



CORRIDOR TRAFFIC AND OPERATIONS ANALYSIS

CRTPA BOARD

NOVEMBER 26, 2018







- Evaluate Potential Projects to Improve Mobility
 - Operational Improvements without Major Capacity Enhancements

- Four Corridors Identified for Analysis
 - Tharpe Street: Ocala Road to Capital Circle
 - Pensacola Street: Appleyard Drive to Capital Circle
 - Bannerman Road: Thomasville Road to Tekesta Drive
 - South Adams Street: Orange Avenue to Bronough and Duval Streets





- Project Status
 - Tharpe Street and Pensacola Street: Underway
 - Bannerman Road: Underway
 - South Adams Street: Coordination with FAMU Master Plan Update





- Tharpe Street
 - 2040 Regional Mobility Plan
 - Widening from 2 to 4 lanes
 - Ocala Road to Capital Circle
 - Cost: ~\$51.4 million
 - Blueprint Project



Source: 2040 Regional Mobility Plan



- Existing Conditions
 - Corridor Sections based on Similar Characteristics

| Section | Number of Lanes | Lane Width (in Feet) | Right of Way (in Feet) |
|--|--------------------|----------------------------|------------------------------|
| Industrial: E. of Capital Cir. NW to Mission Rd | 2 | 12 | 100 |
| Residential: Mission Road to Ivan Drive | 2 | 12 | 66 |
| Sheridan: Ivan Drive to Devra Drive | 2 | 12 | 76 |
| Residential: Devra Drive to West of Ocala Road | 2 | 12 | 123 |





Corridor Sections based on Similar Characteristics







- Issues
 - Transit Accessibility
 - Stops are not ADA compliant
 - Compliance only required where sidewalks and shelters exist
 - StarMetro focused on all stops meeting ADA standards







- Issues
 - Spot Congestion
 - Bus stops
 - Trash pick-up
 - Turning movements
 - Constraints for traffic to avoid back-ups
 - Prevalent in Residential Sections Primarily in Peak Hours





- Issues
 - Lack of Bicycle/Pedestrian Facilities
 - 90% of parcels have no access to sidewalks/bicycle facilities
 - Desire paths along the roadway from pedestrian traffic









- Issues
 - Lack of Bicycle/Pedestrian Facilities
 - Grass shoulder/ditch is not always present
 - Culvert with guardrail 500 feet east of Trimble Road





- Issues
 - Flooding and Runoff
 - Roadside erosion throughout the corridor
 - Lack of stormwater treatment other than flow time in grass ditches





Analysis

- Traffic Level of Service
 - Tharpe at Mission Road: LOS E in PM peak
 - All other intersections: LOS B, C or D in AM and PM peak

Safety

- Crash data from CMP Update (2012-2016)
- 709 total crashes with 333 injury crashes and 1 fatal crash
- Rear end collisions the most common (50% of all crashes)
- Crash Rate (crashes per million vehicle miles of travel)

| | Tharpe Street | State Average |
|------------|---------------|---------------|
| Crash Rate | 6.14 | 0.299* |

*State Average for 2-3 lane, 2 way, undivided facilities





Recommendations: Industrial Section

| Location | Projects/Strategies | | |
|--|---|--|--|
| East of Capital Circle NW to Mission Road | Addition of 5'sidewalk with 4' utility strip on the north side | Addresses lack of pedestrian connectivity Improves pedestrian safety Reduction in pedestrian/driver conflict | |
| | Addition of shared lane markings (sharrows) | Provides bicycle facilities esp. for advanced cyclists | |
| Blountstown Highway at Tharpe Street | Conversion to a T intersection | Reduces conflict points to improve safety | |
| Blountstown Highway at Blountstown Street | 8' wide sidewalk with curb and gutter along Blountstown Highway | Provides pedestrian connectivity Reduces conflict points Improves drainage | |





Recommendations: Residential Sections

| Location | Projects/Strategies | | |
|---|---|---|--|
| Mission Road to Falconcrest | Addition of 8' sidewalk with curb and gutter and culvert system | Addresses lack of pedestrian and bicycle facilities Improves safety Improves drainage | |
| Box Culvert at Central Drainage Ditch (500' from Trimble Rd) | Addition of pedestrian bridge | Addresses lack of pedestrian and bicycle facilitiesImproves safety | |
| Mission Road to Trimble Road | Widen 10' along south side for median installation | Improves operationsImproves multimodal safety | |
| Mission Road and West of Gloria Drive | Addition of two U-turn areas | Provides accessibility with installation of medians | |
| West of Mission Road to West of Meridac Road | Addition of turnout bays | Improves safety with queue space | |
| Ocala Road to 800' West | Restriping to include bike lane | Improves multimodal safety | |



Recommendations: Sheridan Road Section

| Location | Projects/Strategies | | |
|---------------------------|---|---|--|
| Ivan Drive to Devra Drive | Addition of 8' sidewalk with curb and gutter and culvert system | Addresses lack of pedestrian and bicycle facilities Improves safety Improves drainage | |





