

Traffic Assessment of the Impacts of the First Coast Expressway in Northwest St. Johns County

(UPWP 5.13)

Prepared For:

North Florida TPO

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EXECUTIVE SUMMARY

This study is being conducted for the North Florida Transportation Planning Organization (TPO) to provide St. Johns County an assessment of the impacts caused by the opening of the First Coast Expressway on the roadway network in the northwest portion of the County. The First Coast Expressway (FCE) is a toll facility being constructed by the Florida Department of Transportation and will provide a second beltway in the southwest quadrant of I-10 and I-95. The FCE will provide a high-speed connection between Clay County and I-95 and is expected to divert traffic that is currently using the existing roadway network in northwest St. Johns County. Figure ES-1 illustrates the proposed path of the FCE along the boundary of the study area.

The Northeast Regional Planning Model was used to quantify the impacts of the FCE after its connection to I-95 which is expected to be complete in 2030. A 2020 data set and roadway network were developed to provide a "reasonability" check of the model. When 2020 existing traffic count data was compared to model-generated volumes, total traffic entering and exiting the study area predicted by the model was within 5% of the counted volumes. Traffic volumes on surface roadways within the study area were also compared to counted volumes and the sum of the model volumes were within 8% of the counted volumes. Two additional model years, 2035 and 2040, were developed to provide a fuller picture of the impacts of the FCE. The 2030, 2035, 2040 and 2045 model files were modified to include two large Comprehensive Plan Amendments (CPAs) currently in process in the study area at the request of St. Johns County staff. These include a modification to the Silverleaf Development of Regional Impact (DRI) to bring the approved developments to 16,300 residential units and 3.53 million square feet of non-residential space, and the Greenbriar-Helow CPA which is capped at 3,500 residential units and 2.5 million square feet of non-residential development.

The results of the analysis indicate that the FCE will have significant positive impacts on parts of SR-13 (Bartram Scenic Trail), CR-16A, CR-210 and portions of SR-16 by reducing the traffic in some cases by over 50%. Figure ES-1 illustrates the percentage difference on the major roadway within the study area. The majority of traffic traveling to/from Clay County will use the FCE to access I-95, keeping through traffic off the surface roadway network. There will be minor increases on the roadway segments that provide access to the FCE including Longleaf Pine Parkway and St. Johns Parkway (CR-2209) with the biggest increase on St. Johns Parkway south of the FCE. Model volume forecasts for this section of St. Johns Parkway are well within the carrying capacity of the existing 4-lane roadway and should not cause significant delays to the traveling public. The FCE will provide a valuable transportation link between the residential areas in Clay County and the employment centers in Jacksonville, pulling traffic from the local roadway network. Table ES-1 depicts the estimated 2045 daily traffic volumes with and without the FCE along with the typical section needed to carry the volume based on the FDOT Generalized LOS Tables. As shown, the majority of roadways will need the same number of lanes with or without the FCE. Eight segments will require less lanes and two segments of I-95 and one section of Race Track Road will require additional lanes in 2045 with the FCE.

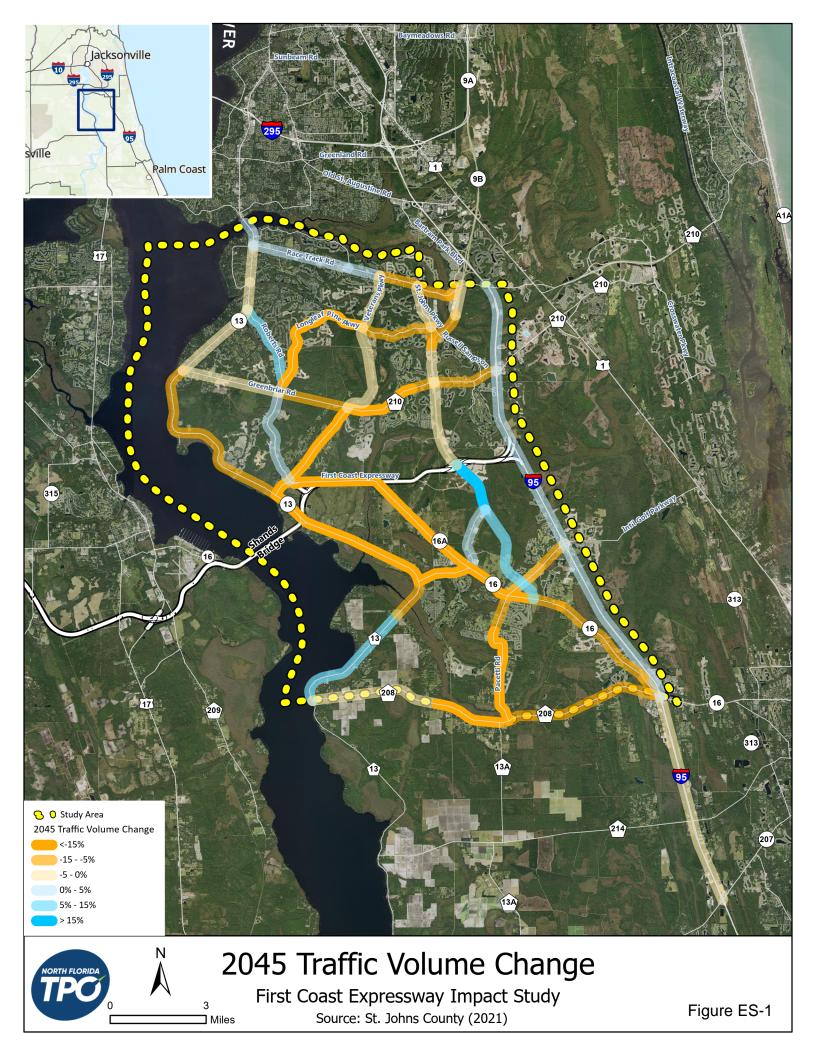


TABLE ES-1 - 2045 Required Lanage Comparison

				2045 Adi	iusted		Future			
Link			Existing	Daily Vol	-	Lanage ⁴				
ID	Roadway	Segment	Lanage 1		With FCE	LRTP / TIP ³	Without FCE	With FCE		
17.1	CR-13	CR-208 to Joe Aston Road	2-lanes	1,464	1,560	2-lanes	2-lanes	2-lanes		
17.2	CR-13	Joe Ashton Road to SR-16	2-lanes	7,745	7,071	2-lanes	2-lanes	2-lanes		
21.1	CR-13A	CR-208 to Samara Lakes Parkway	2-lanes	2,536	2,764	2-lanes	2-lanes	2-lanes		
21.2	CR-13A	Samara Lakes Parkway to SR-16	4-lanes	7,777	8,338	4-lanes	2-lanes	2-lanes		
23.1	CR-16A	SR-13 to CR-210	2-lanes	4,389	2,728	4-lanes	2-lanes	2-lanes		
23.2	CR-16A	CR-210 to Leo McGuire Road	2-lanes	15,565	10,705	4-lanes	4-lanes	2-lanes		
30	CR-208	CR-13 to Joe Ashton Road	2-lanes	971	948	2-lanes	2-lanes	2-lanes		
31	CR-208	Joe Ashton Road to CR-13A	2-lanes	2,713	2,205	2-lanes	2-lanes	2-lanes		
32	CR-208	CR-13A to SR-16	2-lanes	3,131	2,850	2-lanes	2-lanes	2-lanes		
33	CR-210	CR-16A to Greenbriar Road	2-lanes	10,872	8,638	2-lanes	2-lanes	2-lanes		
34.1	CR-210	Greenbriar Road to Cimarrone Boulevard	2-lanes	28,389	24,197	4-lanes	4-lanes	4-lanes		
34.2	CR-210	Cimarrone Boulevard to CR-2209 (St Johns Parkway)	4-lanes	60,181	54,675	4-lanes	8-lanes	8-lanes		
34.3,35	CR-210	CR-2209 (St Johns Parkway) to I-95	4/6-lanes	59,997	55,168	4/6-lanes	8-lanes	8-lanes		
64	Greenbriar Road	SR-13 to Longleaf Pine Parkway	2-lanes	7,298	7,235	2-lanes	2-lanes	2-lanes		
65	Greenbriar Road	Longleaf Pine Parkway to CR-210	2-lanes	16,077	15,236	2-lanes	4-lanes	4-lanes		
73.1	International Golf Parkway	SR-16 to Royal Pines Parkway	4-lanes	24,701	23,503	6-lanes	4-lanes	4-lanes		
73.2	International Golf Parkway	Royal Pines Parkway to I-95	4-lanes	46,285	43,222	6-lanes	6-lanes	6-lanes		
76	Race Track Road	SR-13 to Bishop Estates Road	4-lanes	43,275	44,277	4-lanes	6-lanes	8-lanes		
77.1	Race Track Road	Bishop Estates Road to Veterans Parkway	4-lanes	47,160	48,336	4-lanes	6-lanes	6-lanes		
77.2	Race Track Road	Veterans Parkway to CR-2209 (St Johns Parkway)	4-lanes	43,055	40,828	4-lanes	6-lanes	6-lanes		
77.3	Race Track Road	CR2209 (St Johns Parkway to West Peyton Parkway	4-lanes	39,039	36,952	4-lanes	6-lanes	6-lanes		
77.4	Race Track Road	West Peyton Parkway to Bartram Park Boulevard	4-lanes	24,751	23,137	4-lanes	4-lanes	4-lanes		
79	Roberts Road	Longleaf Pine Parkway to SR-13	2-lanes	18,250	19,178	3-lanes	4-lanes	4-lanes		
81	SR-13/16	SR-16 (East) to SR_16(West)	2-lanes	15.058	7,131	2-lanes	2-lanes	2-lanes		
82	SR-13	SR-16 (West) to CR16A	2-lanes	20,777	9,579	2-lanes	4-lanes	2-lanes		
83	SR-13	CR-16A to Greenbriar Road	2-lanes	10,584	9,848	2-lanes	2-lanes	2-lanes		
84	SR-13	Greenbriar Road to Roberts Road	2-lanes	14,346	14,189	2-lanes	2-lanes	2-lanes		
85	SR-13	Roberts Road to CR-13B (Fruit Cove Road S.)	4-lanes	36,184	35,324	4-lanes	6-lanes	4-lanes		
86	SR-13	CR-13B (Fruit Cove Road S.) to Race Track Road	4-lanes	40,532	40,452	4-lanes	6-lanes	6-lanes		
88	SR-13	Race Track Road to Duval County Line	4-lanes	69,690	70,072	4-lanes	8-lanes	8-lanes		
90	SR-16	SR-13 to CR-16A	2-lanes	20,986	13,960	2-lanes	4-lanes	2-lanes		
91.1	SR-16	CR-16A to International Golf Parkway	4-lanes	38,463	29,102	4-lanes	6-lanes	4-lanes		
91.2	SR-16	International Golf Parkway to CR-2209	4-lanes	23,711	18,336	4-lanes	4-lanes	4-lanes		
92.11	SR-16	CR-2209 to South Frances Road	4-lanes	42,801	37,121	4-lanes	6-lanes	4-lanes		
92.12	SR-16	South Frances Road to West Mall Entrance	4-lanes	40,884	35,140	4-lanes	6-lanes	4-lanes		
92.2	SR-16	West Mall Entrance to I-95	4-lanes	50,950	45,686	4-lanes	6-lanes	6-lanes		
130	I-95	SR-207 to SR-16	6-lanes	96,259	96,196	10-lanes	6-lanes	6-lanes		
131	I-95	SR-16 to International Golf Parkway	6-lanes	101,732	106,233	10-lanes	6-lanes	8-lanes		
132	I-95	International Golf Parkway to FCE	6-lanes	131,171	135,944	10-lanes	8-lanes	8-lanes		
132	I-95	FCE to CR-210	6-lanes	131,171	144,052	10-lanes	8-lanes	10-lanes		
133	I-95	CR-210 to Duval County Line	6-lanes	168,209	175,623	10-lanes	10-lanes	10-lanes		
	Longleaf Pine Parkway	FCE to CR-16A/CR-210				4-lanes		4-lanes		
153.1	Longleaf Pine Parkway	CR-16A/CR-210 to Greenbriar Road	4-lanes	10,546	10,555	4-lanes	2-lanes	2-lanes		
153.2	Longleaf Pine Parkway	Greenbriar Road to Roberts Road	4-lanes	19,524	19,121	4-lanes	4-lanes	4-lanes		
154	Longleaf Pine Parkway	Roberts Road to Veterans Parkway	2-lanes	19,092	16,069	4-lanes	4-lanes	4-lanes		
155, 156	Longleaf Pine Parkway	Veterans Parkway to CR-2209 (St Johns Parkway)	4-lanes	33,623	31,279	4-lanes	4-lanes	4-lanes		
170	Silverleaf Parkway	SR-16/CR-16A to St Johns Parkway	4-lanes	6,277	6,295	4-lanes	2-lanes	2-lanes		
	St Johns Parkway	SR-16 to International Golf Parkway		15,595	16,685	4-lanes	4-lanes	4-lanes		
	St Johns Parkway	International Golf Parkway to Silverleaf Parkway		7,079	7,970	4-lanes	2-lanes	2-lanes		
171.2	St Johns Parkway	Silverleaf Parkway to FCE	4-lanes	22,465	30,607	6-lanes	4-lanes	4-lanes		
171.3	St Johns Parkway	FCE to CR-210	4-lanes	35,340	33,748	6-lanes	4-lanes	4-lanes		
157	St Johns Parkway	CR-210 to SR-9B	4-lanes	41,815	40,745	6-lanes	4-lanes	4-lanes		
158	St Johns Parkway	SR-9B to Longleaf Pine Parkway	4-lanes	37,520	35,005	4-lanes	6-lanes	4-lanes		
159	St Johns Parkway	Longleaf Pine Parkway to Race Track Road	4-lanes	10,894	10,726	4-lanes	2-lanes	2-lanes		
152.1	Veterans Parkway	CR-210 to Longleaf Pine Parkway		11,263	11,169	4-lanes	2-lanes	2-lanes		
152.2	Veterans Parkway	Longleaf Pine Parkway to Race Track Road	4-lanes	24,733	24,201	4-lanes	4-lanes	4-lanes		

Notes:

of lanes decreased with FCE

of lanes increased with FCE

¹ Existing number of lanes from St Johns County Traffic Analysis Spreadsheet Dated 4-12-2022

² Adjusted based on the difference between 2020 counted and model volumes
³ Improved number of lanes from the North Florida TPO 2045 LRTP or St Johns County TIP

⁴ Number of lanes to accomodate estimated traffic based on FDOT Quality and Level of Service Manual (2020)

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1.0 INTRODUCTION

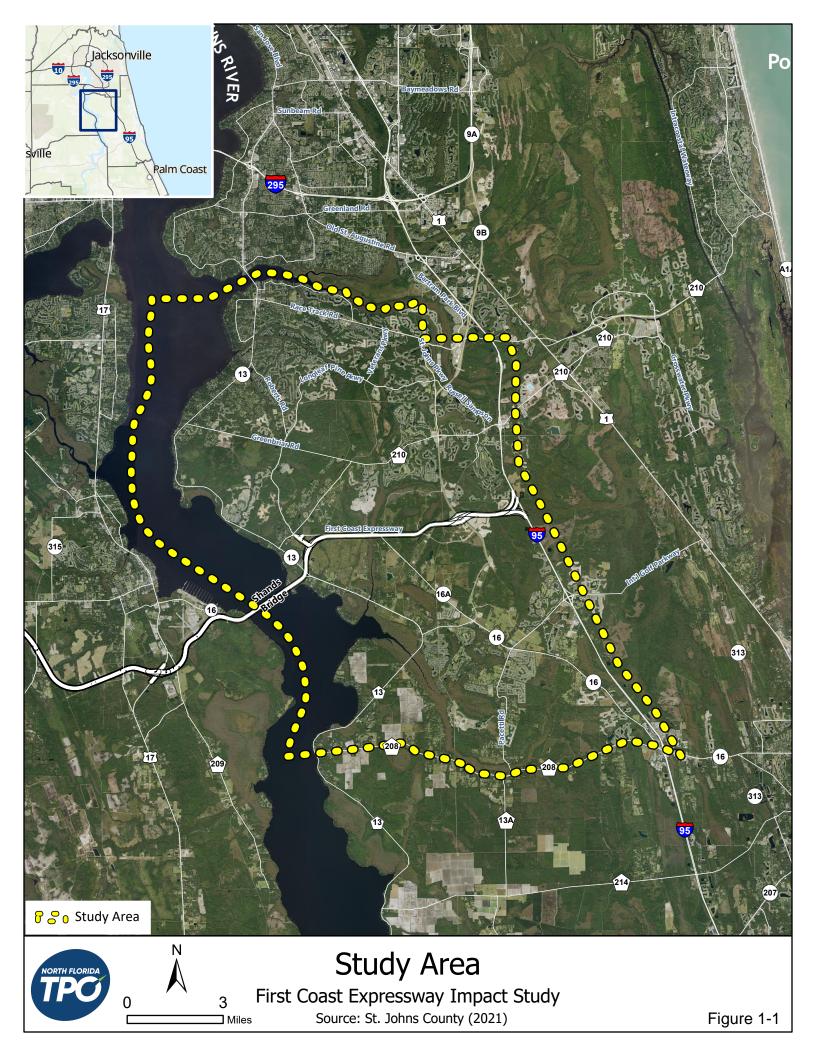
1.1 Background

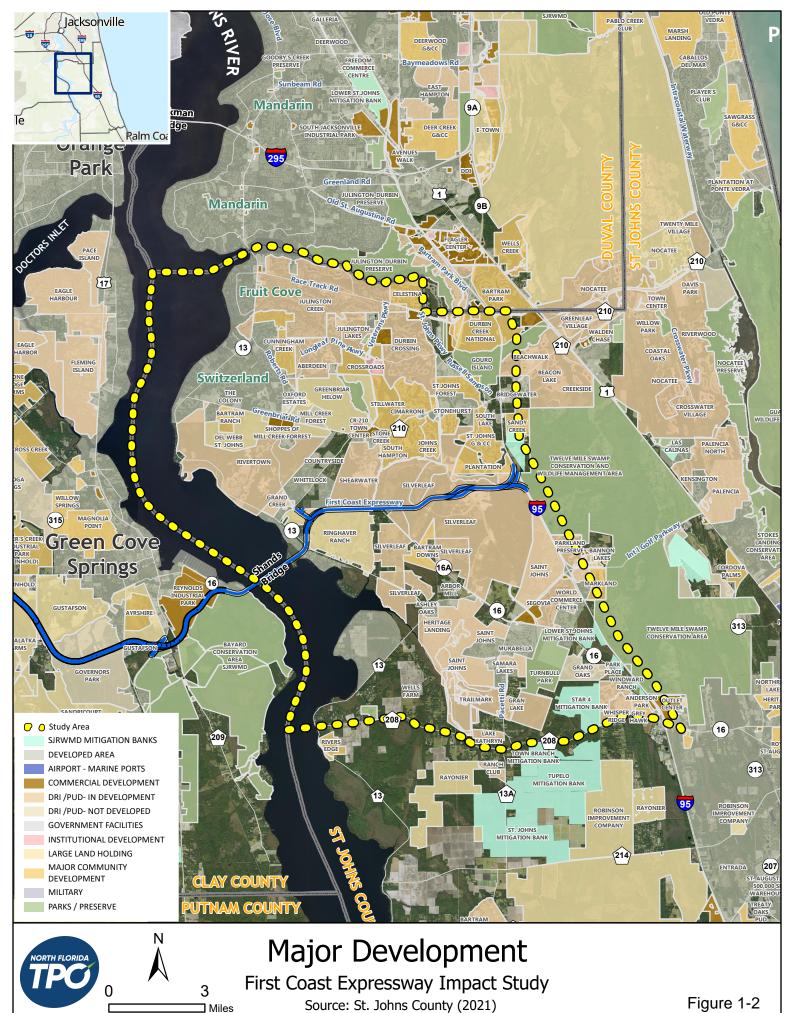
This study is being conducted for the North Florida Transportation Planning Organization (TPO) to provide St. Johns County an assessment of the impacts caused by opening the First Coast Expressway on the roadway network in the northwest portion of the County. The First Coast Expressway (FCE) is a toll facility being constructed by the Florida Department of Transportation and will provide a second beltway in the southwest quadrant of I-10 and I-95. Figure 1-1 illustrates the proposed path of the FCE along with the boundary of the study area. The FCE will provide a high-speed connection between Clay County and I-95 and is expected to divert traffic that is currently using the existing roadway network in northwest St. Johns County.

