Capacity Utilization 57.0%

ICU Level of Service B

Analysis Period (min) 15

#### Splits and Phases: 1: Newfound Harbor Dr/Walmart & SR 520



## Lanes, Volumes, Timings

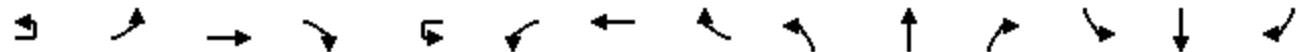
### 2: Dodge/N. Banana River Dr & SR 520



| Lane Group                 | EBU  | EBL   | EBT   | EBR   | WBU  | WBL   | WBT   | WBR   | NBL   | NBT   | NBR   | SBL   | SBT   | SBR   |
|----------------------------|------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Lane Configurations        |      |       |       |       |      |       |       |       |       |       |       |       |       |       |
| Volume (vph)               | 26   | 106   | 697   | 22    | 16   | 3     | 717   | 65    | 8     | 3     | 2     | 114   | 10    | 148   |
| Ideal Flow (vphpl)         | 1950 | 1950  | 1950  | 1950  | 1950 | 1950  | 1950  | 1950  | 1950  | 1950  | 1950  | 1950  | 1950  | 1950  |
| Lane Width (ft)            | 11   | 11    | 12    | 12    | 11   | 11    | 12    | 12    | 12    | 12    | 12    | 12    | 12    | 12    |
| Grade (%)                  |      |       | 0%    |       |      |       | 0%    |       |       | 0%    |       |       | 0%    |       |
| Storage Length (ft)        |      | 400   |       |       | 0    |       | 200   |       | 700   | 0     |       | 0     | 0     | 100   |
| Storage Lanes              |      | 1     |       |       | 0    |       | 1     |       | 1     | 1     |       | 0     | 1     | 1     |
| Taper Length (ft)          |      | 50    |       |       |      | 50    |       |       | 25    |       |       | 25    |       |       |
| Lane Util. Factor          | 0.91 | 1.00  | 0.91  | 0.91  | 0.91 | 1.00  | 0.91  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  |
| Ped Bike Factor            |      |       |       |       |      |       |       |       |       |       |       |       |       |       |
| Frt                        |      |       | 0.995 |       |      |       |       | 0.850 |       | 0.950 |       |       | 0.860 |       |
| Flt Protected              |      |       | 0.950 |       |      |       | 0.950 |       |       | 0.950 |       | 0.950 |       |       |
| Satd. Flow (prot)          | 0    | 1756  | 5147  | 0     | 0    | 1761  | 5219  | 1579  | 1852  | 1852  | 0     | 1852  | 1646  | 0     |
| Flt Permitted              |      | 0.950 |       |       |      | 0.950 |       |       | 0.513 |       |       | 0.754 |       |       |
| Satd. Flow (perm)          | 0    | 1756  | 5147  | 0     | 0    | 1761  | 5219  | 1579  | 1000  | 1852  | 0     | 1470  | 1646  | 0     |
| Right Turn on Red          |      |       |       | Yes   |      |       |       | Yes   |       |       | Yes   |       |       | Yes   |
| Satd. Flow (RTOR)          |      |       | 7     |       |      |       |       | 196   |       | 2     |       | 172   |       |       |
| Link Speed (mph)           |      | 50    |       |       |      |       | 50    |       |       | 30    |       | 25    |       |       |
| Link Distance (ft)         |      | 712   |       |       |      | 813   |       |       | 547   |       |       | 1044  |       |       |
| Travel Time (s)            |      | 9.7   |       |       |      | 11.1  |       |       | 12.4  |       |       | 28.5  |       |       |
| Confl. Peds. (#/hr)        |      |       |       |       |      |       |       |       |       |       |       |       |       |       |
| Confl. Bikes (#/hr)        |      |       |       |       |      |       |       |       |       |       |       |       |       |       |
| Peak Hour Factor           | 0.92 | 0.96  | 0.96  | 0.96  | 0.92 | 0.95  | 0.95  | 0.95  | 0.81  | 0.81  | 0.81  | 0.86  | 0.86  | 0.86  |
| Growth Factor              | 100% | 100%  | 100%  | 100%  | 100% | 100%  | 100%  | 100%  | 100%  | 100%  | 100%  | 100%  | 100%  | 100%  |
| Heavy Vehicles (%)         | 2%   | 2%    | 3%    | 0%    | 2%   | 0%    | 2%    | 5%    | 0%    | 0%    | 0%    | 0%    | 0%    | 2%    |
| Bus Blockages (#/hr)       | 0    | 0     | 0     | 0     | 0    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Parking (#/hr)             |      |       |       |       |      |       |       |       |       |       |       |       |       |       |
| Mid-Block Traffic (%)      |      |       | 0%    |       |      |       | 0%    |       |       | 0%    |       |       | 0%    |       |
| Adj. Flow (vph)            | 28   | 110   | 726   | 23    | 17   | 3     | 755   | 68    | 10    | 4     | 2     | 133   | 12    | 172   |
| Shared Lane Traffic (%)    |      |       |       |       |      |       |       |       |       |       |       |       |       |       |
| Lane Group Flow (vph)      | 0    | 138   | 749   | 0     | 0    | 20    | 755   | 68    | 10    | 6     | 0     | 133   | 184   | 0     |
| Enter Blocked Intersection | No   | No    | No    | No    | No   | No    | No    | No    | No    | No    | No    | No    | No    | No    |
| Lane Alignment             | R NA | Left  | Left  | Right | R NA | Left  | Left  | Right | Left  | Left  | Right | Left  | Left  | Right |
| Median Width(ft)           |      | 12    |       |       |      | 12    |       |       | 12    |       |       | 12    |       |       |

## Lanes, Volumes, Timings

### 2: Dodge/N. Banana River Dr & SR 520



| Lane Group              | EBU   | EBL   | EBT   | EBR  | WBU   | WBL   | WBT   | WBR   | NBL   | NBT   | NBR  | SBL   | SBT   | SBR  |
|-------------------------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|------|-------|-------|------|
| Link Offset(ft)         |       |       |       | 0    |       |       | 0     |       |       | 0     |      |       | 0     |      |
| Crosswalk Width(ft)     |       |       |       | 16   |       |       | 16    |       |       | 16    |      |       | 16    |      |
| Two way Left Turn Lane  |       |       |       |      |       |       |       |       |       |       |      |       |       |      |
| Headway Factor          | 1.01  | 1.01  | 0.97  | 0.97 | 1.01  | 1.01  | 0.97  | 0.97  | 0.97  | 0.97  | 0.97 | 0.97  | 0.97  | 0.97 |
| Turning Speed (mph)     | 9     | 15    |       | 9    | 9     | 15    |       | 9     | 15    |       | 9    | 15    |       | 9    |
| Number of Detectors     | 1     | 1     | 2     |      | 1     | 1     | 2     | 1     | 1     | 2     |      | 1     | 2     |      |
| Detector Template       | Left  | Left  | Thru  |      | Left  | Left  | Thru  | Right | Left  | Thru  |      | Left  | Thru  |      |
| Leading Detector (ft)   | 20    | 20    | 100   |      | 20    | 20    | 100   | 20    | 20    | 100   |      | 20    | 100   |      |
| Trailing Detector (ft)  | 0     | 0     | 0     |      | 0     | 0     | 0     | 0     | 0     | 0     |      | 0     | 0     |      |
| Turn Type               | Prot  | Prot  | NA    |      | Prot  | Prot  | NA    | Perm  | Perm  | NA    |      | Perm  | NA    |      |
| Protected Phases        | 1     | 1     | 6     |      | 5     | 5     | 2     |       |       | 4     |      |       | 8     |      |
| Permitted Phases        |       |       |       |      |       |       |       | 2     | 4     |       |      | 8     |       |      |
| Detector Phase          | 1     | 1     | 6     |      | 5     | 5     | 2     | 2     | 4     | 4     |      | 8     | 8     |      |
| Switch Phase            |       |       |       |      |       |       |       |       |       |       |      |       |       |      |
| Minimum Initial (s)     | 5.0   | 5.0   | 12.0  |      | 5.0   | 5.0   | 12.0  | 12.0  | 7.0   | 7.0   |      | 7.0   | 7.0   |      |
| Minimum Split (s)       | 11.6  | 11.6  | 19.1  |      | 11.6  | 11.6  | 19.1  | 19.1  | 13.0  | 13.0  |      | 13.0  | 13.0  |      |
| Total Split (s)         | 26.0  | 26.0  | 49.0  |      | 15.0  | 15.0  | 38.0  | 38.0  | 26.0  | 26.0  |      | 26.0  | 26.0  |      |
| Total Split (%)         | 28.9% | 28.9% | 54.4% |      | 16.7% | 16.7% | 42.2% | 42.2% | 28.9% | 28.9% |      | 28.9% | 28.9% |      |
| Maximum Green (s)       | 19.4  | 19.4  | 41.9  |      | 8.4   | 8.4   | 30.9  | 30.9  | 20.0  | 20.0  |      | 20.0  | 20.0  |      |
| Yellow Time (s)         | 4.3   | 4.3   | 4.8   |      | 4.3   | 4.3   | 4.8   | 4.8   | 3.0   | 3.0   |      | 3.0   | 3.0   |      |
| All-Red Time (s)        | 2.3   | 2.3   | 2.3   |      | 2.3   | 2.3   | 2.3   | 2.3   | 3.0   | 3.0   |      | 3.0   | 3.0   |      |
| 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)     | 6.6   | 7.1   |       |      | 6.6   | 7.1   | 7.1   | 6.0   | 6.0   | 6.0   |      | 6.0   | 6.0   |      |
| Lead/Lag                | Lead  | Lead  | Lag   |      | Lead  | Lead  | Lag   | Lag   |       |       |      |       |       |      |
| Lead-Lag Optimize?      |       |       |       |      |       |       |       |       |       |       |      |       |       |      |
| Vehicle Extension (s)   | 3.0   | 3.0   | 3.0   |      | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   |      | 3.0   | 3.0   |      |
| Minimum Gap (s)         | 3.0   | 3.0   | 3.0   |      | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   |      | 3.0   | 3.0   |      |
| Time Before Reduce (s)  | 0.0   | 0.0   | 0.0   |      | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |      | 0.0   | 0.0   |      |
| Time To Reduce (s)      | 0.0   | 0.0   | 0.0   |      | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |      | 0.0   | 0.0   |      |
| Recall Mode             | None  | None  | C-Max |      | None  | None  | C-Max | C-Max | None  | None  |      | None  | None  |      |
| Walk Time (s)           |       |       |       |      |       |       |       |       |       |       |      |       |       |      |
| Flash Dont Walk (s)     |       |       |       |      |       |       |       |       |       |       |      |       |       |      |
| Pedestrian Calls (#/hr) |       |       |       |      |       |       |       |       |       |       |      |       |       |      |
| Act Effct Green (s)     | 12.3  | 57.6  |       |      | 6.6   | 44.4  | 44.4  | 13.5  | 13.5  |       | 13.5 | 13.5  |       |      |

