

Needs and Recommendations Appendix

CRTPA
REGIONAL
FREIGHT STUDY



RS&H

Appendix 1: Needs and Recommendations, Planning Level Cost Estimates, Table, and Map

Within this appendix, the needs and recommendations identified within this analysis are included in a tabular format. Table 1 identifies the planning level costs estimates that were utilized when existing project estimates were not available. Table 2 contains the Infrastructure recommendations, Table 3 contains the policy recommendations, and Table 4 contains the technology recommendations.

Those recommendations with specific geographies or areas of interest have been mapped in Figure 1.

Planning Level Cost Estimates

Where applicable, known or programmed costs for existing projects were included within the analysis. Costs were increased yearly by 3% to account for inflation from the initial year of cost estimate. In addition to known costs, the following Table 1 lists a series of planning level cost estimates by unit value.

Table 1: Planning Level Cost Estimates

Planning Analysis Estimates	Unit	Cost Per Unit
Corridor Analysis	Mile	\$20,000 to \$40,000
Intersection Improvement Study	Intersection	\$20,000 to \$35,000
Intersection Improvement Study and New Signal	Intersection	\$240,000
Design/Engineering	Varies	Assume Additional 10-15% of Infrastructure Cost
Infrastructure Cost Estimates*	Unit	Cost Per Unit
Mill and Resurface 4 Lane Urban Roadway	Mile	\$1,500,000
Mill and Resurface 6 Lane Urban Arterial	Mile	\$2,500,000
Widen 2 to 4 Lane Urban Arterial	Mile	\$10,000,000
Widen 4 to 6 Lane Urban Arterial	Mile	\$9,000,000
Widen 4 to 6 Lane Urban Interstate	Mile	\$15,000,000