1.2 Methodology

Assessing the FCE's impact on local roadways was conducted using version 2.1.1 of the Activity-Based Northeast Regional Planning Model (NERPM-AB). The base model contains socioeconomic data and roadway networks for the base year (2015), an interim year (2030) and planning horizon (2045). The model covers six counties in northeast Florida: Baker, Clay, Duval, Nassau, Putnam, and St. Johns. Additional interim years, 2020, 2025, 2035 and 2040 were developed for this analysis. The socio-economic data for the years 2020 and 2025 were calculated by interpolating socio-economic data for 2015 and 2030. Years 2035 and 2040 were developed by interpolating the 2030 and 2045 socio-economic data files. St. Johns County staff asked that a portion of the socio-economic data of two large developments (Greenbriar-Helow and Silverleaf Development of Regional Impact (DRI)) currently going through the approval process be included, along with their proposed transportation mitigation to the future model years. Figure 1-2 depicts the locations of these two developments along with the larger developments currently planned for Northwest St. Johns County. Several modifications were made to the centroid connectors to better represent the roadway network connecting the socio-economic data contained in Traffic Analysis Zones (TAZs). In addition, TAZ 2344 was divided into two TAZs (2340 and 2344) along Cunningham Creek to provide a more reasonable split of how development is able to access the roadway network. Table 1-1 lists the changes to the TAZ make-up of the model. A listing of the socio-economic data revisions is contained in Appendix A.

The roadway networks for the interim years were developed using the improvements that have occurred to date, the Florida Department of Transportation Work Program, local Transportation Improvement Plans for 2020 and 2025 roadway improvements, and the North Florida TPO Long Range Transportation Plan for the 2035 and 2040 improvements. The Cost-Feasible network was used for the 2045 model runs. Figure 1-3 illustrates the roadway improvements by model year included in the base highway network. A simulation of each model year was conducted with a roadway network that included the FCE and with a roadway network that did not. A model output correction factor (MOCF) was applied to the model volumes to calculate Average Annual Daily Traffic (AADT) for each scenario.



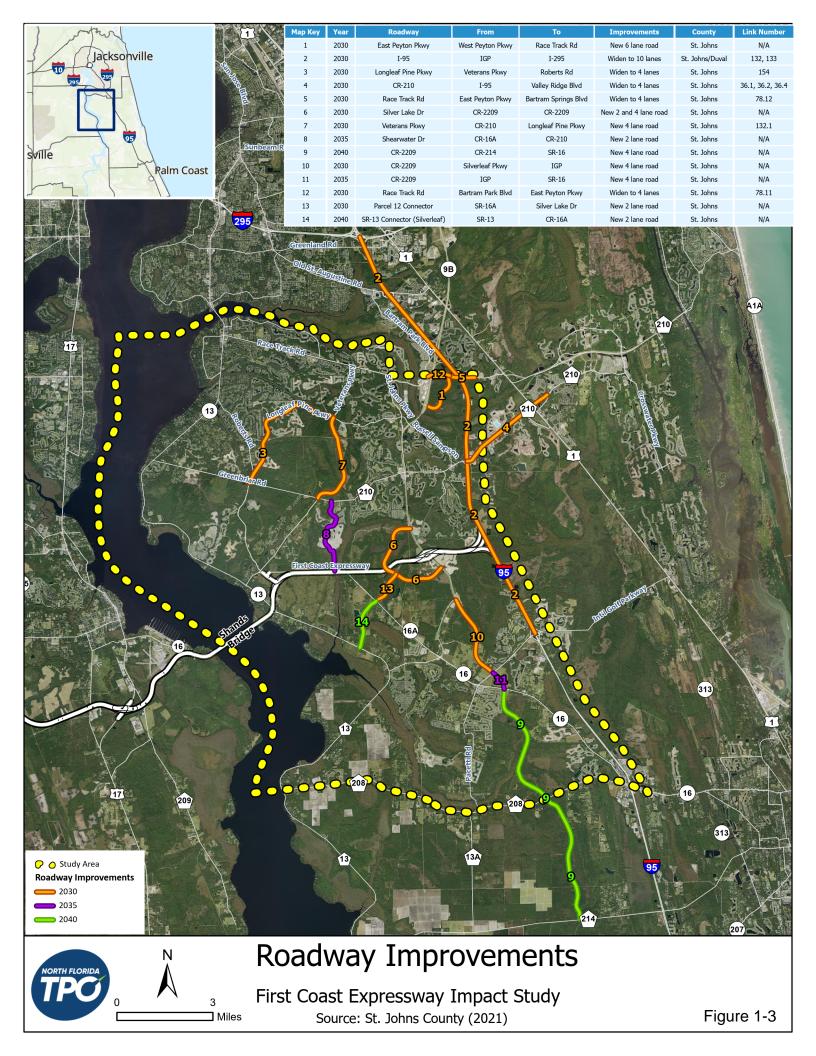


☐ Miles

Figure 1-2

TABLE 1-1 - Model TAZ Modifications

TAZ	Changes
TAZ 1158 (Beachwalk)	Centriod Connector shifted to the east to align with Centroid Connector to TAZ 2334 (Beacon Lakes)
TAZ 1213 (Bannon Lakes/12 Mile Swamp)	Centroid Connector to US-1 deleted
TAZ 1232 (Durbin Crossing DRI)	Deleted Centroid Connector to Race Track Road and added a Centroid Connector to Long Leaf Pine Parkway
TAZ 1251 (Rivertown DRI)	Added a Centroid Connector to Long Leaf Pine Parkway
TAZ 2340 (Cunningham Creek/Aberdeen DRI)	Split TAZ 2340 into two TAZS (2324 and 2340). TAZ 2324 contains the MAZs associated with Aberdeen and was connected to Long Leaf Pine Parkway. TAZ 1340 contains the MAZs associated the the Cunningham Creek area and was connected to Roberts Road.
TAZ 2350 (Silverleaf DRI)	Centroid Connector was added to CR-2209
TAZ 1164 (Silverleaf DRI Parcel 40)	A new TAZ was added.
TAZ 1165 (Silverleaf DRI Parcels 41 and 42)	A new TAZ was added.
TAZ 1166 (Bridle Village -Greenbriar Helow)	A new TAZ was added.



The base roadway networks for each model year are included in Appendix B.

The 2020 interim model results were compared to 2020 traffic volumes obtained Traffic Analysis Spreadsheet published by St. Johns County for roadways in the study area. The 2020 volumes were calculated based on "Pre-Covid" volumes expanded to 2020 using a historical growth rate calculated for each facility. Table 1-2 lists the model AADTs compared to the counted AADTs on the major roadways entering and exiting the study area. As shown, the model traffic entering and exiting the study area is within 5% of the counted volumes and therefore provides a reasonable approximation of traffic entering and exiting the study area. In addition, model and actual traffic volumes were compared for roadways within the study area. Table 1-3 depicts the comparison of 2020 counted and model traffic volumes on roadways within the study area. As shown, the overall difference between the actual counted volumes and model forecasts is less than 8%, demonstrating that the model is providing a good approximation of the conditions on the area roadway network.

TABLE 1-2 - Traffic Entering and Exiting the Study Area

Link ID	Roadway	2020 Daily Volumes				
LIIIK ID	Roadway	Segment	Counted	Model		
130	I-95	South of SR-16	74,500	66,740		
133	I-95	North of Duval County Line	96,500	93,513		
88	SR-13	North of Duval County Line	48,100	47,983		
89	SR-16	West of Clay County Line	19,890	22,430		
90	SR-16	East of SR-13/CR-13	14,000	12,920		
93.1	SR-16	East of I-95	40,835	44,690		
36.1	CR-210	East of I-95	27,006	17,595		
		Totals	320,831	305,871		
		Difference		-4.7%		

Daily model volumes were multiplied by a MOCF of 0.96

TABLE 1-3 - Traffic Volume Comparison within the Study Area

			2020 Daily	
Link ID	Roadway	Segment	Counted	Model
17.1	CR-13	CR-208 to Joe Aston Road	2,313	3,6
17.2	CR-13	Joe Ashton Road to SR-16	10,620	4,6
21.1	CR-13A	CR-208 to Samara Lakes Parkway	3,998	1,7
21.2	CR-13A	Samara Lakes Parkway to SR-16	15,781	5,8
23.1	CR-16A	SR-13 to CR-210	12,078	12,8
23.2	CR-16A	CR-210 to Leo McGuire Road	4,160	2,7
24	CR-16A	Leo McGuire Raod to SR-16	5,835	3,5
30	CR-208	CR-13 to Joe Ashton Road	3,181	7
31	CR-208	Joe Ashton Road to CR-13A	520	1,
32	CR-208	CR-13A to SR-16	3,181	3,0
33	CR-210	CR-16A to Greenbriar Road	10,657	9,6
34.1	CR-210	Greenbriar Road to Cimarrone Boulevard	24,096	16,0
34.2	CR-210	Cimarrone Boulevard to CR-2209 (St Johns Parkway)	32,282	23,
34.3,35	CR-210	CR-2209 (St Johns Parkway) to I-95	23,114	21,
64	Greenbriar Road	SR-13 to Longleaf Pine Parkway	5,128	2,0
65	Greenbriar Road	Longleaf Pine Parkway to CR-210	10,351	5,8
68	Joe Ashton Road	SR-16 to CR-13A	1,639	-
73.1	International Golf Parkway	SR-16 to Royal Pines Parkway	26,091	27,
73.2	International Golf Parkway	Royal Pines Parkway to I-95	26,015	26,
76	Race Track Road	SR-13 to Bishop Estates Road	26,668	19,
77.1	Race Track Road	Bishop Estates Road to Veterans Parkway	28,909	19,
77.2	Race Track Road	Veterans Parkway to CR-2209 (St Johns Parkway)	25,891	20,
77.3	Race Track Road	CR2209 (St Johns Parkway to West Peyton Parkway	24,565	15,
77.4	Race Track Road	West Peyton Parkway to Bartram Park Boulevard	24,565	13,
79	Roberts Road	Longleaf Pine Parkway to SR-13	13,616	8,
81	SR-13/16	SR-16 (East) to SR_16(West)	10,500	13,
82	SR-13	SR-16 (West) to CR16A	13,000	14,
83	SR-13	CR-16A to Greenbriar Road	4,700	2,
84	SR-13	Greenbriar Road to Roberts Road	9,000	10,
85	SR-13	Roberts Road to CR-13B (Fruit Cove Road S.)	27,234	34,
86	SR-13	CR-13B (Fruit Cove Road S.) to Race Track Road	28,500	33,
88	SR-13	Race Track Road to Duval County Line	48,100	48,
89	SR-16	Clay County Line to SR-13	19,890	22,
90	SR-16	SR-13 to CR-16A	15,677	12,
91.1	SR-16	CR-16A to International Golf Parkway	22,350	22,
91.2	SR-16	International Golf Parkway to CR-2209	18,421	23,
92.11	SR-16	CR-2209 to South Frances Road	18,186	17,
92.11	SR-16	South Frances Road to West Mall Entrance	19,025	19,
92.12	SR-16	West Mall Entrance to I-95	25,221	27,
130	I-95	SR-207 to SR-16	75,500	66,
131	I-95	SR-16 to International Golf Parkway	81,000	85,
132	I-95	International Golf Parkway to FCE	91,000	96,
132	I-95	FCE to CR-210	91,000	93,
133	I-95	CR-210 to Duval County Line	97,000	93, 94,
153.1	Longleaf Pine Parkway	CR-16A/CR-210 to Greenbriar Road	5,325	94, 6,
153.1	Longleaf Pine Parkway	Greenbriar Road to Roberts Road	11,003	7,
155.2	Longleaf Pine Parkway	Roberts Road to Veterans Parkway	11,318	7, 4,
154 155, 156	Longleaf Pine Parkway	Veterans Parkway to CR-2209 (St Johns Parkway)	18,195	4, 12,
170	Silverleaf Parkway	SR-16/CR-16A to St Johns Parkway	6,291	7,
170	•	, and the second		7, 7,
	St Johns Parkway	Silverleaf Parkway to FCE	15,966	
171.3	St Johns Parkway	FCE to CR-210	15,966	10,
157	St Johns Parkway	CR-210 to SR-9B	29,024	28,
158 150	St Johns Parkway	SR-9B to Longleaf Pine Parkway	20,347	14
159	St Johns Parkway	Longleaf Pine Parkway to Race Track Road	8,959	5,
152.2	Veterans Parkway	Longleaf Pine Parkway to Race Track Road	9,828	6,
166	SR-9B	St Johns Parkway to West Peyton Parkway	31,114	37,
167	SR-9B	West Peyton Parkway to Duval County Line	45,260	47,
		Totals	1,309,154	1,206,

2.0 FUTURE VOLUME FORECASTS

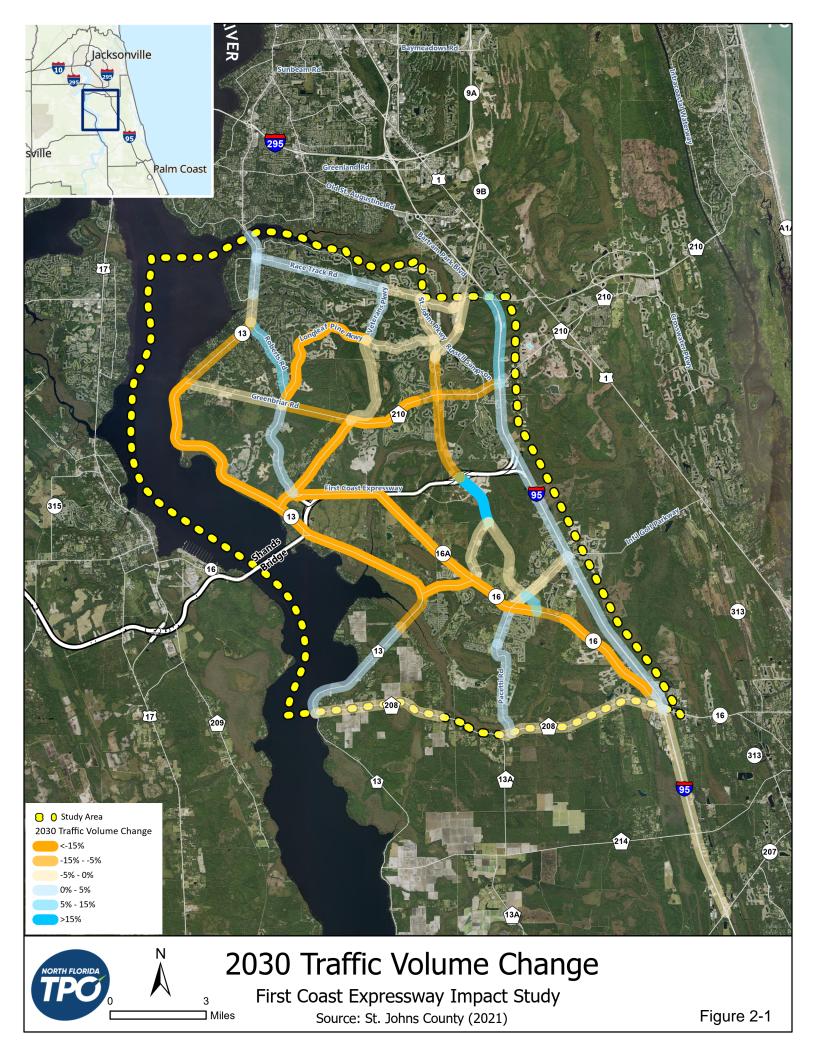
Future traffic volume forecasts were conducted the year the First Coast Expressway (FCE) is expected to open (2030) and at five-year increments until the model plan year (2045). The socio-economic data for the interim years was developed by interpolating between the interim year provided with the NERPM-AB model (2030) and the plan year (2045). Roadway improvements in the cost feasible long range transportation plan were added to the network for the appropriate years based on their anticipated construction schedule. In addition, several privately funded transportation improvements associated with large developments were also added to the roadway network. Model simulations were conducted for two roadway network alternatives for each model year. The first of the roadway networks did not include the FCE, while the second roadway network included the FCE as a tolled facility.