SR 520 Optimized AM Peak

ELH

Synchro 8 Report

Page 6

Lanes, Volumes, Timings  
2: Dodge/N. Banana River Dr & SR 520

| Lane Group              | EBU  | EBL  | EBT   | EBR | WBU  | WBL  | WBT   | WBR   | NBL  | NBT  | NBR | SBL  | SBT  | SBR |
|-------------------------|------|------|-------|-----|------|------|-------|-------|------|------|-----|------|------|-----|
| Actuated g/C Ratio      |      | 0.14 | 0.64  |     |      | 0.07 | 0.49  | 0.49  | 0.15 | 0.15 |     | 0.15 | 0.15 |     |
| v/c Ratio               |      | 0.57 | 0.23  |     |      | 0.16 | 0.29  | 0.08  | 0.07 | 0.02 |     | 0.60 | 0.47 |     |
| Control Delay           |      | 48.9 | 4.4   |     |      | 44.6 | 10.1  | 0.2   | 30.9 | 25.6 |     | 46.3 | 10.3 |     |
| Queue Delay             |      | 0.0  | 0.0   |     |      | 0.0  | 0.0   | 0.0   | 0.0  | 0.0  |     | 0.0  | 0.0  |     |
| Total Delay             |      | 48.9 | 4.4   |     |      | 44.6 | 10.1  | 0.2   | 30.9 | 25.6 |     | 46.3 | 10.3 |     |
| LOS                     |      | D    | A     |     |      | D    | B     | A     | C    | C    |     | D    | B    |     |
| Approach Delay          |      |      | 11.4  |     |      |      | 10.1  |       |      | 28.9 |     |      | 25.4 |     |
| Approach LOS            |      |      | B     |     |      |      | B     |       |      | C    |     |      | C    |     |
| 90th %ile Green (s)     | 17.1 | 17.1 | 42.4  |     | 8.2  | 8.2  | 33.5  | 33.5  | 19.7 | 19.7 |     | 19.7 | 19.7 |     |
| 90th %ile Term Code     | Gap  | Gap  | Coord |     | Gap  | Gap  | Coord | Coord | Hold | Hold |     | Gap  | Gap  |     |
| 70th %ile Green (s)     | 14.3 | 14.3 | 47.4  |     | 7.2  | 7.2  | 40.3  | 40.3  | 15.7 | 15.7 |     | 15.7 | 15.7 |     |
| 70th %ile Term Code     | Gap  | Gap  | Coord |     | Gap  | Gap  | Coord | Coord | Hold | Hold |     | Gap  | Gap  |     |
| 50th %ile Green (s)     | 12.3 | 12.3 | 63.5  |     | 0.0  | 0.0  | 44.6  | 44.6  | 13.4 | 13.4 |     | 13.4 | 13.4 |     |
| 50th %ile Term Code     | Gap  | Gap  | Coord |     | Skip | Skip | Coord | Coord | Hold | Hold |     | Gap  | Gap  |     |
| 30th %ile Green (s)     | 10.4 | 10.4 | 65.8  |     | 0.0  | 0.0  | 48.8  | 48.8  | 11.1 | 11.1 |     | 11.1 | 11.1 |     |
| 30th %ile Term Code     | Gap  | Gap  | Coord |     | Skip | Skip | Coord | Coord | Hold | Hold |     | Gap  | Gap  |     |
| 10th %ile Green (s)     | 7.6  | 7.6  | 69.1  |     | 0.0  | 0.0  | 54.9  | 54.9  | 7.8  | 7.8  |     | 7.8  | 7.8  |     |
| 10th %ile Term Code     | Gap  | Gap  | Coord |     | Skip | Skip | Coord | Coord | Hold | Hold |     | Gap  | Gap  |     |
| Stops (vph)             | 127  | 127  |       |     |      | 21   | 232   | 0     | 9    | 6    |     | 103  | 28   |     |
| Fuel Used(gal)          | 4    | 6    |       |     |      | 1    | 9     | 0     | 0    | 0    |     | 2    | 2    |     |
| CO Emissions (g/hr)     | 269  | 409  |       |     |      | 40   | 610   | 24    | 9    | 6    |     | 174  | 129  |     |
| NOx Emissions (g/hr)    | 52   | 80   |       |     |      | 8    | 119   | 5     | 2    | 1    |     | 34   | 25   |     |
| VOC Emissions (g/hr)    | 62   | 95   |       |     |      | 9    | 141   | 5     | 2    | 1    |     | 40   | 30   |     |
| Dilemma Vehicles (#)    | 0    | 57   |       |     |      | 0    | 37    | 0     | 0    | 0    |     | 0    | 0    |     |
| Queue Length 50th (ft)  | 83   | 21   |       |     |      | 12   | 46    | 0     | 5    | 2    |     | 72   | 6    |     |
| Queue Length 95th (ft)  | 138  | 42   |       |     |      | 36   | 68    | 0     | 16   | 10   |     | 114  | 52   |     |
| Internal Link Dist (ft) |      | 632  |       |     |      |      | 733   |       |      | 467  |     |      | 964  |     |
| Turn Bay Length (ft)    | 400  |      |       |     |      | 200  |       | 700   |      |      |     |      |      |     |
| Base Capacity (vph)     | 378  | 3298 |       |     |      | 164  | 2575  | 878   | 222  | 413  |     | 326  | 499  |     |
| 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       | 0.37 | 0.23 |       |     |      | 0.12 | 0.29  | 0.08  | 0.05 | 0.01 |     | 0.41 | 0.37 |     |

## Lanes, Volumes, Timings

### 2: Dodge/N. Banana River Dr & SR 520

#### Intersection Summary

Area Type: Other

Cycle Length: 90

Actuated Cycle Length: 90

Offset: 0 (0%), Referenced to phase 2:WBT and 6:EBT, Start of Yellow

Natural Cycle: 50

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 0.60

Intersection Signal Delay: 13.1

Intersection LOS: B

Intersection Capacity Utilization 49.9%

ICU Level of Service A

Analysis Period (min) 15

Splits and Phases: 2: Dodge/N. Banana River Dr & SR 520



## Lanes, Volumes, Timings

### 3: S. Banana River Dr/Milford Point Dr & SR 520

|                            | ↙    | ↗     | →     | ↘     | ↖    | ↗     | ←     | ↖     | ↗     | ↖     | ↑     | ↗    | ↘     | ↓     | ↖ |
|----------------------------|------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|------|-------|-------|---|
| Lane Group                 | EBU  | EBL   | EBT   | EBR   | WBU  | WBL   | WBT   | WBR   | NBL   | NBT   | NBR   | SBL  | SBT   | SBR   |   |
| Lane Configurations        |      |       |       |       |      |       |       |       |       |       |       |      |       |       |   |
| Volume (vph)               | 29   | 7     | 715   | 64    | 14   | 11    | 746   | 2     | 44    | 2     | 32    | 1    | 3     | 14    |   |
| Ideal Flow (vphpl)         | 1950 | 1950  | 1950  | 1950  | 1950 | 1950  | 1950  | 1950  | 1950  | 1950  | 1950  | 1950 | 1950  | 1950  |   |
| Lane Width (ft)            | 11   | 11    | 12    | 12    | 11   | 11    | 12    | 12    | 12    | 12    | 12    | 12   | 12    | 12    |   |
| Grade (%)                  |      |       | 0%    |       |      |       | 0%    |       |       | 0%    |       |      | 0%    |       |   |
| Storage Length (ft)        |      | 200   |       | 0     |      | 200   |       | 250   | 0     |       | 0     | 0    |       | 0     |   |
| Storage Lanes              |      | 1     |       | 1     |      | 1     |       | 1     | 0     |       | 0     | 0    |       | 0     |   |
| Taper Length (ft)          |      | 50    |       |       |      | 50    |       |       | 25    |       |       | 25   |       |       |   |
| Lane Util. Factor          | 0.95 | 1.00  | 0.95  | 1.00  | 0.91 | 1.00  | 0.91  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00 | 1.00  | 1.00  |   |
| Ped Bike Factor            |      |       |       |       |      |       |       |       |       |       |       |      |       |       |   |
| Frt                        |      |       |       | 0.850 |      |       |       | 0.850 |       | 0.945 |       |      | 0.893 |       |   |
| Flt Protected              |      |       | 0.950 |       |      |       | 0.950 |       |       | 0.973 |       |      | 0.998 |       |   |
| Satd. Flow (prot)          | 0    | 1762  | 3632  | 1564  | 0    | 1771  | 5271  | 1658  | 0     | 1744  | 0     | 0    | 1738  | 0     |   |
| Flt Permitted              |      | 0.950 |       |       |      | 0.950 |       |       | 0.812 |       |       |      | 0.987 |       |   |
| Satd. Flow (perm)          | 0    | 1762  | 3632  | 1564  | 0    | 1771  | 5271  | 1658  | 0     | 1455  | 0     | 0    | 1719  | 0     |   |
| Right Turn on Red          |      |       |       | Yes   |      |       |       | Yes   |       |       | Yes   |      |       | Yes   |   |
| Satd. Flow (RTOR)          |      |       |       | 122   |      |       |       | 122   |       | 35    |       |      | 19    |       |   |
| Link Speed (mph)           |      | 50    |       |       |      | 50    |       |       | 25    |       |       | 30   |       |       |   |
| Link Distance (ft)         |      | 813   |       |       |      | 414   |       |       | 776   |       |       | 1028 |       |       |   |
| Travel Time (s)            |      | 11.1  |       |       |      | 5.6   |       |       | 21.2  |       |       | 23.4 |       |       |   |
| Confl. Peds. (#/hr)        |      |       |       |       |      |       |       |       |       |       |       |      |       |       |   |
| Confl. Bikes (#/hr)        |      |       |       |       |      |       |       |       |       |       |       |      |       |       |   |
| Peak Hour Factor           | 0.92 | 0.94  | 0.94  | 0.94  | 0.92 | 0.89  | 0.89  | 0.89  | 0.75  | 0.75  | 0.75  | 0.75 | 0.75  | 0.75  |   |
| Growth Factor              | 100% | 100%  | 100%  | 100%  | 100% | 100%  | 100%  | 100%  | 100%  | 100%  | 100%  | 100% | 100%  | 100%  |   |
| Heavy Vehicles (%)         | 2%   | 0%    | 2%    | 6%    | 2%   | 0%    | 1%    | 0%    | 5%    | 0%    | 0%    | 0%   | 0%    | 0%    |   |
| Bus Blockages (#/hr)       | 0    | 0     | 0     | 0     | 0    | 0     | 0     | 0     | 0     | 0     | 0     | 0    | 0     | 0     |   |
| Parking (#/hr)             |      |       |       |       |      |       |       |       |       |       |       |      |       |       |   |
| Mid-Block Traffic (%)      |      |       |       | 0%    |      |       |       | 0%    |       |       | 0%    |      |       | 0%    |   |
| Adj. Flow (vph)            | 32   | 7     | 761   | 68    | 15   | 12    | 838   | 2     | 59    | 3     | 43    | 1    | 4     | 19    |   |
| Shared Lane Traffic (%)    |      |       |       |       |      |       |       |       |       |       |       |      |       |       |   |
| Lane Group Flow (vph)      | 0    | 39    | 761   | 68    | 0    | 27    | 838   | 2     | 0     | 105   | 0     | 0    | 24    | 0     |   |
| Enter Blocked Intersection | No   | No    | No    | No    | No   | No    | No    | No    | No    | No    | No    | No   | No    | No    |   |
| Lane Alignment             | R NA | Left  | Left  | Right | R NA | Left  | Left  | Right | Left  | Left  | Right | Left | Left  | Right |   |
| Median Width(ft)           |      |       |       | 11    |      |       | 11    |       |       | 0     |       |      | 0     |       |   |

## Lanes, Volumes, Timings

### 3: S. Banana River Dr/Milford Point Dr & SR 520

|                         | ↙     | ↗     | →     | ↘     | ↖     | ←     | ↗ ↘   | ↖ ↙   | ↑     | ↗ ↙   | ↖ ↘   | ↓     | ↖ ↙  |      |
|-------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|
| Lane Group              | EBU   | EBL   | EBT   | EBR   | WBU   | WBL   | WBT   | WBR   | NBL   | NBT   | NBR   | SBL   | SBT  | SBR  |
| Link Offset(ft)         |       |       | 0     |       |       |       | 0     |       |       | 0     |       |       | 0    |      |
| Crosswalk Width(ft)     |       |       | 16    |       |       |       | 16    |       |       | 16    |       |       | 16   |      |
| Two way Left Turn Lane  |       |       |       |       |       |       |       |       |       |       |       |       |      |      |
| Headway Factor          | 1.01  | 1.01  | 0.97  | 0.97  | 1.01  | 1.01  | 0.97  | 0.97  | 0.97  | 0.97  | 0.97  | 0.97  | 0.97 | 0.97 |
| Turning Speed (mph)     | 9     | 15    |       | 9     | 9     | 15    |       | 9     | 15    |       | 9     | 15    |      | 9    |
| Number of Detectors     | 1     | 1     | 2     | 1     | 1     | 1     | 2     | 1     | 1     | 2     | 1     | 2     |      |      |
| Detector Template       | Left  | Left  | Thru  | Right | Left  | Left  | Thru  | Right | Left  | Thru  | Left  | Thru  |      |      |
| Leading Detector (ft)   | 20    | 20    | 100   | 20    | 20    | 20    | 100   | 20    | 20    | 100   | 20    | 100   |      |      |
| Trailing Detector (ft)  | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |      |      |
| Turn Type               | Prot  | Prot  | NA    | Perm  | Prot  | Prot  | NA    | Perm  | Perm  | NA    | Perm  | NA    |      |      |
| Protected Phases        | 1     | 1     | 6     |       | 5     | 5     | 2     |       |       | 4     |       | 8     |      |      |
| Permitted Phases        |       |       |       | 6     |       |       |       | 2     | 4     |       | 8     |       |      |      |
| Detector Phase          | 1     | 1     | 6     | 6     | 5     | 5     | 2     | 2     | 4     | 4     | 8     | 8     |      |      |
| Switch Phase            |       |       |       |       |       |       |       |       |       |       |       |       |      |      |
| Minimum Initial (s)     | 5.0   | 5.0   | 12.0  | 12.0  | 5.0   | 5.0   | 12.0  | 12.0  | 7.0   | 7.0   | 7.0   | 7.0   |      |      |
| Minimum Split (s)       | 11.9  | 11.9  | 19.4  | 19.4  | 11.9  | 11.9  | 19.4  | 19.4  | 13.2  | 13.2  | 13.2  | 13.2  |      |      |
| Total Split (s)         | 17.0  | 17.0  | 49.0  | 49.0  | 17.0  | 17.0  | 49.0  | 49.0  | 24.0  | 24.0  | 24.0  | 24.0  |      |      |
| Total Split (%)         | 18.9% | 18.9% | 54.4% | 54.4% | 18.9% | 18.9% | 54.4% | 54.4% | 26.7% | 26.7% | 26.7% | 26.7% |      |      |
| Maximum Green (s)       | 10.1  | 10.1  | 41.6  | 41.6  | 10.1  | 10.1  | 41.6  | 41.6  | 17.8  | 17.8  | 17.8  | 17.8  |      |      |
| Yellow Time (s)         | 4.3   | 4.3   | 4.8   | 4.8   | 4.3   | 4.3   | 4.8   | 4.8   | 3.2   | 3.2   | 3.2   | 3.2   |      |      |
| All-Red Time (s)        | 2.6   | 2.6   | 2.6   | 2.6   | 2.6   | 2.6   | 2.6   | 2.6   | 3.0   | 3.0   | 3.0   | 3.0   |      |      |
| 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)     | 6.9   | 7.4   | 7.4   |       | 6.9   | 7.4   | 7.4   |       | 6.2   |       |       | 6.2   |      |      |
| Lead/Lag                | Lead  | Lead  | Lag   | Lag   | Lead  | Lead  | Lag   | Lag   |       |       |       |       |      |      |
| Lead-Lag Optimize?      |       |       |       |       |       |       |       |       |       |       |       |       |      |      |
| Vehicle Extension (s)   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   |      |      |
| Minimum Gap (s)         | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   |      |      |
| Time Before Reduce (s)  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |      |      |
| Time To Reduce (s)      | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |      |      |
| Recall Mode             | None  | None  | C-Max | C-Max | None  | None  | C-Max | C-Max | None  | None  | None  | None  |      |      |
| Walk Time (s)           |       |       |       |       |       |       |       |       |       |       |       |       |      |      |
| Flash Dont Walk (s)     |       |       |       |       |       |       |       |       |       |       |       |       |      |      |
| Pedestrian Calls (#/hr) |       |       |       |       |       |       |       |       |       |       |       |       |      |      |
| Act Effct Green (s)     | 7.5   | 64.2  | 64.2  |       | 6.9   | 61.0  | 61.0  |       | 10.3  |       | 10.3  |       |      |      |

