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List of Acronyms and Abbreviations

AET	All-Electronic Toll
EDR	Enterprise Data Repository
FDOT	Florida Department of Transportation
FTE	Florida's Turnpike Enterprise
FY	Fiscal Year
HMLT	High Mast Light Tower
LNQC	Large Non-Qualifying Culverts
MRP	Maintenance Rating Program
NBI	National Bridge Inspection
PCS	Pavement Condition Survey
RRP	Roadway Rating Procedure
TEAMS	Turnpike Enterprise Asset Management System

Executive Summary

As General Engineering Consultants to the Florida Department of Transportation, Florida's Turnpike Enterprise (FTE) and in accordance with Section 5.13 of the Turnpike Enterprise Bond Resolution, Atkins and HNTB are pleased to submit the annual independent inspection asset condition report of the FTE System for the fiscal year (FY) ending June 30, 2022.

This year's inspection results confirm the success of FTE's ongoing, aggressive, and comprehensive maintenance efforts. The overall condition of the FTE system is good. The system's primary feature, 509 centerline miles of roadway is comprised of 40 characteristics. Overall, no roadway characteristic was found greater than 3 percent unsatisfactory, as shown on Table 13. For this report, roadway characteristics reported as unsatisfactory are defined as rated four (4) or below in the Roadway Rating Procedure (RRP), as described in Table 4.

The FY 2022 annual inspection revealed that majority of buildings were determined to be in overall good condition; however, there were some with unsatisfactory characteristics. Most of these unsatisfactory characteristics are cosmetic in nature and none pose structural concerns. Structures are inspected on a biennial basis by two (2) separate independent engineering consultants contracted to Florida Department of Transportation (FDOT). The most recent inspection was conducted in FY 2021-2022. Bridges were reported in good condition. Other structures inspected during the biennial inspection are included in this report.

FTE programmed \$70.32 million for periodic and routine maintenance in FY 2022. These funds are used for maintenance of all highway and structure assets, routine building maintenance, roof replacement/restoration, building renovation, toll plaza tunnel sealing, drainage improvements and safety related upgrades. As a part of its Renewal and Replacement Program, FTE programmed \$84.55 million in FY 2022 for roadway resurfacing; roadway, bridge, and facility construction; toll equipment enhancement; and bridge repair work.

This report presents an analysis of inspection findings, the current status of the FTE system with respect to the RRP and the programmed maintenance funding level commitments through FY 2026. Based on prioritization of specific unsatisfactory characteristics identified by FTE's Maintenance Office and coordination of funding-related issues with FTE's Finance Office, recommendations are made for the initiation of conceptual studies and funding for several improvement projects. FTE's commitment to system improvement and preservation is apparent based on the emphasis placed on its Maintenance and Renewal and Replacement programs. By continually monitoring system conditions and ensuring that its facilities are maintained in good condition, FTE is better able to provide for the safety and convenience of its customers while also maintaining a secure investment for bondholders.



1. Introduction

1.1. Purpose

FTE is required by Section 5.13 of the Turnpike Enterprise Bond Resolution and Statement 34 of the Governmental Accounting Standards Board (GASB) to perform an independent review of the overall condition of all bonded assets. FTE's General Engineering Consultants, Atkins and HNTB, perform a comprehensive annual inspection of all roadways (not including mainline pavement) and facilities. Updates of the inspection findings are provided to FTE's Facilities and Roadway Maintenance departments every 30-business days during the inspection cycle.

1.2. General Description and Inspection Procedure

The FTE system is comprised of multi-lane, limited-access toll facilities. Components of the system included in the FY 2022 inspection cycle are 509 centerline miles, 304 buildings at 260 facility locations and 731 bridges. Bridge inspection reports are not disclosed in this report based on FDOT policy regarding disclosure of structure details. The system's mainline roadway segments are summarized in Table 1.

Table 1: FTE System Segments

Segment	Length (centerline miles)
Florida's Turnpike – SR 91 & SR 408 to SR 91 Ramps	265
Florida's Turnpike - SR 821	47
Sawgrass Expressway – SR 869	23
Beachline West Expressway – SR 528	8
Beachline East Expressway – SR 528 & SR 407	22
Seminole Expressway – SR 417	18
Veterans Expressway – SR 589	15
I-4 Connector (ramps)	1
Southern Connector Extension – SR 417	6
Polk Parkway – SR 570	25
Suncoast Parkway – SR 589 (includes Veterans Expressway Spur SR 568)	53
Western Beltway – SR 429 (1 mi ramp not included)	11
First Coast Expressway – SR 23	15
Total	509



1.2.1. FTE Inspection Zones

Geographic zones were established by the Consultant team to describe the primary FTE system components relative to all regions of the state. The roadway and structure inspections are based on five zones and the building inspections are based on 10 zones. The system components, or portions thereof, included in each of the inspection zones are described in Table 2 and illustrated in Appendix A: Maps of System Components and Inspection Zones.

Table 2: Maintenance Inspection Zones

Roadways and Structures					
	Florida's Turnpike – Milepost 0X through 100 - SR 91				
Zone I	Florida's Turnpike - SR 821				
	Sawgrass Expressway - SR 869				
Zone II	Florida's Turnpike - Milepost 100 through 200 - SR 91				
	Florida's Turnpike - Milepost 200 through 309 - SR 91				
	Beachline West Expressway - SR 528				
	Beachline East Expressway - SR 528				
Zone III	Challenger Memorial Parkway - SR 407				
Zone iii	Florida's Turnpike Connection to East-West Expressway - SR 408				
	Southern Connector Extension - SR 417				
	Seminole Expressway - SR 417				
	Western Beltway - SR 429				
	Veterans Expressway - SR 589 Spur SR 569				
Zone IV	Polk Parkway - SR 570				
	Suncoast Parkway - SR 589				
Zone V	First Coast Expressway – SR 23				
	Building - Facilities and Communications				
Florida's Turnpike - SR 821	Florida's Turnpike - SR 821				
Floridala Turnnika Couth	Florida's Turnpike - Milepost 0X - MP 88				
Florida's Turnpike - South	Sawgrass Expressway – SR 869				
Florida's Turnpike - Central	Florida's Turnpike - Milepost 88 through 236 - SR 91				
	Florida's Turnpike - Milepost 236 through 309 - SR 91				
	Beachline West Expressway - SR 528				
Florida's Turnpike - North	Beachline East Expressway – SR 528				
	Southern Connector Extension – SR 417				
	Western Beltway – SR 429				
Seminole	Seminole Expressway – SR 417				
I-4 Crosstown Conn.	I-4 Connector. NB/SB Gantry Structure				
Veterans	Veterans Expressway - SR 568				
Polk	Polk Parkway - SR 570				
Suncoast	Suncoast Parkway - SR 589				
First Coast	First Coast Expressway – SR 23				



1.2.2. Inspection Categories

To efficiently inspect the FTE system, all assets have been placed into three major categories: roadways, buildings, and structures. The Atkins – HNTB team inspects roadways and buildings on an annual basis while structures are inspected on a biennial basis by a separate group of consultants (see Section 1.2.3.3).

Table 3 summarizes the three inspection categories by listing the five general elements for roadways, the 14 general elements for buildings and the four general elements for structures.

Table 3: 2022 Inspection Categories and Elements

Category	Element
	Roadway
	Roadside
Roadway	Traffic Services
	Drainage
	Vegetation - Aesthetics
	Architecture
	Building HVAC
	Domestic Plumbing
	Building Electrical
	Communications, Fire Alarm, Monitoring Devices
	Concrete Pavement & Sidewalks
Building	Sewer / Septic Tanks, Lift Stations & Wells
Building	Islands
	Booths
	Canopy
	Plaza Concrete Aprons
	Site Grounds
	Stand-By Power
	Structural
	Bridges
Structure	Large Non-Qualifying Culverts
Structure	High Mast Light Towers
	Overhead Sign Structures



1.2.3. Roadway Rating Procedure (RRP)

FTE and Atkins developed an RRP to assess FTE's assets. The RRP was developed based on the principles of the Maintenance Rating Program (MRP) Handbook, State Materials Office and FDOT Standard Index criteria as the baseline criteria for the roadway inspections. The RRP is not intended to mimic or compare itself to the MRP process. The RRP is to be an independent assessment. The RRP uses a 10-point rating scale with percentage of characteristics rated "4 or below" as presented on Tables 8 thru 13.

