

300 S. ADAMS STREET TALLAHASSEE, FL 32301 www.crtpa.org

# CITIZENS MULTIMODAL ADVISORY COMMITTEE

11:30 AM – 1:30 PM 2<sup>nd</sup> Floor Conference Room

RENAISSANCE BUILDING 435 N Macomb Street Tallahassee, Fl. 32301

**February 5, 2019** 

# 1. AGENDA MODIFICATIONS

### 2. Consent

### A. <u>CRTPA Safety Targets and Performance Measures</u>

CRTPA staff has prepared updated safety targets and performance measures to adopt for the CRTPA area as required by the Federal Highway Administration (FHWA).

### Recommended Action: For CMAC recommendation of approval.

### B. CMAC 2019 Committee Calendar

Annually, the CRTPA approves a calendar of meetings for the upcoming year. The CRTPA 2019 calendar has been developed for CRTPA approval, and at this time, CRTPA staff is seeking approval of a supporting calendar for committee meetings.

Recommended Action: For CMAC recommendation of approval.

If you have a disability requiring accommodations, please contact the Capital Region Transportation Planning Agency at (850) 891-6800.

The telephone number of the Florida Relay TDD Service is #711.

### 3. Presentations/Discussion/Action

### A. Election of CMAC Chair and Vice-Chair

Annually, the CMAC elects a new Chair and Vice-Chair to serve for the upcoming calendar year. There is no restriction on who may serve in either capacity from year to year within the CMAC membership.

Recommended Action: Elect a Chair and Vice-Chair for the 2019 Calendar year.

### B. Tharpe Street and Pensacola Street Operational Analyses

The Draft Traffic and Operations Analysis Reports for Tharpe Street and Pensacola Street have been submitted to the CRTPA for review. At this time, the project consultant, RS&H, will provide a summary presentation of the reports for committee consideration and information.

Recommended Action: For CMAC recommendation of approval.

### 4. OPEN FORUM FOR PUBLIC COMMENT

Citizens are invited to address the committee.

### 5. Information

### 6. ITEMS FROM COMMITTEE MEMBERS OR STAFF

February 5, 2019



### COMMITTEE AGENDA ITEM 2 A

### CRTPA SAFETY TARGETS AND PERFORMANCE MEASURES

Type of ITEM: Consent

### **STATEMENT OF ISSUE**

The purpose of this item is to review the "Safety" Performance Targets for the Capital Region Transportation Planning Area (CRTPA) for the following five (5) safety performance measures adopted by the Federal Highway Administration (FHWA) in 2017 for all public roads:

- 1. Number of fatalities:
- 2. Rate of fatalities per 100 Million Vehicle Miles Traveled (VMT);
- 3. Number of serious injuries;
- 4. Rate of serious injuries per 100 Million VMT; and
- 5. Number of non-motorized fatalities and non-motorized serious injuries.

### **RECOMMENDED ACTION**

Option 1. Recommend approval of the recommended Safety Targets.

### **HISTORY AND ANALYSIS**

Nationally, state-specific, and locally, transportation plans exist to enhance safety for all users of the transportation system. A coordinated effort to connect all of the safety plans has long been in effect in the transportation realm, but over the last two years, a system of Performance Management has led to a greater push for comprehensive and coordinated transportation and safety planning.

Performance Measures for Safety were developed by the FHWA, for which targets were established cooperatively between the FDOT and MPO's within the State of Florida (as well as nationally). The Performance Measures are outlined in *Table 1* Below.

Table 1: FHWA Adopted Safety Performance Measures

| Performance Measure   | Description  |
|---|--|
| Number of fatalities  | The total number of persons suffering fatal injuries in a motor vehicle crash during a calendar year.                                      |
| Rate of fatalities per 100 Million<br>Vehicle Miles Traveled<br>(VMT) | The ratio of total number of fatalities to the number of vehicle miles traveled (VMT, in 100 Million VMT) in a calendar year.              |
| Number of serious injuries  | The total number of persons suffering at least one serious injury in a motor vehicle crash during a calendar year.                         |
| Rate of serious injuries per 100<br>Million<br>VMT                    | The ratio of total number of serious injuries to the number of VMT (in 100 Million VMT) in a calendar year.                                |
| Number of non-motorized fatalities and non-motorized serious injuries | The combined total number of non-motorized fatalities and non-motorized serious injuries involving a motor vehicle during a calendar year. |

In August of 2017, the FDOT adopted a target of "Zero" for the five (5) safety performance measures adopted by the Federal Highway Administration (FHWA) for all public roads. FDOT adopted the same target of, "Zero" again in 2018 (shown in *Table 2* below).

Table 2: 2017 & 2018 FDOT Adopted Safety Targets

| FDOT Adopted Measures   | Target |
|---|--------|
| Number of fatalities  | 0      |
| Rate of fatalities per 100 Million Vehicle Miles Traveled (VMT)       | 0      |
| Number of serious injuries  | 0      |
| Rate of serious injuries per 100 Million VMT                          | 0      |
| Number of non-motorized fatalities and non-motorized serious injuries | 0      |

Upon adoption by the Florida Department of Transportation (FDOT) of a target of "Zero", the CRTPA, along with all the other Metropolitan Planning Organizations in the State of Florida, were given 180 days to adopt their targets for the safety measures.

### **2018 CRTPA SAFETY TARGETS**

Utilizing data provided to the CRTPA from FDOT and the FHWA, staff established an average result for each performance measure from the years 2012 through 2016. The averages were utilized as the 2018 target and performance measure for each Safety Measure and are shown in *Table 3* below. These Safety Performance Measures and Targets were adopted on February 20, 2018.

Table 3: 2018 CRTPA Adopted Safety Targets and Interim Performance Measures

| Draft Safety Performance Measures                                     | Target and<br>Performance<br>Measure |
|---|--------------------------------------|
| Number of fatalities  | 56                                   |
| Rate of fatalities per 100 Million Vehicle Miles Traveled (VMT)       | 1.279                                |
| Number of serious injuries  | 266                                  |
| Rate of serious injuries per 100 Million VMT                          | 7.313                                |
| Number of non-motorized fatalities and non-motorized serious injuries | 44                                   |

## **RECENT ACTIONS**

### **2019 CRTPA SAFETY TARGETS**

Utilizing data provided to the CRTPA early this year from FDOT and the FHWA (provided in *Attachment 1*), staff established an average result for each performance measure from the years 2013 through 2017. The averages were utilized as the 2019 target and performance measure for each Safety Measure. The resulting recommended measures are shown below in *Table 4* and are slightly lower than those adopted in the previous year. A fluctuation up or down is expected as the 4-year average rolls forward due not only to a change in the newly appearing year, but also to the drop of the earliest year's raw data from the new average.

Table 4: 2019 CRTPA Interim Performance Measures

| Draft Safety Performance Measures                                     | Target and<br>Performance<br>Measure |
|---|--------------------------------------|
| Number of fatalities  | 54                                   |
| Rate of fatalities per 100 Million Vehicle Miles Traveled (VMT)       | 1.203                                |
| Number of serious injuries  | 258                                  |
| Rate of serious injuries per 100 Million VMT                          | 5.842                                |
| Number of non-motorized fatalities and non-motorized serious injuries | 43.8                                 |

# **NEXT STEPS**

Upon adoption of the 2019 CRTPA Safety Performance Measures and Targets, CRTPA staff will forward the action to the FDOT and FHWA.