## Lanes, Volumes, Timings

### 3: S. Banana River Dr/Milford Point Dr & SR 520

| Lane Group              | EBU  | EBL  | EBT   | EBR   | WBU  | WBL  | WBT   | WBR   | NBL  | NBT  | NBR | SBL  | SBT  | SBR |
|-------------------------|------|------|-------|-------|------|------|-------|-------|------|------|-----|------|------|-----|
| Actuated g/C Ratio      | 0.08 | 0.71 | 0.71  |       | 0.08 | 0.68 | 0.68  |       | 0.11 |      |     | 0.11 |      |     |
| v/c Ratio               | 0.27 | 0.29 | 0.06  |       | 0.20 | 0.23 | 0.00  |       | 0.54 |      |     | 0.11 |      |     |
| Control Delay           | 41.5 | 4.1  | 0.2   |       | 41.8 | 8.7  | 0.0   |       | 35.2 |      |     | 18.3 |      |     |
| Queue Delay             | 0.0  | 0.0  | 0.0   |       | 0.0  | 0.0  | 0.0   |       | 0.0  |      |     | 0.0  |      |     |
| Total Delay             | 41.5 | 4.1  | 0.2   |       | 41.8 | 8.7  | 0.0   |       | 35.2 |      |     | 18.3 |      |     |
| LOS                     | D    | A    | A     |       | D    | A    | A     |       | D    |      |     | B    |      |     |
| Approach Delay          |      | 5.5  |       |       |      | 9.7  |       |       | 35.2 |      |     | 18.3 |      |     |
| Approach LOS            |      | A    |       |       |      | A    |       |       | D    |      |     | B    |      |     |
| 90th %ile Green (s)     | 9.9  | 9.9  | 45.8  | 45.8  | 8.8  | 8.8  | 44.7  | 44.7  | 14.9 | 14.9 |     | 14.9 | 14.9 |     |
| 90th %ile Term Code     | Gap  | Gap  | Coord | Coord | Gap  | Gap  | Coord | Coord | Gap  | Gap  |     | Hold | Hold |     |
| 70th %ile Green (s)     | 8.4  | 8.4  | 50.0  | 50.0  | 7.6  | 7.6  | 49.2  | 49.2  | 11.9 | 11.9 |     | 11.9 | 11.9 |     |
| 70th %ile Term Code     | Gap  | Gap  | Coord | Coord | Gap  | Gap  | Coord | Coord | Gap  | Gap  |     | Hold | Hold |     |
| 50th %ile Green (s)     | 7.4  | 7.4  | 66.6  | 66.6  | 0.0  | 0.0  | 52.3  | 52.3  | 9.8  | 9.8  |     | 9.8  | 9.8  |     |
| 50th %ile Term Code     | Gap  | Gap  | Coord | Coord | Skip | Skip | Coord | Coord | Gap  | Gap  |     | Hold | Hold |     |
| 30th %ile Green (s)     | 0.0  | 0.0  | 68.7  | 68.7  | 0.0  | 0.0  | 68.7  | 68.7  | 7.7  | 7.7  |     | 7.7  | 7.7  |     |
| 30th %ile Term Code     | Skip | Skip | Coord | Coord | Skip | Skip | Coord | Coord | Gap  | Gap  |     | Hold | Hold |     |
| 10th %ile Green (s)     | 0.0  | 0.0  | 82.6  | 82.6  | 0.0  | 0.0  | 82.6  | 82.6  | 0.0  | 0.0  |     | 0.0  | 0.0  |     |
| 10th %ile Term Code     | Skip | Skip | Coord | Coord | Skip | Skip | Coord | Coord | Skip | Skip |     | Skip | Skip |     |
| Stops (vph)             | 20   | 127  | 0     |       | 24   | 297  | 0     |       | 51   |      |     | 9    |      |     |
| Fuel Used(gal)          | 1    | 6    | 0     |       | 1    | 12   | 0     |       | 1    |      |     | 0    |      |     |
| CO Emissions (g/hr)     | 56   | 436  | 23    |       | 53   | 807  | 1     |       | 90   |      |     | 18   |      |     |
| NOx Emissions (g/hr)    | 11   | 85   | 5     |       | 10   | 157  | 0     |       | 17   |      |     | 4    |      |     |
| VOC Emissions (g/hr)    | 13   | 101  | 5     |       | 12   | 187  | 0     |       | 21   |      |     | 4    |      |     |
| Dilemma Vehicles (#)    | 0    | 38   | 0     |       | 0    | 36   | 0     |       | 0    |      |     | 0    |      |     |
| Queue Length 50th (ft)  | 21   | 40   | 0     |       | 15   | 80   | 0     |       | 38   |      |     | 3    |      |     |
| Queue Length 95th (ft)  | 0    | 67   | 1     |       | 39   | 125  | 0     |       | 65   |      |     | 18   |      |     |
| Internal Link Dist (ft) |      | 733  |       |       |      | 334  |       |       | 696  |      |     | 948  |      |     |
| Turn Bay Length (ft)    | 200  |      |       |       | 200  |      | 250   |       |      |      |     |      |      |     |
| Base Capacity (vph)     | 197  | 2591 | 1151  |       | 198  | 3571 | 1162  |       | 315  |      |     | 355  |      |     |
| Starvation Cap Reductn  | 0    | 0    | 0     |       | 0    | 0    | 0     |       | 0    |      |     | 0    |      |     |
| Spillback Cap Reductn   | 0    | 0    | 0     |       | 0    | 0    | 0     |       | 0    |      |     | 0    |      |     |
| Storage Cap Reductn     | 0    | 0    | 0     |       | 0    | 0    | 0     |       | 0    |      |     | 0    |      |     |
| Reduced v/c Ratio       | 0.20 | 0.29 | 0.06  |       | 0.14 | 0.23 | 0.00  |       | 0.33 |      |     | 0.07 |      |     |

## Lanes, Volumes, Timings

### 3: S. Banana River Dr/Milford Point Dr & SR 520

#### Intersection Summary

Area Type: Other

Cycle Length: 90

Actuated Cycle Length: 90

Offset: 10 (11%), Referenced to phase 2:WBT and 6:EBT, Start of Yellow

Natural Cycle: 50

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 0.54

Intersection Signal Delay: 9.3

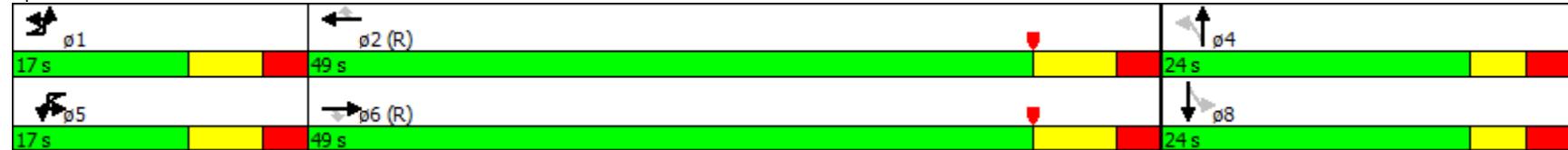
Intersection LOS: A

Intersection Capacity Utilization 51.5%

ICU Level of Service A

Analysis Period (min) 15

Splits and Phases: 3: S. Banana River Dr/Milford Point Dr & SR 520



## Lanes, Volumes, Timings

### 1: Newfound Harbor Dr/Walmart & SR 520

|                            | EBL   | EBT  | EBR   | WBU  | WBL   | WBT  | WBR   | NBL   | NBT  | NBR   | SBL   | SBT  | SBR   |
|----------------------------|-------|------|-------|------|-------|------|-------|-------|------|-------|-------|------|-------|
| Lane Configurations        | ↑     | ↑↑↑  | ↑     |      | ↑     | ↑↑↑  | ↑     | ↑     | ↑    |       | ↑     | ↑    |       |
| Volume (vph)               | 263   | 978  | 289   | 28   | 104   | 994  | 55    | 229   | 22   | 60    | 185   | 28   | 200   |
| Ideal Flow (vphpl)         | 1950  | 1950 | 1950  | 1950 | 1950  | 1950 | 1950  | 1950  | 1950 | 1950  | 1950  | 1950 | 1950  |
| Lane Width (ft)            | 11    | 12   | 12    | 11   | 11    | 12   | 12    | 12    | 12   | 12    | 12    | 12   | 12    |
| Grade (%)                  | 0%    |      |       |      |       | 0%   |       |       | 0%   |       |       | 0%   |       |
| Storage Length (ft)        | 300   |      | 200   |      | 240   |      | 0     | 125   |      | 0     | 0     |      | 0     |
| Storage Lanes              | 1     |      | 1     |      | 1     |      | 1     | 1     |      | 0     | 1     |      | 0     |
| Taper Length (ft)          | 100   |      |       |      | 50    |      |       | 300   |      |       | 25    |      |       |
| Lane Util. Factor          | 1.00  | 0.91 | 1.00  | 0.91 | 1.00  | 0.91 | 1.00  | 1.00  | 1.00 | 1.00  | 1.00  | 1.00 | 1.00  |
| Ped Bike Factor            |       |      |       |      |       |      |       |       |      |       |       |      |       |
| Frt                        |       |      | 0.850 |      |       |      | 0.850 |       |      | 0.890 |       |      | 0.869 |
| Flt Protected              | 0.950 |      |       |      | 0.950 |      |       | 0.950 |      |       | 0.950 |      |       |
| Satd. Flow (prot)          | 1791  | 5271 | 1658  | 0    | 1783  | 5271 | 1658  | 1852  | 1735 | 0     | 1852  | 1665 | 0     |
| Flt Permitted              | 0.950 |      |       |      | 0.950 |      |       | 0.430 |      |       | 0.617 |      |       |
| Satd. Flow (perm)          | 1791  | 5271 | 1658  | 0    | 1783  | 5271 | 1658  | 838   | 1735 | 0     | 1203  | 1665 | 0     |
| Right Turn on Red          |       |      | Yes   |      |       |      | Yes   |       |      | Yes   |       |      | Yes   |
| Satd. Flow (RTOR)          |       |      | 318   |      |       |      | 264   |       |      | 61    |       |      | 213   |
| Link Speed (mph)           | 50    |      |       |      | 50    |      |       | 30    |      |       | 30    |      |       |
| Link Distance (ft)         | 1003  |      |       |      | 630   |      |       | 1067  |      |       | 629   |      |       |
| Travel Time (s)            | 13.7  |      |       |      | 8.6   |      |       | 24.3  |      |       | 14.3  |      |       |
| Confl. Peds. (#/hr)        |       |      |       |      |       |      |       |       |      |       |       |      |       |
| Confl. Bikes (#/hr)        |       |      |       |      |       |      |       |       |      |       |       |      |       |
| Peak Hour Factor           | 0.91  | 0.91 | 0.91  | 0.92 | 0.93  | 0.93 | 0.93  | 0.98  | 0.98 | 0.98  | 0.94  | 0.94 | 0.94  |
| Growth Factor              | 100%  | 100% | 100%  | 100% | 100%  | 100% | 100%  | 100%  | 100% | 100%  | 100%  | 100% | 100%  |
| Heavy Vehicles (%)         | 0%    | 1%   | 0%    | 2%   | 0%    | 1%   | 0%    | 0%    | 0%   | 0%    | 0%    | 0%   | 2%    |
| Bus Blockages (#/hr)       | 0     | 0    | 0     | 0    | 0     | 0    | 0     | 0     | 0    | 0     | 0     | 0    | 0     |
| Parking (#/hr)             |       |      |       |      |       |      |       |       |      |       |       |      |       |
| Mid-Block Traffic (%)      |       |      | 0%    |      |       | 0%   |       |       | 0%   |       | 0%    |      |       |
| Adj. Flow (vph)            | 289   | 1075 | 318   | 30   | 112   | 1069 | 59    | 234   | 22   | 61    | 197   | 30   | 213   |
| Shared Lane Traffic (%)    |       |      |       |      |       |      |       |       |      |       |       |      |       |
| Lane Group Flow (vph)      | 289   | 1075 | 318   | 0    | 142   | 1069 | 59    | 234   | 83   | 0     | 197   | 243  | 0     |
| Enter Blocked Intersection | No    | No   | No    | No   | No    | No   | No    | No    | No   | No    | No    | No   | No    |
| Lane Alignment             | Left  | Left | Right | R NA | Left  | Left | Right | Left  | Left | Right | Left  | Left | Right |
| Median Width(ft)           | 11    |      |       |      | 11    |      |       |       |      | 12    |       | 12   |       |