The RRP expands on the 35 MRP characteristics to include concrete barrier, riprap, and rutting, stripping, cracking in asphalt ramp pavement locations. Based on the RRP procedure, mainline roadway elements are visually inspected and documented in one-mile increments. On and off ramps are visually inspected and documented for their entire length. The FTE facilities as documented in this annual inspection report, and ramps are all assigned a rating based on the RRP ten-point scale.

RRP mainline inspections include all characteristics outside of the travel way such as paved and unpaved shoulders, fencing, guardrail, etc. RRP ramp inspections include all paved portions of ramps in addition to the same elements included with the mainline inspections.

Mainline travel way pavement is inspected by the State Materials Office (SMO) and these results are published annually in the Pavement Condition Survey (PCS). Beginning and ending mileposts of active construction zones are recorded during inspections and the roadway characteristics for these areas are not inspected or used in developing ratings in this report."

For efficiency, GPS-enabled tablets are utilized to enter ratings and recommendations into an Atkins-developed database as the field inspections are performed. The database is maintained throughout the duration of the inspection process and utilized to generate each roadway report. Inspection results are identified in the worksheets by roadway/ramp segment and lane direction.

RRP ratings may be used by FTE in formulating general recommendations for system repair and improvement.



1.2.3.1. Roadway Rating Procedure Inspection Rating Scales

The following tables provide a description of ratings used by the RRP.

Table 4: Roadway Inspection Rating Scale

Grade	Rating	Description				
10 Excellent		Characteristic appearance and functionality/operability are in like-new condition.				
9-8 Good		Characteristic appearance and functionality/operability are in acceptable condition or above average condition.				
7-5 Degraded		Characteristic appearance and functionality/operability are below average.				
4-2 Unsatisfactory		Characteristic appearance and functionality/operability are unsatisfactory.				
1	Emergency	Characteristic appearance and functionality/operability are far below average, and immediate attention appears necessary to protect public or system asset.				

Table 5: Building Inspection Rating Scale

Grade	Rating	Description	
10	Excellent	No action necessary	
9	Very Good	No unsatisfactory characteristics noted	
8	Good	Some minor unsatisfactory characteristics noted; minor maintenance may be required	
7 Satisfactory Characteristic shows some mind		Characteristic shows some minor deterioration; maintenance may be required	
6 Fair Characteristic is sound but may have minor loss of function; min rehabilitation may be required		Characteristic is sound but may have minor loss of function; minor rehabilitation may be required	
5 Degraded Characteristic shows partial function loss; reh		Characteristic shows partial function loss; rehabilitation may be required	
4	Serious	Loss of function has seriously affected this Characteristic; repair or rehabilitation is required soon to maintain functionality	
3	Critical	Advanced loss of function is present, and it may be necessary to stop the function until corrective action can be taken	
2	Imminent Failure	Characteristic is not functioning; immediate corrective action may forestall the complete failure	
1	Failed	The Characteristic is out of service and beyond corrective action	



Structures, unlike roadways and buildings, are rated using modified federal and state standards as reflected in Appendix B: Inspection Rating Procedures for Roadways, Buildings and Structures, Section B - Structures Rating Procedure.

1.2.4. Inspection Procedure

All inspections are conducted according to standard procedures developed by the Federal Highway Administration (FHWA) and/or FDOT and involve an extensive visual examination of all elements relative to the category of inspection. A detailed tabulation of the conditions observed on the date of the field inspection is prepared in the form of inspection worksheets developed from the inspection database.

Due to the time duration between field inspection activities and publication of this report, certain characteristics identified in this report as requiring remedial action may have already been corrected through ongoing maintenance and construction activities. Repairs and improvements are typically funded through FTE's Maintenance Program, periodic or routine maintenance contracts or through FTE's Renewal and Replacement Program. Serious conditions that demand immediate attention (characteristics rated as a "1") are reported by the inspection team via email and phone call to the appropriate FTE office immediately upon their discovery in the field.

1.2.4.1. Roadway Inspection

The inspection team performs a visual inspection of 40 characteristics within the ROW limits. Mainline pavement is not included as part of the inspection of roadway characteristics as that inspection data is secured from the SMO. However, the ramp pavement is inspected, and all other 40 characteristics are inspected along each of the ramps throughout the system. A sample of the characteristics included are illustrated below in Figure 1.



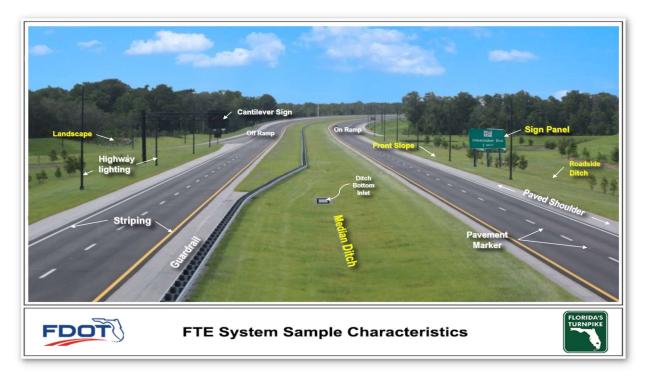


Figure 1: FTE System Sample Characteristics

1.2.4.2. Building Inspection

The annual maintenance inspection of FTE's building facilities is based on a condition assessment and inventory of 99 facility characteristics in 14 general elements. As part of the inspection process, all relevant characteristics are visually inspected, and ratings are assigned based on the conditions observed. A complete list of all buildings, elements and characteristics is included in Appendix B: Inspection Rating Procedures for Roadways, Buildings and Structures.

The building facilities inspection is based on five general building types:

- 1. Toll plaza administration buildings and canopies
- 2. Combination buildings
- 3. All-Electronic Toll (AET) equipment buildings
- 4. Communication tower buildings
- 5. Miscellaneous-use buildings

A total of 297 buildings located within ten maintenance inspection zones were inspected during the FY 2022 inspection.

Table 6 shows the number of each building type by inspections zone.

Building Inspection Zones First Coast Expressway Seminole Expressway 1-4 Crosstown Conn. Florida's Turnpike Florida's Turnpike Florida's Turnpike Florida's Turnpike Suncoast Veterans SR 821 Central South Polk **Type** Admin Bldgs AET / Equip / Combo Bldgs Communcation Bldgs Other Bldgs Totals

Table 6: Building Quantities

The inspection team performed room-by-room inventories and floor-to-ceiling visual condition evaluations for all 99 facility characteristics in every building within the FTE system.

1.2.4.3. Structure Inspection

The biennial structures inspection is based on four elements of major structures:

- 1. Bridges (including owned but not maintained)
- 2. Large non-qualifying culverts (LNQC)
- 3. High mast light towers (HMLT)
- 4. Overhead sign structures

The FTE system includes 2,448 individual structures. Table 7 shows the total quantities of all structures with respect to each of the five maintenance zones.

Zone II Zone III Zone IV Zone V Category Zone I **Totals Bridges** Large Non-Qualifying Culverts High Mast Light Towers Overhead Sign Structures 1,101 **Totals** 2,448

Table 7: Major Structure Quantities

The structures inspection for FY 2021 - 2022 was divided into two contracts. Zones 1 and 2 are performed by TranSystems Corporation Consultants; Zones 3, 4 and 5 are performed by Consor Engineers, LLC.

1.3. Information Sharing

In previous years, the Turnpike Enterprise Asset Management System (TEAMS) was used to assist in evaluating and identifying renewal and replacement needs for the Turnpike system on a per-fiscal-year basis. TEAMS has been replaced by the Enterprise Data Repository (EDR) system and historical TEAMS data has been incorporated into the current EDR platform.