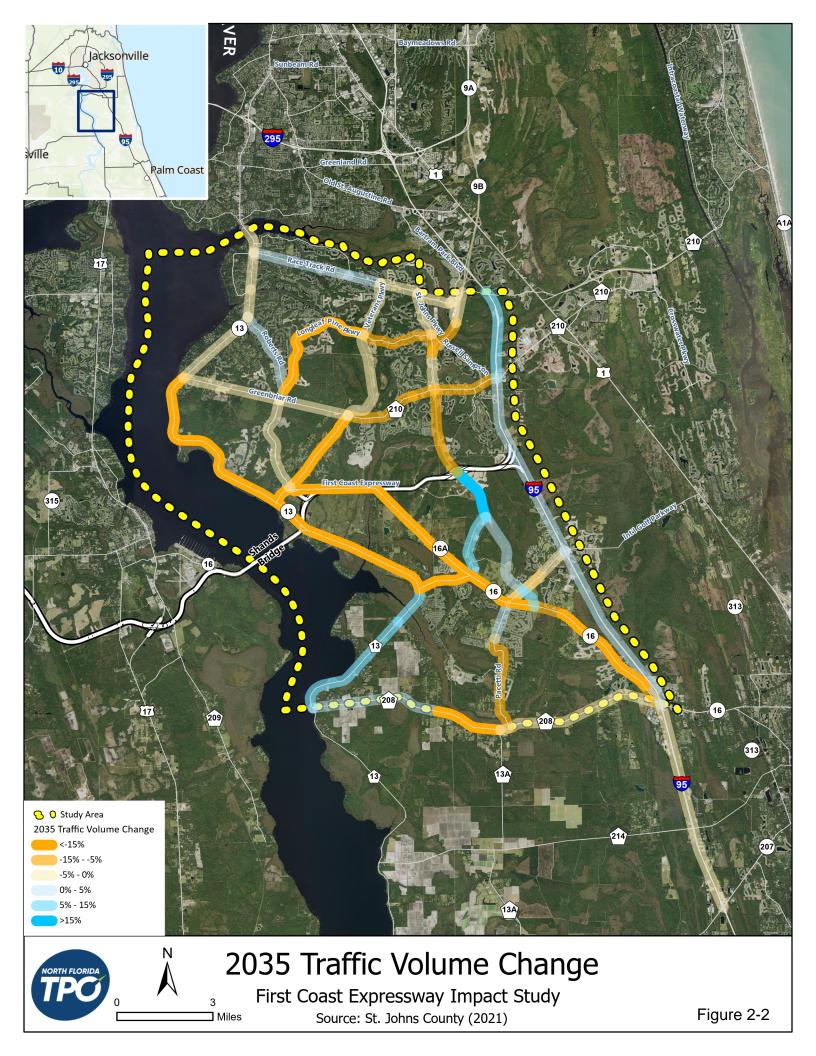
A third alternative included the FCE as a non-tolled facility, due to issues with the tolling model included in past versions of the NERPM model. The FCE was analyzed as a non-tolled expressway for 2040 in version 1v3 of the model and 2045 in the 2v1.1 version of the NERPM model and the traffic volume entering and exiting the FCE in St Johns County was compared to the volumes at the same locations when the FCE was tolled. The total entering and exiting traffic at the Longleaf Pine Parkway and CR-2209 interchanges increases by 152.4% for 2040 in the 1v3 version of the model when the tolls were removed from the FCE. The entering and exiting traffic at the same locations only increased by 52.5% when the tolls were removed from the FCE in the 2v1.1 version of the NERPM model. This equates to a 34.4% decrease in traffic entering and exiting the FCE from the local road network in St. Johns County associated with the addition of tolls in the latest version (2v1.1) of the NERPM model. A study by the Victoria Transport Policy Institute indicates demand is elastic depending on a large number of variables, that when a disincentive is added (parking fees or road toll), automobile trips decline 20% to 60% on the impacted facility. Although the study indicates these users will shift to transit, in this instance the shift would be to non-tolled facilities where transit is not available. Therefore, the current model seems to reflect the expected driver behavior and the third roadway scenario was not needed to assess the impacts of the FCE.

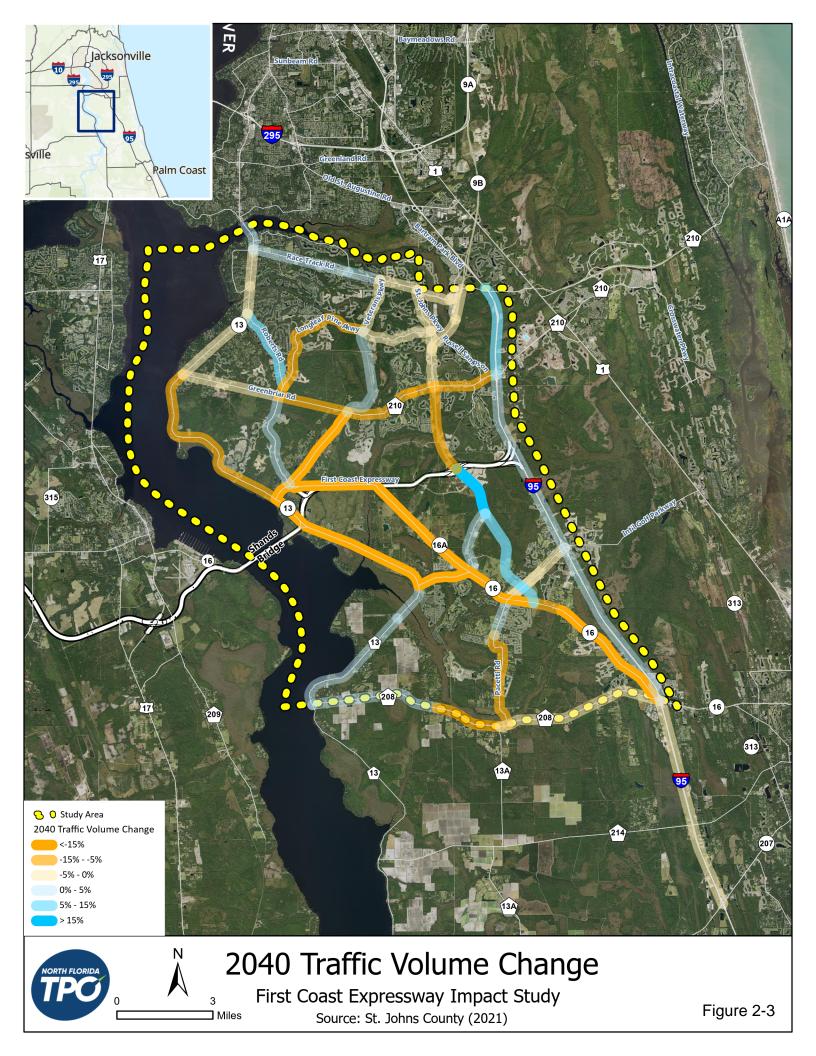
Table 2-1 depicts the AADTs for each of the model years with and without including the FCE as a toll road. Also shown is the percentage change associated with the changes in travel patterns due to the FCE construction. The percentage change in volume associated with the FCE construction ranged from a 16.5% increase to a 57.1% decrease in 2030, and from a 36.2% increase to a 53.9% decrease in 2045. The increases in traffic are generally on roadways feeding the FCE and the decreases are on sections of SR-13, SR-16 and CR-16A that were bypassed by traffic using the FCE with the first interchange in St. Johns County being at Longleaf Pine Parkway and those roads parallel to the FCE. Figure 2-1, Figure 2-2, Figure 2-3 and Figure 2-4 are heat maps showing the percentage volume change on roadways in the study area for the years 2030, 2035, 2040 and 2045.

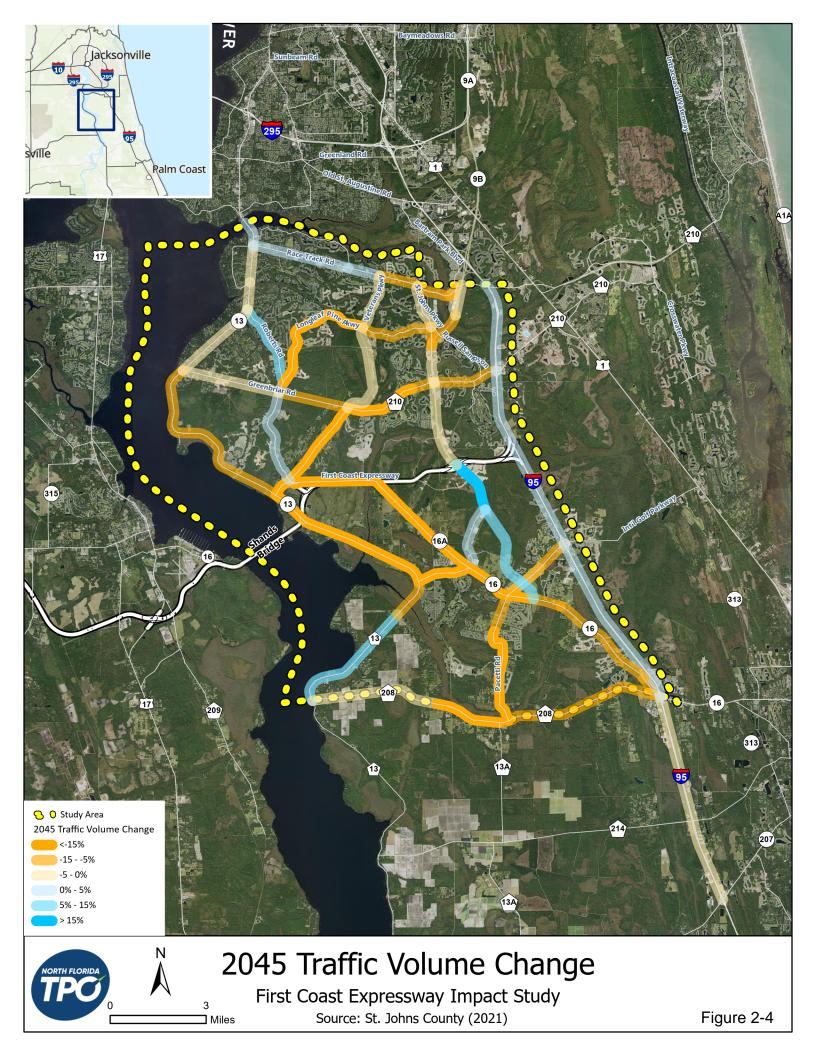
TABLE 2-1 - Future Traffic Volume Comparison