# **ATTACHMENTS**

Attachment 1: Data Sheet for Florida MPOs, including 2009-2017

| MPO/TPO                          |                                   |         | Average Annual Fatalities <sup>1</sup> |                   |             |            | Average Annual Serious Injuries <sup>2</sup> |                   |          |                    |             |        |          | Average Annual Fatality Rates <sup>3</sup> |             |       |                   |            |               | Average Annual Serious Injury Rates <sup>4</sup> |                    |            |               |             |                   | Average Annual Pedestrian and Bicyclist Fatalities and Serious Injuries <sup>5</sup> |           |             |                            |               |            |        |                |               |            |                |       |
|----------------------------------|-----------------------------------|---------|--|-------------------|-------------|------------|--|-------------------|----------|--------------------|-------------|--------|----------|--|-------------|-------|-------------------|------------|---------------|--|--------------------|------------|---------------|-------------|-------------------|--|-----------|-------------|----------------------------|---------------|------------|--------|----------------|---------------|------------|----------------|-------|
|                                  |                                   | 2009-13 |  | 14 20<br>%∆ Avera | 011-15      |            | 2-16   | 2013-1<br>Average |          | 2009-13<br>Average |             | 1      |          | L1-15                                      | 2012        |       | 2013-1<br>Average |            | 009-13        | 2010-14  | .4 20<br>%∆ Averag | 11-15      | 2012-16       | 2013        |                   |  | 010-14    | 2011-1      | 5 2012-16<br>%Δ Average %Δ | 2013          |            | 009-13 |                | 011-15        | 2012-16    | 2013-1         |       |
| Space Coast TPO                  | Single County                     | 63.8    | + -                                    | 3.8% 69           | _           | .% 74.8    |  | 81.2              | 8.6%     | 587.0              | 607.4       | 1      | 601.4    |  |             | 1     |                   |            |               |  | 4.6% 1.15          |            | 1             | % 1.291     | †                 | 9.666 10.0   | 1 1       | 10.033      | -0.6% 10.363 3.3           |               |            | 79.8   |                | 6.6 5.4%      |            | 2% <b>91.0</b> |       |
| Charlotte County-Punta Gorda MPO | Single County                     | 22.8    | 21.0                                   | -7.9% 21          | 1.4 1.99    | % 22.4     | 4 4.7%                                       | 24.2              | 8.0%     | 164.2              | 149.2       | -9.1%  | 134.     | 6 -9.8%                                    | 126.8       | -5.8% | 113.0 -           | 10.9%      | 1.048         | 0.964 -  | -8.0% 0.96         | 9 0.5      | % 0.990 2.2   | % 1.041     | 5.2%              | 7.555 6.8  | 54 -9.1%  | 6.128 -:    | 10.7% 5.668 -7.5           | % 4.898       | #####      | 24.2   | 23.0 -5.0% 2   | 1.4 -7.0%     | 20.4 -4.   |                | 1.0%  |
| Broward MPO                      | Single County                     | 178.4   | 175.0                                  | -1.9% 183         | 3.0 4.69    | 198.6      | 6 8.5%                                       | 206.6             | 4.0%     | 2,080.6            | 2,003.8     | -3.7%  | 1,888.   | 6 -5.7%                                    | 1,776.6     | -5.9% | 1,633.8           | -8.0%      | 1.099         | 1.074 -  | -2.3% 1.10         | 9 3.3      | % 1.199 8.1   | % 1.228     | 2.4%              | 2.801 12.2   | 77 -4.1%  | 11.446      | -6.8% 10.801 -5.6          | % 9.782       | -9.4%      | 351.4  | 350.4 -0.3% 34 | 1.2 -2.6%     | 351.8 3.   | 1% 333.0       | -5.3% |
| Okaloosa-Walton TPO              | Multiple Counties, not countywide |         |  | See inc           | dividual co | ounties be | elow   | •                 |          | ·                  |             |        | See indi | vidual cou                                 | unties belo | w     |                   |            |               | <u>'</u>   | See ind            | ividual co | ounties below | 1           |                   | ,  | S         | e individu  | al counties below          | •             |            |        | See ir         | dividual coun | ties below |                |       |
| Gainesville MTPO                 | Single County, not countywide     |         | See individual county below            |                   |             |            |  |                   | See ind  | ividual co         | unty belov  | v      |          |  |             |       | See inc           | dividual o | ounty below   |  |                    |            |               | ee individu | ual county below  |  |           |             | See i                      | ndividual cou | nty below  |        |                |               |            |                |       |
| Hernando/Citrus MPO              | Multiple Counties                 | 50.6    | 47.0                                   | -7.1% 49          | 9.2 4.79    | 49.6       | 6 0.8%                                       | 54.0              | 8.9%     | 448.4              | 428.8       | -4.4%  | 445.     | 0 3.8%                                     | 461.2       | 3.6%  | 482.4             | 4.6%       | 1.527         | 1.416 -  | -7.3% 1.47         | 1 3.9      | % 1.458 -0.9  | % 1.541     | 5.7%              | 3.548 12.9   | 25 -4.6%  | 13.329      | 3.1% 13.560 1.7            | % 13.794      | 1.7%       | 34.4   | 36.2 5.2%      | 1.0 13.3%     | 43.0 4.9   | 9% 42.8        | -0.5% |
| Hillsborough County MPO          | Single County                     | 157.6   | 161.0                                  | 2.2% 168          | 8.4 4.69    | 183.6      | 9.0%   | 187.2             | 2.0%     | 2,066.2            | 1,921.6     | -7.0%  | 1,752.   | 0 -8.8%                                    | 1,618.0     | -7.6% | 1,535.6           | -5.1%      | 1.245         | 1.266  | 1.7% 1.30          | 9 3.4      | % 1.398 6.8   | % 1.391     | -0.5%             | 6.296 15.1   | 06 -7.3%  | 13.650      | -9.6% 12.430 -8.9          | % 11.509      | -7.4%      | 254.8  | 249.6 -2.0% 24 | 6.0 -1.4%     | 242.6 -1.4 | 4% 236.4       | -2.6% |
| Indian River County MPO          | Single County, not countywide     |         |  | See in            | ndividual o | county be  | low  |                   |          |                    |             |        | See ind  | ividual co                                 | unty belov  | V     |                   |            |               |  | See inc            | dividual o | county below  | •           |                   | •  |           | ee individu | ual county below           |               |            |        | See i          | ndividual cou | nty below  |                |       |
| North Florida MPO                | Multiple Counties                 | 168.4   | 172.8                                  | 2.6% 183          | 3.4 6.19    | .% 201.0   | 9.6%   | 212.0             | 5.5%     | 1,261.0            | 1,299.2     | 3.0%   | 1,341.   | 2 3.2%                                     | 1,371.2     | 2.2%  | 1,328.8           | -3.1%      | 1.112         | 1.136  | 2.2% 1.18          | 8 4.6      | % 1.269 6.8   | 1.301       | 2.5%              | 8.329 8.5  | 17 2.6%   | 8.716       | 2.0% 8.728 0.1             | % 8.226       | -5.8%      | 174.2  | 181.8 4.4% 19  | 1.8 5.5%      | 196.0 2.3  | 190.8          | -2.7% |
| Polk TPO                         | Single County                     | 90.4    | 94.2                                   | 4.2% 99           | 9.8 5.99    | 108.4      | 4 8.6%                                       | 113.6             | 4.8%     | 566.4              | 539.0       | -4.8%  | 499.     | 6 -7.3%                                    | 480.6       | -3.8% | 484.2             | 0.7%       | 1.520         | 1.541  | 1.4% 1.57          | 9 2.5      | % 1.645 4.2   | 1.648       | 0.2%              | 9.503 8.8  | -7.0%     | 7.959 -:    | 10.0% 7.389 -7.2           | % 7.085       | -4.1%      | 63.0   | 65.2 3.5%      | 3.6 -2.5%     | 67.4 6.0   | 70.4           | 4.5%  |
| Lee County MPO                   | Single County                     | 75.2    | 75.6                                   | 0.5% 81           | 1.0 7.19    | .% 87.2    | 2 7.7%                                       | 97.2              | 11.5%    | 456.6              | 458.0       | 0.3%   | 460.     | 4 0.5%                                     | 498.6       | 8.3%  | 515.8             | 3.4%       | 1.164         | 1.140 -  | -2.1% 1.18         | 7 4.1      | % 1.232 3.8   | 1.331       | 8.0%              | 7.067 6.9  | 21 -2.1%  | 6.786       | -2.0% 7.095 4.6            | % 7.076       | -0.3%      | 76.8   | 80.0 4.2% 8    | 4.0 5.0%      | 91.0 8.3   | <b>95.2</b>    | 4.6%  |
| Martin MPO                       | Single County                     | 26.2    | 23.6                                   | -9.9% 24          | 4.2 2.59    | 25.4       | 5.0%   | 25.2              | -0.8%    | 124.6              | 116.4       | -6.6%  | 107.     | 0 -8.1%                                    | 102.6       | -4.1% | 102.6             | 0.0%       | 1.273         | 1.162 -  | -8.7% 1.18         | 6 2.1      | % 1.246 5.1   | .% 1.210    | -2.9%             | 6.054 5.7  | 39 -5.2%  | 5.269       | -8.2% 5.099 -3.2           | % 4.995       | -2.0%      | 17.6   | 17.4 -1.1% 1   | 6.2 -6.9%     | 14.0 -13.  | 6% <b>14.6</b> | 4.3%  |
| Miami-Dade Urbanized Area MPO    | Single County                     | 242.8   | 246.6                                  | 1.6% 265          | 5.0 7.59    | 273.8      | 3.3%   | 284.8             | 4.0%     | 1,959.0            | 1,992.0     | 1.7%   | 1,992.   | 4 0.0%                                     | 1,895.0     | -4.9% | 1,807.0           | -4.6%      | 1.263         | 1.284  | 1.7% 1.37          | 8 7.3      | % 1.417 2.8   | % 1.452     | 2.5%              | 0.206 10.3   | 33 1.7%   | 10.387      | 0.0% 9.857 -5.1            | % 9.250       | -6.2%      | 411.8  | 425.8 3.4% 44  | 6.0 4.7%      | 435.8 -2.3 | 426.0          | -2.2% |
| Collier County MPO               | Single County                     | 37.2    | 37.2                                   | 0.0% 38           | 8.8 4.39    | 38.0       | -2.1%  | 36.0              | -5.3%    | 184.0              | 174.0       | -5.4%  | 175      | 2 0.7%                                     | 177.2       | 1.1%  | 186.0             | 5.0%       | 1.169         | 1.160 -  | -0.8% 1.18         | 4 2.1      | % 1.125 -5.0  | % 1.032     | -8.3%             | 5.790 5.4  | 15 -6.0%  | 5.388       | -1.0% 5.252 -2.5           | % 5.258       | 0.1%       | 37.2   | 38.6 3.8% 3    | 7.6 -2.6%     | 40.0 6.4   | 4% 39.2        | -2.0% |
| Ocala/Marion County TPO          | Single County                     | 61.8    | 60.6                                   | -1.9% 60          | 0.0 -1.09   | 61.6       | 5 2.7%                                       | 66.4              | 7.8%     | 423.0              | 359.4       | -15.0% | 326.     | 8 -9.1%                                    | 327.8       | 0.3%  | 321.4             | -2.0%      | 1.538         | 1.507 -  | -2.0% 1.47         | 5 -2.1     | % 1.478 0.2   | % 1.544     | 4.5%              | 0.501 8.9  | 52 -14.8% | 8.069       | -9.9% 7.894 -2.2           | % 7.511       | -4.9%      | 41.8   | 39.0 -6.7% 3   | 8.0 -2.6%     | 41.2 8.4   | 4% 42.6        | 3.4%  |
| METROPLAN Orlando                | Multiple Counties                 | 208.8   | 210.6                                  | 0.9% 218          | 3.79        | 225.8      | 3.4%   | 244.4             | 8.2%     | 1,539.6            | 1,893.0     | 23.0%  | 2,318.   | 6 22.5%                                    | 2,639.2     | 13.8% | 2,827.8           | 7.1%       | 1.049         | 1.049  | 0.0% 1.07          | 3 2.3      | % 1.088 1.4   | % 1.132     | 4.0%              | 7.748 9.4  | 21.3%     | 11.309      | 20.3% 12.624 11.6          | % 13.176      | 4.4%       | 261.2  | 300.0 14.9% 34 | 1.8 13.9%     | 375.6 9.9  | 9% 393.4       | 4.7%  |
| Bay County TPO                   | Single County                     | 24.0    | 24.4                                   | 1.7% 27           | 7.2 11.59   | % 30.0     | 0 10.3%                                      | 29.2              | -2.7%    | 257.4              | 250.4       | -2.7%  | 255      | 2 1.9%                                     | 234.6       | -8.1% | 229.4             | -2.2%      | 1.322         | 1.340  | 1.4% 1.47          | 6 10.1     | % 1.596 8.1   | % 1.520     | <b>-4.8%</b> 1    | 4.172 13.7   | 51 -2.9%  | 13.897      | 1.0% 12.559 -9.6           | % 12.019      | -4.3%      | 29.8   | 29.4 -1.3% 3   | 4.4 17.0%     | 37.6 9.    | 36.6           | -2.7% |
| Pasco County MPO                 | Single County                     | 69.4    | 67.8                                   | -2.3% 66          | 6.8 -1.59   | % 71.2     | 2 6.6%                                       | 77.6              | 9.0%     | 855.4              | 871.0       | 1.8%   | 933.0    | 0 7.1%                                     | 1,032.6     | 10.7% | 1,145.2           | 10.9%      | 1.735         | 1.660 -  | -4.3% 1.59         | 2 -4.1     | % 1.657 4.1   | % 1.729     | 4.3%              | 1.416 21.2   | 79 -0.6%  | 22.076      | 3.7% 23.905 8.3            | % 25.768      | 7.8%       | 105.6  | 109.6 3.8% 10  | 9.0 -0.5%     | 115.6 6.   | 1% 121.4       | 5.0%  |
| Florida-Alabama TPO              | Multiple Counties, not countywide |         |  | See inc           | dividual co | ounties be | elow   | •                 |          |                    |             |        | See indi | vidual cou                                 | unties belo | w     |                   |            |               |  | See ind            | ividual co | ounties below | •           |                   | •  | S         | e individu  | al counties below          |               |            |        | See ir         | dividual coun | ties below |                |       |
| Pinellas County MPO              | Single County                     | 99.0    | 101.4                                  | 2.4% 102          | 2.8 1.49    | 105.6      | 5 2.7%                                       | 109.4             | 3.6%     | 1,270.0            | 1,217.8     | -4.1%  | 1,194.   | 6 -1.9%                                    | 1,175.0     | -1.6% | 1,120.2           | -4.7%      | 1.229         | 1.272  | 3.5% 1.29          | 6 1.9      | % 1.308 0.9   | % 1.330     | 1.7%              | 5.746 15.2   | 58 -3.1%  | 15.068      | -1.2% 14.591 -3.2          | % 13.667      | -6.3%      | 212.4  | 213.8 0.7% 21  | 7.2 1.6%      | 220.8 1.   | 7% 215.0       | -2.6% |
| Sarasota/Manatee MPO             | Multiple Counties                 | 81.0    | 81.6                                   | 0.7% 87           | 7.4 7.19    | .% 99.8    | 3 14.2%                                      | 101.4             | 1.6%     | 770.4              | 777.4       | 0.9%   | 906.     | 6 16.6%                                    | 1,130.6     | 24.7% | 1,279.2           | 13.1%      | 1.103         | 1.104  | 0.1% 1.16          | 0 5.1      | % 1.289 11.1  | % 1.279     | <b>-0.8%</b> 1    | 0.487 10.4   | 92 0.0%   | 11.980      | 14.2% 14.496 21.0          | % 16.062      | 10.8%      | 127.8  | 134.2 5.0% 14  | 2.8 6.4%      | 160.0 12.0 | 0% 167.0       | 4.4%  |
| St Lucie TPO                     | Single County                     | 30.0    | 29.8                                   | -0.7% 31          | 1.0 4.09    | 33.6       | 6 8.4%                                       | 36.4              | 8.3%     | 187.4              | 174.0       | -7.2%  | 166.     | 6 -4.3%                                    | 164.8       | -1.1% | 164.0             | -0.5%      | 0.967         | 0.956 -  | -1.1% 0.98         | 5 3.0      | % 1.064 8.0   | % 1.128     | 6.0%              | 5.027 5.5  | 52 -7.7%  | 5.276       | -5.1% 5.230 -0.9           | % 5.095       | -2.6%      | 26.6   | 28.4 6.8% 2    | 6.8 -5.6%     | 24.0 -10.4 | 4% 26.4        | 10.0% |
| Capital Region TPA               | Multiple Counties                 | 55.4    | 53.0                                   | -4.3% 51          | 1.4 (-3.09  | 55.2       | 7.4%   | 53.6              | -2.9%    | 351.8              | 313.6       | -10.9% | 278.     | 6 -11.2%                                   | 266.2       | -4.5% | 258.4             | -2.9%      | 1.299         | 1.249  | -3.8% 1.20         | 8 -3.3     | % 1.271 5.2   | 1.203       | -5.4%             | 3.203 7.3  | 60 -10.3% | 6.539       | 11.2% 6.147 -6.0           | % 5.842       | -5.0%      | 41.8   | 41.4 -1.0%     | 2.4 2.4%      | 44.0 (3.3  | 43.8           | -0.5% |
| River to Sea TPO                 | Multiple Counties, not countywide |         | See individual counties below          |                   |             |            |  |                   | See indi | vidual cou         | unties belo | w      | •        |  |             |       | See ind           | ividual co | ounties below |  |                    |            | S             | ee individu | al counties below | •  |           |             | See ir                     | dividual coun | ties below |        |                |               |            |                |       |
| Palm Beach MPO                   | Single County                     | 131.4   | 127.0                                  | -3.3% 139         | 9.6 9.99    | 152.8      | 9.5%   | 158.4             | 3.7%     | 1,047.0            | 1,040.2     | -0.6%  | 1,027.   | 2 -1.2%                                    | 1,055.2     | 2.7%  | 1,079.2           | 2.3%       | 1.067         | 1.022 -  | -4.2% 1.09         | 9 7.5      | % 1.181 7.5   | % 1.192     | 0.9%              | 8.493 8.3  | 59 -1.5%  | 8.112       | -3.1% 8.203 1.1            | % 8.152       | -0.6%      | 190.0  | 193.4 1.8% 20  | 0.8 3.8%      | 203.0 1.   | 203.6          | 0.3%  |
| Lake-Sumter MPO                  | Multiple Counties                 | 62.0    | 61.2                                   | -1.3% 64          | 4.4 5.29    | % 66.4     | 3.1%   | 69.8              | 5.1%     | 369.4              | 348.8       | -5.6%  | 340.     | 6 -2.4%                                    | 364.6       | 7.0%  | 430.6             | 18.1%      | 1.436         | 1.385 -  | -3.6% 1.41         | 0 1.8      | % 1.423 0.9   | % 1.429     | 0.4%              | 8.571 7.8  | 79 -8.1%  | 7.429       | -5.7% 7.742 4.2            | % 8.658       | 11.8%      | 37.2   | 39.6 6.5% 3    | 8.8 -2.0%     | 40.8 5     | 2% 43.0        | 5.4%  |
| Heartland Regional TPO           | Multiple Counties                 | 57.6    | 55.8                                   | -3.1% 57          | 7.4 2.99    | 60.6       | 5.6%   | 66.8              | 10.2%    | 331.2              | 310.4       | -6.3%  | 299.     | 8 -3.4%                                    | 341.8       | 14.0% | 390.0             | 14.1%      | 2.053         | 1.996 -  | -2.8% 2.02         | 5 1.5      | % 2.099 3.7   | 2.235       | <b>6.5%</b> 1     | 1.785 11.0   | -5.9%     | 10.577      | -4.6% 11.744 11.0          | % 12.899      | 9.8%       | 32.4   | 35.0 8.0% 3    | 3.2 -5.1%     | 32.4 -2.4  | 4% 33.4        | 3.1%  |