The initial EDR module for pavement data is operational with additional modules being made available in the near future. FTE's SharePoint system is a secondary platform where the raw inspection data is stored, and where 30-business day work periods of unsatisfactory rating reports are deposited for both roadway maintenance and facilities. This new system will allow password-access to data by bondholders7

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2. Rating Procedure Findings

The findings included in this report are based on an extensive evaluation of the roadway, building and structures inspection worksheets prepared by a team of independent engineering consultants. This report summarizes the data included in the inspection worksheets, bridge inspection reports and PCS, which reflect the condition of the characteristics at the time of inspection. Complete listings of characteristics typically inspected in each of the three major categories of facilities are included in Appendix B: Inspection Rating Procedures for Roadways, Buildings and Structures.

2.1. Roadways

Roadway characteristic conditions found during the RRP inspection for each of the maintenance zones are summarized in Tables 8 through 13. Each table contains only characteristics listed in Appendix B: Inspection Rating Procedures for Roadways, Buildings and Structures A rating of four or below on the field inspection worksheets indicates that the portion of the characteristic is in less than fair (unsatisfactory) condition.

Each unsatisfactory characteristic is discussed in Section 3 Inspection Results. RRP inspection results reported in Tables 8 through 13 are derived from the Atkins - HNTB Roadway Rating Procedure.



Table 8: Condition of Roadway Characteristics – Zone I (Turnpike Mainline (SR 91) - MP 0X-100, SR 821, SR 869)

Element	Characteristic	Quantity Inspected	Units	Quantity Rated Four or Below	Percent Rated Four or Below
	Pothole	81	Ramp Miles	0	0.00%
	Joint	1,037	Each	2	0.19%
	Pavement Void	81	Ramp Miles	0	0.00%
	Edge Ravel	295	Miles	0	0.14%
Roadway	Rutting	81	Ramp Miles	0	0.00%
Roadway	Cracking	81	Ramp Miles	6	7.36%
	Depression	295	Miles	0	0.00%
	Stripping	81	Ramp Miles	0	0.00%
	Shoving	81	Ramp Miles	0	0.00%
	Paved Shoulder	827	Miles	2	0.24%
	Soil Shoulder	295	Miles	5	1.70%
	Front Slope	295	Miles	0	0.00%
Roadside	Sidew alk	0	SF	0	0.00%
	Slope Protection	124,315	SY	8	0.01%
	Fence	202	Miles	0	0.00%
	Pavement Marker	154,227	Each	0	0.00%
	Striping	1,340	Miles	1	0.09%
	Pavement Symbol	357,612	SF	0	0.00%
	Guardrail	229	Miles	8	3.49%
	Attenuator	190	Each	0	0.00%
Traffic Services	Barrier Wall	147	Miles	0	0.00%
	Signs Less Than 30 SF	3,793	Each	2	0.05%
	Signs Greater Than 30 SF	554	Each	1	0.18%
	Object Marker	8,920	Each	118	1.32%
	Sign Light	8,250	Each	0	0.00%
	Highw ay Light	7,499	Each	3	0.04%
	Cross Drain	139,963	Each	0	0.00%
	Roadside Ditch	11	Miles	0	0.00%
	Median Ditch	1	Miles	0	0.00%
Drainage	Outfall Ditch	14,860	Feet	0	0.00%
Drainage	Curb Inlet	3,753	Each	4	0.11%
	Rip Rap	8,250	SY	0	0.00%
	Misc. Inlet	195	Each	0	0.00%
	Roadw ay Sw eep	295	Miles	0	0.00%
	Roadw ay Mowing	2,530	Acres	0	0.00%
	Slope Mowing	443	Acres	0	0.00%
Vegetation/	Landscape	21	Acres	0	0.00%
Aesthetics	Tree Trim	295	Miles	0	0.05%
	Litter Removal	295	Miles	1	0.34%
	Turf Condition	295	Miles	0	0.00%



Table 9: Condition of Roadway Characteristics - Zone II (Turnpike Mainline (SR 91) - MP 100-200)

Element	Characteristic	Quantity Inspected	Units	Quantity Rated Four or Below	Percent Rated Four or Below
	Pothole	15	Ramp Miles	0	0.00%
	Joint	526	Each	0	0.00%
	Pavement Void	15	Ramp Miles	0	0.00%
	Edge Ravel	218	Miles	0	0.00%
Roadway	Rutting	15	Ramp Miles	0	0.00%
Roadway	Cracking	15	Ramp Miles	0	0.00%
	Depression	218	Miles	0	0.00%
	Stripping	15	Ramp Miles	0	0.00%
	Shoving	15	Ramp Miles	0	0.00%
	Paved Shoulder	566	Miles	0	0.00%
	Soil Shoulder	218	Miles	7	3.21%
	Front Slope	218	Miles	0	0.00%
Roadside	Sidew alk	0	SF	0	0.00%
	Slope Protection	12,041	SY	0	0.00%
	Fence	188	Miles	0	0.01%
	Pavement Marker	43,515	Each	0	0.00%
	Striping	660	Miles	0	0.00%
	Pavement Symbol	103,557	SF	0	0.00%
	Guardrail	189	Miles	13	6.81%
	Attenuator	126	Each	0	0.00%
Traffic Services	Barrier Wall	55	Miles	0	0.00%
	Signs Less Than 30 SF	1,536	Each	0	0.00%
	Signs Greater Than 30 SF	232	Each	1	0.43%
	Object Marker	6,027	Each	108	1.79%
	Sign Light	996	Each	0	0.00%
	Highw ay Light	882	Each	0	0.00%
	Cross Drain	28,565	Each	0	0.00%
	Roadside Ditch	1	Miles	0	0.00%
	Median Ditch	0	Miles	0	0.00%
Drainaga	Outfall Ditch	9,893	Feet	0	0.00%
Drainage	Curb Inlet	788	Each	0	0.00%
	Rip Rap	996	SY	0	0.00%
	Misc. Inlet	47	Each	0	0.00%
	Roadw ay Sw eep	218	Miles	0	0.00%
	Roadw ay Mow ing	1,714	Acres	0	0.00%
	Slope Mowing	165	Acres	0	0.00%
Vegetation/	Landscape	18	Acres	0	0.00%
Aesthetics	Tree Trim	218	Miles	0	0.00%
	Litter Removal	218	Miles	0	0.00%
	Turf Condition	218	Miles	0	0.00%



Table 10: Condition of Roadway Characteristics – Zone III (Turnpike Mainline - MP 200-309, Beachline E&W, SR 407, SR 408, SR 417, SR 429)

Element	Characteristic	Quantity Inspected	Units	Quantity Rated Four or Below	Percent Rated Four or Below
	Pothole	65	Ramp Miles	0	0.00%
	Joint	943	Each	0	0.00%
	Pavement Void	65	Ramp Miles	0	0.00%
	Edge Ravel	408	Miles	1	0.24%
Roadway	Rutting	65	Ramp Miles	0	0.00%
Roadway	Cracking	65	Ramp Miles	0	0.00%
	Depression	408	Miles	0	0.00%
	Stripping	408	Ramp Miles	0	0.00%
	Shoving	408	Ramp Miles	0	0.00%
	Paved Shoulder	1,076	Miles	0	0.00%
	Soil Shoulder	408	Miles	8	1.96%
	Front Slope	408	Miles	3	0.73%
Roadside	Sidew alk	0	SF	0	0.00%
	Slope Protection	52,243	SY	0	0.00%
	Fence	339	Miles	7	2.07%
	Pavement Marker	112,940	Each	0	0.00%
	Striping	1,306	Miles	6	0.46%
	Pavement Symbol	337,824	SF	0	0.00%
	Guardrail	376	Miles	0	0.00%
	Attenuator	206	Each	0	0.00%
Traffic Services	Barrier Wall	64	Miles	0	0.00%
	Signs Less Than 30 SF	3,366	Each	3	0.09%
	Signs Greater Than 30SF	603	Each	1	0.17%
	Object Marker	9,861	Each	125	1.27%
	Sign Light	5,708	Each	0	0.00%
	Highw ay Light	5,245	Each	7	0.13%
	Cross Drain	162,462	Each	0	0.00%
	Roadside Ditch	18	Miles	0	0.00%
	Median Ditch	12	Miles	0	0.00%
Drainage	Outfall Ditch	25,387	Feet	0	0.00%
Drailiage	Curb Inlet	3,259	Each	1	0.03%
	Rip Rap	5,708	SY	0	0.00%
	Misc. Inlet	228	Each	1	0.44%
	Roadw ay Sw eep	408	Miles	0	0.00%
	Roadw ay Mow ing	2,963	Acres	0	0.00%
	Slope Mow ing	502	Acres	2	0.40%
Vegetation/	Landscape	97	Acres	0	0.00%
Aesthetics	Tree Trim	408	Miles	4	0.98%
	Litter Removal	408	Miles	0	0.00%
	Turf Condition	408	Miles	0	0.00%