- Summary of Recommendations
 - Addition of sidewalks and curb and gutter
 - Addition of sharrows and bike lane
 - Addition of pedestrian bridge over Central Drainage Ditch
 - Reconfiguration of Blountstown and Tharpe intersection
 - Addition of median between Mission Road and Trimble Road with U-turn access points





- Pensacola Street
 - 2040 Regional Mobility Plan
 - Widening from 2 to 4 lanes
 - Capital Circle to Appleyard Drive
 - Cost: ~ \$29.7 million
 - Blueprint Project



Source: 2040 Regional Mobility Plan



- Issues
 - Spot Congestion
 - Primarily associated with Tallahassee Community College
 - Traffic spikes entering and existing parking facilities
 - Motorists ignoring traffic restrictions contribute to congestion and safety





- Issues
 - Traffic Bottlenecks
 - Lane transitions from Capital
 Circle eastward
 - Lanes transition from 6-lanes to 2-lanes west of the bridge
 - Continues as 2-lanes and transitions to 4-lanes near TCC





- Issues
 - Lack of Bicycle/Pedestrian Facilities
 - Grass shoulder/ditch is not always present
 - No facilities on bridge





Analysis

- Traffic Level of Service
 - Capital Circle at Blountstown Highway: LOS D in AM and PM peak
 - Pensacola Street at Appleyard Drive: LOS D in AM and PM peak
 - All other intersections: LOS A, B or C in AM and PM peak
 - Highest volumes occur between Blountstown and Capital Circle
 - AADT: 18,300

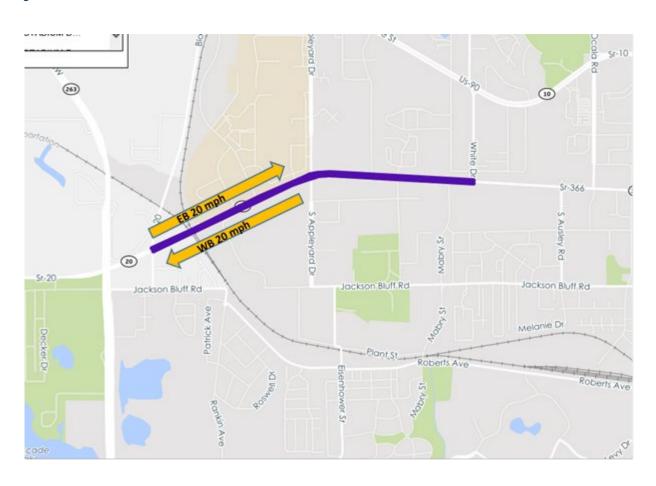
Safety

- Crash data from CMP Update (2012-2016)
- 160 crashes
- Highest crash rate occurs at Pensacola Street and Appleyard due to TCC access points (1.74 crashes per million vehicle miles of travel)





- Analysis
 - Congestion
 - Average peak hour travel speed between Appleyard Drive and Blountstown Highway
 - 20 miles per hour eastbound and westbound
 - Posted speed limit of 45 miles per hour







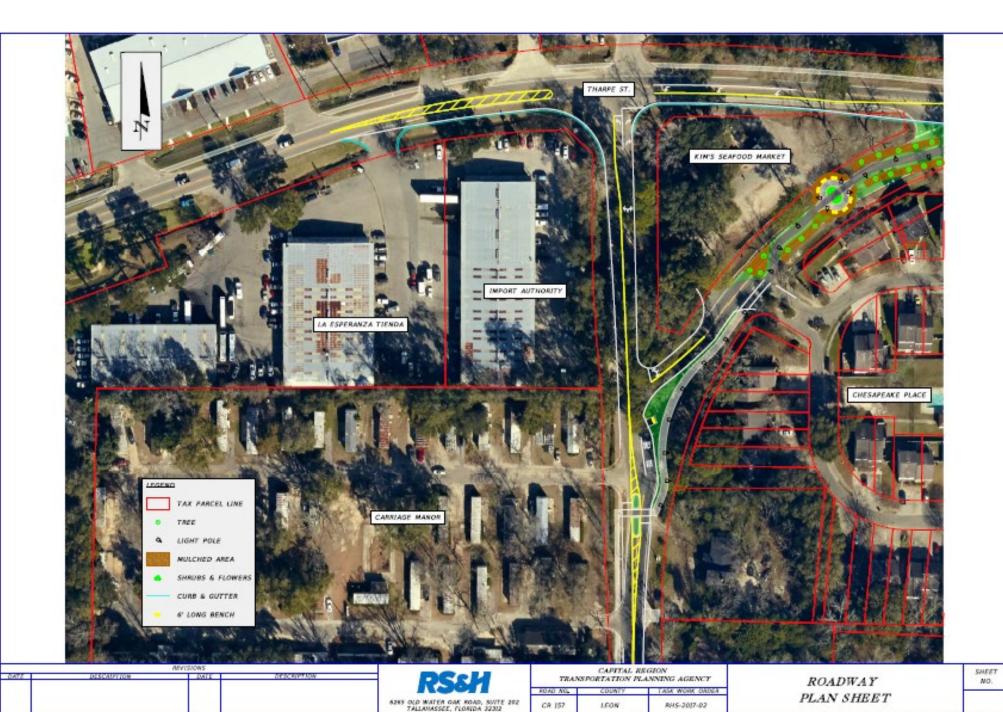
- Recommendation: Bottleneck
 - Widen bridge and 2-lane section of Pensacola Street to 4 lanes
- Recommendation: Spot Congestion
 - Improved signage
 - Reconfiguration of TCC access points
 - Dedicated 2-lane entrance and exit



QUESTIONS?