Link ID Roadway Segment Without FCE With FCE Without FCE With F					0 Daily Volum			35 Daily Volum			40 Daily Volum		2045 Daily Volumes		
17.1 CR-13	Link ID	Roadway	Segment										Without FCE	With FCE	Change
172						. ,							(vpd)	(vpd)	(%)
21.1 OR-19A													3,984	4,218	5.9%
23.1 CR-16A Samula Lake Penkway to SR-16 9.144 9.427 2.947 10.474 10.896 4.074 10.896 3.595 3.595 3.217 3.702 2.305 3.717 3.602 2.797 2.2575 3.002 2.703 2.203 3.717 3.602 2.797 2.2575 3.002 2.303 3.717 3.602 2.797 2.2575 3.002 2.303 3.717 3.602 2.797 2.2575 3.002 2.303 3.717 3.602 2.797 2.2575 3.002 2.002 3.002													7,308	6,505	-11.0%
23.1 CR-16A SR-13b CR-210 Low McGuire Road 3, 442 2, 1616 37.2% 37.0% 37.0% 37.1% 36.2 2,737 22.8% 30 CR-200 GR-13b Low Ashthin Road 831 817 1.7% 890 1984 0.4% 539 943 0.7% 31 CR-200 GR-13b Low Ashthin Road 1.700 1.100 37.0% 37.0% 37.1% 39.00 1984 0.4% 539 943 0.7% 31 CR-200 60 Low Ashthin Road CR-13A 1.700 1.100 37.0% 37.0% 37.0% 37.1% 39.00 1984 0.4% 539 943 0.7% 31 CR-200 60 Low Ashthin Road CR-13A 1.700 1.100 37.0% 37.0% 37.0% 37.1% 39.00 1984 0.4% 539 943 0.7% 31.0% 37.0													3,907	2,508	-35.8%
23.2 CR-16A													12,965	12,229	-5.7%
Section CR-208													19,946	12,412	-37.8%
31 CR-208 Jose Ashton Road to CR-13A 1,766 1,102 37,8% 2,271 1,888 -16,9% 2,070 1,555 1,04% 32 CR-208 CR-13A to SR-14 CR-13A to Greenbriar Road 12,440 8,874 30,7% 13,746 10,182 25,5% 13,826 10,244 22,69% 33,176 30,7% 1,765													5,396	3,648	-32.4%
32 CR-208													1,030	1,014	-1.6%
33 CR-210 CR-16A to Greenbriar Road 12,049 8,074 30,7% 13,746 10,182 25,99% 13,828 10,244 25,99% 34,22 CR-210 Creenbriar Road Creambriar Road 25,982 21,711 13,456 10,182 27,892 23,299 14,174 28,167 24,141 41,343 43,350 CR-220 CR-220 (SI Johns Parkway) 10,149 31,324 29,370 -9,576 35,022 31,704 9,576 35,502 33,197 7.5% 34,335 CR-220 CR-220 (SI Johns Parkway) CR-22													3,012	2,249	-25.3%
34.1 CR-210													4,545	4,147	-8.8%
34.3.35 CR-210 Cimarance Boulevard to CR-2209 (SI Johns Parkway) 31,312 29,970 49,5% 35,002 31,704 49,5% 35,902 33,197 7-7,5% 64 Greenbriar Road SR-13 to Longleal Pine Parkway to CR-210 49,57 8,820 4-6,5% 3,845 3,801 1-1,1% 3,479 34,221 1-1,1% 34,245 34,241 34,2					- , -		- , -						14,999	11,503 25,469	-23.3% -16.5%
34.3.5 CR-210 CR-2209 (SL Johns Parkway) to I-95 31.824 29.249 -8.179 37.300 34.231 -7.981 36.797 34.241 -6.991 -6.991 -6.391													30,520 37,380	33,725	-16.5% -9.8%
65 Greenbriar Road SR-13 to Longleaf Pine Parkway to 19.457 8.260 3.061 -1.11% 3.457 3.420 -1.11% 5.65 -1.95% 7.31 International Golf Parkway to 19.65 3.6588 37.263 -2.26 23.866 22.584 -5.276 23.773 -0.45% 7.32 International Golf Parkway to 19.65 3.65.88 37.263 -2.276 23.866 22.584 -5.276 23.773 -0.45% 7.32 International Golf Parkway to 19.65 3.65.88 37.263 -3.276 23.876 23.773 -0.45% 7.32 International Golf Parkway to 19.65 3.65.88 37.263 -3.276 23.876 23.773 -0.45% 7.74 Rozo Track Road SR-13 to Bishop Estates Road to Veterans Parkway to 19.65 -7.763 -7.73 Rozo Track Road Veterans Parkway to 19.67 -7.73 -7.73 -7.73 -7.73 -7.73 -7.73 -7.73 -7.73 -7.73 -7.73 -7.73 -7.73 -7.74 -7.74 Rozo Track Road Veterans Parkway to 19.75 -7.74 -7.75 -7.7													41,674	38,320	-9.8% -8.0%
6 Gienchiar Road Gienchiar Road SR-16 Grawway CR-210 SR-15 SR-15 Greenbiar Road SR-15 Greenbiar Roa													4,533	4,494	-0.0%
73.2 International Golf Parkway													11,167	10,583	-5.2%
73.2 International Colf Parkway Toyle Prince Parkway to 1-95 38,888 37,283 3.4 % 41,881 39,888 44,070 42,182 4.3 % 76 Race Track Road SR-13 to Bishop Estates Road to 4 certans Parkway 27,450 27,643 0.7 % 30,767 31,030 0.9% 31,128 31,487 1.2% 77.2 Race Track Road Veterans Parkway to Veterans Parkway 27,450 27,643 0.7 % 30,767 31,030 0.9% 31,128 31,487 1.2% 77.3 Race Track Road CR2209 (St.Johns Parkway) to West Peyton Parkway to Excellent Parkway to West Peyton Parkway to St. 1													25,798	24,546	-4.9%
77.1 Race Track Road Silhop Estates Silhop Estates Road		,	,										47,537	44,391	-6.6%
77.1 Race Track Road Bilshop Estates Road to Veterans Parkway 27.450 27.643 30.767 31.030 0.9% 31.128 31.487 1.2% 77.3 Race Track Road Veterans Parkway to R2209 (St Johns Parkway) 27.450 27.793		,											34,107	34,897	2.3%
77.2 Race Track Road Veterans Parkway to CR-2209 (St. Johns Parkway) 27.733 27.212 2.1% 31.018 29.740 4.19% 31.496 30.890 1.9% 1.9													35,580	36,467	2.5%
77.4 Race Track Road (R2209 (St Johns Parkway to West Peyton Parkway to SR-13 Race Track Road West Peyton Parkway to SR-13 11,000 11,00							-						35,297	33,471	-5.2%
77.4 Race Track Road West Peyton Parkway to Bartam Park Boulevard 11,142 11,860 -1,3% 13,931 13,290 -4,6% 13,045 12,791 -1,9% Roberts Road Longleaf Pine Parkway to SR-13 11,162 11,180 -5,48 13,045 -5,28 20,140 -9,143 -5,48% -5,28% -2,140 -9,143 -5,48% -5,28% -2,140 -9,143 -5,48% -2,148 -5,28% -2,140 -9,143 -5,48% -2,148 -5,28% -2,140 -9,143 -5,48% -2,148 -2,													28,181	26,674	-5.3%
Roberts Road													17,258	16,133	-6.5%
81 SR-13 (6 (East) to SR_16 (West) to SR_16 (West) to SR_16 (West) to SR_16 (West) to SR_18 15,22e (West) to SR_18 15,22e (West) to SR_18 21,183 38,18 SR_18 SR_18 SR_18 CR-16A to Greenbriar Road 5,409 4,969 -16,99k 6,237 4,961 -20,59k 5,855 5,119k -11,41k 85 SR_13 CR-16A to Greenbriar Road 13,713 12,954 -5,59k 14,957 14,891 -1,09k 46,576 48,203 -3,47k 85 SR.13 Roberts Road to Roberts Road 39,785 44,057 14,897 11,99k 46,576 46,200 -3,4% 86 SR.13 Roberts Road to CR-138 (Fruit Cove Road S.) 42,035 41,256 1.77% 41,455 41,257 -1,99k 46,576 46,200 -9,8% 88 SR.13 Race Track Road to Doubal County Lind 58,478 40,455 1,77% 41,455 41,257 -1,99k 43,396 43,491 0.0% 91.1 SR.16 DR.16 DR.16 14,973 92,20 38,086 14,913													13,555	14,244	5.1%
82 SR-13 SR-16 (West) to CR16A 21,183 9,087 -57.1% 21,748 9,558 -56.1% 21,721 10,613 5.11% 83 SR-13 Greenbriar Road to Roberts Road 13,713 12,954 -5.5% 14,967 14,699 -1,7% 15,141 14,623 -3.4% 85 SR-13 Roberts Road to CR-138 (Fruit Cove Road S.) to Race Track Road 39,785 40,455 1.7% 45,823 44,957 -1.9% 46,576 46,509 86 SR-13 CR-13B (Fruit Cove Road S.) to Race Track Road 39,785 40,455 1.7% 41,455 -1.27% 44,977 -1.9% 46,576 46,203 0.9% 88 SR-13 CR-16A to International Golf Parkway 30,282 23,908 0.9% 65,516 62,943 -3,9% 65,772 66,283 0.9% 91.1 SR-16 CR-16A to International Golf Parkway 30,428 23,033 -24,3% 33,405 25,755 -22,9% 35,500 26,795 -24,7% 19,152 58,216 19,				, .									21,960	10,399	-52.6%
83 SR-13 CR-16A to Greenbriar Road 5,409 4,496 -16.9% 6,237 4,961 -20.5% 5,555 5,190 -11.4% 84 SR-13 Greenbriar Road to Roberts Road 13,713 12,954 -5.5% 14,957 -1.9% 46,576 46,200 -0.8% 86 SR-13 CR-13B (Fruit Cove Road S.) to Race Track Road 39,785 40,455 1.7% 41,455 41,277 -0.4% 43,496 43,491 0.0% 88 SR-13 Robert Frack Road to Duval County Line 58,474 58,982 0.9% 65,516 62,943 -3.9% 65,772 66,283 0.9% 90 SR-16 SR-13 to CR-16A 14,973 9,287 -38,0% 14,913 9,920 -33,5% 16,399 9,866 -39,7% 91.1 SR-16 CR-16A to International Golf Parkway 30,428 23,033 33,405 21,95 52,99 35,580 26,795 -24,7% 92.1 SR-16 International Golf Parkway to CR-2209 25,167 19													24,333	11,219	-53.9%
84 SR-13 Greenbriar Road to Roberts Road 13,713 12,954 -5.5% 14,957 14,699 1.7% 15,141 14,623 -3.4% 85 SR-13 Roberts Road to CR-13B (Fruit Cove Road S.) to Race Track Road 39,785 40,455 1.7% 41,455 41,277 -0.4% 43,496 46,200 -0.9% 88 SR-13 Race Track Road to Duval County Line 58,474 58,982 0.9% 65,516 62,943 -3.9% 65,772 66,283 0.9% 91.1 SR-16 SR-13 to CR-16A 14,973 9,287 -38,0% 14,913 9,20 -33,5% 16,399 9,986 -39,7% 91.2 SR-16 CR-16A to International Golf Parkway to CR-2209 25,167 19,152 22.9% 33,405 25,755 -22,9% 35,580 26,795 -24,5% 92.11 SR-16 CR-2209 to South Frances Road 31,046 26,642 -14.2% 35,205 30,688 -13.1% 36,784 31,999 -13.0% 92.12 SR-16													7,537	7,013	-7.0%
86 SR-13 CR-13B (Fruir Cove Road S.) to Race Track Road 39,785 40,455 1,7% 41,455 41,277 -0.4% 43,466 43,491 0.0% 88 SR-13 Race Track Road to Duval County Line 58,474 58,982 0.9% 65,516 62,943 -3.9% 65,772 96,283 0.38% 91.1 SR-16 CR-16A to International Golf Parkway to CR-2209 25,167 19,152 2.39% 27,913 21,939 22,14% 29,785 -22,9% 35,580 26,795 -24,7% 92.12 SR-16 CR-209 to South Frances Road 31,046 26,642 -14,2% 35,205 30,608 -13,1% 36,784 31,999 -13,0% 92.12 SR-16 South Frances Road to West Mall Entrance to 1-95 40,758 39,214 -3,8% 40,464 42,268 -9,0% 52,673 31,376 40,758 39,214 -3,8% 40,464 42,268 -9,0% 52,673 34,251 -15,0% 30,601 -15,1% 37,714 31,976 40,758 39,													16,553	16,372	-1.1%
86 SR-13 CR-138 (Fruir Cove Road S.) to Race Track Road 39,785 40,455 1,7% 41,455 41,277 -0.4% 43,486 43,491 0.0% 90 SR-16 SR-13 to CR-16A 14,973 9,287 -38,0% 14,913 9,920 -33,5% 16,399 9,986 -38,7% 91.1 SR-16 CR-16A to International Golf Parkway to CR-2209 25,167 19,152 23,9% 27,913 21,930 -21,29% 35,580 26,795 -24,7% 92.12 SR-16 CR-209 to South Frances Road 31,046 26,642 -14,2% 35,205 30,688 -13,1% 36,784 31,999 -13,0% 92.12 SR-16 Scuth Frances Road to West Mall Entrance 31,070 26,149 -15,8% 36,099 30,631 -15,1% 37,744 -12,2% 92.2 SR-16 West Mall Entrance to 1-95 40,758 39,214 -3,8% 46,446 42,268 -9,0% 52,673 44,251 -15,0% 130 I-95 SR-210 to SR-16	85 5	SR-13	Roberts Road to CR-13B (Fruit Cove Road S.)	42,035	41,326	-1.7%	45,823	44,957	-1.9%	46,576	46,200	-0.8%	48,861	47,700	-2.4%
9.0 SR-16 SR-15 to CR-16A (14.973 9.287 -38.0% 14.913 9.20 -33.5% 16.399 9.896 -39.7% 91.1 SR-16 CR-16A to International Golf Parkway 10.428 23.033 -24.3% 33.405 25.755 -22.9% 35.580 26.795 -24.7% 91.2 SR-16 International Golf Parkway to CR-2209 25.167 19.152 -23.9% 27.913 21.930 21.930 21.980 22.485 -24.5% 92.11 SR-16 CR-2209 to South Frances Road 31.046 26.642 -14.2% 35.205 30.608 -13.1% 36.784 31.999 -13.0% 92.2 SR-16 South Frances Road to West Mall Entrance 19.50 40.758 39.214 -38.8% 46.446 42.268 -9.0% 52.673 44.251 -16.0% 13.0 l-95 SR-207 to SR-16 Section 19.50 19	86 5	SR-13							-0.4%				50,007	49,908	-0.2%
90 SR-16 SR-13 to CR-16A SR-13 to CR-16A SR-13 to CR-16A CR-16A to International Golf Parkway 30,428 23,033 -24,3% 33,405 25,755 -22,9% 35,580 26,795 -24.7% 91.2 SR-16 International Golf Parkway to CR-2209 25,167 19,152 -23,9% 27,913 21,930 -21,4% 29,782 22,485 -24,5% 92.11 SR-16 CR-2209 to South Frances Road 31,046 26,642 -14,2% 35,205 30,608 -13,1% 36,784 31,999 -13,0% 92.2 SR-16 South Frances Road to West Mall Entrance 131,070 26,149 -15,8% 36,069 30,631 -15,1% 37,714 31,976 -15,2% 92.2 SR-16 West Mall Entrance to 1-95 40,758 39,214 -3,8% 46,446 42,268 -9,0% 52,673 44,251 -16,0% 131 1-95 SR-16 to International Golf Parkway by 48,26 98,447 3.8% 99,815 103,780 4.0% 108,373 112,128 3.5% 132 1-95 International Golf Parkway to FCE 118,047 122,832 4.1% 126,031 130,064 3.2% 135,553 141,026 4.0% 133 1-95 CR-210 to Duval County Line 130,016 137,184 5.5% 142,550 150,481 5.6% 150,404 158,136 5.1% Longleaf Pine Parkway GR-210 to Greenbriar Road S,065 8,221 1.9% 11,062 10,819 -2.2% 9,220 9,292 0.8% 153.1 Longleaf Pine Parkway Greenbriar Road Greenbriar Road Greenbriar Road Greenbriar Road to Veterans Parkway SR-16/CR-210 to Greenbriar Road 9,501 9,157 -3,6% 12,206 11,667 -4,4% 12,634 10,778 14,634 170 Silverleaf Parkway Greenbriar Road to Veterans Parkway Greenbriar Road to South France Greenbriar Road 19,501 9,157 -3,6% 12,206 11,667 -4,4% 12,634 10,778 14,054 11,052 11,052 11,052 11,052 11,052 11,055 11,054 11,052 11,052 11,052 11,052 11,052 11,052 11,052 11,055 11,054 11,052 11,052 11,052 11,052 11,052 11,055 11,054 11,052 11,052 11,052 11,055 11,054 11,052 11,052 11,055 11,054 11,052 11,052 11,055 11,054 11,055 11,054 11,055 11,054 11,055 11,054 11,055 11,054 11,055 11,054 11,055 11,054 11,055 11,054 11,055 11,054 11,055 11,054 11,055 11,054 11,055 11,054 11,055 11,054 11,055 11,054 11,055 11,054 11,055 11,054 11,055 11,055 11,054 11,055 11,055 11,054 11,055 11,055 11,055 11,054 11,055 11,054 11,055 11,055 11,055 11,054 11,055 11,054 11,055 11,055 11,055 11,054 11,055 11,055 11,055 11,055 11,055 11,055 11,055 11,055	88 5	SR-13	Race Track Road to Duval County Line	58,474	58,982	0.9%	65,516	62,943	-3.9%	65,772	66,283	0.8%	69,545	69,927	0.5%
91.2 SR-16 International Golf Parkway to CR-2209 25,167 19,152 -23.9% 27,913 21,930 -21.4% 29,782 22,485 -24.5% 92.12 SR-16 CR-2209 to South Frances Road 31,046 26,642 -14.2% 35,205 30,608 -13.1% 36,784 31,999 -13.0% 92.12 SR-16 South Frances Road to West Mall Entrance 31,070 26,149 -15.8% 36,069 30,631 -15.1% 37,714 31,996 -15.2% 92.2 SR-16 West Mall Entrance to I-95 40,758 39,214 -3.8% 46,446 42,268 -9.0% 52,673 44,251 -16.0% 130 I-95 SR-207 to SR-16 69,523 69,353 -0.2% 74,990 74,716 -0.4% 81,721 81,351 -0.5% 132 I-95 International Golf Parkway 94,826 98,447 3.8% 99,815 103,780 4.0% 108,373 112,128 3.5% 132 I-95 International Golf Parkway to FCE 118,047 122,832 4.1% 126,031 130,064 3.2% 135,553 141,026 4.0% 133,133 I-95 CR-210 to Duval County Line 130,016 137,184 5.5% 142,550 150,481 5.6% 150,404 158,136 5.1% Longleaf Pine Parkway FCE to CR-210 0 13,059 0 16,048 0 18,044 153.1 Longleaf Pine Parkway Greenbriar Road 9,501 9,157 -3.6% 12,206 11,667 -4.4% 12,634 10,778 14.7% 155,156 Longleaf Pine Parkway Roberts Road 9,501 9,157 -3.6% 12,206 11,667 -4.4% 12,634 10,778 14.7% 17,786 17,2% 17	90 8	SR-16	SR-13 to CR-16A	14,973	9,287	-38.0%	14,913	9,920	-33.5%	16,399	9,896	-39.7%	17,828	11,859	-33.5%
92.11 SR-16 CR-2209 to South France's Road 31,046 26,642 -14.2% 35,205 30,608 -13.1% 36,784 31,999 -13.0% 92.12 SR-16 South France's Road to West Mall Entrance 1.95 40,758 39,214 -15.8% 36,069 30,631 -15.1% 37,714 31,976 -15.2% 40,758 39,214 -3.8% 46,446 42,268 -9.0% 52,673 44,251 -16.0% 130 l-95 SR-207 to SR-16 69,523 69,353 -0.2% 74,990 74,716 -0.4% 81,721 81,351 -0.5% 131 l-95 SR-16 to International Golf Parkway 94,826 98,447 3.8% 99,815 103,780 4.0% 108,373 112,128 3.5% 132 l-95 International Golf Parkway to FCE 118,047 122,832 4.1% 126,031 130,064 3.2% 135,553 141,026 4.0% 133 l-95 CR-210 to Duval County Line 130,016 137,184 5.5% 142,550 150,481 5.6% 150,404 158,136 5.1% Longleaf Pine Parkway FCE to CR-210 to Greenbriar Road 8,065 8,221 1.9% 11,062 10,819 -2.2% 9,220 9,292 0.8% 153,2 Longleaf Pine Parkway Greenbriar Road to Veterans Parkway to FCE Longleaf Pine Parkway SR-16 kOst-2ros Parkway SR-16 k	91.1	SR-16	CR-16A to International Golf Parkway	30,428	23,033	-24.3%	33,405	25,755	-22.9%	35,580	26,795	-24.7%	37,870	28,653	-24.3%
92.12 SR-16 South Frances Road to West Mall Entrance 31,070 26,149 -15.8% 36,069 30,631 -15.1% 37,714 31,976 -15.2% 92.2 SR-16 West Mall Entrance to 1-95 40,758 39,214 -3.8% 46,446 42,288 -9.0% 52,673 44,251 -16.0% 130 1-95 SR-16 to International Golf Parkway 94,826 98,437 3.8% 99,815 103,780 4.0% 108,373 112,128 3.5% 131 1-95 International Golf Parkway to FCE 118,047 122,832 4.1% 126,031 130,064 3.2% 135,553 141,026 4.0% 133 1-95 CR-210 to Duval County Line 130,016 137,184 5.5% 142,550 150,481 5.6% 150,404 158,136 5.1% International Golf Parkway 155.1 Longleaf Pine Parkway Greenbriar Road 8,065 8,221 1.9% 11,062 10,819 -2.2% 9,220 0.8% 153.2 Longleaf Pine Parkway Greenbriar Road 9,501 9,157 -3.6% 12,206 11,667 -4.4% 12,634 10,778 -14.7% 154 Longleaf Pine Parkway Greenbriar Road 9,501 9,157 -3.6% 12,206 11,667 -4.4% 12,634 10,778 -14.7% 155,156 Longleaf Pine Parkway Veterans Parkway 158.140 CR-210 KCR-210	91.2	SR-16	International Golf Parkway to CR-2209	25,167	19,152	-23.9%	27,913	21,930	-21.4%	29,782	22,485	-24.5%	32,254	24,942	-22.7%
92.2 SR-16 West Mall Entrance to I-95 40,758 39,214 -3.8% 46,446 42,268 -9.0% 52,673 44,251 -16.0% 130 I+95 SR-207 to SR-16 69,523 69,353 -0.2% 74,990 74,716 -0.4% 81,721 81,351 -0.5% 69,523 69,353 -0.2% 74,990 74,716 -0.4% 81,721 81,351 -0.5% 131 I+95 SR-16 to International Golf Parkway 94,826 98,447 3.8% 99,815 103,780 4.0% 108,373 112,128 3.5% 132 I+95 International Golf Parkway to FCE 1118,047 122,832 4.1% 126,031 130,064 3.2% 135,553 141,026 4.0% 132 I+95 FCE to CR-210 118,047 127,665 8.1% 126,031 130,064 3.2% 135,553 146,345 8.0% 133 I+95 FCE to CR-210 130,016 137,184 5.5% 142,550 150,481 5.6% 150,404 158,136 5.1% 150,404 158	92.11	SR-16	CR-2209 to South Frances Road	31,046	26,642	-14.2%	35,205	30,608	-13.1%	36,784	31,999	-13.0%	41,465	35,962	-13.3%
130 1-95 SR-207 to SR-16 69,523 69,353 -0.2% 74,990 74,716 -0.4% 81,721 81,351 -0.5% 131 1-95 SR-16 to International Golf Parkway to FCE 118,047 122,832 4.1% 126,031 130,064 3.2% 135,553 141,026 4.0% 132 1-95 FCE to CR-210 118,047 127,665 8.1% 126,031 137,673 9.2% 135,553 141,026 4.0% 133 1-95 CR-210 to Duval County Line 130,016 137,184 5.5% 142,550 150,481 5.6% 150,404 158,136 5.1% 153.1 Longleaf Pine Parkway FCE to CR-16A/CR-210 to Greenbriar Road 8,065 8,221 1.9% 11,062 10,819 -2.2% 9,220 9,292 0.8% 153.2 Longleaf Pine Parkway Greenbriar Road 9,501 9,157 -3.6% 12,206 11,667 -4.4% 12,634 10,778 -14,7% 154 Longleaf Pine Parkway Veterans Parkway Veterans Parkway to CR-2209 (St Johns Parkway) 18,131 17,630 -2.2% 2.1,226 11,867 -4.4% 12,634 10,778 -14,7% 155,156 Longleaf Pine Parkway SR-16/CR-16A to St Johns Parkway 11,556 12,298 5.4% 13,253 13,998 5.6% 6,707 6,968 3.9% St Johns Parkway SItorna Parkway to CR-2200 17,953 16,274 -9.4% 23,421 21,628 -7.7% 22,252 20,270 -8.9% 157 St Johns Parkway SR-9B to Longleaf Pine Parkway SR-9B to	92.12	SR-16	South Frances Road to West Mall Entrance	31,070	26,149	-15.8%	36,069	30,631	-15.1%	37,714	31,976	-15.2%	42,855	36,834	-14.0%
131 I-95 SR-16 to International Golf Parkway 94,826 98,447 3.8% 99,815 103,780 4.0% 108,373 112,128 3.5% 132 I-95 International Golf Parkway to FCE 118,047 122,632 4.1% 126,031 130,064 3.2% 135,553 141,026 4.0% 132,132 I-95 FCE to CR-210 118,047 127,665 8.1% 126,031 137,673 9.2% 135,553 146,345 8.0% 133 I-95 CR-210 to Duval County Line 130,016 137,184 5.5% 142,550 150,481 5.6% 150,404 158,136 5.1% 153.1 Longleaf Pine Parkway FCE to CR-210 to Greenbriar Road 8,065 8,221 1.9% 11,062 10,819 -2.2% 9,220 9,292 0.8% 153.2 Longleaf Pine Parkway Greenbriar Road 9,501 9,157 -3.6% 12,206 11,667 -4.4% 12,634 10,778 -14.7% 154 Longleaf Pine Parkway Roberts Road to Veterans Parkway 6,136 5,050 -17.7% 8,718 7,219 -17.2% 7,643 6,728 -12.0% 155,156 Longleaf Pine Parkway Veterans Parkway to CR-2209 (St Johns Parkway) 18,131 17,630 -2.8% 21,822 20,512 -6.0% 21,100 20,382 -3.4% 170 Silverleaf Parkway SR-16/CR-16A to St Johns Parkway 11,556 12,298 6.4% 13,253 13,998 5.6% 13,636 15,293 12,2% St Johns Parkway SR-16 to International Golf Parkway to Silverleaf Parkway to FCE 11,055 12,284 16,5% 12,348 15,169 22.8% 12,339 15,794 28.0% 171,23 St Johns Parkway Silverleaf Parkway to FCE 11,055 12,287 16,574 -9.4% 23,421 21,628 -7.7% 22,252 20,270 -8.9% 158 St Johns Parkway SR-9B to Longleaf Pine Parkway 21,101 20,851 -1.2% 24,693 23,260 -5.8% 24,770 23,884 -3.6% 158 St Johns Parkway SR-9B to Longleaf Pine Parkway 21,101 20,851 -1.2% 24,693 23,260 -5.8% 24,770 23,884 -3.6% 158 30,000 38,005 -3.6% 24,070 24,005 24,005 24,005 24,005 24,005 24,005 24,005 24,005 24,005 24,005													56,011	50,224	-10.3%
132 1-95 International Golf Parkway to FCE 118,047 122,832 4.1% 126,031 130,064 3.2% 135,553 141,026 4.0% 132 1-95 FCE to CR-210 118,047 127,665 8.1% 126,031 137,673 9.2% 135,553 146,345 8.0% 130,016 137,184 5.5% 142,550 150,481 5.6% 150,404 158,136 5.1% 153.1 Longleaf Pine Parkway FCE to CR-16A/CR-210 0 13,059 0 16,048 0 18,084 153.2 Longleaf Pine Parkway Greenbriar Road 8,065 8,221 1.9% 11,062 10,819 -2.2% 9,220 9,292 0.8% 153.2 Longleaf Pine Parkway Roberts Road 0 Veterans Parkway 6,136 5,050 -17,7% 8,718 7,219 -17,2% 7,643 6,728 -12,0% 155,156 Longleaf Pine Parkway Veterans Parkway 0,136 5,050 -17,7% 8,718 7,219 -17,2% -6.0% 21,100 20,382 -3.4% 170 Silverleaf Parkway SR-16 to International Golf Parkway 11,556 12,298 6.4% 13,253 13,998 5.6% 13,636 15,293 12,2% St Johns Parkway International Golf Parkway to Silverleaf Parkway SIlverleaf Parkway FCE to CR-210 17,953 16,274 -9.4% 23,421 21,628 -7.7% 22,252 20,270 -8.9% 158 St Johns Parkway CR-210 to SR-9B 35,767 33,970 5.0% 38,886 36,974 -4.99 39,607 38,025 -4.0% 158 St Johns Parkway CR-210 to SR-9B 35,767 33,970 5.0% 38,886 36,974 -4.99 39,607 38,025 -4.0% 158 St Johns Parkway SR-9B to Longleaf Pine Parkway 21,101 20,851 -1.2% 24,693 23,260 -5.8% 24,770 23,884 -3.6% -3.			SR-207 to SR-16	69,523		-0.2%	74,990				81,351	-0.5%	86,211	86,154	-0.1%
132 1-95 FCE to CR-210 118,047 127,665 8.1% 126,031 137,673 9.2% 135,553 146,345 8.0% CR-210 to Duval County Line 130,016 137,184 5.5% 142,550 150,481 5.6% 150,404 158,136 5.1% 153.1 Longleaf Pine Parkway CR-16A/CR-210 to Greenbriar Road 8,065 8,221 1.9% 11,062 10,819 -2.2% 9,220 9,292 0.8% 153.2 Longleaf Pine Parkway Greenbriar Road to Roberts Road 9,501 9,157 -3.6% 12,206 11,667 -4.4% 12,634 10,778 -14.7% 154 Longleaf Pine Parkway Roberts Road to Veterans Parkway 6,136 5,050 -17.7% 8,718 7,219 -17.2% 7,643 6,728 -12.0% 155,156 Longleaf Pine Parkway Veterans Parkway to CR-2209 (St Johns Parkway) 18,131 17,630 -2.8% 21,822 20,512 -6.0% 21,100 20,382 -3.4% 170 Silverleaf Parkway SR-16/CR-16A to St Johns Parkway 11,556 12,298 51,40hns Parkway SR-16 to International Golf Parkway to Silverleaf Parkway international Golf Parkway international Go													107,156	111,897	4.4%
133 I-95 CR-210 to Duval County Line 130,016 137,184 5.5% 142,550 150,481 5.6% 150,404 158,136 5.1% FCE to CR-16A/CR-210 0 13,059 0 16,048 0 18,084 153.1 Longleaf Pine Parkway CR-210 to Greenbriar Road 8,065 8,221 1.9% 11,062 10,819 -2.2% 9,292 0.8% 153.2 Longleaf Pine Parkway Greenbriar Road to Roberts Road 9,501 9,157 -3.6% 12,206 11,667 -4.4% 12,634 10,778 -14.7% 154 Longleaf Pine Parkway Roberts Road to Veterans Parkway 6,136 5,050 -17.7% 8,718 7,219 -17.2% 7,643 6,728 -12.0% 155,156 Longleaf Pine Parkway Veterans Parkway to CR-2209 (St Johns Parkway) 18,131 17,630 -2.8% 21,822 20,512 -6.0% 21,100 20,382 -3.4% 17.0 Silverleaf Parkway SR-16/CR-16A to St Johns Parkway 11,556 12,298 6.4% 13,253 13,998 5.6% 13,636 15,293 12,2% St Johns Parkway International Golf Parkway to Silverleaf Parkway to Si													139,609	144,689	3.6%
Longleaf Pine Parkway													139,609	153,318	9.8%
153.1 Longleaf Pine Parkway CR-16A/CR-210 to Greenbriar Road 8,065 8,221 1.9% 11,062 10,819 -2.2% 9,220 9,292 0.8% 153.2 Longleaf Pine Parkway Greenbriar Road to Roberts Road 9,501 9,157 -3.6% 12,206 11,667 -4.4% 12,634 10,778 -14.7% 154. Longleaf Pine Parkway Roberts Road to Veterans Parkway 6,136 5,050 -17.7% 8,718 7,219 -17.2% 7,643 6,728 -12.0% 155, 156 Longleaf Pine Parkway Veterans Parkway to CR-2209 (St Johns Parkway) 18,131 17,630 -2.8% 21,822 20,512 -6.0% 21,100 20,382 -3.4% 170 Silverleaf Parkway SR-16 to International Golf Parkway 11,556 12,298 6.4% 13,253 13,998 5.6% 6,707 6,968 3.9% St Johns Parkway International Golf Parkway to Silverleaf Parkway 3,905 3,840 -1.7% 4,689 4,731 0,9% 4,886 5,370 9,9% 171.2 St Johns Parkway Silverleaf Parkway to FCE 11,055 12,874 16.5% 12,348 15,169 22.8% 12,339 15,794 28.0% 171.3 St Johns Parkway CR-210 to SR-9B 35,767 33,970 -5.0% 38,886 36,974 -4.9% 39,607 38,025 -4.0% 158 St Johns Parkway SR-9B to Longleaf Pine Parkway 21,101 20,851 -1.2% 24,693 23,260 -5.8% 24,770 23,884 -3.6%						5.5%	142,550		5.6%	150,404		5.1%	162,351	169,507	4.4%
153.2 Longleaf Pine Parkway Greenbriar Road to Roberts Road 9,501 9,157 -3.6% 12,206 11,667 -4.4% 12,634 10,778 -14.7% Roberts Road to Veterans Parkway 6,136 5,050 -17.7% 8,718 7,219 -17.2% 7,643 6,728 -12.0% 17,000				· · · · · ·			0			0				21,777	
154 Longleaf Pine Parkway Roberts Road to Veterans Parkway 6,136 5,050 -17.7% 8,718 7,219 -17.2% 7,643 6,728 -12.0% 155, 156 Longleaf Pine Parkway Veterans Parkway to CR-2209 (St Johns Parkway) 18,131 17,630 -2.8% 21,822 20,512 -6.0% 21,100 20,382 -3.4% 170 Silverleaf Parkway SR-16/CR-16A to St Johns Parkway 6,614 6,548 -1.0% 6,423 6,847 6.6% 6,707 6,968 3.9% 18 St Johns Parkway SR-16/CR-16A to St Johns Parkway 11,556 12,298 6.4% 13,253 13,998 5.6% 13,636 15,293 12,2% 17 St Johns Parkway SR-16/CR-16A to St Johns Parkway to Silverleaf Parkway to													12,620	12,631	0.1%
155, 156 Longleaf Pine Parkway Veterans Parkway to CR-2209 (St Johns Parkway) 19,131 17,630 -2.8% 21,822 20,512 -6.0% 21,100 20,382 -3.4% Silverleaf Parkway SR-16/CR-16A to St Johns Parkway 66,614 6,648 -1.0% 6,423 6,847 6.6% 6,707 6,968 3.9% St Johns Parkway St Johns Parkway International Golf Parkway to Silverleaf Parkway international Golf Parkway to Silverleaf Parkway to Silverleaf Parkway to FCE 11,055 12,874 16.5% 12,348 15,169 22.8% 12,339 15,794 28.0% 171.3 St Johns Parkway FCE to CR-210 17,953 16,274 9.4% 23,421 21,628 -7.7% 22,252 20,270 -8.9% 158 St Johns Parkway SR-9B to Longleaf Pine Parkway 21,101 20,851 -1.2% 24,693 23,260 -5.8% 24,770 23,884 -3.6%		,											14,708	14,404	-2.1%
170 Silverleaf Parkway SR-16/CR-16A to St Johns Parkway SR-16/CR-16A to St Johns Parkway SR-16 to International Golf Parkway 11,556 12,298 6.4% 13,253 13,998 5.6% 13,636 15,293 12,2% 171.2 St Johns Parkway Silverleaf Parkway to FCE to CR-210 17,953 16,274 16.5% 12,348 15,169 22.8% 12,339 15,794 28.0% 157 St Johns Parkway CR-210 to SR-9B 35,767 33,970 5.0% 38,886 36,974 -4.9% 39,607 38,025 -4.0% 158 St Johns Parkway SR-9B to Longleaf Pine Parkway 21,101 20,851 -1.2% 24,693 23,260 -5.8% 24,770 23,884 -3.6% -3	-			-,	- 7								11,533	9,707	-15.8%
St Johns Parkway SR-16 to International Golf Parkway 11,556 12,298 6.4% 13,253 13,998 5.6% 13,636 15,293 12.2% St Johns Parkway International Golf Parkway to Silverleaf Parkway to FCE 11,055 12,874 16.5% 12,348 15,169 22.8% 12,339 15,794 28.0% 171.3 St Johns Parkway FCE to CR-210 17,953 16,274 -9.4% 23,421 21,628 -7.7% 22,252 20,270 -8.9% 157 St Johns Parkway CR-210 to SR-9B 35,767 33,970 -5.0% 38,886 36,974 -4.9% 39,607 38,025 -4.0% 158 St Johns Parkway SR-9B to Longleaf Pine Parkway 21,101 20,851 -1.2% 24,693 23,260 -5.8% 24,770 23,884 -3.6%													25,395	23,625	-7.0%
St Johns Parkway International Golf Parkway to Silverleaf Parkway 3,905 3,840 -1.7% 4,689 4,731 0.9% 4,886 5,370 9.9% 171.2 St Johns Parkway Silverleaf Parkway to FCE 511,055 12,874 16.5% 12,348 15,169 22.8% 12,339 15,794 28.0% 171.3 St Johns Parkway FCE to CR-210 17,953 16,274 -9.4% 23,421 21,628 -7.7% 22,252 20,270 -8.9% 157 St Johns Parkway CR-210 to SR-9B 35,767 33,970 -5.0% 38,886 36,974 -4.9% 39,607 38,025 -4.0% 158 St Johns Parkway SR-9B to Longleaf Pine Parkway 21,101 20,851 -1.2% 24,693 23,260 -5.8% 24,770 23,884 -3.6%													8,088	8,112	0.3% 7.0%
171.2 St Johns Parkway Silverleaf Parkway to FCE 11,055 12,874 16.5% 12,348 15,169 22.8% 12,339 15,794 28.0% 171.3 St Johns Parkway FCE to CR-210 17,953 16,274 -9.4% 23,421 21,628 -7.7% 22,252 20,270 -8.9% 157 St Johns Parkway CR-210 to SR-9B 35,767 33,970 -5.0% 38,886 36,974 -4.9% 39,607 38,025 -4.0% 158 St Johns Parkway SR-9B to Longleaf Pine Parkway 21,101 20,851 -1.2% 24,693 23,260 -5.8% 24,770 23,884 -3.6%		•		,				- ,		- ,			15,595 7,079	16,685 7,970	7.0% 12.6%
171.3 St Johns Parkway FCE to CR-210 17,953 16,274 -9.4% 23,421 21,628 -7.7% 22,252 20,270 -8.9% 157 St Johns Parkway CR-210 to SR-9B 35,767 33,970 -5.0% 38,886 36,974 -4.9% 39,607 38,025 -4.0% 158 St Johns Parkway SR-9B to Longleaf Pine Parkway 21,101 20,851 -1.2% 24,693 23,260 -5.8% 24,770 23,884 -3.6%													7,079 14,925		12.6% 36.2%
157 St Johns Parkway CR-210 to SR-9B 35,767 33,970 -5.0% 38,886 36,974 -4.9% 39,607 38,025 -4.0% 158 St Johns Parkway SR-9B to Longleaf Pine Parkway 21,101 20,851 -1.2% 24,693 23,260 -5.8% 24,770 23,884 -3.6%													14,925 27,085	20,334 25.865	-4.5%
158 St Johns Parkway SR-9B to Longleaf Pine Parkway 21,101 20,851 -1.2% 24,693 23,260 -5.8% 24,770 23,884 -3.6%	-	•											41,353	40,295	-4.5% -2.6%
													28,924	26,985	-2.6% -6.7%
100													7,735	7,616	-0.7%
152.1 Veterans Parkway CR-210 to Longleaf Pine Parkway 4,771 4,855 1.8% 7,131 6,818 -4.4% 6,019 6,138 2.0%		•											11,263	11,169	-0.8%
152.1 Veterans Parkway Longleaf Pine Parkway to Race Track Road 10,703 10,755 0.5% 13,973 13,589 -2.7% 12,845 12,730 -0.9%	-												18,200	17,808	-2.2%
166 SR-9B St Johns Parkway to West Peyton Parkway 50,179 47,812 4.7% 57,068 53,865 -5.6% 56,827 54,604 -3.9%													62,920	59,504	-5.4%
167 SR-9B West Peyton Parkway to Duval County Line 67,556 64,949 3.9% 74,808 71,529 -4.4% 76,721 74,118 -3.4%													84,989	82,584	-2.8%
			,,	21,200	2 .,2 .0	2.570	,500	,520	,0	,	,	2.170	2 .,200	,-3.	/0