| FDOT<br>County | County Name  | МРО/ТРО                 |         | Ave        | rage    | Annua      | al Fat  | alitie | es <sup>1</sup> |       |         | Averag       | e Anr   | nual S   | Serious In   | juries <sup>2</sup> |         |                 | Av        | erage    | e Annua    | l Fatal  | lity Ra | ates <sup>3</sup> |                 | Avera     | ge Ar  | ınual Sei    | rious   | Injury   | Rates <sup>4</sup> | ı            |           |          |         |            | strian a<br>rious In |               | clist         |
|----------------|--------------|-------------------------|---------|------------|---------|------------|---------|--------|-----------------|-------|---------|--------------|---------|----------|--------------|---------------------|---------|-----------------|-----------|----------|------------|----------|---------|-------------------|-----------------|-----------|--------|--------------|---------|----------|--------------------|--------------|-----------|----------|---------|------------|----------------------|---------------|---------------|
| Number         |              |                         | 2009-13 | 2010-14    | 2       | 2011-15    | 2012    | 2-16   | 2013-1          | 17    | 2009-13 | 2010-14      | 20      | 11-15    | 2012-16      | 201                 | .3-17   | 2009-1          | 13 20:    | 10-14    | 2011-15    | 201      | 12-16   | 2013-17           | 2009-1          | 3 2010    | )-14   | 2011-15      | 20      | 12-16    | 2013-1             | L <b>7</b> 2 | 2009-13   | 2010-14  | 2       | 2011-15    | 2012-16              | 201           | .3-17         |
|                |              |                         | Average | Average %∆ | ∆ Avera | age %∆     | Average | %∆ .   | Average         | %∆    | Average | Average %∆   | Averag  | ge %Δ    | Average %    | ∆ Averag            | e %∆    | ∆ Avera         | ge Averag | ge %∆    | Average %  | Averag   | e %∆    | Average %         | <b>∆</b> Averag | e Average | %∆     | Average %∆   | Averag  | e %∆     | Average            | %∆ /         | Average A | verage 9 | 6Δ Aver | age %∆     | Average %            | <b>Averag</b> | ge % <u>∆</u> |
| 26             | Alachua      | Gainesville MTPO        | 30.4    | 30.4 0.0   | 0% 32   | 2.6 7.2%   | 36.4    | 11.7%  | 40.0            | 9.9%  | 303.0   | 276.0 -8.9   | % 265   | .8 -3.7  | 264.2 -0.    | .6% 263.0           | 6 -0.2  | <b>2%</b> 1.07  | 73 1.06   | 66 -0.7% | 1.130 6.   | 0% 1.23  | 5 9.3%  | 1.322 7.          | <b>0%</b> 10.67 | 9.683     | -9.3%  | 9.224 -4.7   | 7% 8.96 | 6 -2.8%  | 8.739              | -2.5%        | 37.6      | 38.2     | 1.6% 3  | 7.0 -3.1%  | 37.8 2               | .2%           | .0 -2.1%      |
| 48             | Escambia     | Florida-Alabama TPO     | 40.8    | 41.6 2.0   | 0% 44   | 4.2 6.3%   | 44.4    | 0.5%   | 46.8            | 5.4%  | 472.2   | 377.8 -20.0  | % 321   | .4 -14.9 | 281.6 -12    | .4% 284.8           | 3 1.1   | <b>1%</b> 1.20  | 06 1.22   | 27 1.7%  | 1.298 5    | 8% 1.289 | 9 -0.7% | 1.344 4.          | 13.95           | 4 11.152  | -20.1% | 9.450 -15.3  | 8.18    | 2 -13.4% | 8.172              | -0.1%        | 66.0      | 60.2 -   | 3.8% 5  | 5.4 -8.0%  | 54.4 -1              | 8% 54         | 8 0.7%        |
| 58             | Santa Rosa   | Florida-Alabama TPO     | 23.8    | 22.2 -6.7  | 7% 21   | 1.8 -1.8%  | 20.0    | -8.3%  | 20.0            | 0.0%  | 262.2   | 233.0 -11.1  | % 218   | .0 -6.4  | 189.6 -13    | .0% 166.4           | 4 -12.2 | <b>2%</b> 1.18  | 39 1.10   | )5 -7.1% | 1.081 -2.  | 2% 0.97  | 7 -9.6% | 0.963 -1.         | <b>4%</b> 13.10 | 5 11.602  | -11.5% | 10.821 -6.7  | 9.24    | 5 -14.6% | 8.014              | #####        | 16.4      | 15.2 -   | 7.3% 1  | .5.0 -1.3% | 15.8 5               | 3% 13         | 6 #####       |
| 57             | Okaloosa     | Okaloosa-Walton TPO     | 22.0    | 24.0 9.1   | 1% 27   | 7.0 12.5%  | 26.6    | -1.5%  | 28.0            | 5.3%  | 231.4   | 212.4 -8.2   | % 202   | .4 -4.7  | 7% 184.4 -8. | .9% 163.8           | 3 -11.2 | <b>2%</b> 1.06  | 56 1.15   | 8.2%     | 1.283 11.  | 3% 1.24  | 7 -2.8% | 1.283 2.          | <b>9%</b> 11.23 | 2 10.227  | -8.9%  | 9.681 -5.3   | 8.69    | 3 -10.2% | 7.525              | #####        | 28.6      | 29.0     | 1.4% 3  | 6.2%       | 28.6 -7              | 1% 29         | 6 3.5%        |
| 60             | Walton       | Okaloosa-Walton TPO     | 19.4    | 18.2 -6.2  | 2% 14   | 4.2 -22.0% | 14.2    | 0.0%   | 15.4            | 8.5%  | 143.4   | 138.2 -3.6   | % 137   | .8 -0.3  | 120.8 -12    | .3% 106.2           | 2 -12.1 | <b>1</b> % 1.68 | 34 1.56   | 60 -7.4% | 1.198 -23. | 2% 1.160 | 0 -3.2% | 1.236 6.          | <b>6%</b> 12.43 | 4 11.849  | -4.7%  | 11.609 -2.0  | 9.93    | 9 -14.4% | 8.600              | #####        | 8.6       | 9.0      | 1.7%    | 9.4 4.4%   | 8.6 -8               | .5% <b>9</b>  | 0 4.7%        |
| 73             | Flagler      | River to Sea TPO        | 18.4    | 20.0 8.7   | 7% 17   | 7.8 -11.0% | 18.4    | 3.4%   | 22.0            | 19.6% | 176.2   | 160.0 -9.2   | % 137   | .8 -13.9 | 119.2 -13    | .5% 97.8            | -18.0   | <b>0%</b> 1.72  | 20 1.79   | 98 4.5%  | 1.542 -14. | 2% 1.504 | 4 -2.5% | 1.693 12.         | <b>6%</b> 16.49 | 7 14.757  | -10.5% | 12.239 -17.1 | 10.25   | 9 -16.2% | 7.868              | #####        | 13.6      | 14.2     | 1.4% 1  | 5.8 11.3%  | 15.6 -1              | 3% 12         | 4 #####       |
| 79             | Volusia      | River to Sea TPO        | 188.8   | 186.0 -1.5 | 5% 178  | 8.4 -4.1%  | 192.8   | 8.1%   | 205.6           | 6.6%  | 1,383.6 | 1,316.4 -4.9 | % 1,260 | .4 -4.3  | 1,277.2      | .3% 1,306.4         | 4 2.3   | <b>3%</b> 3.43  | 3.39      | 94 -1.1% | 3.250 -4.  | 2% 3.430 | 0 5.5%  | 3.574 4.          | <b>2%</b> 25.14 | 6 24.038  | -4.4%  | 22.970 -4.4  | 22.78   | -0.8%    | 22.760             | -0.1%        | 184.4     | 185.6    | 0.7% 17 | 8.0 -4.1%  | 177.6 -0             | 2% 192        | 4 8.3%        |
| 88             | Indian River | Indian River County MPO | 20.0    | 19.8 -1.0  | 0% 19   | 9.4 -2.0%  | 20.6    | 6.2%   | 24.4            | 18.4% | 117.2   | 119.0 1.5    | % 115   | .8 -2.7  | 2% 127.2 9   | .8% 129.0           | 0 1.4   | <b>4%</b> 1.33  | 33 1.31   | -1.6%    | 1.263 -3.  | 7% 1.32  | 2 4.7%  | 1.538 16.         | <b>3%</b> 7.81  | 6 7.885   | 0.9%   | 7.568 -4.0   | 8.19    | 4 8.3%   | 8.150              | -0.5%        | 14.2      | 14.6     | 2.8% 1  | .6.2 11.0% | 17.6                 | .6% 20        | 0 13.6%       |

Single-county MPO/TPOs that encompass the entire limits of the county are calculated using the total county fatalities, serious injuries and traffic volumes summed for all of the included counties are calculated using the fatalities, serious injuries and traffic volumes and traffic volumes summed for all of the included counties are not calculated at the MPO/TPO level but the county are presented in the lower table.

DATA SOURCES: fatality and serious injury counts from Florida Dept. of Transportation (FDOT) State Safety Office's Crash Analysis Reporting (CAR) database as of December 19, 2018; traffic volumes as published by the FDOT office of Transportation Data and Analytics at http://www.fdot.gov/planning/statistics/mileage-rpts/

- 1. The average number of fatalities per year is the sum of the annual total fatalities for each year in the range divided by 5, to one decimal place. Fatalities are individuals listed on a Florida Traffic Crash Report (FTCR) form with injury code "5" fatal (within 30 days).
- 2. The average number of serious injuries per year is the sum of the annual total serious injuries for each year in the range divided by 5, to one decimal place. Serious injuries are individuals listed on an FTCR form with injury code "4" incapacitating.
- 3. The average fatality rate is an average of the yearly rate figures for the years in the range, to three decimal places. Each yearly rate is calculated by dividing the total number of fatalities for the year. Traffic volume for the year by the total number of fatalities for the year by the total number of fatalities for the year by the total number of fatalities for the year by the total number of fatalities for the year by the total number of fatalities for the year. Traffic volume is expressed in 100 Million Vehicle-Miles and is the Daily Vehicle-Miles Traveled (sum for the region of the counts of vehicles per day times the length of the segments associated with the traffic) times the number of fatalities divided by the traffic volume is the annual fatality rate. This measure averages the five annual rates within the measurement window and does NOT use the cumulative five-year fatalities over the cumulative five-year traffic volume.
- 4. The average serious injury rate is an average of the yearly rate figures for the years in the range, to three decimal places. Each yearly rate is calculated by dividing the total traffic volume for the year by the total traffic volume for the year by the total traffic volume. The same traffic volume figure is used here in the same way.
- 5. The average number of combined fatalities and serious injuries for bicyclists and pedestrians is per year is the sum of the annual total bicyclist and pedestrian fatalities and serious injuries are individuals listed on an FTCR form as Non-Motorist with a Non-Motorist Description code of "01" (pedestrian), "02" (other pedestrian), "02" (other pedestrian), "02" (other pedestrian), "02" (other pedestrian), "03" (bicyclist) and with injury code "4" incapacitating.