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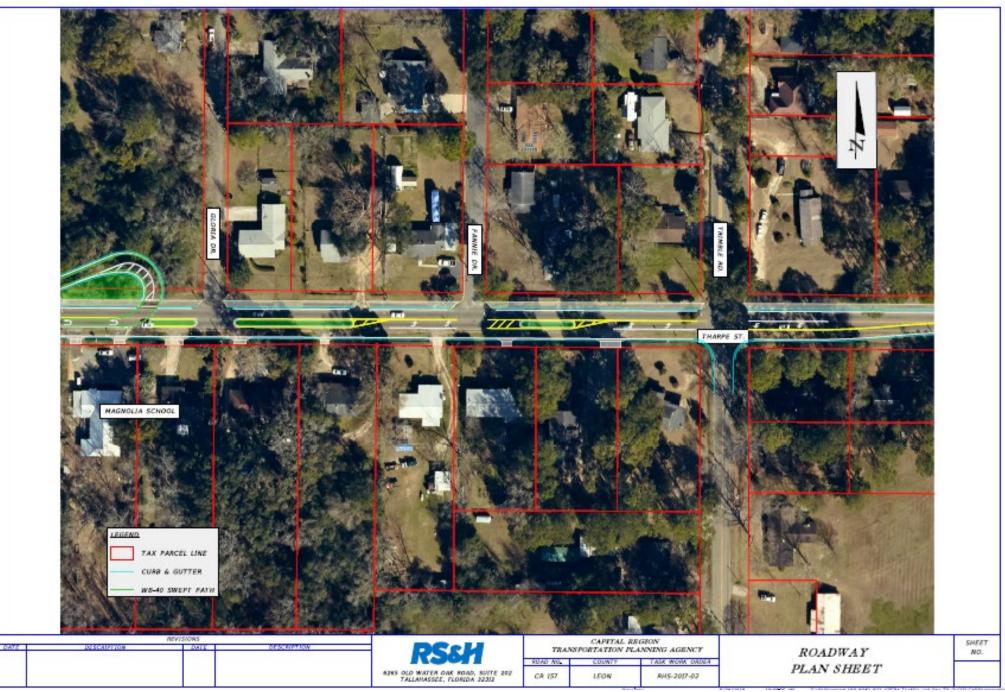














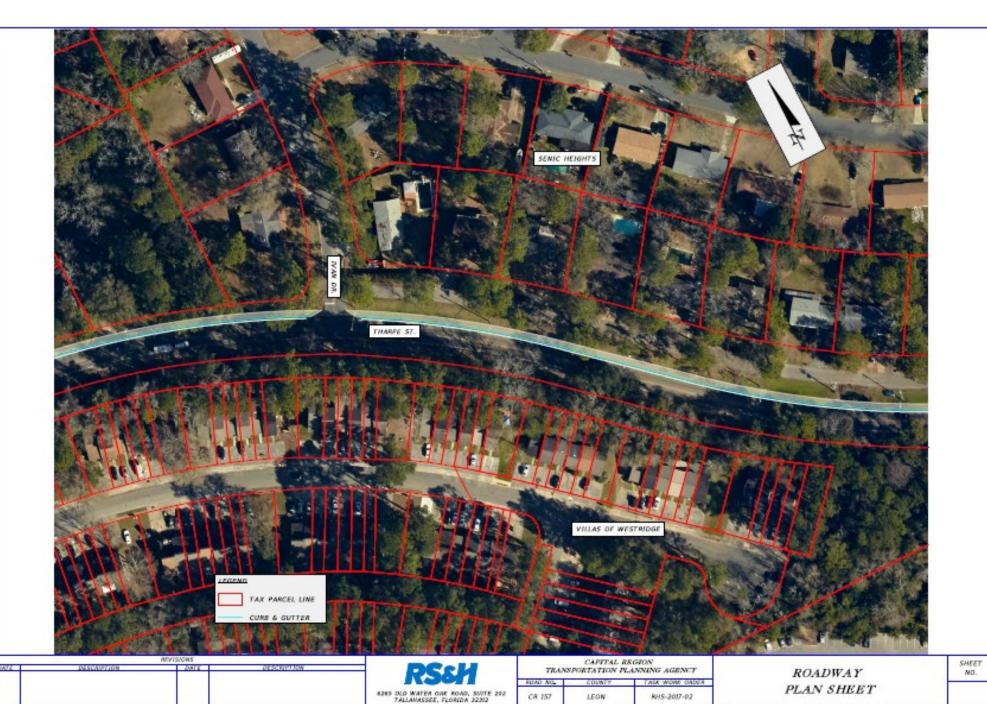




















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ROADWAY PLAN SHEET SHEET NO.