Table 11: Condition of Roadway Characteristics – Zone IV (Veterans, Polk & Suncoast)

Element	Characteristic	()IIantity		Below	Percent Rated Four or Below
	Pothole	42	Ramp Miles	0	0.00%
	Joint	642	Each	1	0.16%
	Pavement Void	42	Ramp Miles	0	0.00%
	Edge Ravel	235	Miles	2	0.85%
Roadway	Rutting	42	Ramp Miles	1	2.37%
Rodaway	Cracking	42	Ramp Miles	0	0.00%
	Depression	235	Miles	0	0.00%
	Stripping	235	Ramp Miles	0	0.00%
	Shoving	235	Ramp Miles	0	0.00%
	Paved Shoulder	552	Miles	2	0.36%
	Soil Shoulder	235	Miles	2	0.85%
	Front Slope	235	Miles	11	4.68%
Roadside	Sidew alk	1	SF	0	0.00%
	Slope Protection	23,590	SY	0	0.00%
	Fence	185	Miles	8	4.32%
	Pavement Marker	77,497	Each	0	0.00%
	Striping	607	Miles	1	0.16%
	Pavement Symbol	353,757	SF	0	0.00%
	Guardrail	Guardrail 99 Miles 1		1	1.01%
	Attenuator	r 107 Each 0		0	0.00%
Traffic Services	Barrier Wall	Barrier Wall 42 Miles 2		2	4.78%
	Signs Less Than 30 SF	2,074	Each	2	0.10%
	Signs Greater Than 30 SF	327	Each	0	0.00%
	Object Marker	21,878	Each	69	0.32%
	Sign Light	4,809	Each	0	0.00%
	Highw ay Light	3,907	Each	2	0.05%
	Cross Drain	157,271	Each	1	0.00%
	Roadside Ditch	7	Miles	0	0.00%
	Median Ditch	1	Miles	0	0.00%
Drainage	Outfall Ditch	11,878	Feet	0	0.00%
Drainage	Curb Inlet	1,676	Each	0	0.00%
	Rip Rap	4,809	SY	0	0.00%
	Misc. Inlet	88	Each	0	0.00%
	Roadw ay Sw eep	235	Miles	1	0.43%
	Roadw ay Mow ing	1,886	Acres	1	0.05%
	Slope Mowing	335	Acres	6	1.79%
Vegetation/	Landscaping	29	Acres	0	0.00%
Aesthetics	Tree Trim	235	Miles	18	7.65%
	Litter Removal	235	Miles	4	1.70%
	Turf Condition	235	Miles	0	0.00%



Table 12: Condition of Roadway Characteristics – Zone V (First Coast Expressway)

Element	Characteristic	Characteristic Quantity Units Rated Fou		Below	Percent Rated Four or Below
	Pothole	8	Ramp Miles	0	0.00%
	Joint	52	Each	0	0.00%
	Pavement Void	8	Ramp Miles	0	0.00%
	Edge Ravel	37	Miles	0	0.00%
Roadway	Rutting	Rutting 8 Ramp Miles		0	0.00%
libuulluy	Cracking	8	Ramp Miles	0	0.00%
	Depression	37	Miles	0	0.00%
	Stripping	37	Ramp Miles	0	0.00%
	Shoving	37	Ramp Miles	0	0.00%
	Paved Shoulder	102	Miles	0	0.00%
	Soil Shoulder	37	Miles	0	0.00%
	Front Slope	37	Miles	0	0.00%
Roadside	Sidew alk	0	SF	0	0.00%
	Slope Protection	0	SY	0	0.00%
	Fence	31	Miles	0	0.18%
	Pavement Marker	10,011	Each	0	0.00%
	Striping	110	Miles	0	0.00%
	Pavement Symbol	35,781	SF	0	0.00%
	Guardrail	7	Miles	0	0.00%
	Attenuator 0		Each	0	0.00%
Traffic Services	Barrier Wall 1		Miles	0	0.00%
	Signs Less Than 30 SF	316	Each	0	0.00%
	Signs Greater Than 30 SF	65	Each	0	0.00%
	Object Marker	1,016	Each	6	0.59%
	Sign Light	830	Each	0	0.00%
	Highw ay Light	893	Each	0	0.00%
	Cross Drain	24,641	Each	0	0.00%
	Roadside Ditch	0	Miles	0	0.00%
	Median Ditch	0	Miles	0	0.00%
Drainage	Outfall Ditch	3,643	Feet	0	0.00%
Drainage	Curb Inlet	129	Each	0	0.00%
	Rip Rap	830	SY	0	0.00%
	Misc. Inlet	18	Each	0	0.00%
	Roadw ay Sw eep	37	Miles	0	0.00%
	Roadw ay Mow ing	439	Acres	0	0.00%
	Slope Mow ing	62	Acres	0	0.00%
Vegetation/	Landscaping	0	Acres	0	0.00%
Aesthetics	Tree Trim	37	Miles	0	0.00%
	Litter Removal	37	Miles	0	0.00%
	Turf Condition	37	Miles	0	0.00%



Table 13: Condition of Roadway Characteristics – Summary of All Zones

Element	Characteristic	Quantity Inspected	Units	Quantity Rated Four or Below	Percent Rated Four or below
	Pothole	211	Ramp Miles	0	0.00%
	Joint	3,200	Each	3	0.09%
	Pavement Void	211	Ramp Miles	0	0.00%
	Edge Ravel	Edge Ravel 1,193		3	0.28%
D	Rutting	211	Ramp Miles	1	0.47%
Roadway	Cracking	211	Ramp Miles	6	2.84%
	Depression	1,193	Miles	0	0.00%
	Stripping	1,193	Ramp Miles	0	0.00%
	Shoving	1,193	Ramp Miles	0	0.00%
	Paved Shoulder	3,123	Miles	4	0.13%
	Soil Shoulder	1,193	Miles	22	1.84%
	Front Slope	1,193	Miles	14	1.17%
Roadside	Sidew alk	1	SF	0	0.00%
	Slope Protection	212,189	SY	8	0.00%
	Fence	945	Miles	15	1.60%
	Pavement Marker	398,190	Each	0	0.00%
	Striping	4,024	Miles	8	0.21%
	Pavement Symbol	1,188,531	SF	0	0.00%
	Guardrail	Guardrail 900 Miles		22	2.43%
Traffic Services	Attenuator	629	Each	0	0.00%
	Barrier Wall	309	Miles	2	0.65%
	Signs Less Than 30 SF	11,085	Each	7	0.06%
	Signs Greater Than 30 SF	1,781	Each	3	0.17%
	Object Marker	47,702	Each	426	0.89%
	Sign Light	20,593	Each	0	0.00%
	Highw ay Light	18,425	Each	12	0.07%
	Cross Drain	512,902	Each	1	0.00%
	Roadside Ditch	38	Miles	0	0.00%
	Median Ditch	15	Miles	0	1.19%
Drainage	Outfall Ditch	65,661	Feet	0	0.00%
Drainage	Curb Inlet	9,605	Each	5	0.05%
	Rip Rap	20,593	SY	0	0.00%
	Misc. Drain	576	Each	1	0.17%
	Roadw ay Sw eep	1,193	Miles	1	0.08%
	Roadw ay Mow ing	9,532	Acres	1	0.01%
	Slope Mowing	1,506	Acres	8	0.53%
Vegetation/	Landscape	166	Acres	0	0.00%
Aesthetics	Tree Trim	1,193	Miles	22	1.86%
	Litter Removal	1,193	Miles	5	0.42%
	Turf Condition	1,193	Miles	0	0.00%



2.2. Buildings

2.2.1. Toll Plaza Mainline and Ramp Facilities

Toll plaza administration buildings and canopies are located either as part of a mainline toll plaza or ramp toll plaza facility. The canopies typically extend from the administration buildings outward over the tollbooths or toll collection equipment located between the travel lanes.