NOTE: Crash reports that reveal the personal information concerning the parties involved in the crash and that are held by any agency that regularly receives or prepares information contained within or attached to this message has been compiled from information collected for the purpose of identifying, evaluating or planning safety enhancements. It is used to develop highway safety construction improvements projects which may be implemented utilizing Federal Aid Highway funds. Any document displaying this notice shall be used only for the purposes deemed appropriate by the Florida Department of Transportation. See Title 23, United States Code, Section 409. Pursuant to Title 23 U.S.C Section 409, the information provided to you is not subject to discovery and is not admissible into evidence.

Data Extract: 12/19/2018
Published Date: 1/4/2019



### COMMITTEE AGENDA ITEM 2 B

### **2019 COMMITTEE CALENDAR**

Type of Item: Committee Action

### **STATEMENT OF ISSUE**

Annually, the CRTPA approves a calendar of meetings for the upcoming year. The CRTPA 2019 calendar has been adopted, and at this time CRTPA staff is seeking approval of a supporting calendar for committee meetings.

# **RECOMMENDED ACTION**

Option 1: Approve the 2019 Committee Meeting Calendar.

| 2019 CRTPA Meeting Dates | Committee Dates | TAC Time     | CMAC Time         |
|--------------------------|-----------------|--------------|-------------------|
| February 19              | February 5      | 9 AM – 11 AM | 11:30 AM -1:30 PM |
| March 19                 | March 5         | 9 AM – 11 AM | 11:30 AM -1:30 PM |
| RETREAT, April 16        | April 2         | 9 AM – 11 AM | 11:30 AM -1:30 PM |
| May 21                   | May 7           | 9 AM – 11 AM | 11:30 AM -1:30 PM |
| June 17                  | June 4          | 9 AM – 11 AM | 11:30 AM -1:30 PM |
| September 17             | September 3     | 9 AM – 11 AM | 11:30 AM -1:30 PM |
| RETREAT, October 14      | October 1       | 9 AM – 11 AM | 11:30 AM -1:30 PM |
| November 19              | November 5      | 9 AM – 11 AM | 11:30 AM -1:30 PM |
| December 17              | December 3      | 9 AM – 11 AM | 11:30 AM -1:30 PM |

February 5, 2019



### **COMMITTEE AGENDA ITEM 3 B**

### THARPE STREET & PENSACOLA STREET OPERATIONAL ANALYSES

Type of Item: Discussion & Approval

### **STATEMENT OF ISSUE**

The Draft Traffic and Operations Analysis Reports for Tharpe Street and Pensacola Street have been submitted to the CRTPA for review. At this time, the project consultant, RS&H, would like to provide a summary presentation of the reports for Committee consideration. The Draft Reports have been provided as part of this agenda item.

### **HISTORY AND ANALYSIS**

In February of 2018, the CRTPA directed its general consultant, RS&H, to initiate corridor studies for Tharpe Street and Pensacola Street, both of which are within Leon County. These corridors were identified as needing additional capacity improvements (roadway widening) in the currently adopted 2040 Regional Mobility Plan (RMP). The corridor studies were initiated to identify existing and projected future conditions along the corridor limits for Pensacola Street (Appleyard Drive to Capital Circle SW) and Tharpe Street (Ocala Road to Capital Circle, NW) and to identify potential projects to improve mobility and efficiency without major capacity expansions.

### **RECENT ACTIONS**

The **DRAFT** Reports for the Tharpe Street and Pensacola Street Corridors have been submitted to the CRTPA for review and consideration in January of 2019. At this time, the consultant for the project is prepared to provide an overview to the CRTPA Committees of the findings for each corridor study, which are briefly outlined on the following pages.

### I. THARPE STREET CORRIDOR REPORT SUMMARY

The Tharpe Street Corridor Report identified three distinct sections along the corridor by characteristic. These sections are identified as the *Industrial Section*, the *Residential Section*, and the *Sheridan Road Section*. The limits and roadway characteristics of the three sections are outlined in Table 1 below.

| Table 1. That pe street section characteristics        |                              |                         |                        |  |  |  |  |  |  |  |
|--|------------------------------|-------------------------|------------------------|--|--|--|--|--|--|--|
| Section  | Number<br>of Travel<br>Lanes | Lane<br>Width<br>(Feet) | ROW<br>Width<br>(Feet) |  |  |  |  |  |  |  |
| Industrial (East of Capital Circle NW to Mission Road) | 2                            | 12                      | 100                    |  |  |  |  |  |  |  |
| Residential<br>(Mission Road to Ivan Drive)            | 2                            | 12                      | 66                     |  |  |  |  |  |  |  |
| Residential (Devra Drive to West of Ocala Road)        | 2                            | 12                      | 76                     |  |  |  |  |  |  |  |
| Sheridan<br>(Ivan Drive to Devra Drive)                | 2                            | 12                      | 123                    |  |  |  |  |  |  |  |

**Table 1. Tharpe Street Section Characteristics** 

### **Physical Deficiencies**

The Tharpe Street Corridor Report identified five (5) main physical issues along the corridor that warrant addressing. These issues are as follows:

- **1. Transit Accessibility** Bus stops are not compliant with Americans With Disabilities Act (ADA), shelters and sidewalks are missing, informational materials about the stops are missing.
- **2. Spot Congestion** Spot congestion occurs as a result of frequent bus stops (including school bussing), and trash collections especially during am peak hours, without the means for traffic to maneuver safely around the congestion/delays.
- **3.** Lack of Bicycle and Pedestrian Facilities 90% of the land parcels along the corridor of Tharpe Street have no bicycle lanes or sidewalks.
- **4. Desire Lanes** "Goat Paths" showing where existing foot traffic is occurring alongside the roadway.
- **5. Flooding and Runoff** Storm water runoff is causing erosion and flooding alongside the existing roadway, further complicating the pedestrian's quest for safe travel.

### Level of Service and Crash Data

The existing intersection analysis of Tharpe Street (summarized below in the table) reveals that the *Mission Road intersection is currently operating at a LOS "E", which is below the adopted LOS standard considered acceptable for the peak hour.* Based on this analysis, Capacity Improvements would be warranted.

**Table 2. Existing Intersection Operation Analysis.** 

| Intersection                | AM | PM |
|-----------------------------|----|----|
| CCNW (SR 366)               | D  | D  |
| Mission Rd.                 | D  | Е  |
| San Luis Rd./Devra Dr.      | В  | В  |
| N. Ocala Rd. / Fairlane Rd. | С  | D  |

With regard to crash data, analyses from this report show that the corridor segment (Ocala Road to Capital Circle, SW) has a crash rate of 6.14 compared to the state average of .299.

### Recommended Priority of Improvement Types for the Corridor

With Tharpe Street classified as an urban minor arterial, it was recommended that priority be placed on improving/installing the following roadway features:

- 1. Sidewalks
- 2. Medians
- 3. Access management
- 4. Multimodal intersection design
- 5. Bicycle lanes
- 6. Sharrows
- 7. Bus pullouts
- 8. Bus shelters
- 9. Landscaping

### <u>Overall Recommendations for the Tharpe Street Corridor by Characteristic Segments</u>

The following recommendations are proposed for the segments of Tharpe Street identified below.

### A. Industrial Section Recommendations

(East of Capital Circle NW to Mission Road)

- Install 5-foot-wide concrete sidewalk with a 4 foot wide utility strip on the north side;
- Add shared lane markings (Sharrows);
- Convert Blountstown Hwy and Tharpe Street to a "T" Intersection;
- Install a Linear Park on Blountstown Hwy; and
- Install an 8-foot-wide concrete sidewalk (curb and gutter) along the east side of Blountstown Hwy.

### **B.** Residential Section Recommendations

(Mission Road to Ivan Drive & Devra Drive to West of Ocala Road)

- Add 8-foot-wide concrete sidewalk, culvert system, and curb & gutter along north side of Tharpe Street;
- Add 8-foot-wide pedestrian bridge over central drainage system;
- Widen 10 feet along the south side of Tharpe Street for addition of medians;
- Add two Jug handle U turns;
- Install turnout bay; and
- Re-stripe east side of Tharpe Street near Ocala Road to include bike lanes.

### C. Sheridan Section Recommendations

(Ivan Drive to Devra Drive)

 Add 8-foot-wide concrete sidewalk, culvert system, and curb & gutter along north side of Tharpe Street.

### II. Pensacola Street Corridor Report Summary

### **Physical Deficiencies**

The Pensacola Street Corridor Report identified four (4) main physical issues along the corridor that were identified and studied. These issues are as follows:

- Spot Congestion Spot congestion occurs as uniform dismissal from classes at Tallahassee Community College (TCC) spike traffic as students and faculty begin to exit the TCC parking lot.
- 2. Lighting A review of the crash history along the Pensacola corridor was conducted in order to identify deficiencies with respect to existing lighting infrastructure. An analysis of data pulled from 2012-2016 revealed that 17 out of 160 crashes occurred during low visibility hours (dusk, dawn, and nighttime). These incidents comprised 9.4% of total crashes. Additionally, referencing the associated long-form crash reports for these events, none cited low visibility as a primary cause. Therefore, no improvements to existing lighting infrastructure are recommended at this time.
- 3. Bottleneck Recent road widening has developed the section of Pensacola Street from Capital Circle SW to Blountstown Hwy as a 6-lane section, but as Pensacola Street continues east, it condenses into a 2-lane section at the bridge, creating a bottleneck. Pensacola Street continues as this 2-lane roadway transitioning to a 4-lane roadway at TCC's access point. Increased east bound traffic volumes are likely to occur due to the increased capacity of the 6-lane section of Pensacola Street. The increases in traffic volumes could intensify congestion along Pensacola Street. For this reason, the existing bottleneck is a candidate for remediation.
- 4. Lack of Bicycle and Pedestrian Facilities Currently, the 2-lane section between Blountstown Hwy and Progress Drive lacks bike and pedestrian facilities. For this reason, cyclists and pedestrians are given no choice but to travel along grassed areas to avoid interaction with motorists. However, grassed ditches are not always made available. The bridge located in this section poses a high-risk area for pedestrians as they are given no choice but to travel on the roadway with vehicular traffic.

### **Level of Service and Crash Data**

The existing intersection analysis is summarized in **Table 2**, on the following page, which reveals that under current conditions, all major intersections appear to be operating at acceptable LOS values for peak hour operations. Based on this analysis, there appears to be no need for major capacity improvements along the Pensacola Street Corridor.

| Intersection           | AM | PM |
|------------------------|----|----|
| CCSW @ Blountstown Hwy | D  | D  |
| Progress Dr.           | А  | С  |

**Table 2. Existing Intersection Operation Analysis.** 

Review of the Annual Average Daily Traffic (AADT) from FDOT revealed that the highest volumes of traffic for the Pensacola Corridor under study appear to be east of Appleyard Drive and west of Blountstown Hwy.

В

D

C

D

With regard to crash data, analyses from this report show that TCC's current access point on Pensacola Street reported the highest segmental crash rate. Accordingly, the intersection of Appleyard Drive and Pensacola Street experience the highest <u>intersection</u> crash rate within the study area of 1.74 per million vehicle miles of travel (MVMT).

### Overall Recommendations for the Pensacola Street Corridor

Nina Rd.

Appleyard Dr.

### A. Bottleneck - Widening Alternative of Bridge

- Widen Bridge adding two lanes (12' in width) and two 5-foot sidewalks for a total of 34' in widening (According to FDOT's Transportation Cost Reports (2014), the cost of construction for bridge widening falls between \$85 and \$160 per square foot. To be conservative, the value of \$160 per square foot is applied. The bridge in question is approximately 285.1' in length (according to FDOT SLD). Using the bridge's length and the total widening width, approximately 9693.4 square feet would be added to the existing structure at a cost of \$1,550,944); and
- Widen Pensacola Street at the approach tapers to make the roadway compatible with the widened bridge deck. (According to FDOT's LRE models "Adding 2 Lanes to Existing 3 Lane Undivided Arterial (1 Lane Each Side) with Center Turn Lane and 4' Bike Lanes" (in an urban setting) is approx. \$4,732,174.28 per mile. The length of roadway in question is approximately 0.634 miles in length resulting in a cost estimate of \$3,000,198.50).

NOTE: The combined/total cost estimate of widening Pensacola St. to 4 lanes and the accompanying bridge is \$4,551,142.50. However, this cost does not incorporate closing down and/or altering the CSX lines to facilitate said widening.

### **B.** Spot Congestion - Low Cost Alternative

 Add a "Private Drive, No U-Turn" sign is to entrance(s) of Disc Village, Grainger, and/or Pepsico.

### C. Spot Congestion - Comprehensive Alternative

- Reconfigure access points to TCC from Pensacola.
  - Creating a dedicated two lane entrance for TCC -- restriped to create both a left turn and right through lane;
  - Add a two-lane dedicated exit -- southwest of the Social Science Wing of TCC; and
  - Add "Do Not Enter" signs at the heads of the one-way pair to alert drivers.
- Manage access and restrict illegal movements at the existing two-way access point at TCC near the intersection at Appleyard Dr.