## Lanes, Volumes, Timings

### 1: Newfound Harbor Dr/Walmart & SR 520

| Lane Group              | EBL   | EBT   | EBR   | WBU   | WBL   | WBT   | WBR   | NBL   | NBT   | NBR  | SBL   | SBT   | SBR  |
|-------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|------|
| Link Offset(ft)         | 0     |       |       |       |       | 0     |       |       | 0     |      |       | 0     |      |
| Crosswalk Width(ft)     | 16    |       |       |       |       | 16    |       |       | 16    |      |       | 16    |      |
| Two way Left Turn Lane  |       |       |       |       |       |       |       |       |       |      |       |       |      |
| Headway Factor          | 1.01  | 0.97  | 0.97  | 1.01  | 1.01  | 0.97  | 0.97  | 0.97  | 0.97  | 0.97 | 0.97  | 0.97  | 0.97 |
| Turning Speed (mph)     | 15    |       | 9     | 9     | 15    |       | 9     | 15    |       | 9    | 15    |       | 9    |
| Number of Detectors     | 1     | 2     | 1     | 1     | 1     | 2     | 1     | 1     | 2     |      | 1     | 2     |      |
| Detector Template       | Left  | Thru  | Right | Left  | Left  | Thru  | Right | Left  | Thru  |      | Left  | Thru  |      |
| Leading Detector (ft)   | 20    | 100   | 20    | 20    | 20    | 100   | 20    | 20    | 100   |      | 20    | 100   |      |
| Trailing Detector (ft)  | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |      | 0     | 0     |      |
| Turn Type               | Prot  | NA    | Perm  | Prot  | Prot  | NA    | Perm  | pm+pt | NA    |      | pm+pt | NA    |      |
| Protected Phases        | 1     | 6     |       | 5     | 5     | 2     |       | 7     | 4     |      | 3     | 8     |      |
| Permitted Phases        |       |       | 6     |       |       |       | 2     | 4     |       |      | 8     |       |      |
| Detector Phase          | 1     | 6     | 6     | 5     | 5     | 2     | 2     | 7     | 4     |      | 3     | 8     |      |
| Switch Phase            |       |       |       |       |       |       |       |       |       |      |       |       |      |
| Minimum Initial (s)     | 5.0   | 12.0  | 12.0  | 5.0   | 5.0   | 12.0  | 12.0  | 5.0   | 7.0   |      | 5.0   | 7.0   |      |
| Minimum Split (s)       | 12.4  | 19.4  | 19.4  | 12.4  | 12.4  | 19.4  | 19.4  | 12.4  | 14.4  |      | 12.4  | 14.4  |      |
| Total Split (s)         | 31.0  | 45.0  | 45.0  | 23.0  | 23.0  | 37.0  | 37.0  | 22.0  | 22.0  |      | 20.0  | 20.0  |      |
| Total Split (%)         | 28.2% | 40.9% | 40.9% | 20.9% | 20.9% | 33.6% | 33.6% | 20.0% | 20.0% |      | 18.2% | 18.2% |      |
| Maximum Green (s)       | 23.6  | 37.6  | 37.6  | 15.6  | 15.6  | 29.6  | 29.6  | 14.6  | 14.6  |      | 12.6  | 12.6  |      |
| Yellow Time (s)         | 4.8   | 4.8   | 4.8   | 4.8   | 4.8   | 4.8   | 4.8   | 3.7   | 3.7   |      | 3.7   | 3.7   |      |
| All-Red Time (s)        | 2.6   | 2.6   | 2.6   | 2.6   | 2.6   | 2.6   | 2.6   | 3.7   | 3.7   |      | 3.7   | 3.7   |      |
| 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)     | 7.4   | 7.4   | 7.4   |       | 7.4   | 7.4   | 7.4   | 7.4   | 7.4   |      | 7.4   | 7.4   |      |
| Lead/Lag                | Lead  | Lag   | Lag   | Lead  | Lead  | Lag   | Lag   | Lead  | Lag   |      | Lead  | Lag   |      |
| Lead-Lag Optimize?      |       |       |       |       |       |       |       |       |       |      |       |       |      |
| Vehicle Extension (s)   | 5.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   |      | 3.0   | 3.0   |      |
| Minimum Gap (s)         | 5.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   |      | 3.0   | 3.0   |      |
| Time Before Reduce (s)  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |      | 0.0   | 0.0   |      |
| Time To Reduce (s)      | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |      | 0.0   | 0.0   |      |
| Recall Mode             | None  | C-Max | C-Max | None  | None  | C-Max | C-Max | None  | None  |      | None  | None  |      |
| Walk Time (s)           |       |       |       |       |       |       |       |       |       |      |       |       |      |
| Flash Dont Walk (s)     |       |       |       |       |       |       |       |       |       |      |       |       |      |
| Pedestrian Calls (#/hr) |       |       |       |       |       |       |       |       |       |      |       |       |      |
| Act Effct Green (s)     | 22.6  | 43.8  | 43.8  |       | 13.3  | 34.4  | 34.4  | 23.6  | 10.7  |      | 23.3  | 9.1   |      |

SR 520 Optimized PM Peak

ELH

Synchro 8 Report

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## Lanes, Volumes, Timings

### 1: Newfound Harbor Dr/Walmart & SR 520



| Lane Group              | EBL  | EBT   | EBR   | WBU  | WBL  | WBT   | WBR   | NBL  | NBT  | NBR | SBL  | SBT  | SBR |
|-------------------------|------|-------|-------|------|------|-------|-------|------|------|-----|------|------|-----|
| Actuated g/C Ratio      | 0.21 | 0.40  | 0.40  |      | 0.12 | 0.31  | 0.31  | 0.21 | 0.10 |     | 0.21 | 0.08 |     |
| v/c Ratio               | 0.79 | 0.51  | 0.37  |      | 0.66 | 0.65  | 0.08  | 0.75 | 0.37 |     | 0.57 | 0.73 |     |
| Control Delay           | 57.2 | 27.0  | 4.2   |      | 72.2 | 23.6  | 0.3   | 49.8 | 21.7 |     | 39.1 | 23.1 |     |
| Queue Delay             | 0.0  | 0.0   | 0.0   |      | 0.0  | 0.0   | 0.0   | 0.0  | 0.0  |     | 0.0  | 0.0  |     |
| Total Delay             | 57.2 | 27.0  | 4.2   |      | 72.2 | 23.6  | 0.3   | 49.8 | 21.7 |     | 39.1 | 23.1 |     |
| LOS                     | E    | C     | A     |      | E    | C     | A     | D    | C    |     | D    | C    |     |
| Approach Delay          |      | 27.9  |       |      |      | 27.9  |       |      | 42.4 |     |      | 30.3 |     |
| Approach LOS            |      | C     |       |      |      | C     |       |      | D    |     |      | C    |     |
| 90th %ile Green (s)     | 23.6 | 37.6  | 37.6  | 15.6 | 15.6 | 29.6  | 29.6  | 14.6 | 14.6 |     | 12.6 | 12.6 |     |
| 90th %ile Term Code     | Max  | Coord | Coord | Max  | Max  | Coord | Coord | Max  | Hold |     | Max  | Max  |     |
| 70th %ile Green (s)     | 25.1 | 38.6  | 38.6  | 16.1 | 16.1 | 29.6  | 29.6  | 14.6 | 13.1 |     | 12.6 | 11.1 |     |
| 70th %ile Term Code     | Max  | Coord | Coord | Gap  | Gap  | Coord | Coord | Max  | Hold |     | Max  | Gap  |     |
| 50th %ile Green (s)     | 24.8 | 44.1  | 44.1  | 14.0 | 14.0 | 33.3  | 33.3  | 14.6 | 9.7  |     | 12.6 | 7.7  |     |
| 50th %ile Term Code     | Gap  | Coord | Coord | Gap  | Gap  | Coord | Coord | Max  | Hold |     | Max  | Gap  |     |
| 30th %ile Green (s)     | 21.9 | 47.0  | 47.0  | 11.8 | 11.8 | 36.9  | 36.9  | 14.6 | 9.0  |     | 12.6 | 7.0  |     |
| 30th %ile Term Code     | Gap  | Coord | Coord | Gap  | Gap  | Coord | Coord | Max  | Hold |     | Max  | Min  |     |
| 10th %ile Green (s)     | 17.6 | 51.5  | 51.5  | 8.8  | 8.8  | 42.7  | 42.7  | 13.1 | 0.0  |     | 27.5 | 7.0  |     |
| 10th %ile Term Code     | Gap  | Coord | Coord | Gap  | Gap  | Coord | Coord | Gap  | Skip |     | Hold | Min  |     |
| Stops (vph)             | 239  | 723   | 25    |      | 129  | 670   | 0     | 198  | 28   |     | 161  | 49   |     |
| Fuel Used(gal)          | 8    | 23    | 2     |      | 4    | 19    | 0     | 5    | 1    |     | 3    | 2    |     |
| CO Emissions (g/hr)     | 587  | 1587  | 173   |      | 311  | 1330  | 16    | 372  | 83   |     | 229  | 172  |     |
| NOx Emissions (g/hr)    | 114  | 309   | 34    |      | 61   | 259   | 3     | 72   | 16   |     | 44   | 33   |     |
| VOC Emissions (g/hr)    | 136  | 368   | 40    |      | 72   | 308   | 4     | 86   | 19   |     | 53   | 40   |     |
| Dilemma Vehicles (#)    | 0    | 44    | 0     |      | 0    | 63    | 0     | 0    | 0    |     | 0    | 0    |     |
| Queue Length 50th (ft)  | 190  | 205   | 0     |      | 104  | 128   | 0     | 138  | 15   |     | 114  | 20   |     |
| Queue Length 95th (ft)  | #312 | 275   | 59    |      | 172  | 165   | m0    | 201  | 60   |     | 170  | 100  |     |
| Internal Link Dist (ft) |      | 923   |       |      |      | 550   |       |      | 987  |     |      | 549  |     |
| Turn Bay Length (ft)    | 300  |       | 200   |      | 240  |       |       | 125  |      |     |      |      |     |
| Base Capacity (vph)     | 393  | 2096  | 851   |      | 254  | 1649  | 700   | 316  | 283  |     | 346  | 379  |     |
| 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       | 0.74 | 0.51  | 0.37  |      | 0.56 | 0.65  | 0.08  | 0.74 | 0.29 |     | 0.57 | 0.64 |     |

## Lanes, Volumes, Timings

### 1: Newfound Harbor Dr/Walmart & SR 520

#### Intersection Summary

Area Type: Other

Cycle Length: 110

Actuated Cycle Length: 110

Offset: 104 (95%), Referenced to phase 2:WBT and 6:EBT, Start of Yellow

Natural Cycle: 80

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 0.79

Intersection Signal Delay: 29.4

Intersection LOS: C

Intersection Capacity Utilization 83.4%

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.

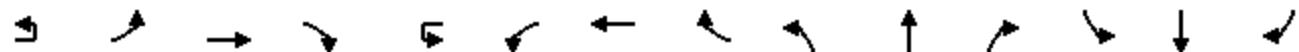
m Volume for 95th percentile queue is metered by upstream signal.