Mainline plazas are typically connected to the toll collection booths/equipment by an underground tunnel, which facilitates transport of personnel, toll collection data and supplies. Figure 2 identifies the major elements of a toll plaza.



Figure 2: Major Toll Plaza Elements (Non-AET)

Several major toll plaza buildings as pictured in Figure 2 above have been or are scheduled for replacement with AET plazas, which consist of toll equipment buildings, generators, fuel tanks and overhead gantry structures (accessible and non-accessible). These are mainly on the Turnpike Mainline section. Table AET plazas are currently under construction in other areas of the FTE system. Figure 3 provides a sketch of a typical AET plaza.



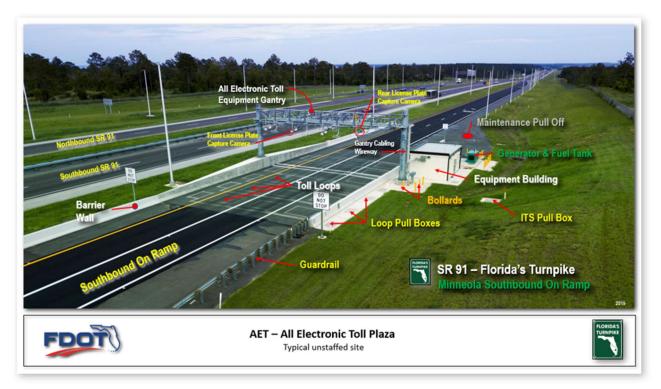


Figure 3: Typical Unstaffed AET

2.2.2. Administration and Miscellaneous Buildings

FTE's administrative buildings are used by a variety of FDOT functional areas and other Florida agencies, including: the Florida Highway Patrol Troops K and L, Motor Carrier Compliance Office, FDOT Districts 4 and 6, FTE's Office of Toll Operations and FTE's Operations and Concession Management and Marketing Offices. See Figure 4 and Figure 5 for examples.



Figure 4: Fort Pierce Florida Highway Patrol Post - SR 91





Figure 5: Turkey Lake Florida Highway Patrol Building - SR 91

2.2.3. Communication Tower Buildings

FTE communication tower buildings are typically small structures constructed of concrete and block. These structures house the electronic circuitry and equipment that supports the microwave radio communications system, which is relied upon by the FTE Operations Offices. Figure 6 provides an exterior example; Figure 7 is an interior example.



Figure 6: Communications Building Exterior - Canoe Creek





Figure 7: Communications Building Interior – Leesburg US-27

2.2.4. Water/Wastewater Treatment Plants

The water/wastewater treatment plants provides water to and receives wastewater from the service plaza restaurant, common areas and service station. The only water/wastewater plant on the FTE system is at the Fort Drum Service Plaza. In 2010, it was updated with a new treatment plant and effluent pond under the Areas USA, Inc. contract and is operational.

2.2.5. Service Plaza Restaurants and Service Stations

There are 8 service plazas located throughout the Turnpike system. Each plaza location is accompanied by a service station (Convenience (C)-Store). The plazas are operated and maintained by Areas USA through a concessions contract with FTE. Figure 8 shows a typical service plaza restaurant building.



Figure 8: Turkey Lake Service Plaza



The Snapper Creek Service Plaza has two separate facilities that are maintained by FTE and are currently being used for FDOT/FTE administrative construction / maintenance office spaces, FHP Troop K offices / operations, and for the SunPass Customer Service Center.

The initial inspection of service plazas began in late 2021 and reoccur biennially. The results of the inspection are disclosed in the Service Plaza Inspections Report delivered to FTE in early 2022.

Table 14 summarizes findings of the FTE on-system inspections performed at all 10 facility zones combined for the 14 facility elements, broken down by their respective characteristics.

Table 14: Condition of Buildings - All Zones

Element	Characteristics	Number Inspected	Number Rated Four or Below	Percent Rated Four or Below
	Caulking	46	0	0.00%
	Ceiling	514	1	0.19%
	Ceilings and Ceiling Grids	576	2	0.35%
	Counters/Cabinets and Drawers	259	0	0.00%
	Doors / Frames (Interior and Exterior)	1,626	8	0.49%
	Elevator	12	0	0.00%
	Elevator Certification	23	0	0.00%
	Flooring (Interior and Accessories)	1,002	8	0.80%
	Handrail	81	1	1.23%
Architecture	Joint Sealants	538	0	0.00%
Acmiectare	Lockers	48	0	0.00%
	Paint - Interior and Exterior	1,386	3	0.22%
	Restroom Appurtenances	141	0	0.00%
	Roof Drain	40	0	0.00%
	Shelves	105	0	0.00%
	Site Signs	245	0	0.00%
	Walls (Concrete Block, Brick, Stucco or EIFS)	553	1	0.18%
	Walls (Exterior)	275	2	0.73%
	Walls (Interior)	1,093	3	0.27%
	Windows and Storefronts	407	1	0.25%
	Faucets / Sinks	288	0	0.00%
Domestic Plumbing	Piping / Valves	246	0	0.00%
Fixtures	Toilets / Urinals	152	0	0.00%
	Water Heater	76	0	0.00%



Element	Characteristics	Number Inspected	Number Rated Four or Below	Percent Rated Four or Below
	Canopy lighting	79	0	0.00%
	Conduits / Junction Box	301	0	0.00%
	Grounding	299	0	0.00%
	Light Switches	132	0	0.00%
	Lighting (Exterior)	326	0	0.00%
	Lighting (Interior)	1,246	2	0.16%
	Lightning Protection	184	0	0.00%
	Motor Control Center	12	0	0.00%
	Nose Flasher	249	0	0.00%
Building Electrical	Panelboards	460	0	0.00%
	Receptacle	1,524	29	1.90%
	Sign Lighting	78	0	0.00%
	Site Lighting	30	0	0.00%
	Switchboards and Breakers	438	5	1.14%
	Toll Indicator	172	0	0.00%
	Traffic Red / Green Lighting	82	0	0.00%
	Transformers	42	0	0.00%
	TVSS (Transient Voltage Surge Suppressor)	372	0	0.00%
	Wiring	1,317	5	0.38%
	Air Cooled Chiller and Piping	13	0	0.00%
	Air Handlers	371	0	0.00%
	Condensing Units	389	0	0.00%
	Ductwork and Insulation	507	1	0.20%
Building HVAC	Exhaust Fans	297	0	0.00%
-	HVAC Control Systems	345	0	0.00%
	Package Unit	301	0	0.00%
	Supply and Outside Air FANS	51	0	0.00%
	Ventilation Outlets	966	1	0.10%
	Concrete (Precast/Cast-in Place)	112	0	0.00%
Structural	Masonry	74	1	1.35%
	Steel Framing	64	0	0.00%
Sewer/Septic Tanks, Lift	Lift stations and Wells	34	0	0.00%
stations & Wells	Sewer/Septic Tanks	16	0	0.00%
	Landscape	20	0	0.00%
0:4- 0	Parking Area	8	0	0.00%
Site Grounds	Site Grounds	170	1	0.59%
	Turf Condition	32	0	0.00%