### **ATTACHMENTS**

**Attachment 1**: **DRAFT** Tharpe Street Traffic and Operations Analysis Report, January 2019 **Attachment 2**: **DRAFT** Pensacola Street Traffic and Operations Analysis Report, January 2019

# CRTPA TRAFFIC AND OPERATIONS ANALYSIS THARPE STREET

January 2019

**PREPARED FOR:** 



**PREPARED BY:** 



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# **Tharpe Street**

### **BACKGROUND**

The Capital Region Transportation Planning Agency (CRTPA) identified the need for additional capacity along Tharpe Street in the 2040 Regional Mobility Plan (RMP). The RMP proposes the widening of this corridor from Ocala Road to Capital Circle Northwest from two lanes to four lanes. The purpose of this study is to investigate existing conditions along Tharpe Street and identify potential projects to improve mobility and efficiency without major capacity expansions.

Existing conditions were established using the following data sources:

Table 1. List of Data Collection Sources

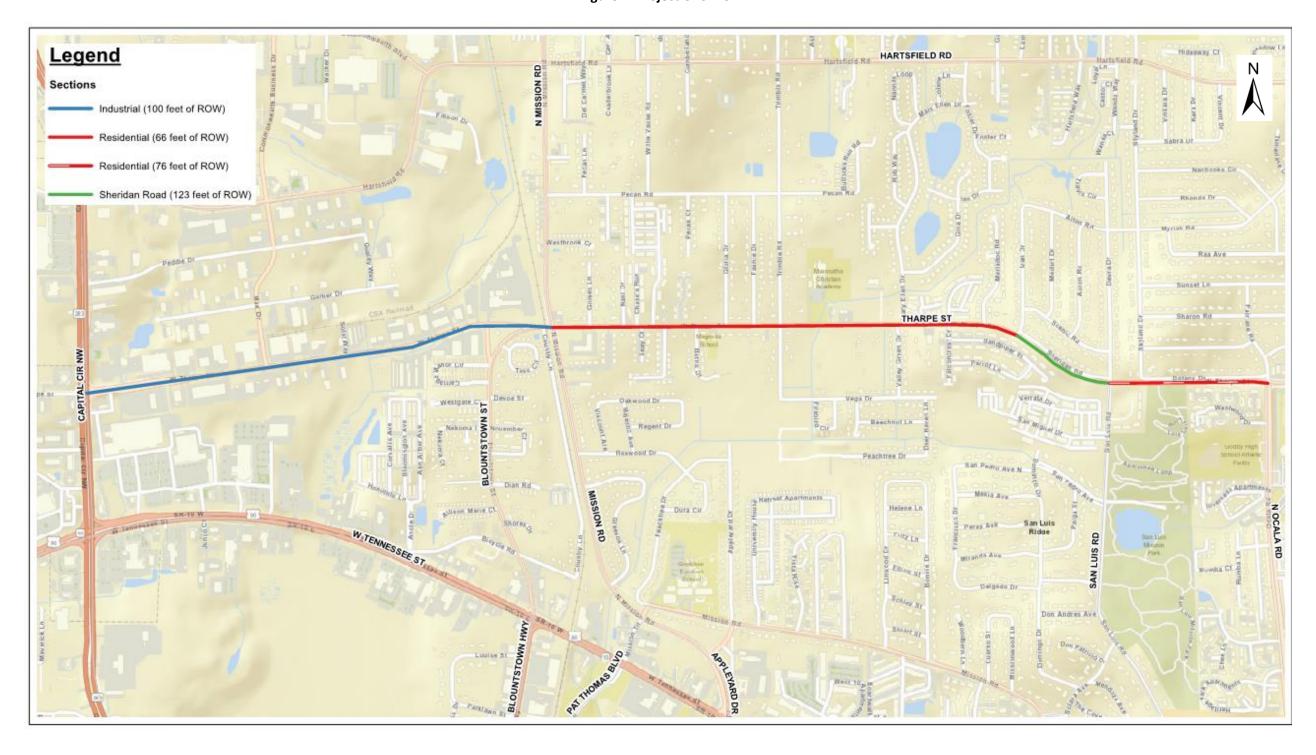
| Data Source                                 | Data Set                                       | Dates of sources |  |  |
|---|--|------------------|--|--|
| Field Visit                                 | Existing Issues                                | 07-25-2018       |  |  |
| City of Tallahassee                         | Operational Analysis                           | 2017             |  |  |
| StarMetro                                   | Bus routes and schedules                       | 2017             |  |  |
| Congestion Management Plan Update (CMP)     | Crash data                                     | 2012 – 2016      |  |  |
| FDOT Transportation Data                    | Historical AADT (Annual Average Daily Traffic) | 2012-2016        |  |  |
| Tharpe Street Corridor Study by Kimley-Horn | Previous recommendations                       | 2005             |  |  |

The corridor exhibits three distinct sections based on character and land use. These sections are identified as the Industrial Section, the Residential Section, and the Sheridan Road Section (see Figure 1). The Residential Section is divided into two sections: Mission Road to Ivan Drive and Devra Drive to west of Ocala Road. Number of lanes, travel lanes widths, and right-of-way (ROW) widths are shown in Table 2. The review of the existing conditions within the corridor resulted in the identification of five major issues and are discussed in the following sections.

**Table 2. Tharpe Street Section Distinctions** 

| Section  | Number<br>of Travel<br>Lanes | Lane<br>Width<br>(Feet) | ROW<br>Width<br>(Feet) |
|--|------------------------------|-------------------------|------------------------|
| Industrial (East of Capital Circle NW to Mission Road) | 2                            | 12                      | 100                    |
| Residential<br>(Mission Road to Ivan Drive)            | 2                            | 12                      | 66                     |
| Residential<br>(Devra Drive to West of Ocala Road)     | 2                            | 12                      | 76                     |
| Sheridan<br>(Ivan Drive to Devra Drive)                | 2                            | 12                      | 123                    |

Figure 1. Project Overview



### **ISSUES**

### Issue #1 -Transit Accessibility

StarMetro serves as the public transit agency for the City of Tallahassee and Florida State University. Currently, bus stops along Tharpe Street are not compliant with the Americans with Disabilities Act (ADA) and offer limited information to passengers (see Figure 2). Current ADA compliance is only required when bus shelters and sidewalks already exist. StarMetro desires to make all public transit links adhere to current ADA standards and to provide schedule and route information, making the system more accessible and safer for all riders.



Figure 2. Typical Bus Stop Along Tharpe Street

### Issue #2 - Spot Congestion

Spot congestion along Tharpe Street is primarily caused by routine traffic events such as bus pick up/drop off, trash collections, and left turn traffic. Some portions of the corridor have one through lane in each direction that is separated by a dual left turn lane (see Figure 3). Left turn traffic is especially common in the residential section of Tharpe Street where minor streets are clustered together. During routine bus stops, motorists often travel over painted medians due to the lack of maneuvering space provided by the current two-lane design as shown in Figure 4. With these left turn movements, spot congestion is especially prevalent in the residential section of Tharpe Street during peak AM/PM hours.

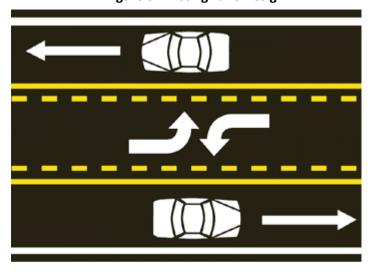


Figure 3. Existing Lane Design

Source: Florida Driver Handbook

Figure 4. Lack of Maneuvering Space Along Tharpe

### Issue #3 - Lack of Bicycle/Pedestrian Facilities

Presently 90% of the land parcels along Tharpe Street have no access to sidewalks or bicycle facilities. For this reason, cyclists and pedestrians have no choice but to travel along grassed ditches to avoid interaction with motorists (see Figure 5). However, grassed ditches are not always made available. One area in particular, located 500 feet east of Trimble Road, poses a high-risk area for pedestrians as they are given no choice but to travel on the roadway with vehicular traffic (see Figure 6).



**Figure 5. Pedestrian Travel Pattern** 

Figure 6. High Risk Area for Pedestrians

### Issue #4 – Desire Lanes

Desire lanes are paths that result from on-going pedestrian foot traffic and can be found at multiple locations along Tharpe Street. This not only lacks pedestrian safety benefits but also uniformity throughout the corridor. Prevalence of desire lanes signify the need for sidewalks (see Figure 7).



Figure 7. Desire Lanes along Tharpe Street

### Issue #5 - Flooding and Runoff

Evidence of roadside erosion can be observed throughout the corridor. Existing conditions show roadway drainage traveling to nearby roadside ditches that transports water runoff to the nearest outfall point (see Figure 8). Presently, no stormwater treatment is provided for the roadway other than the flow time in grassed ditches.



Figure 8. Slope Erosion Caused by Stormwater Runoff along Tharpe Street

### **ANALYSIS**

### **Analysis Procedures**

Analysis of traffic volumes is useful in understanding the general nature of traffic in an area, however, the volumes alone do not indicate the ability of the street network to carry additional traffic or the quality of service afforded by the street facilities. To fully understand the operations of the facility, Level of Service (LOS) is utilized to describe traffic performance. LOS can be measured at intersections and along key roadway segments. LOS categories are similar to report card ratings for traffic performance. LOS A, B and C indicate conditions where traffic moves without significant delays over periods of peak travel demand. LOS D and E are progressively worse operating conditions and LOS F conditions represent gridlock where demand exceeds the capacity of an intersection or roadway segment. Operational analysis for Tharpe Street was performed following the Highway Capacity Manual (HCM) 2000 methodologies using Synchro software. This was made available by The City of Tallahassee and reflects AM/PM traffic operations during October 2017.

Historical and county traffic sites provided the source of existing traffic for the Tharpe Street study area. Existing intersection analysis is summarized in Table 3 and shown in Figure 9. Under current conditions, the Mission Road intersection is not operating at an acceptable LOS for the peak hour. Mission Road operates at LOS E under existing traffic conditions, which does not meet established standards and identifies the need for capacity improvements.

**Table 3. Existing Intersection Operation Analysis.** 

| Intersection                   | AM | PM |
|--------------------------------|----|----|
| CCNW (SR 366)                  | D  | D  |
| Mission Rd.                    | D  | Е  |
| San Luis Rd./Devra Dr.         | В  | В  |
| N. Ocala Rd. / Fairlane<br>Rd. | С  | D  |

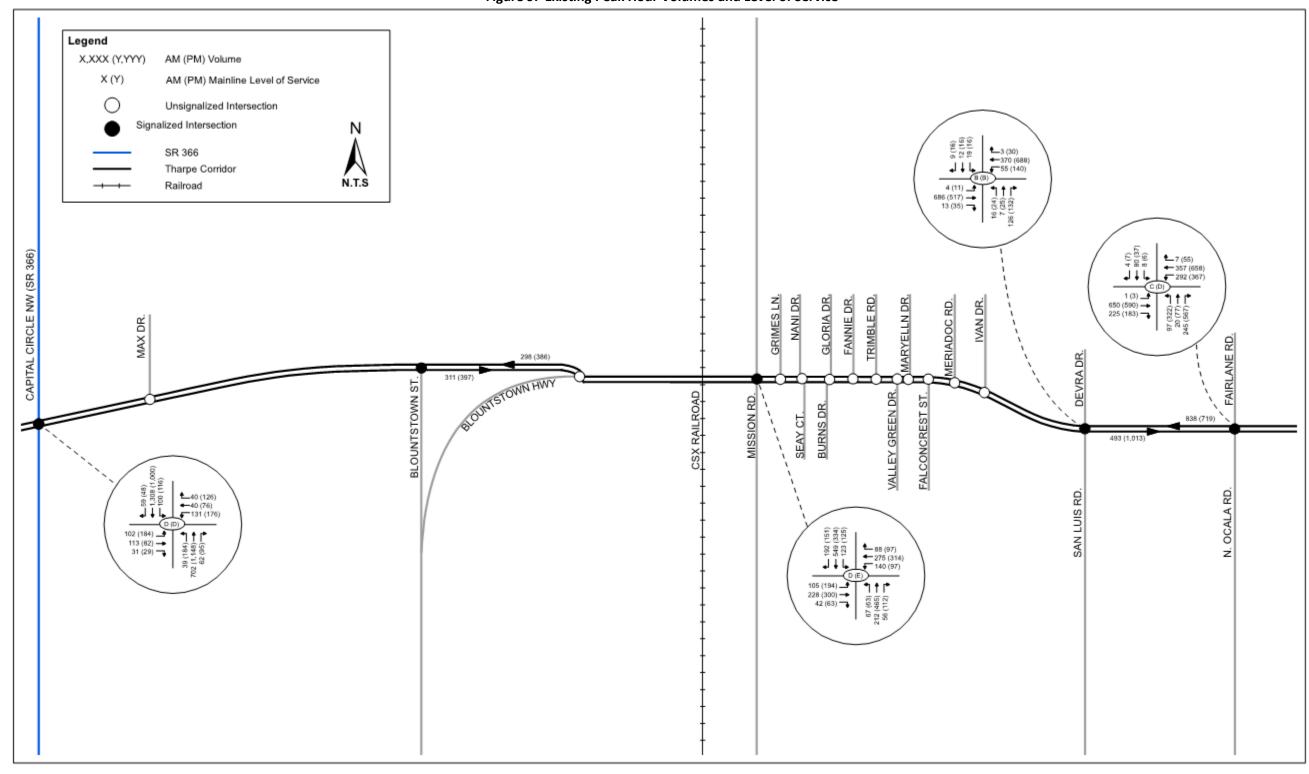


Figure 9. Existing Peak Hour Volumes and Level of Service

### **Crash Rates**

Crash rates are calculated values used in the comparison of crash experience of similar locations in the region. State agencies typically develop average crash rates for different types of intersections and roadway segment for statewide analyses. Incorporating crash rate with roadway information, such as traffic volume, aid in identifying roadway deficiencies.