*Source: [FDOT Cost Per Mile Reports](#) with rounding applied

Note: Costs do not include utilities, contingency, or right of way acquisition

Table 2: Infrastructure Recommendations

Recommendation ID	Census Tract Rank	Mode	System Feature	Termini/Crossroads	Location	Needs Category	Identified Needs	Recommendation(s)	Existing Project	Term	Estimated/Planned Cost
I4	1	Highway	S Bronough St	SR 366/SR 371/W Madison St/W Gaines St	Leon	System Capacity and Efficiency	Top 10 PTI Roadway	Consider the development of a planning study along the corridor to assess potential improvement.	-	Mid	\$20,000 to \$35,000
I39	1	Highway	Truck Parking Infrastructure	Regional Rest Areas	Leon-Jefferson	Land Use and Policy	Freight parking/staging	Support FDOT efforts for redevelopment and consideration of truck parking enhancements.	FDOT Projects: 452230-1, 452335-1	Mid	\$15,554,285
I30	1	Highway	US 90/Washington St	US 19/Jefferson St	Jefferson	System Capacity and Efficiency	System Redundancy	Coordination with FDOT oversize load permitting to remove this route from their accepted maps OR Consider a geometry update of the intersection to allow oversize loads.	-	Short	\$20,000 to \$35,000
I11	2	Highway	SR 61/Thomasville Rd	US 319/Capital Circle	Leon	System Capacity and Efficiency	Bottleneck (top 10 for 2022)	Consider the development of a planning study along the corridor to assess potential improvement.	-	Mid	\$20,000 to \$35,000
I12	2	Highway	US 319 N/Thomasville Rd	Killarney Way/Maclay Rd	Leon	System Capacity and Efficiency	Bottleneck (top 10 for 2022)	Consider the development of a planning study along the corridor to assess potential improvement.	-	Mid	\$20,000 to \$35,000
I45	4	Highway	I-10	Gadsden/Leon County Line to West of Capital Circle NW	Leon-Gadsden	System Capacity and Efficiency	Regional Mobility Plan Projects	Widen from 4 to 6 Lanes.	Identified within the RMP Number: 9	Long	\$89,628,374
I46	4	Highway	I-10	(Midway) US 90 Interchange to Gadsden/Leon County Line	Leon-Gadsden	System Capacity and Efficiency	Regional Mobility Plan Projects	Widen from 4 to 6 Lanes.	Identified within the RMP Number: 8	Long	\$59,864,305
I5	5	Highway	SR 371/Gaines St	Lake Bradford Rd to Apalachee Pkwy	Leon	System Capacity and Efficiency	Failing LOS	Consider the development of a planning study along the corridor to assess potential improvement.	-	Mid	\$40,000-\$80,000
I6	5	Highway	SR 61/ S Monroe St	SR 371/CR 1555/Gaines St	Leon	System Capacity and Efficiency	Bottleneck (top 10 for 2022)	Consider the development of a planning study along the corridor to assess potential improvement.	-	Mid	\$20,000 to \$35,000
I7	5	Highway	US 27/Apalachee Pkwy	SR 265 Magnolia Dr	Leon	System Capacity and Efficiency	Bottleneck (top 10 for 2022)	Consider the development of a planning study along the corridor to assess potential improvement.	-	Mid	\$20,000 to \$35,000
I8	5	Highway	US 27/S Monroe St	Apalachee Pkwy to E Jefferson St	Leon	System Capacity and Efficiency	Failing LOS	Consider the development of a planning study along the corridor to assess potential improvement.	-	Mid	\$20,000
I9	5	Highway	US 27/SR 61/Monroe St	US 90/SR 10/E Tennessee St	Leon	System Capacity and Efficiency	Bottleneck (top 10 for 2022)	Consider the development of a planning study along the corridor to assess potential improvement.	-	Mid	\$20,000 to \$35,000
I10	5	Highway	US 90/E Tennessee Street	SR61/N Monroe St to N Meridian St	Leon	System Capacity and Efficiency	Failing LOS	Consider the development of a planning study along the corridor to assess potential improvement.	-	Mid	\$20,000
I3	5	Highway	SR 265/Magnolia Dr	SR 61/S Monroe St	Leon	System Capacity and Efficiency	Top 10 PTI Roadway	Consider the development of a planning study along the corridor to assess potential improvement.	-	Long	\$20,000 to \$35,000
I24	8	Highway	Railroad Ave	SR 371/W Gaines St	Leon	System Capacity and Efficiency	Top 10 PTI Roadway	Consider the development of a planning study along the corridor to assess potential improvement.	-	Long	\$20,000 to \$35,000
I25	8	Highway	SR 371/Gaines St	Railroad Ave	Leon	System Capacity and Efficiency	Bottleneck (top 10 for 2022)	Consider the development of a planning study along the corridor to assess potential improvement.	-	Long	\$20,000 to \$35,000
I23	10	Highway	Railroad Ave	SR 366/W St Augustine St	Leon	System Capacity and Efficiency	Bottleneck (top 10 for 2022)	Consider the development of a planning study along the corridor to assess potential improvement.	-	Long	\$20,000 to \$35,000
I13	12	Highway	SR 263/Capital Circle	US-27/N Monroe St	Leon	System Capacity and Efficiency	Top 10 PTI Roadway	Consider the development of a planning study along the corridor to assess potential improvement.	-	Mid	\$20,000 to \$35,000