#### Splits and Phases: 1: Newfound Harbor Dr/Walmart & SR 520



## Lanes, Volumes, Timings

### 2: Dodge/N. Banana River Dr & SR 520



| Lane Group                 | EBU  | EBL   | EBT   | EBR   | WBU  | WBL   | WBT   | WBR   | NBL   | NBT   | NBR   | SBL   | SBT   | SBR   |
|----------------------------|------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Lane Configurations        |      |       |       |       |      |       |       |       |       |       |       |       |       |       |
| Volume (vph)               | 42   | 172   | 1050  | 10    | 18   | 6     | 989   | 124   | 13    | 4     | 7     | 120   | 1     | 208   |
| Ideal Flow (vphpl)         | 1950 | 1950  | 1950  | 1950  | 1950 | 1950  | 1950  | 1950  | 1950  | 1950  | 1950  | 1950  | 1950  | 1950  |
| Lane Width (ft)            | 11   | 11    | 12    | 12    | 11   | 11    | 12    | 12    | 12    | 12    | 12    | 12    | 12    | 12    |
| Grade (%)                  |      |       | 0%    |       |      |       | 0%    |       |       | 0%    |       |       | 0%    |       |
| Storage Length (ft)        |      | 400   |       |       | 0    |       | 200   |       | 700   | 0     |       | 0     | 0     | 100   |
| Storage Lanes              |      | 1     |       |       | 0    |       | 1     |       | 1     | 1     |       | 0     | 1     | 1     |
| Taper Length (ft)          |      | 50    |       |       |      | 50    |       |       | 25    |       |       | 25    |       |       |
| Lane Util. Factor          | 0.91 | 1.00  | 0.91  | 0.91  | 0.91 | 1.00  | 0.91  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  |
| Ped Bike Factor            |      |       |       |       |      |       |       |       |       |       |       |       |       |       |
| Frt                        |      |       | 0.999 |       |      |       |       | 0.850 |       | 0.905 |       |       | 0.851 |       |
| Flt Protected              |      |       | 0.950 |       |      |       | 0.950 |       |       | 0.950 |       | 0.950 |       |       |
| Satd. Flow (prot)          | 0    | 1770  | 5266  | 0     | 0    | 1765  | 5271  | 1641  | 1852  | 1765  | 0     | 1852  | 1643  | 0     |
| Flt Permitted              |      | 0.950 |       |       |      | 0.950 |       |       | 0.241 |       |       | 0.743 |       |       |
| Satd. Flow (perm)          | 0    | 1770  | 5266  | 0     | 0    | 1765  | 5271  | 1641  | 470   | 1765  | 0     | 1449  | 1643  | 0     |
| Right Turn on Red          |      |       |       | Yes   |      |       |       | Yes   |       |       | Yes   |       |       | Yes   |
| Satd. Flow (RTOR)          |      |       | 2     |       |      |       |       | 161   |       | 14    |       | 263   |       |       |
| Link Speed (mph)           |      |       | 50    |       |      |       | 50    |       |       | 30    |       | 25    |       |       |
| Link Distance (ft)         |      |       | 712   |       |      |       | 813   |       |       | 547   |       | 1044  |       |       |
| Travel Time (s)            |      |       | 9.7   |       |      |       | 11.1  |       |       | 12.4  |       | 28.5  |       |       |
| Confl. Peds. (#/hr)        |      |       |       |       |      |       |       |       |       |       |       |       |       |       |
| Confl. Bikes (#/hr)        |      |       |       |       |      |       |       |       |       |       |       |       |       |       |
| Peak Hour Factor           | 0.92 | 0.87  | 0.87  | 0.87  | 0.92 | 0.84  | 0.84  | 0.84  | 0.50  | 0.50  | 0.50  | 0.79  | 0.79  | 0.79  |
| Growth Factor              | 100% | 100%  | 100%  | 100%  | 100% | 100%  | 100%  | 100%  | 100%  | 100%  | 100%  | 100%  | 100%  | 100%  |
| Heavy Vehicles (%)         | 2%   | 1%    | 1%    | 0%    | 2%   | 0%    | 1%    | 1%    | 0%    | 0%    | 0%    | 0%    | 0%    | 1%    |
| Bus Blockages (#/hr)       | 0    | 0     | 0     | 0     | 0    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Parking (#/hr)             |      |       |       |       |      |       |       |       |       |       |       |       |       |       |
| Mid-Block Traffic (%)      |      |       | 0%    |       |      |       | 0%    |       |       | 0%    |       | 0%    |       |       |
| Adj. Flow (vph)            | 46   | 198   | 1207  | 11    | 20   | 7     | 1177  | 148   | 26    | 8     | 14    | 152   | 1     | 263   |
| Shared Lane Traffic (%)    |      |       |       |       |      |       |       |       |       |       |       |       |       |       |
| Lane Group Flow (vph)      | 0    | 244   | 1218  | 0     | 0    | 27    | 1177  | 148   | 26    | 22    | 0     | 152   | 264   | 0     |
| Enter Blocked Intersection | No   | No    | No    | No    | No   | No    | No    | No    | No    | No    | No    | No    | No    | No    |
| Lane Alignment             | R NA | Left  | Left  | Right | R NA | Left  | Left  | Right | Left  | Left  | Right | Left  | Left  | Right |
| Median Width(ft)           |      |       | 12    |       |      |       | 12    |       |       | 12    |       | 12    |       |       |

## Lanes, Volumes, Timings

### 2: Dodge/N. Banana River Dr & SR 520

|                         | ↖     | ↗     | →     | ↘    | ↖     | ↗     | ←     | ↖     | ↗     | ↑     | ↗    | ↘     | ↓     | ↖    |
|-------------------------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|------|-------|-------|------|
| Lane Group              | EBU   | EBL   | EBT   | EBR  | WBU   | WBL   | WBT   | WBR   | NBL   | NBT   | NBR  | SBL   | SBT   | SBR  |
| Link Offset(ft)         |       |       |       | 0    |       |       | 0     |       |       | 0     |      |       | 0     |      |
| Crosswalk Width(ft)     |       |       |       | 16   |       |       | 16    |       |       | 16    |      |       | 16    |      |
| Two way Left Turn Lane  |       |       |       |      |       |       |       |       |       |       |      |       |       |      |
| Headway Factor          | 1.01  | 1.01  | 0.97  | 0.97 | 1.01  | 1.01  | 0.97  | 0.97  | 0.97  | 0.97  | 0.97 | 0.97  | 0.97  | 0.97 |
| Turning Speed (mph)     | 9     | 15    |       | 9    | 9     | 15    |       | 9     | 15    |       | 9    | 15    |       | 9    |
| Number of Detectors     | 1     | 1     | 2     |      | 1     | 1     | 2     | 1     | 1     | 2     |      | 1     | 2     |      |
| Detector Template       | Left  | Left  | Thru  |      | Left  | Left  | Thru  | Right | Left  | Thru  |      | Left  | Thru  |      |
| Leading Detector (ft)   | 20    | 20    | 100   |      | 20    | 20    | 100   | 20    | 20    | 100   |      | 20    | 100   |      |
| Trailing Detector (ft)  | 0     | 0     | 0     |      | 0     | 0     | 0     | 0     | 0     | 0     |      | 0     | 0     |      |
| Turn Type               | Prot  | Prot  | NA    |      | Prot  | Prot  | NA    | Perm  | Perm  | NA    |      | Perm  | NA    |      |
| Protected Phases        | 1     | 1     | 6     |      | 5     | 5     | 2     |       |       | 4     |      |       | 8     |      |
| Permitted Phases        |       |       |       |      |       |       |       | 2     | 4     |       |      | 8     |       |      |
| Detector Phase          | 1     | 1     | 6     |      | 5     | 5     | 2     | 2     | 4     | 4     |      | 8     | 8     |      |
| Switch Phase            |       |       |       |      |       |       |       |       |       |       |      |       |       |      |
| Minimum Initial (s)     | 5.0   | 5.0   | 12.0  |      | 5.0   | 5.0   | 12.0  | 12.0  | 7.0   | 7.0   |      | 7.0   | 7.0   |      |
| Minimum Split (s)       | 11.6  | 11.6  | 19.1  |      | 11.6  | 11.6  | 19.1  | 19.1  | 13.0  | 13.0  |      | 13.0  | 13.0  |      |
| Total Split (s)         | 34.0  | 34.0  | 67.0  |      | 14.0  | 14.0  | 47.0  | 47.0  | 29.0  | 29.0  |      | 29.0  | 29.0  |      |
| Total Split (%)         | 30.9% | 30.9% | 60.9% |      | 12.7% | 12.7% | 42.7% | 42.7% | 26.4% | 26.4% |      | 26.4% | 26.4% |      |
| Maximum Green (s)       | 27.4  | 27.4  | 59.9  |      | 7.4   | 7.4   | 39.9  | 39.9  | 23.0  | 23.0  |      | 23.0  | 23.0  |      |
| Yellow Time (s)         | 4.3   | 4.3   | 4.8   |      | 4.3   | 4.3   | 4.8   | 4.8   | 3.0   | 3.0   |      | 3.0   | 3.0   |      |
| All-Red Time (s)        | 2.3   | 2.3   | 2.3   |      | 2.3   | 2.3   | 2.3   | 2.3   | 3.0   | 3.0   |      | 3.0   | 3.0   |      |
| 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)     | 6.6   | 7.1   |       |      | 6.6   | 7.1   | 7.1   | 6.0   | 6.0   | 6.0   |      | 6.0   | 6.0   |      |
| Lead/Lag                | Lead  | Lead  | Lag   |      | Lead  | Lead  | Lag   | Lag   |       |       |      |       |       |      |
| Lead-Lag Optimize?      |       |       |       |      |       |       |       |       |       |       |      |       |       |      |
| Vehicle Extension (s)   | 3.0   | 3.0   | 3.0   |      | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   |      | 3.0   | 3.0   |      |
| Minimum Gap (s)         | 3.0   | 3.0   | 3.0   |      | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   |      | 3.0   | 3.0   |      |
| Time Before Reduce (s)  | 0.0   | 0.0   | 0.0   |      | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |      | 0.0   | 0.0   |      |
| Time To Reduce (s)      | 0.0   | 0.0   | 0.0   |      | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |      | 0.0   | 0.0   |      |
| Recall Mode             | None  | None  | C-Max |      | None  | None  | C-Max | C-Max | None  | None  |      | None  | None  |      |
| Walk Time (s)           |       |       |       |      |       |       |       |       |       |       |      |       |       |      |
| Flash Dont Walk (s)     |       |       |       |      |       |       |       |       |       |       |      |       |       |      |
| Pedestrian Calls (#/hr) |       |       |       |      |       |       |       |       |       |       |      |       |       |      |
| Act Effct Green (s)     | 20.3  | 71.6  |       |      | 6.8   | 53.1  | 53.1  | 16.8  | 16.8  |       | 16.8 | 16.8  |       |      |

SR 520 Optimized PM Peak

ELH

Synchro 8 Report

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## Lanes, Volumes, Timings

### 2: Dodge/N. Banana River Dr & SR 520

| Lane Group              | EBU  | EBL  | EBT   | EBR | WBU  | WBL  | WBT   | WBR   | NBL  | NBT  | NBR  | SBL  | SBT  | SBR  |
|-------------------------|------|------|-------|-----|------|------|-------|-------|------|------|------|------|------|------|
| Actuated g/C Ratio      | 0.18 | 0.65 |       |     | 0.06 | 0.48 | 0.48  | 0.15  | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 |
| v/c Ratio               | 0.75 | 0.36 |       |     | 0.25 | 0.46 | 0.17  | 0.37  | 0.08 |      | 0.69 | 0.56 |      |      |
| Control Delay           | 58.3 | 7.5  |       |     | 59.2 | 15.3 | 0.9   | 54.2  | 21.9 |      | 59.2 | 9.6  |      |      |
| Queue Delay             | 0.0  | 0.0  |       |     | 0.0  | 0.0  | 0.0   | 0.0   | 0.0  |      | 0.0  | 0.0  |      |      |
| Total Delay             | 58.3 | 7.5  |       |     | 59.2 | 15.3 | 0.9   | 54.2  | 21.9 |      | 59.2 | 9.6  |      |      |
| LOS                     | E    | A    |       |     | E    | B    | A     | D     | C    |      | E    | A    |      |      |
| Approach Delay          |      | 16.0 |       |     |      | 14.6 |       |       |      | 39.4 |      | 27.7 |      |      |
| Approach LOS            |      | B    |       |     |      | B    |       |       |      | D    |      | C    |      |      |
| 90th %ile Green (s)     | 27.2 | 27.2 | 59.9  |     | 7.4  | 7.4  | 40.1  | 40.1  | 23.0 | 23.0 | 23.0 | 23.0 | 23.0 | 23.0 |
| 90th %ile Term Code     | Gap  | Gap  | Coord |     | Max  | Max  | Coord | Coord | Hold | Hold | Max  | Max  |      |      |
| 70th %ile Green (s)     | 23.2 | 23.2 | 61.9  |     | 8.1  | 8.1  | 46.8  | 46.8  | 20.3 | 20.3 | 20.3 | 20.3 | 20.3 | 20.3 |
| 70th %ile Term Code     | Gap  | Gap  | Coord |     | Gap  | Gap  | Coord | Coord | Hold | Hold | Gap  | Gap  |      |      |
| 50th %ile Green (s)     | 20.4 | 20.4 | 66.4  |     | 7.1  | 7.1  | 53.1  | 53.1  | 16.8 | 16.8 | 16.8 | 16.8 | 16.8 | 16.8 |
| 50th %ile Term Code     | Gap  | Gap  | Coord |     | Gap  | Gap  | Coord | Coord | Hold | Hold | Gap  | Gap  |      |      |
| 30th %ile Green (s)     | 17.5 | 17.5 | 82.9  |     | 0.0  | 0.0  | 58.8  | 58.8  | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 |
| 30th %ile Term Code     | Gap  | Gap  | Coord |     | Skip | Skip | Coord | Coord | Hold | Hold | Gap  | Gap  |      |      |
| 10th %ile Green (s)     | 13.3 | 13.3 | 86.8  |     | 0.0  | 0.0  | 66.9  | 66.9  | 10.1 | 10.1 | 10.1 | 10.1 | 10.1 | 10.1 |
| 10th %ile Term Code     | Gap  | Gap  | Coord |     | Skip | Skip | Coord | Coord | Hold | Hold | Gap  | Gap  |      |      |
| Stops (vph)             | 211  | 293  |       |     | 25   | 591  | 4     | 13    | 6    |      | 110  | 25   |      |      |
| Fuel Used(gal)          | 7    | 11   |       |     | 1    | 17   | 1     | 0     | 0    |      | 3    | 2    |      |      |
| CO Emissions (g/hr)     | 473  | 762  |       |     | 56   | 1205 | 51    | 19    | 9    |      | 205  | 165  |      |      |
| NOx Emissions (g/hr)    | 92   | 148  |       |     | 11   | 235  | 10    | 4     | 2    |      | 40   | 32   |      |      |
| VOC Emissions (g/hr)    | 110  | 177  |       |     | 13   | 279  | 12    | 4     | 2    |      | 48   | 38   |      |      |
| Dilemma Vehicles (#)    | 0    | 65   |       |     | 0    | 43   | 0     | 0     | 0    |      | 0    | 0    |      |      |
| Queue Length 50th (ft)  | 180  | 91   |       |     | 20   | 95   | 0     | 17    | 5    |      | 103  | 1    |      |      |
| Queue Length 95th (ft)  | 253  | 134  |       |     | 47   | 179  | 6     | 23    | 11   |      | 140  | 39   |      |      |
| Internal Link Dist (ft) |      | 632  |       |     |      | 733  |       |       |      | 467  |      | 964  |      |      |
| Turn Bay Length (ft)    | 400  |      |       |     | 200  |      | 700   |       |      |      |      |      |      |      |
| Base Capacity (vph)     | 440  | 3427 |       |     | 120  | 2546 | 876   | 98    | 380  |      | 302  | 551  |      |      |
| 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       | 0.55 | 0.36 |       |     | 0.23 | 0.46 | 0.17  | 0.27  | 0.06 |      | 0.50 | 0.48 |      |      |