3.0 CONCLUSIONS

Based on the analysis contained in the previous section, the FCE will have significant positive impacts on parts of SR-13 (Bartram Scenic Trail), CR-16A, CR-210 and portions of SR-16 reducing the traffic in by over 50% on several roadway links. Most traffic traveling from/to Clay County will use the FCE to access I-95, keeping through traffic off the surface roadway network. There will be minor increases on the roadway segments that provide access to the FCE including Longleaf Pine Parkway and St. Johns Parkway (CR-2209) with the biggest increase on St. Johns Parkway (south of the FCE). Model volume forecasts for St. Johns Parkway are well within the carrying capacity of the existing 4-lane roadway and should not cause significant delays to the traveling public. Table 3-1 lists the number of lanes necessary for the roadway links within the study area to operate at the adopted level of service in 2045. Also shown in the table are the existing lanage and the lanage proposed in the 2045 Long Range Transportation Plan (LRTP). As shown, the lanage required on the majority of the roadways within the study area will remain the same with or without the FCE. Eight roadway segments will require fewer lanes while two segments of I-95 and one section of Race Track Road will require additional lanes in 2045 with the FCE.

The required lanage with the FCE was also lanage contained in the LRTP. The volumes on eight roadway segments indicate that they will require additional capacity over what is provided by the improvements in the LRTP. These include segments of CR-210, Greenbriar Road, Race Track Road, Roberts Road, SR-13 and SR-16. Two of these segments (Roberts Road and SR-13) have been designated as constrained facilities by St Johns County so the necessary improvements are not included in the LRTP.

The FCE provides a valuable transportation link between the residential areas in Clay County and the employment centers in Jacksonville. This is demonstrated by reduced traffic on a significant portion of the local roadway network.