Recommendation ID	Census Tract Rank	Mode	System Feature	Termini/Crossroads	Location	Needs Category	Identified Needs	Recommendation(s)	Existing Project	Term	Estimated/Planned Cost
I37	15	Highway	SR 366/Stadium Dr	W Pensacola St	Leon	System Capacity and Efficiency	Top 10 PTI Roadway	Consider moderate design and operations changes.	CRTPA Traffic and Operations Analysis	Long	\$20,000 to \$35,000
I14	17	Highway	SR 61/Thomasville Rd	E 9th Ave to E 6th Ave	Leon	System Capacity and Efficiency	Failing LOS	Consider the development of a planning study along the corridor to assess potential improvement.	-	Mid	\$20,000
I15	17	Highway	US 27/Monroe St	SR 61/Thomasville Rd	Leon	System Capacity and Efficiency	Bottleneck (top 10 for 2022)	Consider the development of a planning study along the corridor to assess potential improvement.	-	Mid	\$20,000 to \$35,000
I36	18	Highway	Appleyard Dr	US-90/W Tennessee St	Leon	System Capacity and Efficiency	Top 10 PTI Roadway	Consider moderate design and operations changes.	Partial FDOT Resurfacing (US 90) - 426937-3	Mid	\$11,886,624
I20	20	Highway	US 90/W Jefferson St	S Pat Thomas Pkwy to S Adams St	Gadsden	System Capacity and Efficiency	Failing LOS	Consider the development of a planning study along the corridor to assess potential improvement.	-	Short	\$20,000 to \$40,000
I28	20	Highway	Quincy Bypass	North and South Bypass Routes	Gadsden	System Capacity and Efficiency	System Redundancy	Continue to monitor progress of this development. Encourage municipal partners to consider freight favorable land use and zoning based on community desires.	Former FDOT Project	Mid	Variable based on route and distance
I19	23	Highway	Martin Luther King Blvd	S Pat Thomas Pkwy to S Stewart St	Gadsden	System Capacity and Efficiency	Failing LOS	Consider the development of a planning study along the corridor to assess potential improvement.	-	Mid	\$20,000
I17	27	Highway	Miccosukee Rd	US-319/Capital Cir Ne	Leon	System Capacity and Efficiency	Top 10 PTI Roadway	Consider the development of a planning study along the corridor to assess potential improvement.	-	Mid	\$20,000 to \$35,000
I11	28	Highway	Orange Avenue	Capital Circle SW to SR 61/S Monroe St	Leon	System Capacity and Efficiency	Regional Mobility Plan Projects	Access mgmt. and multimodal improvements.	Identified within the RMP Number: 21.1, 21.2, and 21.3	Short	\$68,823,738
I43	28	Highway	SR 363/Woodville Highway	Capital Circle SE to Paul Russell Rd	Leon	System Capacity and Efficiency	Regional Mobility Plan Projects	Widen from 2 to 4 Lanes.	Identified within the RMP Number: 12	Short	\$50,578,114.90
I41	30	Highway	SR 20/SR366/Pensacola St	Capital Circle SW to Appleyard Dr	Leon	System Capacity and Efficiency	Regional Mobility Plan Projects	Widen from 2 to 4 Lanes.	Identified within the RMP Number: 22.1 and FDOT 219820-2 Capacity Adding and Safety Improvements	Mid	\$22,138,758.29
I16	30	Highway	SR 20/Blountstown St	US-90/SR-10/W Tennessee St	Leon	System Capacity and Efficiency	Top 10 PTI Roadway	Consider the development of a planning study along the corridor to assess potential improvement.	-	Mid	\$20,000 to \$35,000
I42	31	Highway	Tharpe St	Capital Circle NW to Ocala Rd	Leon	System Capacity and Efficiency	Regional Mobility Plan Projects	Widen from 2 to 4 Lanes.	Identified within the RMP Number: 23	Mid	\$86,257,869.69
I38	32	Highway	E Park Ave	US 319/Capital Circle SE	Leon	System Capacity and Efficiency	Top 10 PTI Roadway	Consider moderate design and operations changes.	Partial FDOT Resurfacing (Capital Circle) - 428739-2	Mid	\$5,102,027
I26	34	Highway	US 319 S/Capital Circle NE	US 90/SR 10/Mahan Dr	Leon	System Capacity and Efficiency	Bottleneck (top 10 for 2022) Regional Mobility Plan Projects	Consider the development of a planning study along the corridor to assess potential improvement. Potential Major Intersection Reconfiguration.	Identified within the RMP Number: 45	Mid	\$2,971,343.26