## Lanes, Volumes, Timings

### 2: Dodge/N. Banana River Dr & SR 520

#### Intersection Summary

Area Type: Other

Cycle Length: 110

Actuated Cycle Length: 110

Offset: 106 (96%), Referenced to phase 2:WBT and 6:EBT, Start of Yellow

Natural Cycle: 60

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 0.75

Intersection Signal Delay: 17.2

Intersection LOS: B

Intersection Capacity Utilization 59.7%

ICU Level of Service B

Analysis Period (min) 15

Splits and Phases: 2: Dodge/N. Banana River Dr & SR 520



## Lanes, Volumes, Timings

### 3: S. Banana River Dr/Milford Point Dr & SR 520

|                            | ↖               | ↗     | →     | ↘     | ↖     | ↗     | ←     | ↖     | ↗     | ↑     | ↗     | ↘    | ↓     | ↖     |
|----------------------------|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|
| Lane Group                 | EBU             | EBL   | EBT   | EBR   | WBU   | WBL   | WBT   | WBR   | NBL   | NBT   | NBR   | SBL  | SBT   | SBR   |
| Lane Configurations        | 16              | 17    | 1055  | 94    | 10    | 40    | 1050  | 5     | 59    | 4     | 18    | 1    | 5     | 9     |
| Volume (vph)               | 1950            | 1950  | 1950  | 1950  | 1950  | 1950  | 1950  | 1950  | 1950  | 1950  | 1950  | 1950 | 1950  | 1950  |
| Ideal Flow (vphpl)         | 11              | 11    | 12    | 12    | 11    | 11    | 12    | 12    | 12    | 12    | 12    | 12   | 12    | 12    |
| Lane Width (ft)            | 0%              |       |       |       | 0%    |       |       |       | 0%    |       |       | 0%   |       |       |
| Grade (%)                  | 200             |       | 0     |       | 200   |       | 250   | 0     |       | 0     | 0     | 0    | 0     | 0     |
| Storage Length (ft)        | 1               |       | 1     |       | 1     |       | 1     | 0     |       | 0     | 0     | 0    | 0     | 0     |
| Storage Lanes              | 50              |       |       | 50    |       |       | 25    |       |       | 25    |       |      |       |       |
| Taper Length (ft)          | 0.95            | 1.00  | 0.95  | 1.00  | 0.91  | 1.00  | 0.91  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00 | 1.00  | 1.00  |
| Lane Util. Factor          | Ped Bike Factor |       |       |       |       |       |       |       |       |       |       |      |       |       |
| Frt                        |                 |       | 0.850 |       |       |       | 0.850 |       |       | 0.970 |       |      | 0.919 |       |
| Flt Protected              |                 | 0.950 |       |       |       | 0.950 |       |       |       | 0.965 |       |      | 0.998 |       |
| Satd. Flow (prot)          | 0               | 1774  | 3705  | 1641  | 0     | 1783  | 5271  | 1658  | 0     | 1799  | 0     | 0    | 1788  | 0     |
| Flt Permitted              |                 | 0.950 |       |       | 0.950 |       |       |       | 0.771 |       |       |      | 0.985 |       |
| Satd. Flow (perm)          | 0               | 1774  | 3705  | 1641  | 0     | 1783  | 5271  | 1658  | 0     | 1437  | 0     | 0    | 1765  | 0     |
| Right Turn on Red          |                 |       | Yes   |       |       |       | Yes   |       |       | Yes   |       |      | Yes   |       |
| Satd. Flow (RTOR)          |                 |       | 106   |       |       |       | 100   |       |       | 11    |       |      | 12    |       |
| Link Speed (mph)           |                 | 50    |       |       |       | 50    |       |       | 25    |       |       | 30   |       |       |
| Link Distance (ft)         |                 | 813   |       |       |       | 414   |       |       | 776   |       |       | 1028 |       |       |
| Travel Time (s)            |                 | 11.1  |       |       |       | 5.6   |       |       | 21.2  |       |       | 23.4 |       |       |
| Confl. Peds. (#/hr)        |                 |       |       |       |       |       |       |       |       |       |       |      |       |       |
| Confl. Bikes (#/hr)        |                 |       |       |       |       |       |       |       |       |       |       |      |       |       |
| Peak Hour Factor           | 0.92            | 0.89  | 0.89  | 0.89  | 0.92  | 0.93  | 0.93  | 0.93  | 0.89  | 0.89  | 0.89  | 0.75 | 0.75  | 0.75  |
| Growth Factor              | 100%            | 100%  | 100%  | 100%  | 100%  | 100%  | 100%  | 100%  | 100%  | 100%  | 100%  | 100% | 100%  | 100%  |
| Heavy Vehicles (%)         | 2%              | 0%    | 0%    | 1%    | 2%    | 0%    | 1%    | 0%    | 2%    | 0%    | 0%    | 0%   | 0%    | 0%    |
| Bus Blockages (#/hr)       | 0               | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0    | 0     | 0     |
| Parking (#/hr)             |                 |       |       |       |       |       |       |       |       |       |       |      |       |       |
| Mid-Block Traffic (%)      |                 |       | 0%    |       |       |       | 0%    |       |       | 0%    |       |      | 0%    |       |
| Adj. Flow (vph)            | 17              | 19    | 1185  | 106   | 11    | 43    | 1129  | 5     | 66    | 4     | 20    | 1    | 7     | 12    |
| Shared Lane Traffic (%)    |                 |       |       |       |       |       |       |       |       |       |       |      |       |       |
| Lane Group Flow (vph)      | 0               | 36    | 1185  | 106   | 0     | 54    | 1129  | 5     | 0     | 90    | 0     | 0    | 20    | 0     |
| Enter Blocked Intersection | No              | No    | No    | No    | No    | No    | No    | No    | No    | No    | No    | No   | No    | No    |
| Lane Alignment             | R NA            | Left  | Left  | Right | R NA  | Left  | Left  | Right | Left  | Left  | Right | Left | Left  | Right |
| Median Width(ft)           |                 | 11    |       |       |       | 11    |       |       | 0     |       |       | 0    |       |       |

## Lanes, Volumes, Timings

### 3: S. Banana River Dr/Milford Point Dr & SR 520

|                         | ↶     | ↗     | →     | ↘     | ↶     | ↗     | ←     | ↖     | ↙     | ↑     | ↗    | ↘     | ↓     | ↖    |
|-------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|------|
| Lane Group              | EBU   | EBL   | EBT   | EBR   | WBU   | WBL   | WBT   | WBR   | NBL   | NBT   | NBR  | SBL   | SBT   | SBR  |
| Link Offset(ft)         |       |       | 0     |       |       |       | 0     |       |       | 0     |      |       | 0     |      |
| Crosswalk Width(ft)     |       |       | 16    |       |       |       | 16    |       |       | 16    |      |       | 16    |      |
| Two way Left Turn Lane  |       |       |       |       |       |       |       |       |       |       |      |       |       |      |
| Headway Factor          | 1.01  | 1.01  | 0.97  | 0.97  | 1.01  | 1.01  | 0.97  | 0.97  | 0.97  | 0.97  | 0.97 | 0.97  | 0.97  | 0.97 |
| Turning Speed (mph)     | 9     | 15    |       | 9     | 9     | 15    |       | 9     | 15    |       | 9    | 15    |       | 9    |
| Number of Detectors     | 1     | 1     | 2     | 1     | 1     | 1     | 2     | 1     | 1     | 2     | 1    | 2     |       |      |
| Detector Template       | Left  | Left  | Thru  | Right | Left  | Left  | Thru  | Right | Left  | Thru  | Left | Thru  |       |      |
| Leading Detector (ft)   | 20    | 20    | 100   | 20    | 20    | 20    | 100   | 20    | 20    | 100   | 20   | 100   |       |      |
| Trailing Detector (ft)  | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0    | 0     |       |      |
| Turn Type               | Prot  | Prot  | NA    | Perm  | Prot  | Prot  | NA    | Perm  | Perm  | NA    | Perm | NA    |       |      |
| Protected Phases        | 1     | 1     | 6     |       | 5     | 5     | 2     |       |       | 4     |      |       | 8     |      |
| Permitted Phases        |       |       |       | 6     |       |       |       | 2     | 4     |       |      | 8     |       |      |
| Detector Phase          | 1     | 1     | 6     | 6     | 5     | 5     | 2     | 2     | 4     | 4     |      | 8     | 8     |      |
| Switch Phase            |       |       |       |       |       |       |       |       |       |       |      |       |       |      |
| Minimum Initial (s)     | 5.0   | 5.0   | 12.0  | 12.0  | 5.0   | 5.0   | 12.0  | 12.0  | 7.0   | 7.0   |      | 7.0   | 7.0   |      |
| Minimum Split (s)       | 11.9  | 11.9  | 19.4  | 19.4  | 11.9  | 11.9  | 19.4  | 19.4  | 13.2  | 13.2  |      | 13.2  | 13.2  |      |
| Total Split (s)         | 16.0  | 16.0  | 67.0  | 67.0  | 19.0  | 19.0  | 70.0  | 70.0  | 24.0  | 24.0  |      | 24.0  | 24.0  |      |
| Total Split (%)         | 14.5% | 14.5% | 60.9% | 60.9% | 17.3% | 17.3% | 63.6% | 63.6% | 21.8% | 21.8% |      | 21.8% | 21.8% |      |
| Maximum Green (s)       | 9.1   | 9.1   | 59.6  | 59.6  | 12.1  | 12.1  | 62.6  | 62.6  | 17.8  | 17.8  |      | 17.8  | 17.8  |      |
| Yellow Time (s)         | 4.3   | 4.3   | 4.8   | 4.8   | 4.3   | 4.3   | 4.8   | 4.8   | 3.2   | 3.2   |      | 3.2   | 3.2   |      |
| All-Red Time (s)        | 2.6   | 2.6   | 2.6   | 2.6   | 2.6   | 2.6   | 2.6   | 2.6   | 3.0   | 3.0   |      | 3.0   | 3.0   |      |
| 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)     | 6.9   | 7.4   | 7.4   |       | 6.9   | 7.4   | 7.4   |       | 6.2   |       |      | 6.2   |       |      |
| Lead/Lag                | Lead  | Lead  | Lag   | Lag   | Lead  | Lead  | Lag   | Lag   |       |       |      |       |       |      |
| Lead-Lag Optimize?      |       |       |       |       |       |       |       |       |       |       |      |       |       |      |
| Vehicle Extension (s)   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   |      | 3.0   | 3.0   |      |
| Minimum Gap (s)         | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   |      | 3.0   | 3.0   |      |
| Time Before Reduce (s)  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |      | 0.0   | 0.0   |      |
| Time To Reduce (s)      | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |      | 0.0   | 0.0   |      |
| Recall Mode             | None  | None  | C-Max | C-Max | None  | None  | C-Max | C-Max | None  | None  |      | None  | None  |      |
| Walk Time (s)           |       |       |       |       |       |       |       |       |       |       |      |       |       |      |
| Flash Dont Walk (s)     |       |       |       |       |       |       |       |       |       |       |      |       |       |      |
| Pedestrian Calls (#/hr) |       |       |       |       |       |       |       |       |       |       |      |       |       |      |
| Act Effct Green (s)     | 7.7   | 75.8  | 75.8  |       | 8.7   | 79.5  | 79.5  |       | 11.6  |       |      | 11.6  |       |      |