Crash data was obtained from the recently updated Congestion Management Plan update. Sourced data encompassed the five-year period from 2012 to 2016. Crash data were then analyzed to determine types and locations of crashes that occurred along the corridor and at intersecting roadways. A total of 709 crashes were reported between 2012 to 2016. Of these, 333 were injury crashes, while only one reported fatality. Rear-end collisions were reported as the most common crash type in the residential section accounting for 50% total accidents. This number of rear-end collisions is likely due to driver response with the frequent spot congestion and left turning movements during AM/PM peak hours.

Currently Tharpe Street within the analysis segment has a crash rate of 6.14 per million vehicle miles of travel (MVMT). The state average for similar facilities consisting of undivided, two to three lanes with two-way traffic is 0.299.

Table 4. Tharpe Street (Ocala to Capital Circle) Crash Rate vs. State Average

|                   | Tharpe Street | Florida's State Average |
|-------------------|---------------|-------------------------|
| Crash Rate (MVMT) | 6.14          | 0.299*                  |

Source\*: Florida's five-year average crash rate for 2-3 lane, 2-way, undivided roadway section.

### **RECOMMENDATIONS**

The Street Design Priority Matrix, shown in Figure 10, is a tool used in the development of the Connections 2040 Regional Mobility Plan. This tool provides an understanding of the transportation facility elements and features and the connection to complete street components. The tool identifies priority features for different roadway classifications based on the overall character area. With Tharpe Street classified as an urban minor arterial, priority was placed on improving/installing the following roadway features:

- 1. Sidewalks
- 2. Medians
- 3. Access management
- 4. Multimodal intersection design
- 5. Bicycle lanes
- 6. Sharrows
- 7. Bus pullouts
- 8. Bus shelters
- 9. Landscaping

Figure 10. Street Design Priority Matrix

|                                   | Freeway | _ Principal Arterial |          | ial   | Minor Arterial |          |         | Collector |          |           | Local |          |       |
|-----------------------------------|---------|----------------------|----------|-------|----------------|----------|---------|-----------|----------|-----------|-------|----------|-------|
|                                   |         | Urban                | Suburban | Rural | Urban          | Suburban | Rural   | Urban     | Suburban | Rural     | Urban | Suburban | Rural |
| Shared Vehicle Zone               |         |                      |          |       |                |          |         |           |          |           |       |          |       |
| Multiple travel lanes             | Н       | Н                    | Н        | Н     | M              | M        | M       | M         | M        | L         | L     | L        | L     |
| Width of travel lanes             | н       | н                    | н        | М     | н              | н        | М       | н         | н        | М         | L     | L        | L     |
| Vehicle capacity at intersections | M       | Н                    | Н        | Н     | Н              | н        | M       | н         | М        | M         | L     | L        | L     |
| Design for large vehicles         | Н       | Н                    | M        | M     | Н              | М        | M       | M         | L        | L         | L     | L        | L     |
| Multimodal intersection design    | Н       | Н                    | Н        | M     | Н              | Н        | M       | Н         | Н        | M         | M     | M        | L     |
| Bicycle Zone                      |         |                      |          |       |                |          |         |           |          |           |       |          |       |
| Bicycle lanes                     | L       | M                    | M        | L     | Н              | M        | L       | Н         | Н        | L         | L     | L        | L     |
| Wide lanes / paved shoulders      | L       | Н                    | Н        | M     | M              | M        | M       | M         | M        | M         | L     | L        | L     |
| Sharrows                          | L       | L                    | L        | L     | M              | M        | L       | Н         | М        | L         | L     | L        | L     |
| Parking/Transit Zone              |         |                      |          |       |                |          |         |           |          |           |       |          |       |
| On-street parking                 | L       | L                    | M        | L     | M              | M        | L       | Н         | Н        | L         | Н     | L        | L     |
| Bus pullouts                      | L       | Н                    | М        | L     | M              | M        | L       | M         | L        | L         | L     | L        | L     |
| Green Zone                        |         |                      |          |       |                |          |         |           |          |           |       |          |       |
| Landscaping                       | Н       | Н                    | Н        | M     | Н              | Н        | L       | Н         | Н        | L         | Н     | M        | L     |
| Lighting                          | Н       | Н                    | Н        | L     | Н              | Н        | L       | Н         | Н        | L         | Н     | M        | L     |
| Street furniture                  | L       | M                    | M        | L     | M              | M        | L       | M         | M        | L         | L     | L        | L     |
| Bus shelters                      | L       | Н                    | Н        | L     | Н              | Н        | L       | Н         | Н        | L         | L     | L        | L     |
| Sidewalk Zone                     |         |                      |          |       |                |          |         |           |          |           |       |          |       |
| Wide sidewalks                    | L       | Н                    | M        | L     | Н              | M        | L       | M         | M        | L         | L     | L        | L     |
| Standard sidewalks                | L       | M                    | Н        | L     | Н              | н        | L       | Н         | Н        | L         | Н     | M        | L     |
| Multiuse Paths                    | L       | L                    | M        | M     | M              | M        | L       | L         | M        | L         | L     | L        | L     |
| Median Zone                       |         |                      |          |       |                |          |         |           |          |           |       |          |       |
| Narrow medians                    | L       | Н                    | M        | L     | Н              | М        | L       | н         | М        | L         | L     | L        | L     |
| Wide medians                      | Н       | L                    | М        | Н     | L              | М        | Н       | L         | М        | L         | L     | L        | L     |
| Other Elements                    |         |                      |          |       |                |          |         |           |          |           |       |          |       |
| Access management                 | Н       | Н                    | Н        | M     | Н              | Н        | M       | M         | M        | M         | L     | L        | L     |
|                                   | Н       | High Prio            | rity     |       | М              | Medium P | riority |           |          | Low Prior | itu   |          |       |

Source: Connections 2040 Regional Mobility Plan

### **Industrial Section Recommendations**

Proposed recommendations for the Industrial section of Tharpe Street:

- Install 5-foot wide concrete sidewalk with a 4-foot wide utility strip on the north side.
- Addition of shared lane markings (Sharrows).
- Conversion of Blountstown Hwy and Tharpe Street to a "T" intersection.
- Install 8-foot wide concrete sidewalk and curb and gutter along east side of Blountstown Hwy.

Figure 11 displays the recommended conversion of the Blountstown Highway and Tharpe Street intersection.

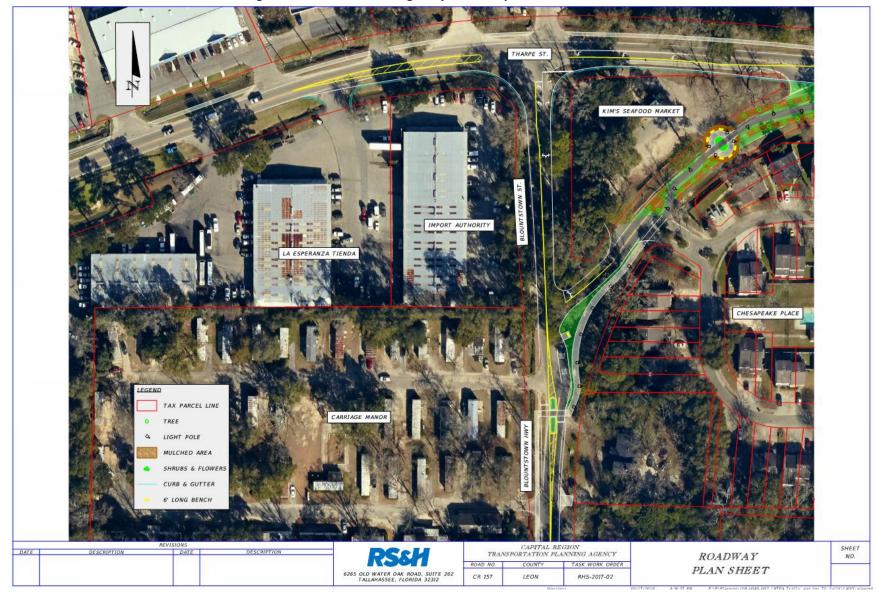


Figure 11. Blountstown Highway and Tharpe Street Intersection

### **Residential Section Recommendations**

Proposed for the Residential section of Tharpe Street:

- Addition of 8-foot wide concrete sidewalk, culvert system, and curb and gutter along north side of Tharpe Street.
- Addition of 8-foot wide pedestrian bridge over central drainage system.
- Widen 10 feet along the south side of Tharpe Street for addition of medians from Mission Road to Trimble Road.
- Addition of two Jug handle U turns allowing U-turn for vehicles needing left turn access
- Install turnout bays.
- Re-striping east side of Tharpe Street near Ocala Road to include bike lane.

Figures 12 through 16 display the recommendations identified for this section.

THARPE ST. CAMDEN PLACE APTS PLACES AT CAPITOL VILLAGE TAX PARCEL LINE LIGHT POLE CURB & GUTTER CAPITAL REGION TRANSPORTATION PLANNING AGENCY SHEET NO. ROADWAY TASK WORK ORDER PLAN SHEET CR 157 RHS-2017-02

Figure 12. Mission Road at Tharpe Street

CHASES RUN APTS SILVERLEAF EAST CATANA COURT RENTALS TAX PARCEL LINE CAPITAL REGION TRANSPORTATION PLANNING AGENCY SHEET NO. ROADWAY TASK WORK DADER PLAN SHEET 6289 OLD WATER GAK ROAD, SUITE 202 TALLAMASSEE, FLORIDA 32312 CR 157 LEON RHS-2017-02

Figure 13. Nani Drive to Burns Drive

THARPE ST. TAX PARCEL LINE CAPITAL REGION TRANSPORTATION PLANNING AGENCY SHEET NO. ROADWAYPLAN SHEET 6265 OLD WATER DAK ROAD, SUITE 202 TALLAMASSEE, FLORIDA 32312

Figure 14. Gloria Drive to Trimble Road

WOODCHUCK'S CAFE THARPE ST. END PEDESTRIAN TAX PARCEL LINE CURB & GUTTER PEDESTRIAN BRIDGE CAPITAL REGION TRANSPORTATION PLANNING AGENCY SHEET NO. ROADWAYTASK WORK DADGA PLAN SHEET 6289 OLD WATER GAK ROAD, SUITE 202 TALLAMASSEE, FLORIDA 22312 RHS-2017-02

Figure 15. Pedestrian Bridge

VILLA SAN MARCO APTS TAX PARCEL LINE CAPITAL REGION TRANSPORTATION PLANNING AGENCY SHEET NO. ROADWAY PLAN SHEET 6269 OLD WATER OAK ROAD, SUITE 202 TALLAMASSEE, FLORIDA 32312

Figure 16. Valley Green Drive to Meriadoc Drive

#### **Sheridan Section Recommendations**

• Addition of 8-foot wide concrete sidewalk, culvert system, and curb and gutter along north side of Tharpe Street.

Figures 17 and 18 display the Ivan Drive and Devra Drive areas.

THARPE ST. TAX PARCEL LINE CAPITAL REGION
TRANSPORTATION PLANNING AGENCY SHEET NO. ROADWAY FOAD NO. TASK WORK DAINS PLAN SHEET CR 157 RHS-2017-02

Figure 17. Ivan Drive

TAX PARCEL LINE CAPITAL REGION TRANSPORTATION PLANNING AGENCY SHEET NO. ROADWAYPLAN SHEET

Figure 18. Devra Drive

#### **Summary of Recommendations**

Restricting allowed turning movements on the residential segments between Mission and Trimble Road may benefit traffic operations with the use of restrictive medians. By limiting the number of allowed turning movements, this segment would experience reduced crashes caused by crossover traffic from minor streets along the residential segment. Medians would eliminate spot congestion in the area by removing traffic events that block through movements. As a result, this would improve operational efficiency. Addressing the issue of congestion would have the added benefit of eliminating the need for additional lanes. Furthermore, medians provide a refuge for pedestrian crossing Tharpe Street allowing them to be more visible to drivers, hence improving pedestrian safety.