Recommendation ID	Census Tract Rank	Mode	System Feature	Termini/Crossroads	Location	Needs Category	Identified Needs	Recommendation(s)	Existing Project	Term	Estimated/Planned Cost
I31	39	Air	TLH	Capital Circle SW/ Spring Hill Road	Gadsden-Wakulla-Jefferson	System Capacity and Efficiency	Increased capacity to manage and store cargo	Support continued growth at TLH. -Development of an increased Cargo Management Apron. -Development of a Cargo operations facility. -Improvement to aircraft approach infrastructure. -Development of a Foreign Trade Zone.	Ongoing TLH Development	Short	\$30,000,000
I47	39	Highway	SR 263/Capital Circle SW and NW	Springhill Road to SR 371 Orange Ave	Leon	System Capacity and Efficiency	Port/Airfield Access	Widen from 2 to 6 Lanes.	FDOT - Widening Project 415782-9	Mid	\$6,862,601
I29	41	Highway	Connection to Port of Port St. Joe	South of Telogia	Connecting Area	System Capacity and Efficiency	Port/Airfield Access	Continued coordination with rail providers, port operator, and economic development agencies to secure funding for rail repair.	-	Long	\$30,500,000
I22	48	Highway	US 27/Apalachee Pkwy	US 319/Capital Circle SE	Leon	System Capacity and Efficiency	Bottleneck (top 10 for 2022)	Consider the development of a planning study along the corridor to assess potential improvement.	-	Long	\$20,000 to \$35,000
I18	65	Highway	SR 363/Woodville Highway	Capital Circle SE to Oak Ridge Rd E	Leon	System Capacity and Efficiency	Failing LOS	Consider the development of a planning study along the corridor to assess potential improvement.	-	Mid	\$100,000-\$200,000
I44	66	Highway	US 319/Crawfordville Highway	Wakulla Springs Rd to North of Alaska Way	Leon-Wakulla	System Capacity and Efficiency	Failing LOS Regional Mobility Plan Projects	Widen from 2 to 4 Lanes. Continue coordination with municipal and FDOT partners on the design and implementation of the planned widening along this corridor.	Identified within the RMP Number: 4.1, 4.2, 5, 6, 7. FDOT Widening Project 219881-4, 220495-3	Mid	\$255,682,061.47
I21	67	Highway	SR 20/Blountstown Highway	Geddie Rd to Coe Landing Rd	Leon	System Capacity and Efficiency	Failing LOS	Consider the development of a planning study along the corridor to assess potential improvement.	-	Long	\$80,000-\$160,000
I40	75	Highway	Orange Ave	US 319/Capital Circle SE	Leon	System Capacity and Efficiency	Top 10 PTI Roadway	Consider moderate design and operations changes.	-	Mid	\$20,000 to \$35,000
I2	N/A	Highway	Highway	Region Wide	All	System Safety	Crash Hotspots	Consider safety, design and operational improvements.	-	Mid	N/A
I32	N/A	Rail	Rail Bridges	Region Wide	Leon-Gadsden-Jefferson	System Capacity and Efficiency	Bridge rehabilitation and improvements	Consider critical bridge improvements identified on main line from Gadsden to Baker County, encompassing the rail network within CRTPA.	-	Long	\$599,388.08
I33	N/A	Rail	Railroad	Region Wide	Leon-Gadsden	System Capacity and Efficiency	Main line track improvements for capacity expansion and train speed Improvements	Improve critical capacity points identified on the main line track across rail network within CRTPA.	-	Long	\$ 4,667,704
I34	N/A	Rail	Railroad	Region Wide	Leon-Jefferson	System Capacity and Efficiency	Main line track improvements for capacity expansion and train speed Improvements	Improve critical capacity points identified on the main line track across rail network within CRTPA.	-	Long	\$2,945,000

Recommendation ID	Census Tract Rank	Mode	System Feature	Termini/Crossroads	Location	Needs Category	Identified Needs	Recommendation(s)	Existing Project	Term	Estimated/Planned Cost
I35	N/A	Rail	Railroad	Region Wide	Leon	System Capacity and Efficiency	Yard track, and operation equipment improvements for capacity expansion and train speed Improvements	Improve critical capacity points identified for siding rehabilitation and transload upgrades.	-	Mid	\$190,000
I48	N/A	Rail	Rail Crossings	Region Wide	All	System Capacity and Efficiency	Rail Crossing Modification	Work with roadway managers and railroad providers on the identification of rail crossing elimination opportunities. Consider the joint development of grants to supplement funding.	-	Mid	N/A

Table 3: Policy Recommendations

Recommendation ID	Census Tract Rank	Mode	System Feature	Termini/Crossroads	Location	Needs Category	Identified Needs	Recommendation(s)	Existing Project	Term	Estimated/Planned Cost
P52	N/A	Air	TLH	Region Wide	All	Land Use and Policy	Air Travel Expansion	Continue coordination with TLH on the development of their Foreign Trade Zone development.	TLH is actively pursuing the development of a Foreign Trade Zone in support of their planned facility expansions	Mid	N/A
P50	N/A	Highway	Highway	Region Wide	All	System Capacity and Efficiency	Truck Routing	Consider the development of truck routing within the region to direct non-local freight movements.	-	Short	N/A
P53	N/A	Highway	Highway	Region Wide	All	System Capacity and Efficiency	Top Ten 2050 Freight Corridors	Continue to monitor the conditions along these corridors and work with agency partners as any issues are identified. I-10 US 19 SR 20 US 98 Thomasville Rd SR 267 SR 12 US 27/ N. Monroe St US 27/Apalachee Pkwy Mahan Dr	-	Short	N/A
P54	N/A	Highway	Parking Areas and Freight Land Uses	Region Wide	All	Land Use and Policy	Freight parking/staging	Coordinate and stay informed on public/private opportunities for truck parking improvements throughout the region.	-	Long	N/A
P55	N/A	Highway	Parking Areas and Freight Land Uses	Region Wide	All	Land Use and Policy	Freight parking/staging	Coordinate with county and municipal staff on the development freight parking and staging standards to accommodate truck needs. Coordination with law enforcement will be key to discouraging unauthorized parking.	-	Long	N/A
P51	N/A	Multimodal	-	Region Wide	All	Land Use and Policy	Encourage Intermodal Development	Continue coordination with municipal partners and encourage the development of intermodal or transload opportunities to encourage multimodal freight movements.	-	Short	N/A
P56	N/A	Multimodal	-	Region Wide	All	Land Use and Policy	Introduce freight friendly zoning and land use descriptions	Coordinate with county and municipal staff on the development of freight inclusive zoning and land use descriptions.	-	Short	N/A