SR 520 Optimized PM Peak

ELH

Synchro 8 Report

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## Lanes, Volumes, Timings

### 3: S. Banana River Dr/Milford Point Dr & SR 520

| Lane Group              | EBU  | EBL  | EBT   | EBR   | WBU  | WBL  | WBT   | WBR   | NBL  | NBT  | NBR | SBL  | SBT  | SBR |
|-------------------------|------|------|-------|-------|------|------|-------|-------|------|------|-----|------|------|-----|
| Actuated g/C Ratio      | 0.07 | 0.69 | 0.69  |       | 0.08 | 0.72 | 0.72  |       | 0.11 |      |     | 0.11 |      |     |
| v/c Ratio               | 0.29 | 0.46 | 0.09  |       | 0.38 | 0.30 | 0.00  |       | 0.56 |      |     | 0.10 |      |     |
| Control Delay           | 59.1 | 5.6  | 0.5   |       | 55.1 | 8.3  | 0.0   |       | 53.5 |      |     | 26.9 |      |     |
| Queue Delay             | 0.0  | 0.0  | 0.0   |       | 0.0  | 0.0  | 0.0   |       | 0.0  |      |     | 0.0  |      |     |
| Total Delay             | 59.1 | 5.6  | 0.5   |       | 55.1 | 8.3  | 0.0   |       | 53.5 |      |     | 26.9 |      |     |
| LOS                     | E    | A    | A     |       | E    | A    | A     |       | D    |      |     | C    |      |     |
| Approach Delay          |      | 6.7  |       |       |      | 10.4 |       |       | 53.5 |      |     | 26.9 |      |     |
| Approach LOS            |      | A    |       |       |      | B    |       |       | D    |      |     | C    |      |     |
| 90th %ile Green (s)     | 10.2 | 10.2 | 60.9  | 60.9  | 11.9 | 11.9 | 62.6  | 62.6  | 16.7 | 16.7 |     | 16.7 | 16.7 |     |
| 90th %ile Term Code     | Max  | Max  | Coord | Coord | Gap  | Gap  | Coord | Coord | Gap  | Gap  |     | Hold | Hold |     |
| 70th %ile Green (s)     | 8.7  | 8.7  | 66.0  | 66.0  | 10.0 | 10.0 | 67.3  | 67.3  | 13.5 | 13.5 |     | 13.5 | 13.5 |     |
| 70th %ile Term Code     | Gap  | Gap  | Coord | Coord | Gap  | Gap  | Coord | Coord | Gap  | Gap  |     | Hold | Hold |     |
| 50th %ile Green (s)     | 7.6  | 7.6  | 69.4  | 69.4  | 8.7  | 8.7  | 70.5  | 70.5  | 11.4 | 11.4 |     | 11.4 | 11.4 |     |
| 50th %ile Term Code     | Gap  | Gap  | Coord | Coord | Gap  | Gap  | Coord | Coord | Gap  | Gap  |     | Hold | Hold |     |
| 30th %ile Green (s)     | 0.0  | 0.0  | 72.8  | 72.8  | 7.4  | 7.4  | 87.1  | 87.1  | 9.3  | 9.3  |     | 9.3  | 9.3  |     |
| 30th %ile Term Code     | Skip | Skip | Coord | Coord | Gap  | Gap  | Coord | Coord | Gap  | Gap  |     | Hold | Hold |     |
| 10th %ile Green (s)     | 0.0  | 0.0  | 102.6 | 102.6 | 0.0  | 0.0  | 102.6 | 102.6 | 0.0  | 0.0  |     | 0.0  | 0.0  |     |
| 10th %ile Term Code     | Skip | Skip | Coord | Coord | Skip | Skip | Coord | Coord | Skip | Skip |     | Skip | Skip |     |
| Stops (vph)             | 34   | 329  | 3     |       | 46   | 379  | 0     |       | 65   |      |     | 9    |      |     |
| Fuel Used(gal)          | 1    | 12   | 1     |       | 2    | 16   | 0     |       | 2    |      |     | 0    |      |     |
| CO Emissions (g/hr)     | 76   | 818  | 38    |       | 115  | 1087 | 3     |       | 115  |      |     | 18   |      |     |
| NOx Emissions (g/hr)    | 15   | 159  | 7     |       | 22   | 212  | 1     |       | 22   |      |     | 3    |      |     |
| VOC Emissions (g/hr)    | 18   | 189  | 9     |       | 27   | 252  | 1     |       | 27   |      |     | 4    |      |     |
| Dilemma Vehicles (#)    | 0    | 12   | 0     |       | 0    | 40   | 0     |       | 0    |      |     | 0    |      |     |
| Queue Length 50th (ft)  | 27   | 62   | 1     |       | 37   | 122  | 0     |       | 54   |      |     | 5    |      |     |
| Queue Length 95th (ft)  | m61  | 245  | 2     |       | 76   | 182  | 0     |       | 101  |      |     | 22   |      |     |
| Internal Link Dist (ft) |      | 733  |       |       |      | 334  |       |       | 696  |      |     | 948  |      |     |
| Turn Bay Length (ft)    |      | 200  |       |       | 200  |      | 250   |       |      |      |     |      |      |     |
| Base Capacity (vph)     | 150  | 2554 | 1164  |       | 196  | 3809 | 1226  |       | 241  |      |     | 295  |      |     |
| Starvation Cap Reductn  | 0    | 0    | 0     |       | 0    | 0    | 0     |       | 0    |      |     | 0    |      |     |
| Spillback Cap Reductn   | 0    | 0    | 0     |       | 0    | 0    | 0     |       | 0    |      |     | 0    |      |     |
| Storage Cap Reductn     | 0    | 0    | 0     |       | 0    | 0    | 0     |       | 0    |      |     | 0    |      |     |
| Reduced v/c Ratio       | 0.24 | 0.46 | 0.09  |       | 0.28 | 0.30 | 0.00  |       | 0.37 |      |     | 0.07 |      |     |

## Lanes, Volumes, Timings

### 3: S. Banana River Dr/Milford Point Dr & SR 520

#### Intersection Summary

Area Type: Other

Cycle Length: 110

Actuated Cycle Length: 110

Offset: 8 (7%), Referenced to phase 2:WBT and 6:EBT, Start of Yellow

Natural Cycle: 60

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 0.56

Intersection Signal Delay: 10.1

Intersection LOS: B

Intersection Capacity Utilization 60.8%

ICU Level of Service B

Analysis Period (min) 15

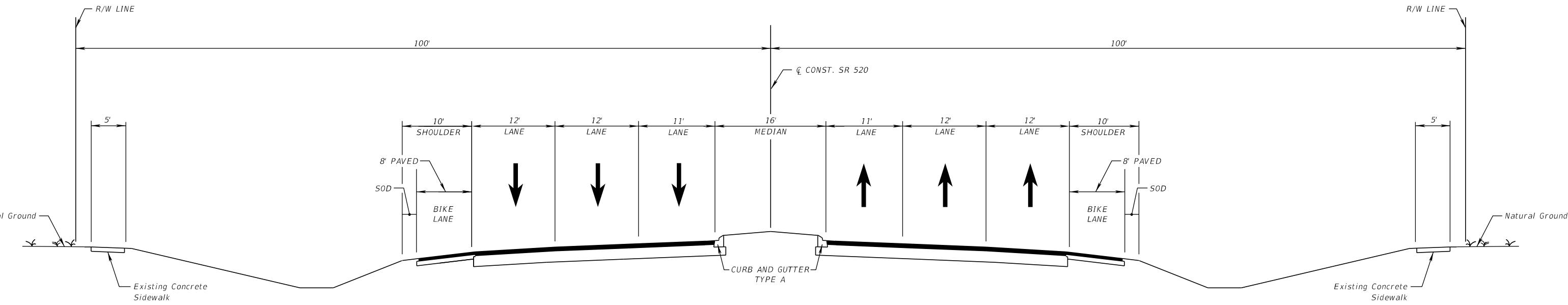
m Volume for 95th percentile queue is metered by upstream signal.

#### Splits and Phases: 3: S. Banana River Dr/Milford Point Dr & SR 520



## **Appendix L:**

### **Recommended Typical Section**



**SR 520**  
PROPOSED TYPICAL SECTIONS

## **Appendix M:**

### Recommendation Diagram

**RECOMMENDATION:**  
**INSTALLATION OF A RAISED MEDIAN TO REPLACE EXISTING TWO-WAY LEFT TURN LANE**  
**-INSTALL 16'-WIDE FULL WIDTH MEDIAN**  
**-MILL AND RESURFACE LEFT TURN LANES**  
**-INSTALL TRAFFIC SEPARATORS WITH DRAINAGE SLOTS TO BORDER LEFT TURN LANES**  
**-INSTALL NEW SIGN ASSEMBLIES (R1-1 & FTP-55R-06) AT EXISTING DRIVEWAY CONNECTIONS**



MATCH LINE STA. 138+00.00

| REVISIONS |   |      |             | STATE OF FLORIDA<br>DEPARTMENT OF TRANSPORTATION |         |                      | RECOMMENDATION DIAGRAM |         |           | SHEET NO. |
|-----------|---|------|-------------|--|---------|----------------------|------------------------|---------|-----------|-----------|
| DATE      | DESCRIPTION                                 | DATE | DESCRIPTION | ROAD NO.   | COUNTY  | FINANCIAL PROJECT ID |                        |         |           |           |
|           | <b>PRELIMINARY<br/>NOT FOR CONSTRUCTION</b> |      |             | SR 520   | BREVARD | N/A                  | \$USERS                | \$DATES | \$TIMES\$ | \$FILES\$ |

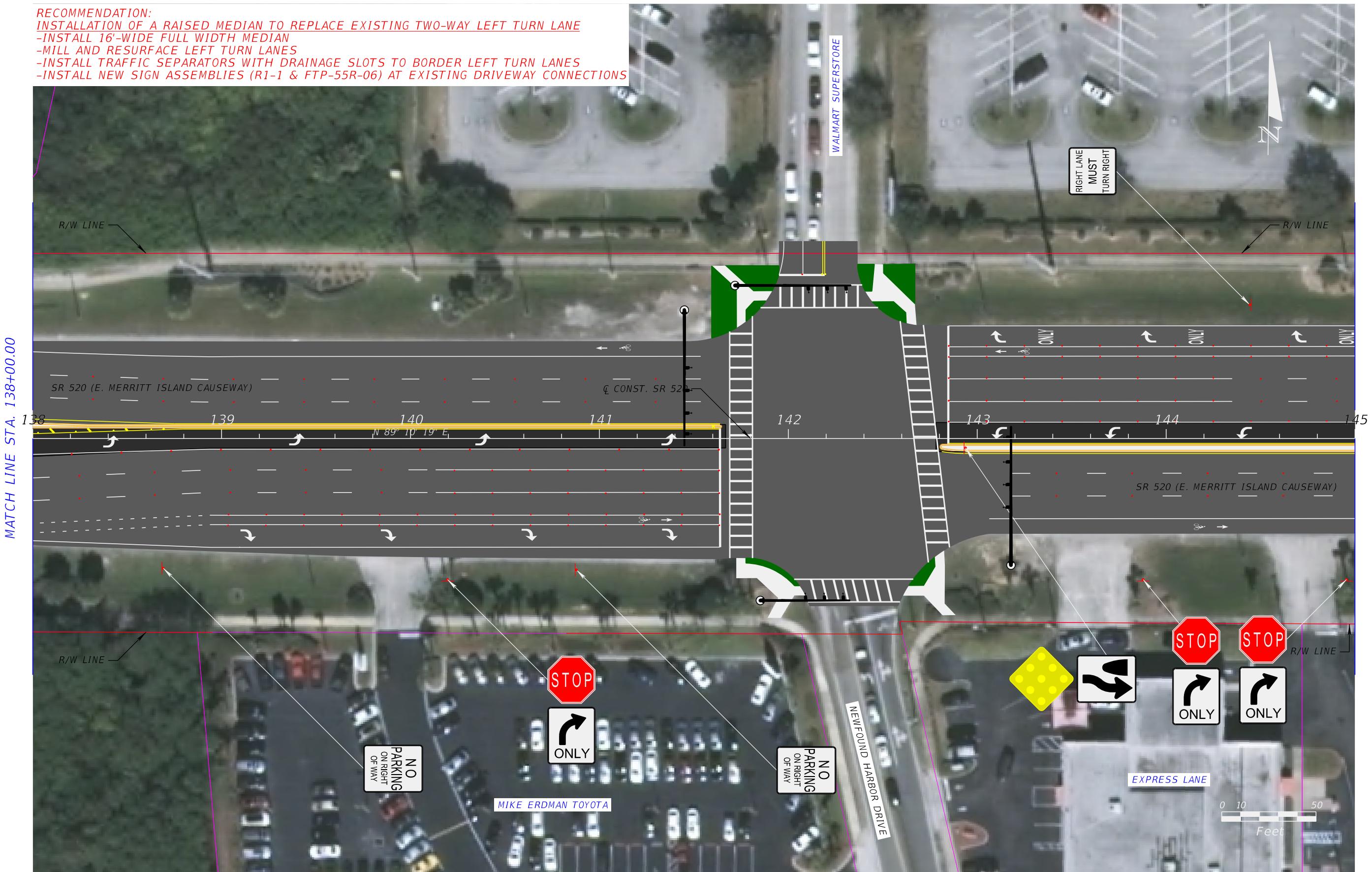
\$DATE\$      \$TIME\$

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201 S Orange Ave, Suite 1300  
Orlando, FL 32801-3442  
Certificate of Authorization No. 7862