Element	Characteristics	Number Inspected	Number Rated Four or Below	Percent Rated Four or Below
	Canopy Columns	153	0	0.00%
	Canopy Fascia	87	0	0.00%
	Canopy Signs	207	0	0.00%
Canopy	Canopy Underside	75	1	1.33%
Сапору	Sign Structure	175	0	0.00%
	Variable Message Signs	20	0	0.00%
	Gantry	106	0	0.00%
	Gantry Columns	106	0	0.00%
	CCTV (Close Circuit TV)	150	0	0.00%
	Fire Alarm	20	0	0.00%
Communications, Fire	Fire Extinguisher	865	2	0.23%
Alarm and Monitoring	Fire Pump System	3	0	0.00%
Devices	Intercom System	3	0	0.00%
	Security	283	0	0.00%
	Telephone System	388	0	0.00%
Concrete Pavement &	Concrete Pavement	367	0	0.00%
Sidewalks	Sidewalk and Curb	111	1	0.90%
	Booth Ceiling	124	0	0.00%
	Counters/Cabinets and Drawers (Booth)	124	0	0.00%
Booth	Doors / Splash Door (Booth)	124	0	0.00%
	Flooring (Booth)	124	2	1.61%
	Toll Booth Windows/Glazing	124	1	0.81%
	ACM	66	0	0.00%
	Attenuator	208	0	0.00%
Island	Bollards	332	0	0.00%
	Island Concrete	193	0	0.00%
	Island Signs	179	0	0.00%
	Apron Sweep	161	0	0.00%
	Cracking	161	0	0.00%
Plaza Concrete Apron	Joints	161	0	0.00%
	Pavement Voids	161	0	0.00%
	Striping	161	1	0.62%
	Fuel Line	153	0	0.00%
	Fuel Tank	153	16	10.46%
Stand-By Power	Gauges	127	0	0.00%
Olana-Dy i Owei	LP Tank	22	1	4.55%
	Stand-By Generator	244	3	1.23%
	UPS (Uninterrupted Power Supply)	246	0	0.00%



2.3. Structures

2.3.1. Bridges

The Federal National Bridge Inspection (NBI) is performed in accordance with the National Bridge Inspection guidelines. Safety concerns prohibit publishing details related to the bridge inspection. Bondholders may contact individual FDOT Maintenance Districts to request the latest reports detailing any concerns. It should be noted that the 2022 Comprehensive Annual Financial Report shows a total of 731 bridges, which is the total number of bridges owned but not necessarily inspected by FTE. FTE structures maintenance data query from July 1, 2022, indicates a total of 731 bridges maintained and inspected by FTE and noted that four are rated as five or in "Fair Condition".

2.3.2. Large Non-Qualifying Culverts (LNQC)

An independent structures consultant inspects all LNQCs once every six years (1/3 of the total per cycle) throughout the FTE system and noted that of 242 existing culvert structures, 9 are rated as five or in "Fair Condition". The majority of LNCQs (172) are in Zones II and III of the five roadway and structure inspection zones.

2.3.3. High Mast Light Towers (HMLT)

The Federal NBI guidelines do not address HMLTs; however, at the direction of FDOT, an independent structures consultant uses the same ten-point scale of the NBI to rate the condition of HMLTs in the biennial inspection report.

The most current report indicates that of the 373 HMLTs currently in operation within the FTE system, 53 are rated as five, or in "Fair Condition". The HMLT rating and corresponding rating scale are summarized in Appendix B: Inspection Rating Procedures for Roadways, Buildings and Structures.

2.3.4. Overhead Sign Structures

The independent structures consultant noted that of 1,101 existing overhead sign structures, 63 are rated as five or in "Fair Condition". Table 15 summarizes the overhead sign structures inspected and those rated in fair condition by inspection zone for this reporting period.

Zone	Number Inspected	Number Rated Five or Below	Percent Rated Five or Below
I	525	28	5.33%
II	52	2	3.85%
III	266	25	9.40%
IV	222	8	3.60%
V	36	0	0.00%
TOTALS	1,101	63	5.72%

Table 15: Condition of Overhead Sign Structures



FY 2022 Annual Inspection Report

The biennial inspection of the FTE's overhead sign structures is based on a visual inspection of three individual sign characteristics, horizontal and vertical members, and structure foundations. These characteristics, along with the sign rating scale, are listed in Appendix B: Inspection Rating Procedures for Roadways, Buildings and Structures.



3. Inspection Results

Element characteristics rated four or below (equal to or greater than 20 percent) in each of the three categories are identified in this report. As mentioned previously, it is possible that repairs/improvements have addressed some of the items identified as below standard in this report due to the lag-time between inspections and issuance of the report. The numbers of construction and maintenance contracts for each category that were either in effect or advertised during the fiscal year are

NONE OF THE DEFICIENCIES
OBSERVED BY THE
INSPECTION TEAMS, POSE A
SAFETY CONCERN TO FTE
CUSTOMERS.

summarized in Tables 16 - 18 to give some indication of the work effort already in-place. Many of the contracts listed on Tables 16 - 18 will likely extend over several fiscal years.

The determinations provided in this report do not consider the criticality of characteristics in relationship to each other. When reviewing below standard characteristics, several considerations influence the desired level of service. These include safety, protection of private and public investment, comfort, economics, environmental impact, aesthetics, and funding constraints. A pavement void, for example, would receive priority over litter removal because it may have an immediate impact on the driving experience of the customer. Standard procedures for rating system facilities are explained in Appendix B: Inspection Rating Procedures for Roadways, Buildings and Structures.

3.1. Roadways

No major roadway characteristics were identified by FTE's annual inspection team as being unsatisfactory. However, according to the 2022 PCS Pavement Cracking rating, there are currently 110.85 lane miles reported deficient, of which 65.75 lane miles, or 59.31 percent, are located on SR 91 in Broward County.



Roadway improvement projects are scheduled for Broward County in FY 2023 and 2024 to address the Broward County section. The first 36.21 miles are scheduled for FY 2023 with the remaining 29.54 miles of improvement scheduled for FY 2024.

The overall RRP rating was 95.39 for all elements combined across the system. The RRP results indicate that FTE's aggressive and comprehensive Maintenance and Renewal and Replacement programs continue to be effective.

THE RESULTS OF THIS
YEAR'S ANNUAL INSPECTION
INDICATE THAT FTE'S
ROADWAY FACILITIES ARE
MAINTAINED IN AN OVERALL
GOOD CONDITION.

3.1.1. Roadway

The roadway element, which is comprised of all characteristics of the pavement, has achieved an RRP overall rating of 94.62 on all ramp sections. no major below standard characteristics were identified in any of the maintenance zones reported by the annual inspection. These positive ratings are indicative of FTE's ongoing pavement resurfacing efforts along several portions of the system and an active preventive maintenance program. Table 16 represents construction and maintenance contracts in effect or let during FY 2022.

Table 16: Roadway Contracts in Effect or Advertised During FY 2022

Time	Zone	Construction		Maintenance		Total Roadway &	
Type	Zone	Total per Zone	No. of Contracts	Total per Zone	No. of Contracts	Maintenance Dollars	
	Zone I	\$1,163,373,631	15	\$26,030,876	53	\$1,189,404,507	
Contracts in	Zone II	\$83,577,416	4	\$25,177,805	7	\$108,755,221	
Effect or Advertised in	Zone III	\$581,766,101	14	\$61,690,796	10	\$643,456,896	
Single Zones	Zone IV	\$399,538,999	9	\$29,624,216	9	\$429,163,215	
	Zone V	\$0	0	\$20,697,685	5	\$20,697,685	
	Zones I & II	\$7,377,355	2	\$1,311,762	7	\$8,689,117	
	Zones I & III	\$3,179,902	1	\$0	0	\$3,179,902	
Contracts in	Zones II & III	\$7,559,000	1	\$375,200	3	\$7,934,200	
Effect or Advertised	Zones I, II & III	\$106,952,365	1	\$0	0	\$106,952,365	
Across Multiple	Zones I, II & IV	\$0	0	\$2,589,651	1	\$2,589,651	
Zones	Zones I, III & IV	\$5,565,378		\$0	0	\$5,565,378	
	Zones III & IV	\$0	0	\$4,841,095	1	\$4,841,095	
	Zones III, IV & V	\$0	0	\$41,956	1	\$41,956	
Totals	All Zones	\$2,358,890,147	47	\$172,381,042	97	\$2,531,271,189	



3.1.2. Roadside

The determination of an RRP rating for roadside characteristics is generally based upon the consideration of all fencing, shoulder, slopes, and other characteristics located outside of the paved travel way (Figure 1). The overall RRP rating for Roadside for this FY is 94.83 with no major below standard characteristics of more than 1.84 percent noted for the five characteristics of this element on FY 2022. Figure 9 shows a typical paved and soil shoulder section on FTE's system.