Recommendation ID	Census Tract Rank	Mode	System Feature	Termini/Crossroads	Location	Needs Category	Identified Needs	Recommendation(s)	Existing Project	Term	Estimated/Planned Cost
P57	N/A	Multimodal	-	Region Wide	All	Land Use and Policy	Regional Cooperation beyond municipal boundaries.	Coordinate with neighboring municipal partners for project cohesion and cooperative opportunities.	-	Short	N/A
P58	N/A	Multimodal	FDOT District and Central Office Coordination	Region Wide	All	Land Use and Policy	Regional Cooperation beyond municipal boundaries.	Encourage the continued involvement of FDOT staff in conversations related to freight movements within the area. Coordinate with FDOT on freight related project funding opportunities.	-	Short	N/A
P59	N/A	Multimodal	-	Region Wide	All	Land Use and Policy	Freight Origin/Destination	Promote the identification of freight clusters throughout the region by economic development and municipal staff. This identification can help guide development of comprehensive planning and future zoning/land use decisions.	-	Short	N/A
P49	N/A	Sea	Port of Port St. Joe	Region Wide	All	Land Use and Policy	Regional Cooperation beyond municipal boundaries.	Consider continued coordination with the Port. Development at or near the Port may impact the CRTPA region.	-	Short	N/A

Table 4: Technology Recommendations

Recommendation ID	Census Tract Rank	Mode	System Feature	Termini/ Crossroads	Location	Needs Category	Identified Needs	Recommendation(s)	Existing Project	Term	Estimated/Planned Cost
T65	5	Highway	US 27/Apalachee Pkwy	SR 61/ S Monroe St to Conner Blvd	Leon	System Capacity and Efficiency	Efficient Flow of Traffic	Promote the development and implementation of Adaptive Traffic Signal Control.	ITS Master Plan	Long	\$1,260,569.87
T66	5	Highway	US 90/Tennessee St/ Mahan Dr	US 27/SR 61/N Monroe St to Capital Circle NW	Leon	System Capacity and Efficiency	Efficient Flow of Traffic	Promote the development and implementation of Adaptive Traffic Signal Control.	ITS Master Plan	Short	\$1,609,477.60
T63	N/A	Air	Technology	TLH	All	System Capacity and Efficiency	Continued Industry Development	Coordinate with TLH on the implementation of autonomous passenger and freight technology testing in the region.	TLH is actively tracking and considering these technologies as they become available.	Short	N/A
T60	N/A	Highway	I-10	Region Wide	Leon-Gadsden-Jefferson	System Capacity and Efficiency	Truck Parking Availability and awareness	Continue coordination with FDOT on the implementation of truck parking counting technologies signage and applications	Truck parking counters and notification methods are in place along I-10 but must be maintained and upgraded in the future	Mid	N/A
T61	N/A	Highway	Regional ITS equipment	Region Wide	All	System Capacity and Efficiency	Efficient Flow of Traffic	Continue to promote the development of Intelligent Transportation Systems (ITS) throughout the four-county region. Engage with the Tallahassee-Leon County Regional Transportation Management center and the ITS Master Plan for opportunities to improve general movement throughout the region.	ITS Master Plan	Short	N/A
T64	N/A	Highway	Tallahassee-Leon County	Region Wide	Leon	System Capacity and Efficiency	Efficient Flow of Traffic	I-10 Dynamic Messaging Signage and Trailblazer signage. Promote the development and implementation of the trailblazer signage system to guide drivers during detour and incident management events.	ITS Master Plan	Mid	\$3,677,037.28
T67	N/A	Highway	Tallahassee-Leon County	Region Wide	Leon	System Capacity and Efficiency	Travel Time Reliability	Promote the development and implementation of the equipment necessary for the travel time reliability system.	ITS Master Plan	Mid	\$416,438.26
T62	N/A	Rail	Technology	Region Wide	All	System Capacity and Efficiency	Continued Industry Development	Coordinate with rail providers on the implementation of autonomous freight rail technology testing in the region.	AN - Pilot programs ongoing just north of the region in GA	Short	N/A

Figure 1: Recommendation Map