In addition to safety and operations benefits, medians would improve the appearance of Tharpe Street. With a more unified street design a better sense of community is to be expected. Further details including supporting data, project limits, pros and cons for proposed recommendations can be found in Table 5 and Table 6.

# Table 5. Summary of Industrial Section Recommendations

# Tharpe Street (CR 185)

| Section    | Potential Improvement   | Supporting Data   | Pro  | Con  | Project Limits   |
|------------|---|---|--|--|--|
|            | Addition of 5' concrete sidewalk with a 4' utility strip on the north                         | Addresses lack of<br>Bicycle/Pedestrian<br>facilities and runoff<br>issue. Satisfies Street<br>Design Priority Matrix | <ul> <li>Connects sidewalk network.</li> <li>Improves pedestrian safety.</li> <li>Reduces friction associated with drivers navigating between opposing flow and pedestrians.</li> <li>Addresses pedestrian facility needs.</li> <li>Improved visibility for motorists.</li> <li>Encourages walking and biking</li> </ul>   | Requires about 100' of gravity wall, and the extension of box culvert cross drains.  | East of Capital Circle NW to Mission Road                    |
|            | Addition of shared lane markings (Sharrows)   | Address lack of bicycle<br>facilities and satisfies<br>Street Design Priority<br>Matrix                               | <ul> <li>Facilitates advanced cyclists who prefer shared roadways in lieu of striped bike lanes and paths (represent about 20% of adult cyclists but account for nearly 80% of bicycle miles).</li> <li>Keep the road as narrow as possible</li> </ul>   | May cause spot congestion from cyclists.   | East of Capital Circle NW to Mission Road                    |
| Industrial | Conversion of Blountstown Hwy and<br>Tharpe Street to T intersection                          | Higher than average segmental crash rate (see Table 3)  | Reduce conflict points that exist with current roadway geometry thus improving segmental crash rate in this area.  | <ul> <li>Limits access to Kim Seafood Market and adjacent mobile home development.</li> <li>Requires removal of 600' of existing Blountstown Hwy roadway.</li> <li>Possible right of way impacts</li> <li>StarMetro bus routes will have to be redirected to Blountstown St.</li> <li>Encroaches on submitted (TAP) projectBlountstown Street Sidewalk Improvement.</li> </ul> | Blountstown Hwy at<br>Tharpe St intersection                 |
|            | Addition of 8' wide concrete sidewalk and curb and gutter along east side of Blountstown Hwy. | -Addresses lack of<br>Bicycle/Pedestrian<br>facilities and runoff<br>issue.<br>Street Design Priority<br>Matrix       | <ul> <li>Connects sidewalk network.</li> <li>Improves pedestrian safety.</li> <li>Reduces friction associated with drivers navigating between opposing flow and pedestrians.</li> <li>Addresses unsightly travel walkways along corridor created by pedestrian traffic.</li> <li>Improved visibility for motorists.</li> <li>Encourages walking and biking.</li> <li>Control drainage and rainwater</li> </ul> | Drainage impact. Converting the open flow ditch to a closed flowing culvert system.  | Intersection of<br>Blountstown Hwy and<br>Blountstown Street |



## Table 6. Summary of Residential Section Recommendations

#### Tharpe Street (CR 185)

|             | Tharpe Street (CR 185)  |  |  |  |  |
|-------------|---|--|--|--|--|
| Section     | Potential Improvement   | Supporting Data  | Pro  | Con  | Project Limits                                   |
|             | Addition of 8' concrete sidewalk, culvert system, and curb & gutter along north side of Tharpe Street | Addresses lack of<br>Bicycle/Pedestrian<br>facilities and runoff<br>issue. | <ul> <li>Connects sidewalk network.</li> <li>Improves pedestrian safety.</li> <li>Benefits pedestrian safety.</li> <li>Addresses unsightly travel walkways along corridor created by pedestrian traffic.</li> <li>Improved visibility for motorists.</li> <li>Encourages walking and biking.</li> <li>Control drainage and rainwater.</li> </ul>   | Drainage impact. Converting the open flow ditch to a closed flowing culvert system.  | Mission Road to Falconcrest<br>Street            |
|             | Addition of 8' wide pedestrian bridge over central drainage system                                    | Addresses lack of<br>Bicycle/Pedestrian<br>facilities                      | <ul> <li>Avoid extension of box culvert over central drainage ditch.</li> <li>Pre-fabricated bridges are an affordable building option.</li> <li>Can be quickly constructed.</li> </ul>  | <ul> <li>Drainage impact. Converting the open flow ditch to a closed flowing culvert system.</li> <li>Sign and utility pole might need to be relocated with the addition of pedestrian bridge.</li> <li>Weaken as they get older.</li> <li>Maintenance cost.</li> </ul>              | Box culvert over central drainage ditch          |
| Residential | Widen 10' along the south side of<br>Tharpe Street for addition of<br>medians                         | Addresses lack of<br>Bicycle/Pedestrian<br>facilities and runoff<br>issue. | <ul> <li>Benefits safety, and operational efficiency.</li> <li>Landscaped medians prevent crossover and head on accidents,</li> <li>Provide refuge for pedestrians.</li> <li>Addition of turn lanes increases the capacity of the roadway.</li> </ul>  | <ul> <li>Restricts single home owners from left turn access to their property.</li> <li>Drainage impacts. Converting the open flow ditch to a closed flowing culvert system.</li> <li>12 Driveways will be impacted for residents living on this section of Tharpe Street</li> </ul> | Mission Road to Trimble<br>Road                  |
|             | Addition of two Jug handle U turns  | Solution to<br>accessibility issue with<br>addition of proposed<br>medians | Resolves accessibility issue for single homeowners unable to make left turns to their properties.  | Right of way acquisition is required.     Proposed recommendation encroaches three land parcels.   | At Mission Road and West of<br>Gloria Drive      |
|             | Install turnout bays  | Addresses spot congestion caused by truck traffic.                         | <ul> <li>Provide queue space for left turning vehicles allowing greater capacity.</li> <li>Removes stopped vehicle from travel lane, reduces delay and increases vehicle capacity.</li> <li>Reduced risk of rear-end crashes generally</li> <li>Potential to consolidate and more clearly define StarMetro stops.</li> <li>Locates riders awaiting pickup further from fast moving traffic.</li> <li>Serves as safe pull off location for incapacitated vehicles.</li> </ul> | <ul> <li>Buses utilizing turnout may have trouble re-entering travel lane, potentially effecting StarMetro schedules.</li> <li>Increased risk of sideswipe crashes.</li> <li>Creates additional paving and may require right-of-way acquisition.</li> </ul>                          | West of Mission Road to<br>West of Meriadoc Road |
|             | Re-striping east side of Tharpe<br>near Ocala Road to include bike<br>lane                            | Evidence of desire lanes.  | <ul> <li>Facilitates advanced cyclists who prefer shared roadways in lieu of striped bike lanes and paths (represent about 20% of adult cyclists but account for nearly 80% of bicycle miles).</li> <li>Keep the road as narrow as possible</li> </ul>   | May cause increase congestion.   | Ocala Road to 800' West of<br>Ocala Road         |



|                  | Summary of Recommendations  |  |  |  |                           |  |
|------------------|---|--|--|--|---------------------------|--|
|                  | Tharpe Street (CR 185)  |  |  |  |                           |  |
| Section          | Potential Improvement   | Supporting Data  | Pro  | Con  | Project Limits            |  |
| Sheridan<br>Road | Addition of 8' concrete sidewalk, culvert system, and curb & gutter along north side of Tharpe Street | Pedestrians and bicyclists travel through the grass alongside roadway. | <ul> <li>Connects sidewalk network.</li> <li>Improves pedestrian safety.</li> <li>Reduces friction associated with drivers navigating between opposing flow and pedestrians.</li> <li>Addresses unsightly travel walkways along corridor created by pedestrian traffic.</li> <li>Improved visibility for motorists.</li> <li>Encourages walking and biking.</li> </ul> | <ul> <li>Drainage impact. Converting the open flow ditch to a closed flowing culvert system.</li> <li>Relocation of 9 COT Utility poles</li> </ul> | Ivan Drive to Devra Drive |  |



# CRTPA TRAFFIC AND OPERATIONS ANALYSIS PENSACOLA STREET

January 2019

**PREPARED FOR:** 



**PREPARED BY:** 



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## **Pensacola Street**

#### **BACKGROUND**

The Capital Region Transportation Planning Agency (CRTPA) identified the need for additional capacity for Pensacola Street in the 2040 Regional Mobility Plan (RMP). The RMP proposes the widening of this corridor. The purpose of this study is to investigate existing and future conditions along Pensacola Street (SR 366) and identify potential projects to improve mobility and efficiency without major capacity expansions. This study will identify potential improvements from Appleyard Drive to Capital Circle (see Figure 1). Existing conditions were established using the following data sources listed in Table 1 below:

**Table 1. List of Data Collection Sources** 

| Data Source                                | Data Set  | Dates of sources |
|--|---|------------------|
| Field Visit                                | Existing Issues                                       | 07-25-2018       |
| City of Tallahassee                        | Operational Analysis                                  | 2017             |
| Congestion Management Plan<br>Update (CMP) | Crash data  | 2012 – 2016      |
| FDOT Transportation Data                   | Historical AADT (Annual Average Daily Traffic) report | 2012 - 2016      |



#### **ISSUES**

#### Issue # 1 - Spot Congestion

Field observations report uniform dismissal from classes at Tallahassee Community College (TCC) as the primary cause of congestion along the corridor. The result is a short-term spike in traffic as students and faculty begin to exit the TCC parking lot. As congestion worsens internally, motorists tend to follow a "path of least resistance" strategy in order to exit the campus.

Figure 2 illustrates typical congestion conditions from high (red) to low (yellow). Field observations report drivers located in the southeast – Learning Commons - parking lot egress exit to the south onto Pensacola Street. Left turn movements are restricted at this location due to its proximity to the intersection at West Pensacola Street and Appleyard Drive. Despite left turn restrictions, motorists often make illegal left turns, crossing double yellow lane lines in U-turn maneuvers, utilizing private driveways to turn around. These traffic patterns exacerbate spot congestion during AM/PM peak hours.



Figure 2. Typical Congestion from TCC Campus

#### Issue # 2 - Bottleneck

When a road has limited physical capacity (i.e., bottlenecks), it contributes to recurring congestion according to the Federal Highway Administration (FHWA). Recent road widening has developed the section of Pensacola Street from Capital Circle SW to Blountstown Highway as a six-lane section. As Pensacola Street continues east, it narrows to a two-lane section at the bridge over the railroad, shown in Figure 3, consequently creating a bottleneck. Pensacola Street continues as a two-lane roadway transitioning into a four-lane roadway at TCC's access point.

Increased traffic volumes, an effect from the recent widening of Pensacola, will not only further exacerbate the bottleneck situation but also the spot congestion identified near the TCC campus.



Figure 3. Bottleneck along Pensacola Street

### Issue #3 - Lack of Bicycle/Pedestrian Facilities

Currently, the two-lane section between Blountstown Highway and Progress Drive lacks bicycle and pedestrian facilities (see Figure 4). For this reason, bicyclists and pedestrians are given no choice but to travel along grassed areas to avoid interaction with motorists. However, grassed shoulders and/or ditches are not present throughout the corridor, particularly at the bridge. The lack of facilities and shoulder refuge in this area poses a high risk area for pedestrians as they are given no choice but to travel on the roadway with vehicular traffic.

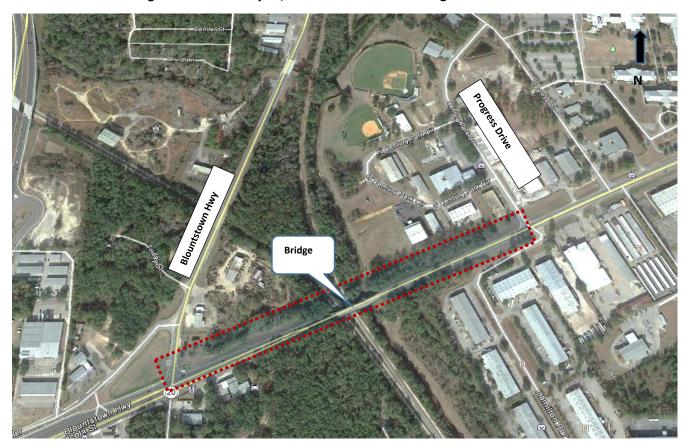


Figure 4. Lack of Bicycle/Pedestrian Facilities Along Pensacola Street

#### **ANALYSIS**

#### **Analysis Procedures**

Analysis of traffic volumes is useful in understanding the general nature of traffic in an area, but by itself indicates neither the ability of the street network to carry additional traffic nor the quality of service afforded by the street facilities. To fully understand the operational capabilities of the roadway, the concept of level of service (LOS) has been applied to describe traffic performance. LOS can be measured at intersections, as well as on roadway segments.