Figure 9: Typical Paved and Soil Shoulder Section

3.1.3. Traffic Services

The Traffic Services element rating is based on the condition of all characteristics that

guide, protect, and assist the customer while traveling FTE's roadways, interchanges, and service areas. The overall RRP rating for Traffic Services is 93.51 for FY 2022. with no major below standard characteristics of more than 1.93 percent noted for the 11 characteristics of this element on FY 2022. Zone one has the characteristic of Guardrail with 5.92 percent and Zone one has the characteristic of Object Markers with 4.09 percent. Typical Guardrail example on the FTE system is shown in Figure 10.



Figure 10: Typical Guardrail



3.1.4. Drainage

The rating for this element is based on the overall condition of all structures that collect, treat and convey stormwater run-off. The RRP rating for drainage is 98.96 for FY 2022. Overall, no below standard ratings of more than 0.17 percent were noted for the eight characteristics of this element in FY 2022. Error! Reference source not found. shows a typical median ditch on the FTE system.

3.1.5. Vegetation - Aesthetics

According to its comprehensive Turf Management Plan, FTE continually monitors the condition of vegetation and the need for mowing, trimming, relandscaping, and litter removal. The overall RRP rating for Vegetation and Aesthetics is 95.05 for FY 2022. Overall, no below standard ratings of more than 1.86 percent were noted for the six characteristics of this element in FY 2022. Figure 12 shows an example of landscape in FTE's system.



Figure 11: Typical Median Ditch



Figure 12: Typical Landscape

3.2. Buildings

Overall, 27,942 comments were made of building elements inspected, of which, 103 were rated as being in condition four or below, for a below standard characteristic rating of less than 1 percent. The majority of reported four or below ratings were not structural or safety related concerns.

FTE toll plaza administration buildings, canopies, and adjacent areas, which include parking and drainage areas, are generally in good condition. The following bullet points lists several building characteristics reported with ratings at the high end of the scale and a brief description about the rating (See Table 14: Condition of Buildings – All Zones).

• **Fuel Tank** (10.46 percent) – This characteristic refers to tanks supplying fuel to the stand-by generators. Most of the unsatisfactory ratings reported for this characteristic are missing tie-down straps and ID tags; more focus is needed on completion of the program to assure all tanks are tied down.



- **Receptacle** (1.90 percent) The majority of unsatisfactory ratings reported for this characteristic were ground fault interrupt (GFI) receptacles that were not functioning as intended; more focus is needed on maintenance of this characteristic.
- **LP Tank** (4.55 percent) The unsatisfactory ratings reported for this characteristic are missing tie-down straps.
- **Switchboards and Breakers** (1.14 percent) The majority of unsatisfactory ratings reported for this characteristic are labeling / incorrect directory, incomplete or missing in panels, and the clip-forced switches.
- **Flooring Booth** (1.61 percent) Unsatisfactory ratings for this characteristic included corroded supports and water intrusion.

During FY 2022, 28 facility construction projects included the continued implementation of open road tolling, gantries and AET buildings. In addition, 19 facility routine maintenance contracts are in effect or advertised as indicated in **Error! Reference source not found.**

Table 17: Facilities & Communication Contracts in Effect or Advertised During FY 2022

Category	No of Contracts	Activity	Cost
Maintenance			
Electrical	1	Maintenance, Repair, Testing and Verification of Electrical Services	\$427,625
Elevator	1	Elevator Maintenance Services	\$53,080
General	4	Routine Facilities Maintenance, Emer. Repair, Janitorial, Mowing & Security Services	\$326,461
HVAC	1	Heating, Ventilation and Air Conditioning Equipment, Repair	\$135,700
Painting	1	Concrete, Waterproofing, Sealing, Paint & General Facilities Svc	\$341,000
Pcard Services	Multiple	Pcard Services	\$309,620
Plumbing	1	Plumbing and Lift Stations	\$180,340
Roofing	1	Roof Replacement, Building Management System & Equipment Controllers	\$218,850
Standby Power	2	Generator, UPS & ATS Maintenance Services	\$929,990
Telecommunication	1	Maintenance of Statewide Telecommunications Network	\$290,568
Tollbooth	1	Tollbooth Repair Services	\$87,750
Water Treatment	2	Maintenance of Water Treatment Services	\$28,185
All Services	1	Performance-Based Contract - South Region	\$3,044,200
Pressure Cleaning	1	Pressure Cleaning Services	\$147,011
All Services	1	Performance-Based Contract - West Coast & Off-System (Prorated)	\$1,000,000
19 Maintenance Cor	\$7,520,380		



Category	No of Contracts	Activity	Cost		
Construction					
New Road Construction	1	Suncoast Parkway 2	\$134,599,795		
Interchange Improvement	1	Turnpike Mainline at I-4: MP 259 to Direct Connect Ramps (D/B)	\$84,939,000		
Add Lanes and Reconstruction	1	Widen TPK (SR91) Boynton Beach Blvd Lake Worth	\$167,808,460		
Resurfacing	1	Resurface TPK Mainline in Martin Cnty, MP 117 - 138	\$33,928,239		
Toll Plaza	1	All Electronic Tolling (AET) Phase 8 Ticket Sys. MP 88-236	\$106,952,365		
Add Lanes and Reconstruction	1	Widen Turnpike (SR 821) NW 106 St to I-75 (MP 34 - 39)	\$368,767,091		
Flexible Pavement Reconstruction	1	Reconstruct Mainline MP 138.13 to MP 153.23	\$31,832,323		
Add Lanes and Reconstruction	1	Widen HEFT from SR 836 to NW 106th St. (MP 26-34)	\$244,979,349		
Add Lanes and Reconstruction	1	Widen Polk Parkway from MP 18 to MP 22 (D/B)	\$61,180,000		
Miscellaneous Construction	1	Suntrax Connected/Auto Vehicle Testing Facility	\$139,979,406		
Resurfacing	1	Resurface Turnpike Mainline MP 260.2 to MP 265.3	\$18,857,000		
Dynamic Message Sign	1	DMS Signs at Service Plazas (MP 185.5 - MP 301)	\$7,559,000		
Toll Plaza	1	All Electronic Tolling (AET) - Polk Pkwy (MP 0 - MP 18)	\$31,637,485		
Resurfacing	1	Resurface Turnpike Mainline (MP 190.5 - MP 198.5)	\$16,707,654		
Flexible Pavement Reconstruction	1	Reconstruct TPK Mainline Sumter Cnty (MP 297.9 - 308.9)	\$11,716,022		
Add Lanes and Reconstruction	1	Widen TPK SR 50 Clermont to Orange, Orange to Minneola	\$162,313,833		
Overhead Signing	1	Beachline East (SR 528) Signs Replacement MP 30 - 46	\$1,690,165		
Resurfacing	1	Resurface TPK ML & Intchg, Safety & Improve, Orange Cty	\$21,999,573		
Other ITS	1	Wrong Way Detection Technology Implementation (D/B)	\$5,495,495		
ITS Communication System	1	Connected Vehicle Deployment SR 91 MP 255-267, SR 528 MP 0-8	\$3,696,363		
Resurfacing	1	Resurface Western Beltway (SR 429) (MP 1 - MP 5.5)	\$18,831,743		
Resurfacing	1	Resurface Seminole Expressway (MP 44.5 - MP 49.9)	\$13,350,942		
Add Lanes and Reconstruction	1	Add NB Lane Off Ramp Sample Rd / TPK Interchange	\$1,975,221		
Resurfacing	1	Resurface SR 91 & SR 821/SR 91 Ramps in Broward County	\$4,166,000		
Other ITS	1	Wrong Way Detection Technology Implementation (D/B)	\$10,781,928		
Resurfacing	1	Resurface TPK in Palm Beach County (MP 39.02 - MP 44.56)	\$12,517,000		
Interchange Improvement	1	SR 54 Operational Ramp Improvements	\$6,695,054		
Resurfacing	1	Resurface Suncoast (SR 589) in Hernando Cty (MP 112.2 - 117.8)	\$4,276,308		
28 Construction Cont	racts - To	otals	\$1,729,232,814		
47 Construction & Ma	intenand	ce Contracts - Facilities & Communications - Total	\$1,736,753,194		