TABLE 3-1 - 2045 Required Lanage Comparison

Link D					2045 A	diustad		Future		
Dec Roadway Segment Langap Without FCE With FCE RTP / TIP FCE	Link			Evicting		•				
17.1 GR-13		D = = d=.	8		Daily VO	iumes		14//-1		
17.1	ID	Roadway	Segment	Lanage	Without FCE	With FCE	LRTP / TIP 3			
17.2 CR-13										
21.1					,	,				
24.1	II .									
23.1 CR-16A SR-13 to CR-210 Lea MoGuire Road 2-lanes 2-lanes 3.0 CR-208 CR-13 to Lea MoGuire Road 2-lanes 3.0 CR-208 CR-13 to Lea Ashton Road 2-lanes 2-lanes 2-lanes 3.1 CR-208 CR-13 to Lea Ashton Road 2-lanes 2-lanes 2.713 2.260 2-lanes 2-lanes 3.2 CR-208 CR-13 to Lea Ashton Road to CR-13A 2-lanes 2-lanes 2.713 2.260 2-lanes 2-lanes 3.2 CR-208 CR-13 to CR-13A CR-210 CR-13A to SR-16 CR-210 CR-13A to SR-16 CR-210 CR-13A to SR-16 CR-210 CR-13A to SR-16 CR-210 CR-21	II .		CR-208 to Samara Lakes Parkway	2-lanes	2,536					
22.2 CR-16A CR-210 to Lea McQuire Road 2-lanes 971 94.0 4-lanes 2-lanes 31 CR-208 OR-310 to De Ashton Road 2-lanes 971 94.0 4-lanes 2-lanes 31 CR-208 Os Ashton Road to CR-13A 2-lanes 3.11 2.80 2-lanes 2-lanes 2-lanes 3.13 CR-201 CR-208 CR-130 to SR-16 CR-13A 2-lanes 3.13 2.80 2-lanes 2-lanes 3.13 CR-210 CR-16A to Greenforiar Road 2-lanes 2-lane		CR-13A	,		,		4-lanes			
30	23.1	CR-16A	SR-13 to CR-210	2-lanes	4,389		4-lanes	2-lanes	2-lanes	
31 CR-208	23.2	CR-16A	CR-210 to Leo McGuire Road	2-lanes	15,565	10,705	4-lanes		2-lanes	
32 CR-208	30	CR-208	CR-13 to Joe Ashton Road	2-lanes	971	948	2-lanes	2-lanes	2-lanes	
33 CR-210 GR-16h to Greenbriar Road to Greenbriar Road to Greenbriar Road to Cimarrone Boulevard (CR-210 Greenbriar Road to Cimarrone Boulevard to CR-2209 (St.) Johns Parkway (Left and St.) 4-lanes (Left and St.	31	CR-208	Joe Ashton Road to CR-13A	2-lanes	2,713	2,205	2-lanes	2-lanes	2-lanes	
34.1 CR-210 Greenbriar Road to Cimarrone Boulevard to CR-2209 (St Johns Parkway) CR-2209	32	CR-208	CR-13A to SR-16	2-lanes	3,131	2,850	2-lanes	2-lanes	2-lanes	
34.2 CR-210 Cimarrone Boulevard to CR-2209 (St.Johns Parkway) 34.3 a) 55 CR-210 CR-2209 (St.Johns Parkway) 64 Greenbriar Road 65 Greenbriar Road 65 Greenbriar Road 65 Greenbriar Road 66 Greenbriar Road 67 11 International Colf Parkway 67 12 Janes 73.1 International Colf Parkway 78 12 Janes 78 12 International Colf Parkway 78 12 Janes 78 13 International Colf Parkway 78 14 Janes 78 15 Janes Parkway 78 14 Janes 79 15 Janes 79 16 Roac Track Road 79 17 1 Roac Track Road 79 17 1 Roac Track Road 79 18 Janes Parkway 80 18 Janes Parkway 81 18 SR-13 CR-218 SR-13 SR-16 SR-218	33	CR-210	CR-16A to Greenbriar Road	2-lanes	10,872	8,638	2-lanes	2-lanes	2-lanes	
34.3.55 CR.210 CR.2200 (St.Johns Parkway) to 195 46-Janes 59.997 55.168 46-Janes 4-Janes 4-Janes 65 Greenbriar Road Creenbriar Road	34.1	CR-210	Greenbriar Road to Cimarrone Boulevard	2-lanes	28,389	24,197	4-lanes	4-lanes	4-lanes	
34.3.5 CR-210 CR-2200 (St Johns Partway) to IP-5 46-lanes 59.997 55.168 46-lanes 6-lanes	34.2	CR-210	Cimarrone Boulevard to CR-2209 (St Johns Parkway)	4-lanes	60,181	54,675	4-lanes	8-lanes	8-lanes	
Greenbriar Road Greenbriar	34.3.35	CR-210	,	4/6-lanes	59.997	55.168	4/6-lanes	8-lanes	8-lanes	
65 Greenbriar Road Longleaf Pine Parkway to CR-210 2-lanes 15,236 2-lanes 4-lanes 4-lanes 73.1 International Colf Parkway Royal Pines Parkway 4-lanes 24,701 23,530 6-lanes 4-lanes 4-		Greenbriar Road	, , , , , , , , , , , , , , , , , , , ,			,				
73.1 International Goff Parkiway SR.16 to Royal Pines Parkway 4-lanes 4-lanes 4-lanes 4-lanes 76 Race Track Road SR.13 to Bishop Estates Road 4-lanes 4.3,275 44,277 4-lanes 6-lanes 6-lanes 77.1 Race Track Road Sishop Estates Road to Veterans Parkway 4-lanes 43,275 44,277 4-lanes 6-lanes 6-lanes 77.2 Race Track Road Veterans Parkway to CR-220 (St.Johns Parkway) 4-lanes 43,275 44,277 4-lanes 6-lanes 6-lanes 77.3 Race Track Road Veterans Parkway to CR-220 (St.Johns Parkway) 4-lanes 39,039 36,952 4-lanes 6-lanes 6-lanes 77.3 7			,							
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77.1 Race Track Road Bishop Estates Road to Veterans Parkway to CR-2209 (St Johns Parkway) 4-lanes 47.10 48.305 4-lanes 6-lanes 8-lanes 77.3 77.3 Race Track Road Voterans Parkway to West Peyton Parkway 4-lanes 39.039 36.952 4-lanes 6-lanes 77.4 Race Track Road West Peyton Parkway to SR-13 2-lanes 24.751 23.137 4-lanes 4-lanes 81 SR-136 SR-16 (West) to CRYEGA 2-lanes 15.058 7.131 2-lanes 2-lanes 82 SR-13 SR-16 (West) to CRYEGA 2-lanes 15.058 7.131 2-lanes 2-lanes 84 SR-13 CR-16A to Greenbriar Road 2-lanes 10.544 9,484 2-lanes 2-lanes 85 SR-13 Goenthriar Road to Roberts Road 2-lanes 14.366 14.189 2-lanes 2-lan	II .		1							
77.2 Race Track Road Veterans Parkway to CR-2209 (SL Johns Parkway) 4-lanes 43,055 40,828 4-lanes 6-lanes 77.3 Race Track Road West Peyton Parkway to Bartram Park Boulevard 4-lanes 39,039 36,952 4-lanes 4-lanes 79 Roberts Road Longleaf Pine Parkway to SR-13 2-lanes 15,056 19,178 3-lanes 4-lanes 2-lanes 15,054 9,777 9,579 2-lanes 2-lanes 38,073 3-lanes 38,13 38,713 38,713 38,713 38,713 38,713 38,713 38,713 38,713 38,713 38,713 38,714 41,714 41,714 41,714 41,714 41,714 41,714 41,714 41,714 41,714 41,714 41,714 <td></td> <td></td> <td>,</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>			,							
77.3 Race Track Road CR2209 (St Johns Parkway to West Peyton Parkway) 4-lanes 39,039 36,952 4-lanes 6-lanes 77.4 Race Track Road Longleaf Pine Parkway to SR13 2-lanes 18,250 19,178 3-lanes 4-lanes 4-lanes 4-lanes 4-lanes 4-lanes 2-lanes 18,250 19,178 3-lanes 4-lanes 4-lanes 4-lanes 2-lanes 18,250 19,178 3-lanes 4-lanes 4-lanes 2-lanes 18,250 19,178 3-lanes 4-lanes 4-lanes 2-lanes 3-lanes 4-lanes 4-lanes 4-lanes 4-lanes 4-lanes										
Race Track Road			, , , , , , , , , , , , , , , , , , , ,							
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81 SR-13/16 SR-16 (East) to SR-16 (West) to CR16A 2-lanes 82 -lanes 82 SR-13 SR-16 (West) to CR16A 2-lanes 83 SR-13 SR-16 (West) to CR16A 10 SR-16A 10 SR-16						,				
SR-13	_		,							
SR 13					-,					
84 SR-13 Greenbriar Road to Roberts Road to CR-13B (Fruit Cove Road S.) 2-lanes 14,346 14,188 2-lanes 2-lanes 85 SR-13 Roberts Road to CR-13B (Fruit Cove Road S.) to Race Track Road 4-lanes 36,184 35,224 4-lanes 6-lanes 4-lanes 88 SR-13 Race Track Road to Duval County Line 4-lanes 69,690 70,072 4-lanes 8-lanes 9-lanes 9-1,2 8-16 CR-16A to International Golf Parkway 4-lanes 23,711 18,366 29,102 4-lanes 4-lanes 9-lanes 92,112 SR-16 CR-209 to South Frances Road 4-lanes 23,711 18,336 4-lanes 4-lanes 92,12 SR-16 South Frances Road to West Mall Entrance 4-lanes 40,884 35,140 4-lanes 6-lanes </td <td></td> <td></td> <td>, ,</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>			, ,							
85 SR-13 Roberts Road to CR-13B (Fruit Cove Road S.) 4-lanes 36,184 35,324 4-lanes 6-lanes 6-lanes 86 SR-13 CR-13B (Fruit Cove Road S.) to Race Track Road 4-lanes 40,532 40,452 4-lanes 6-lanes 6-lanes 6-lanes 90 SR-13 Race Track Road to Duval County Line 4-lanes 4-lanes 69,690 70,072 4-lanes 8-lanes 8-lanes 8-lanes 8-lanes 90 SR-16 SR-13 to CR-16A 2-lanes 20,996 13,960 2-lanes 2-lanes 91.2 SR-16 CR-16A to International Golf Parkway 4-lanes 23,711 18,336 4-lanes 2-lanes 91.2 SR-16 International Golf Parkway to CR-2209 4-lanes 42,801 37,121 4-lanes 4-lanes 4-lanes 92.11 SR-16 CR-2209 to South Frances Road 4-lanes 4-lan						,				
86 SR-13 CR-13B (Fruit Cove Road S.) to Race Track Road 8 d-lanes 8 SR-13 4-lanes 6 9,890 70,072 4-lanes 8 6-lanes 8-lanes 8-lanes 8-lanes 90 SR-16 SR-13 to CR-16A 2-lanes 20,966 13,960 2-lanes 4-lanes 8-lanes 8-lanes 8-lanes 9-lanes 91.1 38,165 CR-16A to International Golf Parkway to CR-2209 4-lanes 38,463 29,102 4-lanes 4-lanes 4-lanes 4-lanes 9-lanes 9-la										
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130	92.12	SR-16	South Frances Road to West Mall Entrance	4-lanes	40,884	35,140	4-lanes	6-lanes	4-lanes	
131 1-95 SR-16 to International Golf Parkway 6-lanes 101,732 106,233 10-lanes 6-lanes 8-lanes 132 1-95 International Golf Parkway to FCE 6-lanes 131,171 135,944 10-lanes 8-lanes 8-lanes 132 1-95 FCE to CR-210 FCE to CR-210 6-lanes 131,171 144,052 10-lanes 8-lanes 10-lanes 133 1-95 CR-210 to Duval County Line FCE to CR-16A/CR-210 FCE to CR-16A/CR-210 to Greenbriar Road 4-lanes 10,546 10,555 4-lanes 4-lanes 4-lanes 153.2 Longleaf Pine Parkway Greenbriar Road 4-lanes 19,524 19,121 4-lanes 4-lanes 4-lanes 154 Longleaf Pine Parkway Veterans Parkway to CR-2209 (St Johns Parkway) 4-lanes 33,623 31,279 4-lanes 4-	92.2	SR-16	West Mall Entrance to I-95	4-lanes	50,950	45,686	4-lanes	6-lanes	6-lanes	
132 1-95 International Golf Parkway to FCE 6-lanes 131,171 135,944 10-lanes 8-lanes 8-lanes 132 195 FCE to CR-210 6-lanes 131,171 144,052 10-lanes 8-lanes 10-lanes 133 195 CR-210 to Duval County Line 6-lanes 168,209 175,623 10-lanes 4-lanes 4-lanes 10-lanes 10-lanes 4-lanes 10-lanes 1	130	I-95	SR-207 to SR-16	6-lanes	96,259	96,196	10-lanes	6-lanes	6-lanes	
132	131	I-95	SR-16 to International Golf Parkway	6-lanes	101,732	106,233	10-lanes	6-lanes	8-lanes	
133	132	I-95	International Golf Parkway to FCE	6-lanes	131,171	135,944	10-lanes	8-lanes	8-lanes	
Longleaf Pine Parkway	132	I-95	FCE to CR-210	6-lanes	131,171	144,052	10-lanes	8-lanes	10-lanes	
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154	II .	,			,	,				
155, 156					,	,				
170 Silverleaf Parkway SR-16/CR-16A to St Johns Parkway SR-16/CR-16A to St Johns Parkway St Johns Parkway SR-16 to International Golf Parkway St Johns Parkway St Johns Parkway International Golf Parkway St Johns Parkway St Johns Parkway International Golf Parkway St Johns Parkway Silverleaf Parkway Silverleaf Parkway Silverleaf Parkway St Johns Parkway SR-9B St Johns Parkway SR-9B St Johns Parkway SR-9B to Longleaf Pine Parkway St Johns Parkway SR-9B to Longleaf Pine Parkway St Johns Parkway St Johns Parkway SR-9B to Longleaf Pine Parkway St Johns Parkway SR-9B to Longleaf Pine Parkway St Johns Parkway St Joh		,			,	,				
St Johns Parkway SR-16 to International Golf Parkway 15,595 16,685 4-lanes 4-lanes 4-lanes 2-lanes 171.2 St Johns Parkway Silverleaf Parkway to FCE 4-lanes 22,465 30,607 6-lanes 4-lanes 4-lanes 171.3 St Johns Parkway FCE to CR-210 4-lanes 35,340 33,748 6-lanes 4-lanes 157 St Johns Parkway CR-210 to SR-9B 4-lanes 41,815 40,745 6-lanes 4-lanes 158 St Johns Parkway SR-9B to Longleaf Pine Parkway 4-lanes 37,520 35,005 4-lanes 4-lanes 159 St Johns Parkway Longleaf Pine Parkway to Race Track Road 4-lanes 10,894 10,726 4-lanes 2-lanes 152.1 Veterans Parkway CR-210 to Longleaf Pine Parkway to Race Track Road 4-lanes 24,733 24,201 4-lanes 4-lanes			, , , , , , , , , , , , , , , , , , , ,		,	,				
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152.2 Veterans Parkway Longleaf Pine Parkway to Race Track Road 4-lanes 24,733 24,201 4-lanes 4-lanes 4-lanes				4-lanes						
Notes:			Longleat Pine Parkway to Race Track Road	4-lanes	24,733	24,201	4-lanes	4-lanes	4-lanes	

of lanes decreased with FCE

of lanes increased with FCE

¹ Existing number of lanes from St Johns County Traffic Analysis Spreadsheet Dated 4-12-2022

² Adjusted based on the difference between 2020 counted and model volumes

 $^{^{\}rm 3}$ Improved number of lanes from the North Florida TPO 2045 LRTP or St Johns County TIP

⁴ Number of lanes to accomodate estimated traffic based on FDOT Quality and Level of Service Manual (2020)

Appendix A (Socio-Economic Data Changes)

Old TAZ	New TAZ		District	Model				2015							2020							2030			
					HH	POP	Mfg	Ind	Ret	Service	Total	HH	POP	Mfg	Ind	Ret	Service	Total	HH	POP	Mfg	Ind	Ret	Service	Total
1252	1164	Silverleaf Parcel 40	19	orig	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				rev	15	27	0	0	0	0	0	15	27	0	0	0	0	0	15	27	0	0	0	0	0
2352	1165	Silverleaf Parcel 42	19	orig	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				rev	19	46	0	0	0	0	0	19	46	0	0	0	0	0	19	46	0	0	0	0	0
1251	1166	Greenbriar/Helow Bridle	19	orig	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				rev	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1251		Rivertown	19	orig	194	542	0	0	0	204	204	194	542	0	0	0	204	204	1341	3613	27	20	46	491	584
				rev	194	542	0	0	0	204	204	194	542	0	0	0	204	204	1341	3613	27	20	46	491	584
1256		Rivertown	19	orig	288	513	0	0	6	10	16	288	513	0	0	6	10	16	288	513	0	0	6	10	16
				rev	288	513	0	0	6	10	16	295	531	0	0	6	10	16	310	802	19	13	31	54	117
2340			18	orig	1062	2969	0	0	8	133	141	1062	2969	0	0	8	133	141	1365	3816	1	1	57	394	450
	2324	Aberdeen	18	rev	1004	2807	0	0	0	0	0	1600	4473	0	0	0	0	0	2697	7540	1	1	57	394	450
	2340	Cunningham Creek	18	rev	1323	3699	0	0	8	133	141	1323	3699	0	0	8	133	141	1365	3816	1	1	57	391	450
2344		Helow	18	orig	298	552	0	0	5	48	53	298	552	0	0	5	48	53	389	1253	0	0	5	48	53
				rev	298	552	0	0	5	48	53	297	725	0	0	5	48	53	389	1253	0	0	5	48	53
2352		Silverleaf	19	orig	192	469	2	2	20	26	50	192	469	2	2	20	26	50	1600	4473	15	15	24	34	88
				rev	173	423	2	2	20	26	50	173	423	2	2	20	26	50	1630	4485	21	21	26	38	106
Old TAZ	New TAZ		District	Model				2035							2040							2045			
					НН	POP	Mfg	Ind	Ret	Service	Total	НН	POP	Mfg	Ind	Ret	Service	Total	HH	POP	Mfg	Ind	Ret	Service	Total
1252	1164	Silverleaf Parcel 40	19	orig	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0050	4415	011 1 60 140	40	rev	65	175	0	0	0	0	0	115	205	0	0	0	0	0	165	294	0	0	0	0	0
2352	1165	Silverleaf Parcel 42	19	orig	0	0 1459	0	0	0	0	0	0	0	0	0	0	0	0	0	0 4526	0	0	0	0	0
1051	11//	Croombries/Holous Bridle	10	rev	819		0	0	0	0	0	1219	3408	0	0	0	0	0	1619		0	0	0	0	0
1251	1166	Greenbriar/Helow Bridle	19	orig	0	0	0	0	0	100	120	200	0 370	0	0	0	0 200	0	0 400	0 1080	0	0	0	0	0 380
1251		Rivertown	19	rev	0	0 2600	18	0 13	200 31	100 396	120 458	963	2600	0	0	40 0	200	240 204	963	2600	0 18	0 13	80 31	300 396	458
1251		Rivertown	19	orig	963 1342	3725	0	0	0	204	204	1343	3843	0	0	0	204	204	1343	3957	0	0	0	204	204
1256		Rivertown	19	rev orig	288	513	0	0	6	10	16	288	513	0	0	6	10	16	288	513	0	0	6	10	16
1230		KIVELLOWII	17	rev	316	818	0	0	6	10	16	322	834	0	0	6	10	16	327	850	0	0	6	10	16
2340			18	orig	1446	4261	1	1	41	307	350	1446	4261	1	1	41	307	350	1446	4261	1	1	41	307	350
2340	2324	Aberdeen	18	rev	2862	4473	0	0	8	133	141	2862	4473	0	0	8	133	141	3016	4473	0	0	8	133	141
	2340	Cunningham Creek	18	rev	1434	3699	1	1	33	174	209	1557	3699	0	0	0	0	0	1624	3699	1	1	33	174	209
2344	2340	Helow	18	orig	407	1178	0	0	7	59	66	298	552	0	0	5	48	53	407	1178	0	0	7	59	66
2011		TICIOW	10	rev	5	725	0	0	50	200	250	2105	725	0	0	100	400	500	2605	7675	0	0	150	800	950
2352		Silverleaf	19	orig	1600	4473	15	15	24	34	88	1600	4473	15	15	24	34	88	1600	4473	15	15	24	34	88
2002		Jiivoricai	''	rev	1633	4501	15	15	24	34	88	1636	4515	15	15	24	34	88	1640	4523	15	15	24	34	88
				TCV	1000	4301	10	10	24	JT	00	1030	TOIO	10	10	27	JT	00	1040	TUZU	10	10	27	JT	00