LOS categories are similar to report card ratings for traffic performance. LOS A, B and C indicate conditions where traffic moves without significant delays over periods of peak travel demand. LOS D and E are progressively worse peak hour operating conditions and LOS F conditions represent gridlock where demand exceeds the capacity of an intersection or roadway segment. FDOT sets level of service D as the minimum acceptable level of service for peak hour operation and plans for level of service C or better for all other times of the day.

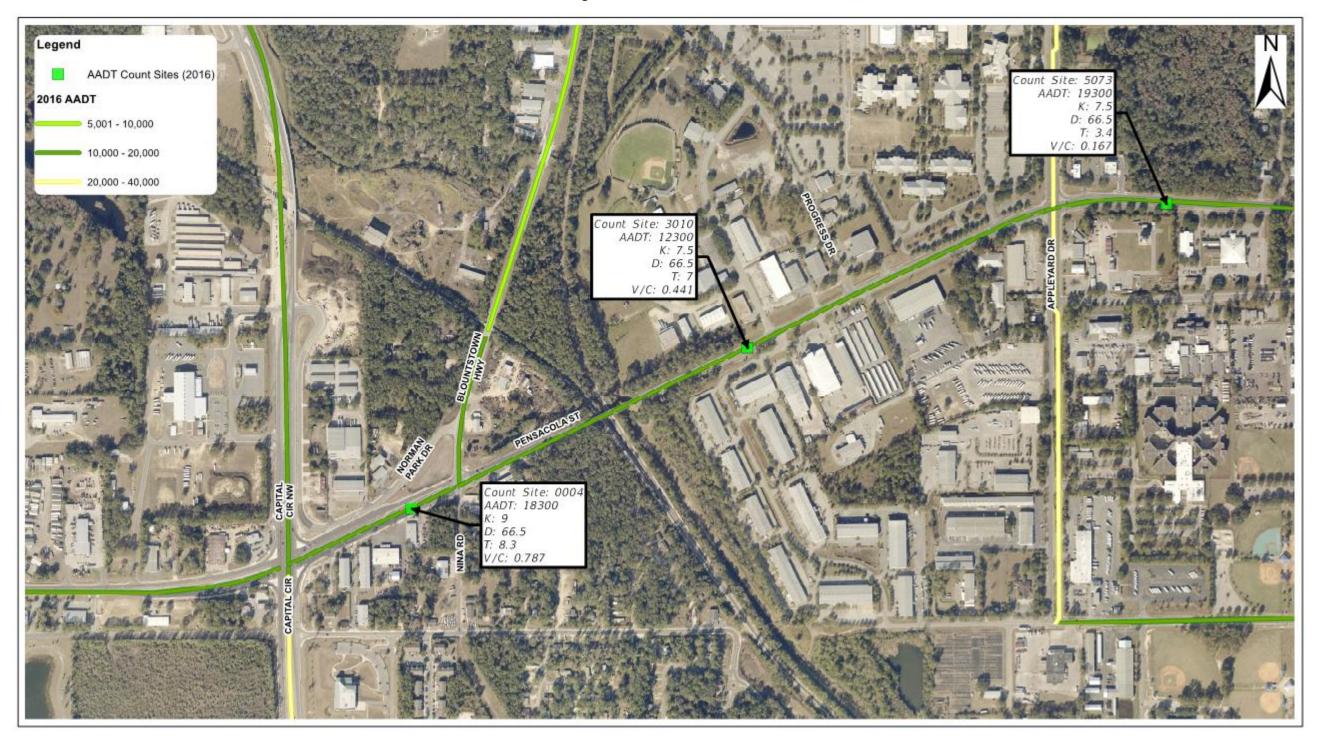
Historical traffic data and county traffic sites provided the source of existing traffic for the Pensacola Street study area. Figure 5 summarizes Annual Average Daily Traffic (AADT) from the Florida Department of Transportation traffic information. The highest traffic volumes within the study segment in 2016 are found between Blountstown Highway and Capital Circle SW, with an Average Annual Daily Traffic (AADT) of 18,300. The traffic information is displayed in Figure 5.

Operational analysis for Pensacola Street was performed following the Highway Capacity Manual (HCM) 2000 methodologies using Synchro software. This was made available by the City of Tallahassee and reflects AM/PM traffic operations during October 2017. Existing intersection analysis is summarized in Table 2. Under current conditions, all major intersections appear to be operating at acceptable LOS values for peak hour operations.

**Table 2. Existing Intersection Operation Analysis.** 

| Intersection           | AM | PM |
|------------------------|----|----|
| CCSW @ Blountstown Hwy | D  | D  |
| Progress Dr.           | Α  | С  |
| Nina Rd.               | В  | С  |
| Appleyard Dr.          | D  | D  |

Figure 5. 2016 Traffic Volumes



#### **Crash Rates**

Crash rates are calculated values used to compare the crash experience of similar locations and normalize the crash data over the period of time to account for any large data anomalies. The Florida Department of Transportation develops average crash rates for intersections and for roadway segments and provide insight into identifying any safety deficiencies.

The crash data for this assessment was obtained from the recently updated Congestion Management Plan. The data period is five years from 2012 to 2016. The data was analyzed to determine the types and locations of crashes that occurred along the corridor and at intersections within the study segment.

TCC's current access point (see Figure 6) reported the highest segmental crash rate of 1.96 per million vehicle miles of travel (MVMT). The access point is also adjacent to the intersection of Appleyard Drive and Pensacola Street, an area that experiences the highest intersection crash rate within the study area at 1.74 MVMT. The state average for similar facilities consisting of undivided, two to three lanes with two-way traffic is 0.2999. Table 3 summarizes comparison results for Pensacola Street and Florida's state average.

Table 3. Pensacola Street Crash Rate vs. State Average

|                   | Pensacola Street | Florida's State Average |
|-------------------|------------------|-------------------------|
| Crash Rate (MVMT) | 1.96             | 0.299*                  |

Source\*: Florida's five year average crash rate for 2-3 lane, 2 way, undivided roadway section.

The crash history along the Pensacola corridor was also assessed to identify deficiencies with respect to existing lighting infrastructure. The analysis of crash data revealed that 17 out of 160 crashes occurred during low visibility hours (dusk, dawn, and nighttime). These incidents comprised 9.4% of total crashes. Additionally, referencing the associated long-form crash reports for these events, none cited low visibility as a primary cause, therefore, no improvements to existing lighting infrastructure are recommended at this time.

Figure 6. Highest Reported Crash Rate Along Pensacola Street



#### **Congestion Analysis Scan Results**

The Federal Highway Administration maintains a database of travel information gathered from cellular and GPS units. This database, the National Performance Monitoring Research Data Set (NPMRDS) provides the information for use in network and corridor analyses. The data serves as one analysis tool and can provide insights into the operations of facilities, however, to comprehensively understand the operations of a facility, this data must be combined with other data sources, however if can provide some indication of existing issues.

According to the NPMRDS data, the westbound congestion analysis reports average travel speed between Appleyard Drive and Blountstown Hwy as 20 miles-per-hour (mph) between the AM/PM peak hours (see Figure 7). This is significantly lower than the current posted speed limit of 45 mph and similar results are reported for eastbound traffic. Figure 8 is the NPMRDS scan of the segment and graphically displays the generalized travel speed along Pensacola Street from east of Appleyard Drive to Capital Circle SW.

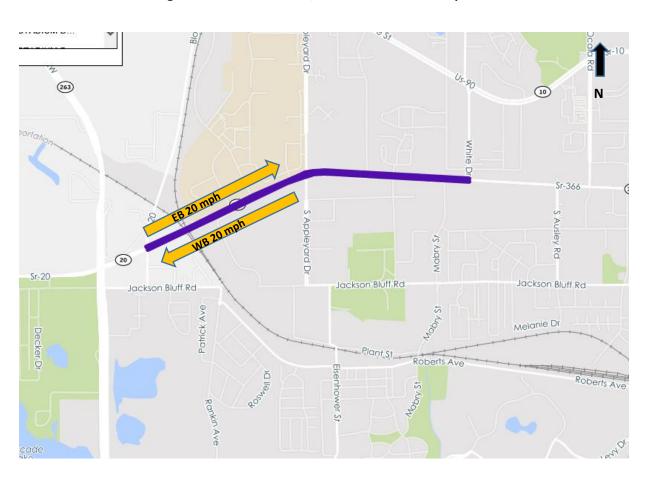
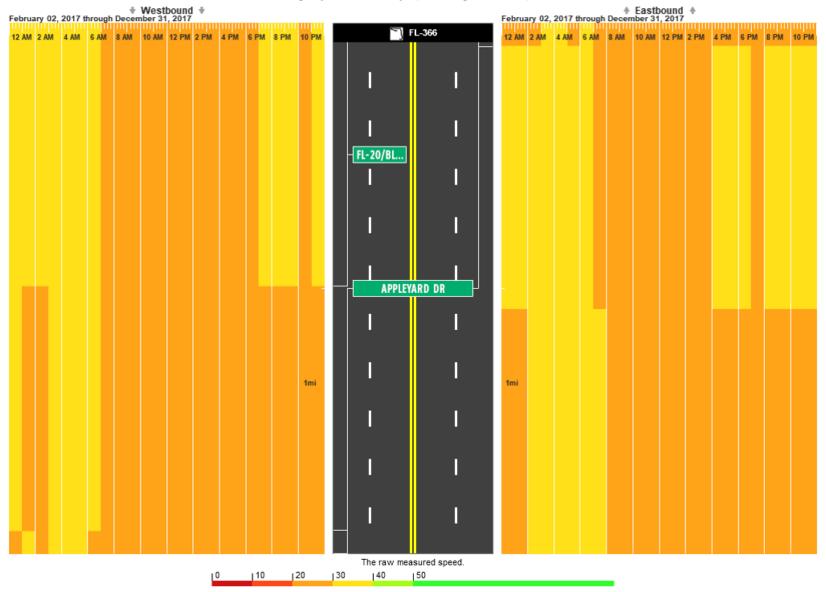


Figure 7. Generalized AM/PM Peak Hour Travel Speeds

#### Figure 8. Pensacola Street NPMRDS Corridor Scan

Averaged by 1 hour for February 02, 2017 through December 31, 2017



#### **RECOMMENDATIONS**

#### **Bottleneck and Pedestrian/Bicycle Safety**

In order to address the bottleneck existing at the bridge over the railroad, the bridge and the remaining two-lane section of Pensacola Street should be widened. This widening to four lanes should also incorporate bicycle and pedestrian facilities to address safety concerns for pedestrians and bicyclists on the current bridge. Coordination with CSX railroad will need to be undertaken to facilitate the widening.

# **Spot Congestion – "Quick Fix"**

As a quick fix and low cost improvement to address one of the identified "work around" traffic movements resulting from the spot congestion at TCC, the addition of signage may deter a portion of motorists making the movement. With the consent of all parties, a "Private Drive, No U-Turn" sign is proposed to be placed at the entrances of Disc Village, Grainger, and Pepsico. Figure 9 displays the signage and locations.

Grainger Industrial Supply PRIVATE DRIVE PRIVATE W Pensecole St DRIVE (2) Appleyard Dr DISC Village PRIVATE DRIVE Aloi and Fletcher Bail Bonds Refreshment Services Pepsi

Figure 9. Private Drive Signage and Locations

#### **Spot Congestion - Comprehensive Alternative**

A more comprehensive solution to the issues described regarding spot congestion involves reconfiguring the points of access to TCC from Pensacola. The first element of the proposed approach involves creating a dedicated two-lane entrance for TCC. The entrance will be restriped to create both a left turn and right through lane.

A second element involves the addition of a two-lane dedicated exit -- southwest of the Social Science Wing of TCC (see Figure 10). Locating this access further upstream from the Pensacola/Appleyard intersection allows motorists to safely make left turns eastward without affecting the queue and increasing the site distance of oncoming traffic. Minor striping changes, depicted below, will need to take place in order to guide motorists in a seamless fashion. Additionally, "Do Not Enter" signs will be warranted at the heads of the one-way pair to alert drivers who may be unaware of the scheme.

As described earlier, the highest incidence of crashes occurs at the existing two-way access point near the intersection at Appleyard Dr. Managing access and reducing illegal movements will contribute to improved safety conditions along the corridor.

Figure 10. Spot Congestion – Comprehensive Alternative



# **Summary of Recommendations**

In order to address the issues identified in the analysis, the following recommendations have been identified.

- Widen the existing two-lane section of Pensacola and the bridge spanning the CSX railroad
- Include pedestrian and bicycle facilities in the widening project
- Addition of signage at three locations along Pensacola Street to address illegal and/or dangerous traffic movements by drivers attempting to avoid spot congestion issues
- Reconfigure the ingress/egress access from Pensacola Street to the TCC parking lots