\$USERS \$DATES \$TIMES\$ \$FILES\$

1

**RECOMMENDATION:**  
**INSTALLATION OF A RAISED MEDIAN TO REPLACE EXISTING TWO-WAY LEFT TURN LANE**  
 -INSTALL 16'-WIDE FULL WIDTH MEDIAN  
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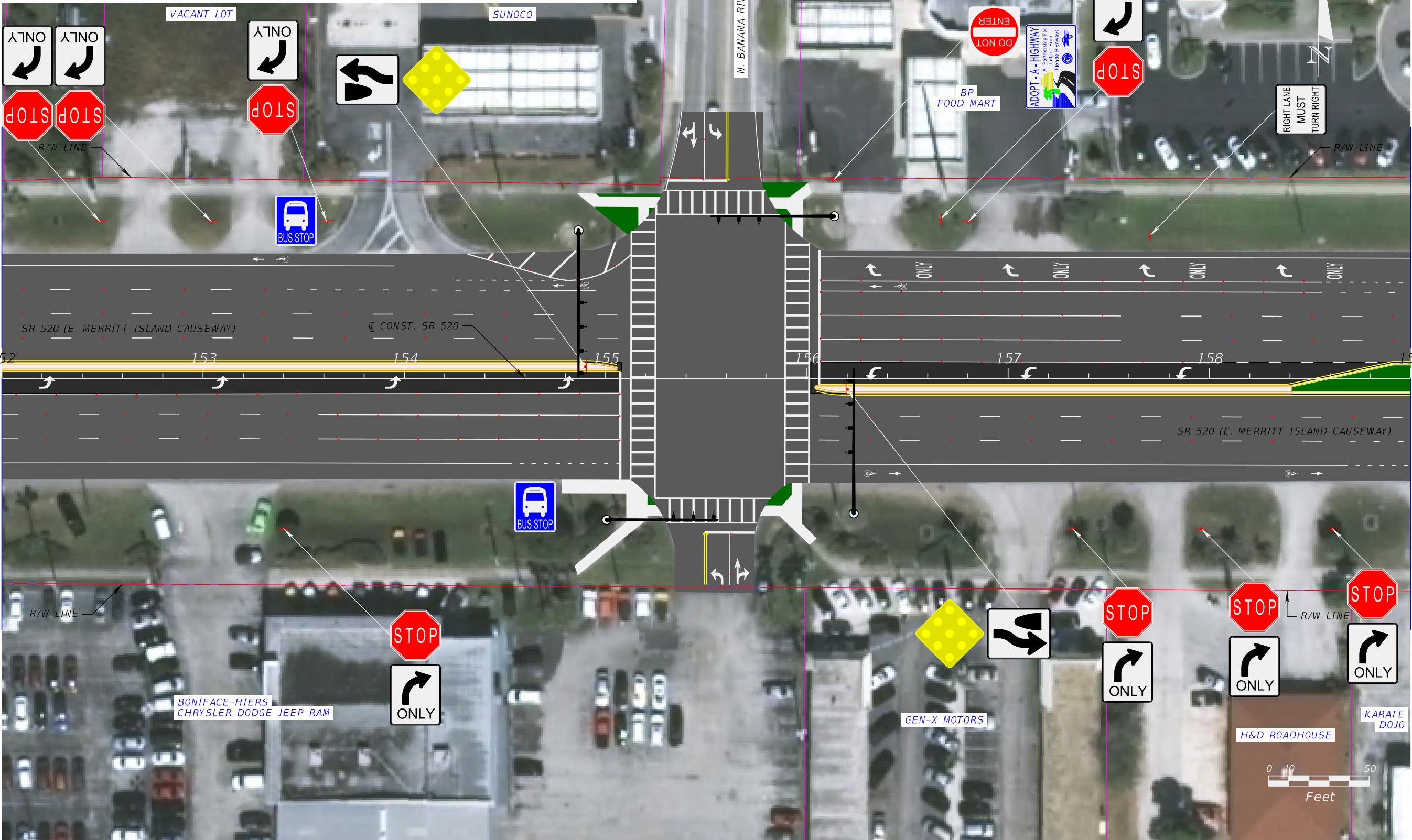
| REVISIONS |   |      |             | STATE OF FLORIDA<br>DEPARTMENT OF TRANSPORTATION |         |                      | RECOMMENDATION DIAGRAM                 |  |  | SHEET NO. |
|-----------|---|------|-------------|--|---------|----------------------|--|--|--|-----------|
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|           | <b>PRELIMINARY<br/>NOT FOR CONSTRUCTION</b> |      |             | SR 520   | BREVARD | N/A                  | <i>\$USERS \$DATES \$TIMES \$FILES</i> |  |  | 2         |

**RECOMMENDATION:**  
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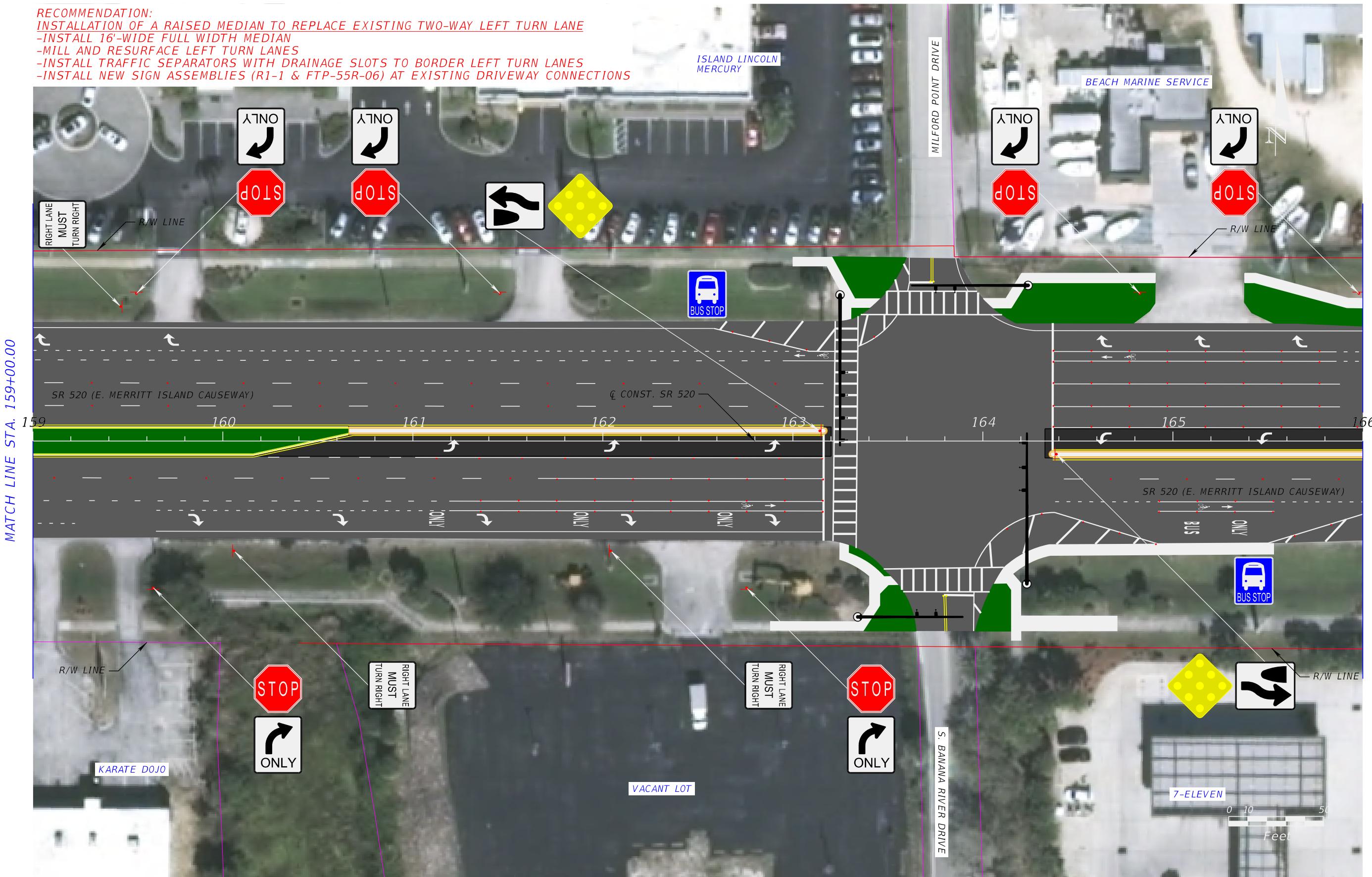
| REVISIONS |   |      |             | STATE OF FLORIDA<br>DEPARTMENT OF TRANSPORTATION |         |                      | RECOMMENDATION DIAGRAM |  |  | SHEET NO. |
|-----------|---|------|-------------|--|---------|----------------------|------------------------|--|--|-----------|
| DATE      | DESCRIPTION                                 | DATE | DESCRIPTION | ROAD NO.   | COUNTY  | FINANCIAL PROJECT ID |                        |  |  |           |
|           | <b>PRELIMINARY<br/>NOT FOR CONSTRUCTION</b> |      |             | SR 520   | BREVARD | N/A                  |                        |  |  | 3         |

**RECOMMENDATION:**  
INSTALLATION OF A RAISED MEDIAN TO REPLACE EXISTING TWO-WAY LEFT TURN LANE  
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|-----------|--|------|-------------|---|--|------------------------|----------------------|
| DATE      | DESCRIPTION  | DATE | DESCRIPTION |   |  |                        |                      |
|           | <b>PRELIMINARY<br/>NOT FOR CONSTRUCTION</b><br><small>\$DATE\$      \$TIME\$</small> |      |             |   | ROAD NO.   | COUNTY                 | FINANCIAL PROJECT ID |
|           |  |      |             |   | SR 520   | BREVARD                | N/A                  |

**RECOMMENDATION:**  
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|-----------|---|------|-------------|--|---------|----------------------|------------------------|-----------|
| DATE      | DESCRIPTION                                 | DATE | DESCRIPTION | ROAD NO.   | COUNTY  | FINANCIAL PROJECT ID |                        |           |
|           | <b>PRELIMINARY<br/>NOT FOR CONSTRUCTION</b> |      |             | SR 520   | BREVARD | N/A                  |                        |           |
| \$DATE\$  | \$TIME\$                                    |      |             |  |         |                      |                        |           |

**RECOMMENDATION:**  
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|-----------|---|------|-------------|---|--|---------|----------------------|-------------------------------|----------------|
| DATE      | DESCRIPTION                                 | DATE | DESCRIPTION |   | ROAD NO.   | COUNTY  | FINANCIAL PROJECT ID |                               |                |
|           | <b>PRELIMINARY<br/>NOT FOR CONSTRUCTION</b> |      |             |   | SR 520   | BREVARD | N/A                  |                               |                |

## **Appendix N:**

### **Crash Mitigation Information**



## CMF / CRF Details

CMF ID: 7771

Convert a TWLTL to a raised median

**Description:**

**Prior Condition: Roadway with a TWLTL**

**Category: Roadway**

**Study:** [Validation and Application of Highway Safety Manual \(Part D\) in Florida, Abdel-Aty et al., 2014](#)

Star Quality Rating:  [View score details]

### Crash Modification Factor (CMF)

Value: 0.53

Adjusted Standard Error:

Unadjusted Standard Error: 0.02

### Crash Reduction Factor (CRF)

Value: 47 (*This value indicates a decrease in crashes*)

Adjusted Standard Error:

Unadjusted Standard Error: 2

### Applicability

Crash Type: All

Crash Severity: All

Roadway Types: Not specified

Number of Lanes:

Road Division Type: Divided by TWLTL

Speed Limit:

Area Type: Not specified

Traffic Volume:

---

Time of Day: All

---

*If countermeasure is intersection-based*

---

Intersection Type:

---

Intersection Geometry:

---

Traffic Control:

---

Major Road Traffic Volume:

---

Minor Road Traffic Volume:

---

#### Development Details

Date Range of Data Used: 2004 to 2012

---

Municipality:

---

State: FL

---

Country: USA

---

Type of Methodology Used: Before/after using comparison group

---

Sample Size Used:

---

#### Other Details

Included in Highway Safety Manual? No

---

Date Added to Clearinghouse: Mar-08-2016

---

Comments:

---

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a PDF file

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For more information, contact Karen Scurry, FHWA Office of Safety Programs 609-637-4207

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## **Appendix O:**

### **Net Present Value Estimate**