Appendix B (Base Roadway Networks)

First Coast Expressway Impact Study 2020 Roadway Network - LANES_20a=1
- LANES_20a=2
- LANES_20a=3
- LANES_20a=4 LANES_20a=4

LANES_20a=5

LANES_20a=6

FTYPE_20a=49

FTYPE_20a=59

FTYPE_20a=69

FTYPE_20a=0

FTYPE_20a=50-52

FTYPE_20a=90-99 (Licensed to)

First Coast Expressway Impact Study 2030 Roadway Network - LANES_30a=1
- LANES_30a=2
- LANES_30a=3
- LANES_30a=4 LANES_30a=5
LANES_30a=6
FTYPE_30a=49 FTYPE_30a=49
FTYPE_30a=59
FTYPE_30a=69
FTYPE_30a=0
FTYPE_30a=50-52
FTYPE_30a=90-99 (Licensed to)

First Coast Expressway Impact Study 2035 Roadway Network LANES_35a=1
LANES_35a=2
LANES_35a=3
LANES_35a=4 LANES_35a=5
LANES_35a=6
FTYPE_35a=49 FTYPE_35a=49
FTYPE_35a=59
FTYPE_35a=69
FTYPE_35a=0
FTYPE_35a=50-52
FTYPE_35a=90-99 (Licensed to)

First Coast Expressway Impact Study 2040 Roadway Network - LANES_40a=1
- LANES_40a=2
- LANES_40a=3
- LANES_40a=4 LANES_40a=4
LANES_40a=5
LANES_40a=6
FTYPE_40a=49
FTYPE_40a=59
FTYPE_40a=69
FTYPE_40a=0
FTYPE_40a=50-52
FTYPE_40a=90-99 (Licensed to)

First Coast Expressway Impact Study 2045 Roadway Network LANES_45a=1
LANES_45a=2
LANES_45a=3
LANES_45a=4
LANES_45a=5
LANES_45a=6
FTYPE_45a=49
FTYPE_45a=59
FTYPE_45a=69
FTYPE_45a=0
FTYPE_45a=0
FTYPE_45a=0
FTYPE_45a=90-99 (Licensed to)

Base Network Modifications

Silverleaf Parkway 4-lanes in 2020 and after

CR-2209 – Silverleaf Pkwy to CR-210 4-lanes in 2020 and after

CR-2209 – IGP to Silverleaf Pkwy 4-lanes in 2030 and after

CR-2209 – SR-16 to IGP 4-lanes in 2035 and after

CR-2209 – CR-208 to SR-16 4-lanes in 2040 and after

SR-9B at I-95 ramps and mainline updated lanage to match existing conditions

SR-9B at Peyton Pkwy Changed ramp facility types to 71 (entrance) and 75

(exit)

CR-210 - Leo McGuire Rd to I-95 6-lane in 2020 and after

FCE at CR-16A Removed interchange ramps

FCE at Longleaf Pines Pkwy Shifted first interchange from SR-13 to Longleaf Pine

Parkway Extension

Veterans Pkwy - Longleaf Pine to Race Track 4-lanes in 2025 and after

Veterans Pkwy - CR-210 to Longleaf Pine 4-lanes in 2025 and after

Longleaf Pine Pkwy - Veterans to Tolerton 4-lanes in 2025 and after

East Peyton Parkway 6-lanes in 2025 and after

Shearwater Parkway 2-lanes in 2030 and after

Race Track Road - Bartram Park to

Bartram Springs

4-lanes in 2030 and after

TAZ 1158 (Beachwalk) Shifted centroid connector to the east to align with TAZ

2334 (Beacon Lakes)

TAZ 1213 (Bannon Lakes) Deleted connection to US-1

TAZ 1232 (Durbin Crossing DRI)

Deleted centroid connector to Race Track Road and

added centroid connector to Longleaf Pines Parkway

TAZ 1251 (Rivertown DRI)

Added centroid connector to Longleaf Pines Parkway

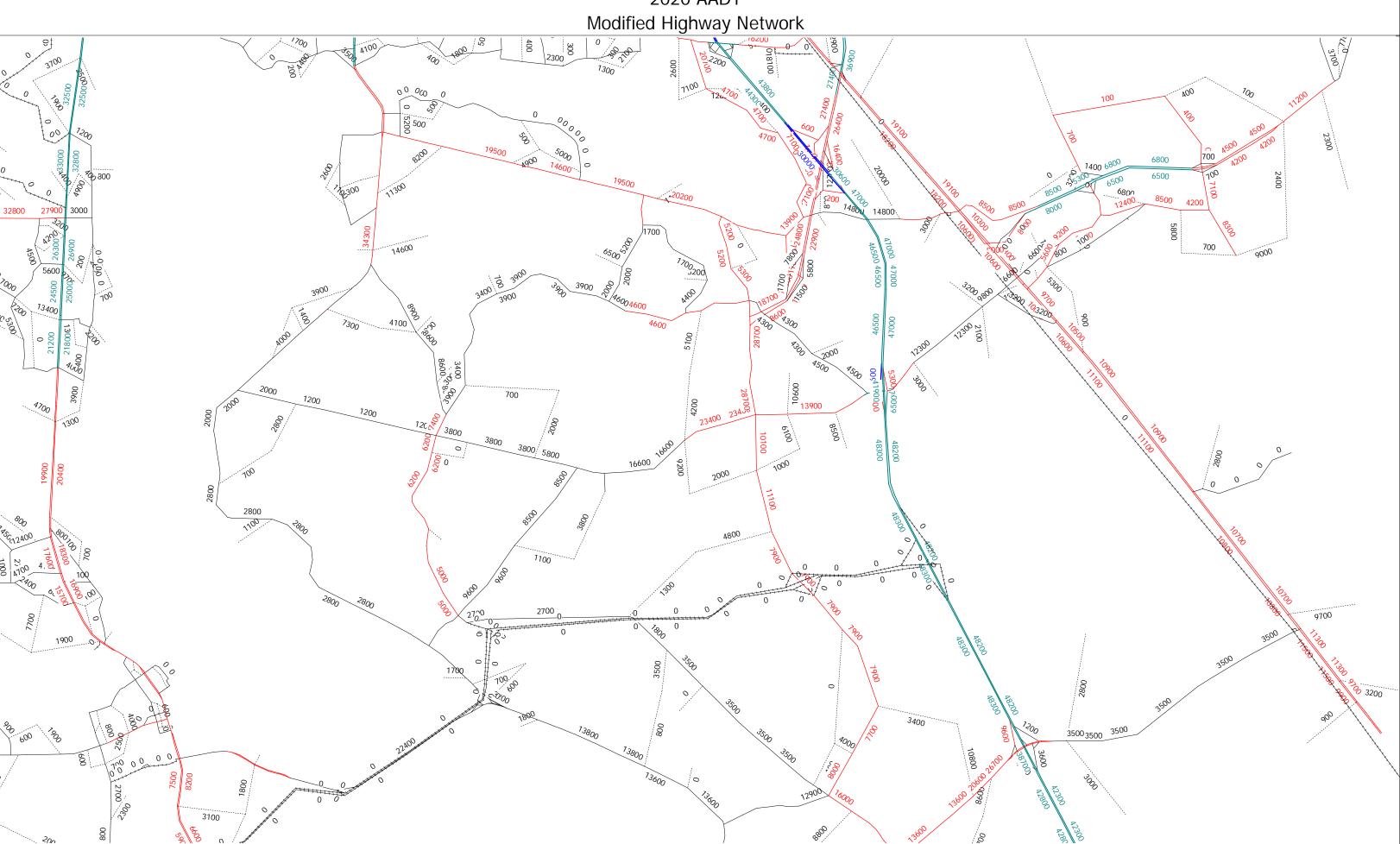
TAZ 2340 (Aberdeen DRI)

Added centroid connector to Longleaf Pines Parkway

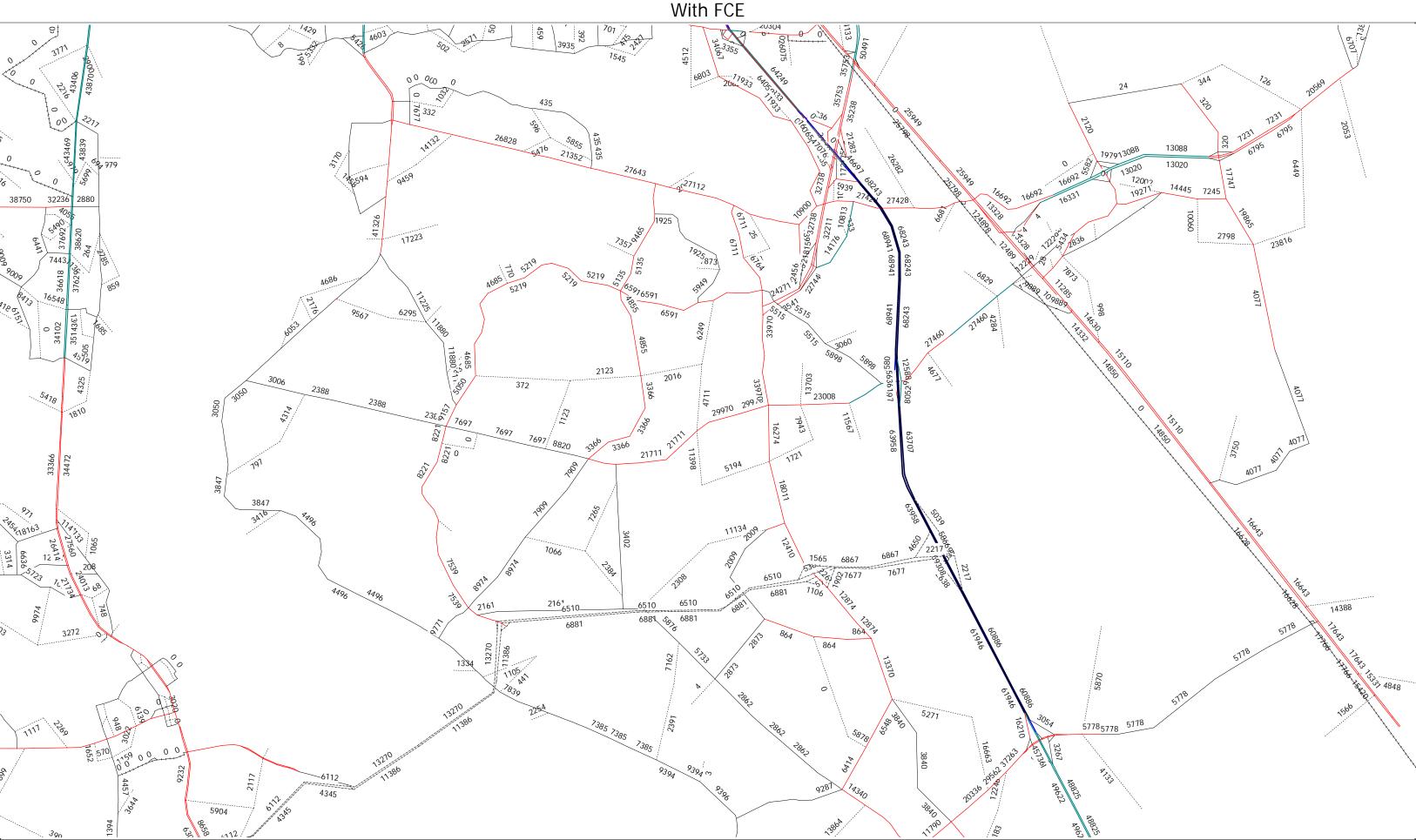
TAZ 2350 (Silverleaf DRI) Added centroid connector to CR-2209

Appendix C (Model Volume Printouts)

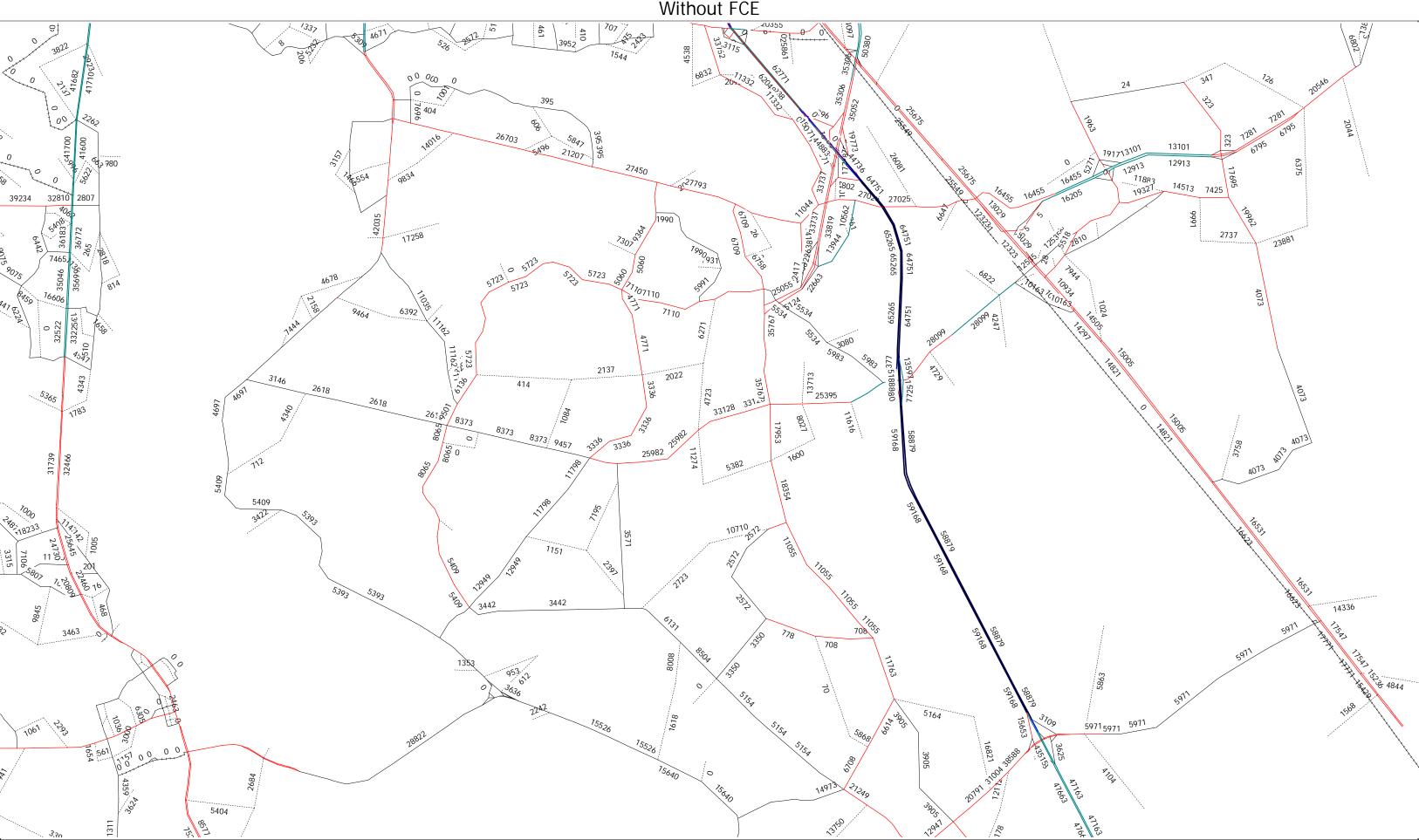
First Coast Expressway Study 2020 AADT



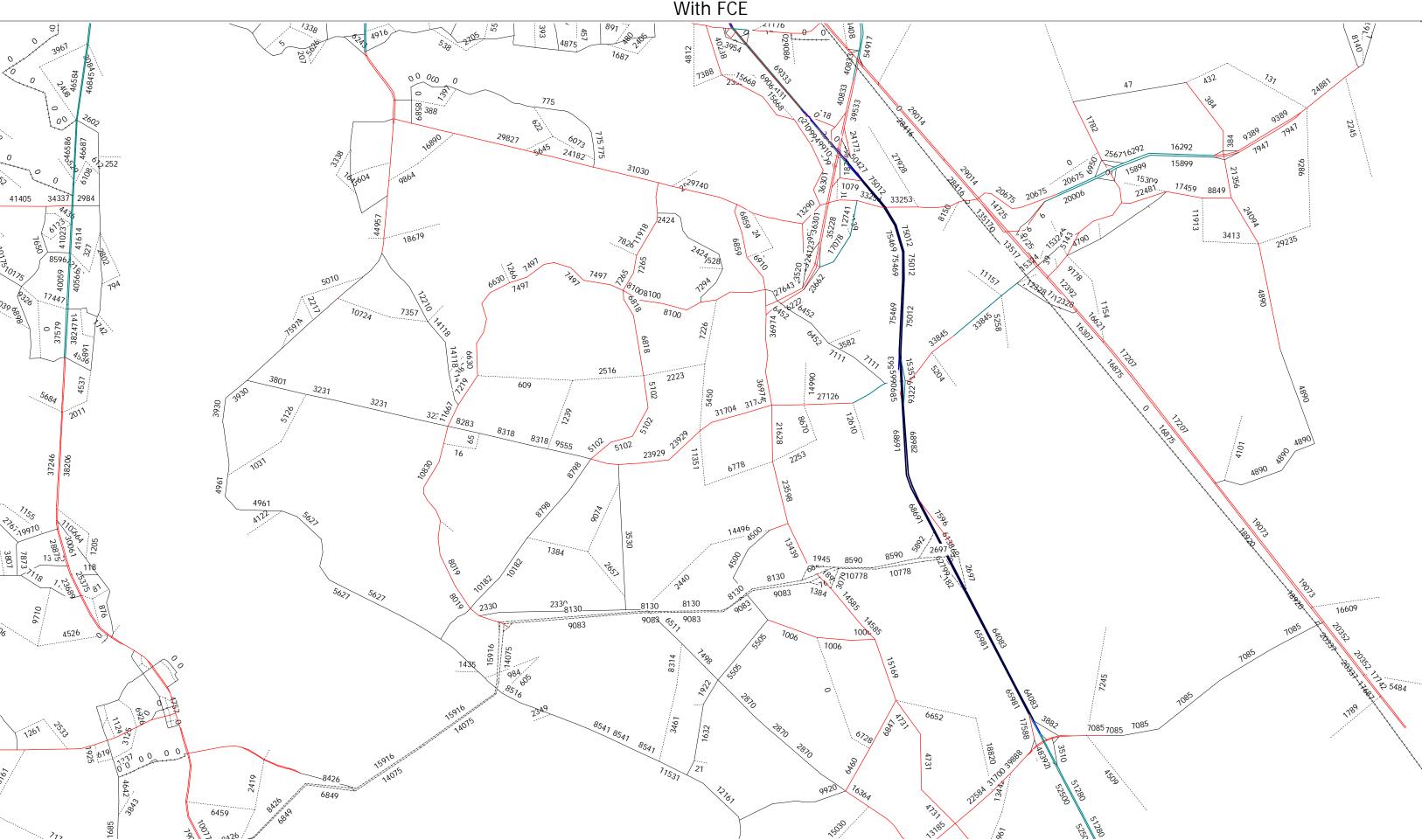
First Coast Expressway Study 2030 AADT With FCE



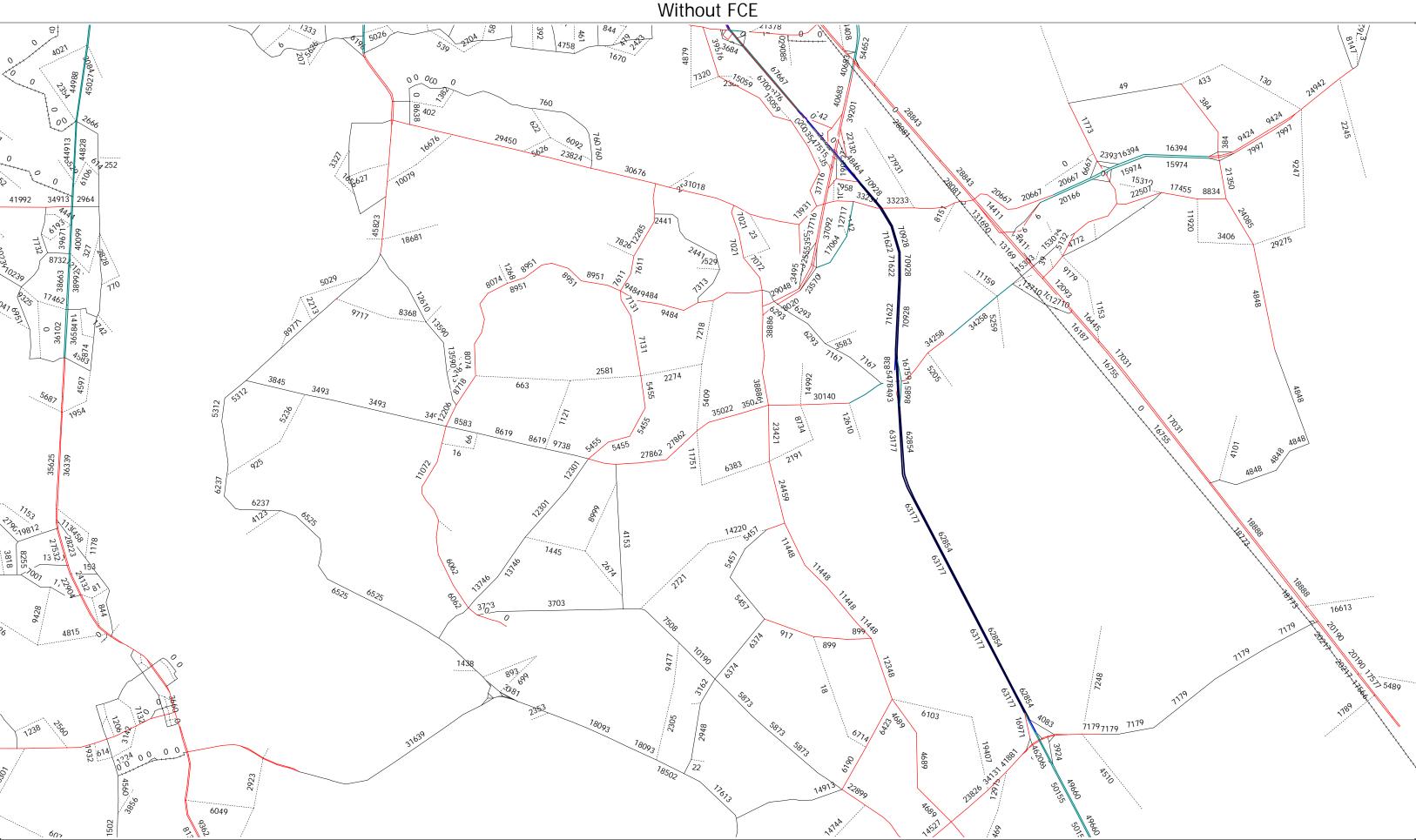
First Coast Expressway Study 2030 AADT Without FCE



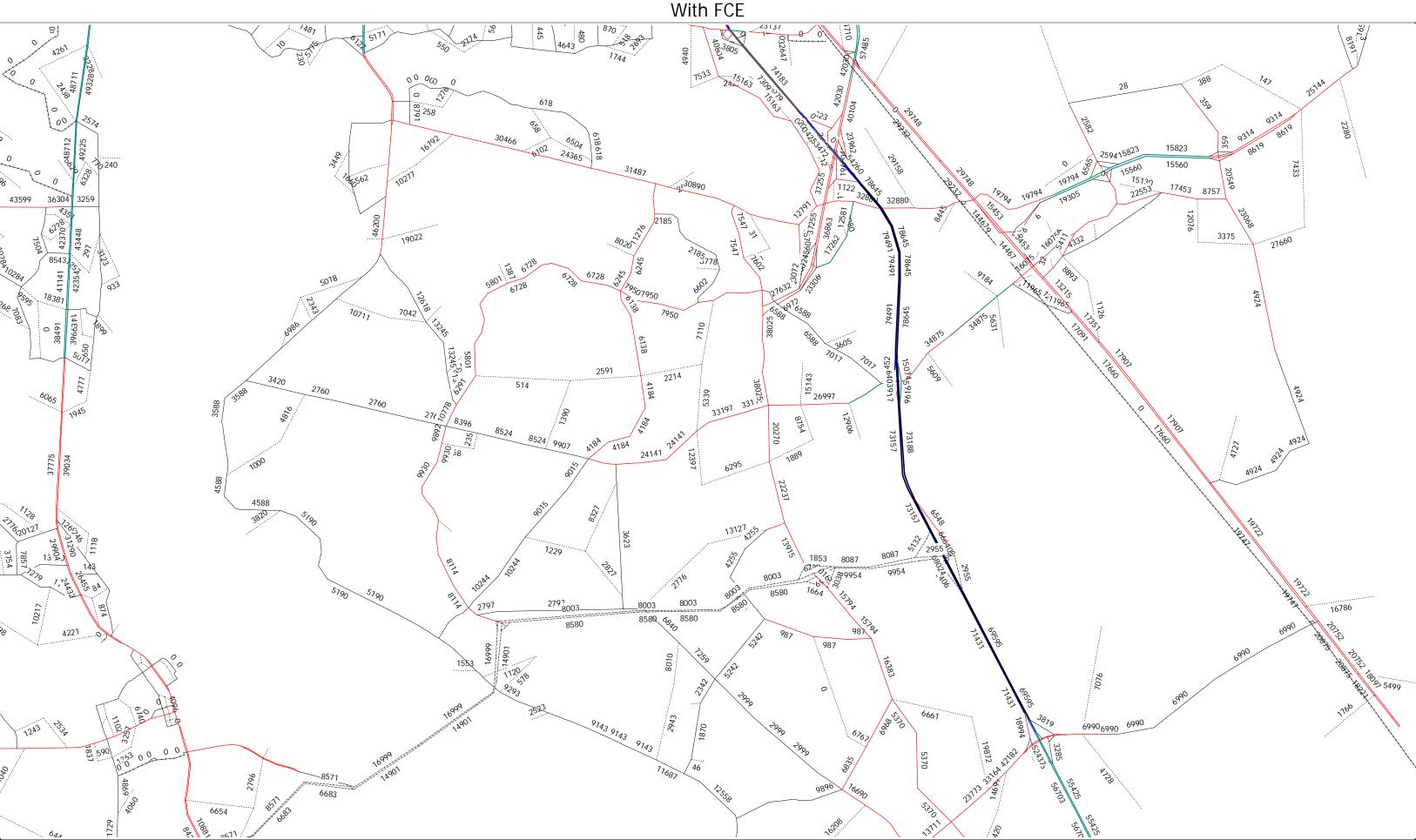
First Coast Expressway Study 2035 AADT With FCE



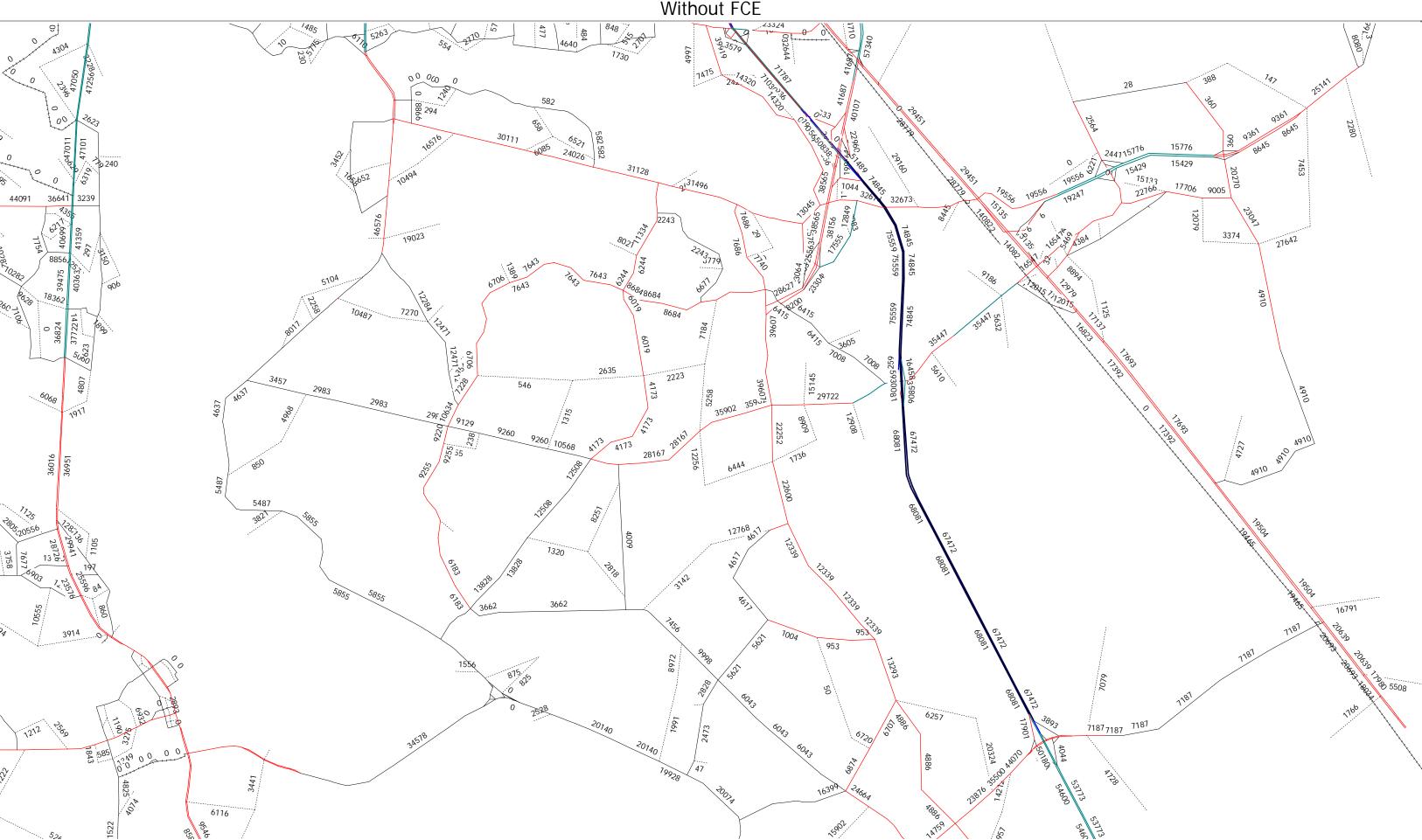
First Coast Expressway Study 2035 AADT Without FCE



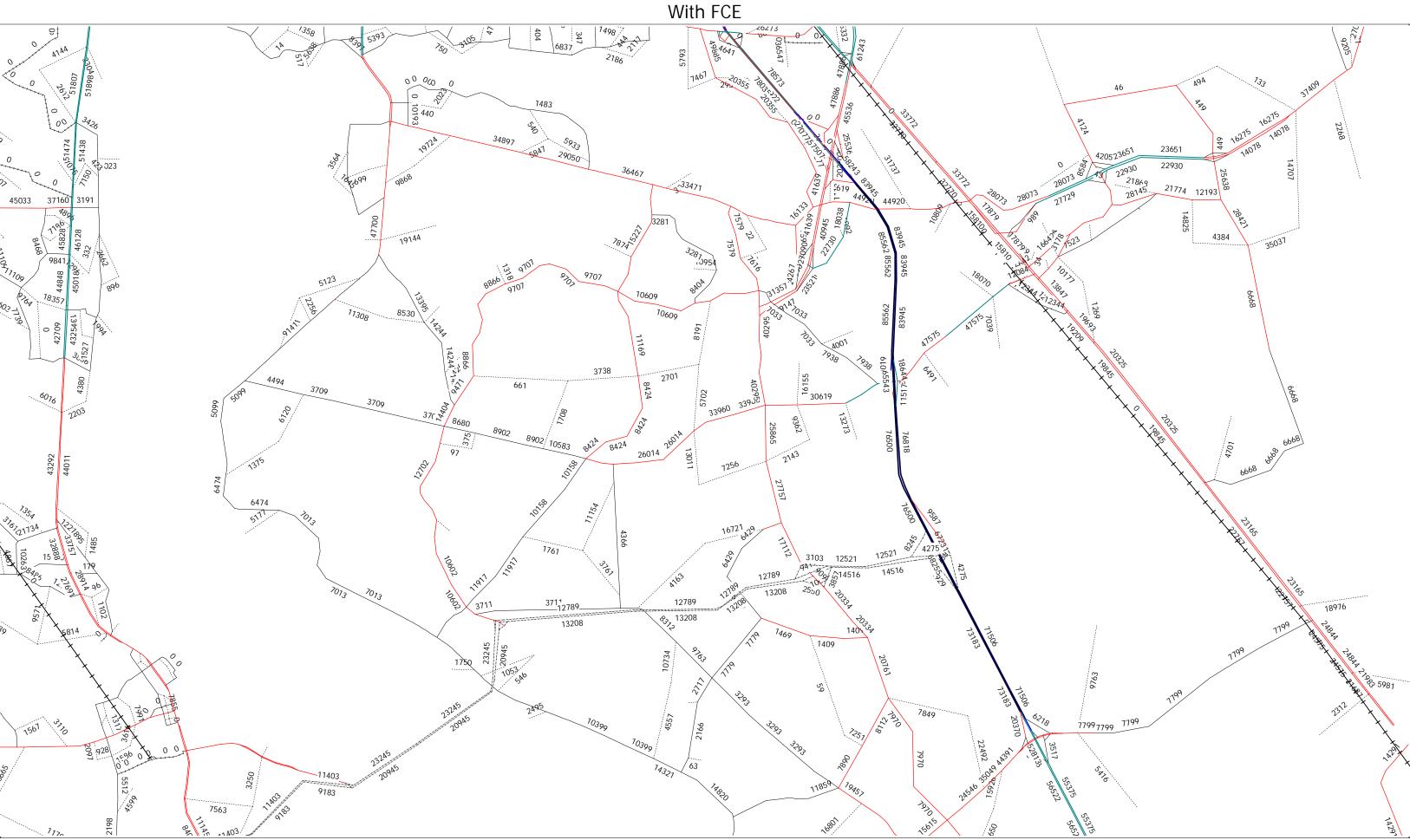
First Coast Expressway 2040 AADT With FCE



First Coast Expressway Study 2040 AADT Without FCE



First Coast Expressway Study 2045 AADT With FCE



First Coast Expressway Study 2045 AADT Without FCE