3.3. Structures

3.3.1. Bridges

During FY 2022, several bridge construction contracts were in effect or advertised. Bridge improvement contracts are included within the total cost of several roadway construction projects either in effect, advertised or completed during the fiscal year. A summary of bridge construction costs was provided by the FTE Estimates Manager and is shown in Table 18.

Table 18: Bridge Contracts in Effect or Advertised During FY 2022

Location	Construction Cost
Zone I	\$144,199,192.00
Zone II	\$2,747,683.00
Zone III	\$82,942,512.00
Zone IV	\$24,671,603.00
Zone V	\$0.00
Zone I & II	\$3,574,190.00
Totals	\$258,135,180.00

The State Maintenance Office Bridge Inventory 2022 – Annual Report, which uses the NBI guidelines, reported four bridges in fair condition. FTE Maintenance directed a portion of its Periodic and Routine Maintenance funding in FY 2022 to rehabilitation and repair projects. Figure 13 shows an example of a bridge on the FTE system.



Figure 13: Bridge over Florida's Turnpike



3.3.2. Overhead Sign Structures

Overhead sign structures are inspected separately from those signs in the traffic services element due to being suspended above the travel way by large support structures, but the sign panel condition (retro-reflectivity, peeling, etc.) is documented in the RRP inspection. These signs provide critical directional information, guiding the customer throughout the FTE system. The overhead sign structures inspection reported no structures in poor condition. Figure 14 shows an example of a span sign in the FTE system.



Figure 14: Typical Overhead Sign Structure

3.3.3. High Mast Light Towers

Similar to overhead sign structures, HMLTs are included in the structure's inspection. These structures provide illumination for improved nighttime visibility at various locations along the turnpike systems, such as interchanges, service plazas and toll facilities. The HMLTs inspection noted no structures in poor condition for the 2022 inspection period.

3.3.4. Large Non-Qualifying Culverts

An LNQC is a structure that does not meet the statutory definition of a bridge. LNQCs are defined as a circular, elliptical arch or box type of culvert with a height greater than four feet, or clear span of ten feet or greater, but less than 20 feet.

LNQCs are inspected once every six years. Each cycle is a two-year period with 1/3 of the total LNQCs inspected during the cycle. It takes three cycles for the entire LNQC inventory to be inspected. The LNQCs are in good condition with minor repairs ongoing as



Figure 15: Typical Culvert

part of the routine maintenance contracts. The LNQCs inspection noted no structures in poor condition for the 2022 inspection period. Figure 15 shows an example of a culvert in the FTE system.



4. Commitments and Recommendations

4.1. Commitments

Analysis of data collected during the 2022 asset evaluation cycle indicates that FTE's Renewal and Replacement, Periodic, and Routine Maintenance programs are effective at maintaining the system at an optimal level. Programmed funding for physical improvements committed to these programs are indicated in Table 19.

Table 19: FY 2022 through 2026 Program Commitments (\$M)

Fiscal Year	Renewal & Replacement Contracts ^[1]	Periodic Maintenance ^[2]	Routine Maintenance [3]	Total	Gross Revenue ^[4]	Percentage of Gross Revenue
2022	\$84.55	\$5.26	\$65.06	\$154.87	\$1,099.80	14.08%
2023	\$124.45	\$17.47	\$70.75	\$212.67	\$1,110.51	19.15%
2024	\$116.62	\$20.17	\$82.58	\$219.37	\$1,167.58	18.79%
2025	\$109.13	\$7.22	\$71.73	\$188.08	\$1,199.27	15.68%
2026	\$78.33	\$7.22	\$74.17	\$159.72	\$1,230.20	12.98%

¹ Renewal and Replacement data captures all projects/phases using PKYR funding, excluding those PKYR projects that are in the Periodic Maintenance category.

The 16.14 percent 5-year average of gross revenue allocated to maintaining the system is evidence of FTE's commitment to protect the system's assets and bondholder's investments. Programmed commitments between FY 2022 and FY 2026 range from 12.98 to 19.15 percent of gross revenue with the upper limit of this range occurring in FY 2023.

New construction and improvement projects are valued at \$84.55 million for renewal and replacement work (PKYR) in FY 2022, and include roadway resurfacing; bridge, roadway, and facility construction; toll equipment enhancement; and bridge repair.

The amount of \$70.32 million programmed for periodic (PEMT) and routine maintenance (Phase 72) work in FY 2022 includes maintenance of all highway assets, building maintenance, building, renovation, building demolition, roof replacement, toll plaza tunnel sealing, drainage improvements and safety upgrades.

² Periodic Maintenance data captures all projects/phases using Item Group PEMT.

³ Routine Maintenance data captures all phase 72 projects.

⁴ Gross Revenue data was taken from the Traffic Engineer's Annual Report, Traffic Engineer's Annual Letter Report, Table 6 (Summary of Florida's Turnpike Enterprise System Toll and Concession Revenue Forecast (\$000) FY 2023 through FY 2033).



4.2. Recommendations

The 2022 annual inspection and asset analysis clearly indicates that the system is in an overall - GOOD condition. To maintain the excellent level of service provided to the system's customers well into the future, the Atkins – HNTB team recommends:

- Unsatisfactory ratings noted in the FY 2022 report should be addressed as resources allow.
- Critical or emergency items identified during all annual inspections should continue to be addressed at the time they are discovered.
- Future annual inspection characteristics reported below standard should be reviewed by the appropriate FTE personnel on a 30-business day schedule to determine priority levels for possible inclusion into existing maintenance or future construction projects.
- Continued review of consultant-recommended below-standard characteristics correction options and coordination of funding-related issues with FTE's Maintenance, Finance and Production Offices.
- Characteristics that continue to be reported with higher-than-average
 unsatisfactory ratings should be evaluated to determine if creation of a new
 projects may resolve the issues. Being proactive will ensure that unsatisfactory
 characteristics are addressed promptly and that items that are approaching this
 condition are resolved before they become unsatisfactory.
- Error! Reference source not found. provides a description of current projects with funding source, priority, and current funding status.

Table 20: Improvements, Current Funding Status, and Recommendations – Highway Operations

Priority Level	Description		OPS ID#	Current Funding Status and Recommendations
1	SR 407 Safety Enhancements	PKYI	OPS2022-4	FPID - 452109-1
2	2 First Coast Expressway Safety Enhancements		OPS2019-2	FPID - 449711-1 (Design is funded, Construction is not Funded)
3	Improve Bridge Approaches 930215		OPS2021-9	FPID - 452111-1
4	SR 407 ITS Improvements		OPS2022-5	FPID - 452109-1
5	CCTV Ramp Deployments		OPS2022-14	FPID - 452086-1,-2
6	CCTV Gap Project		OPS2021-6	FPID - TBD Varies
7	LED Lighting retrofit		OPS2022-1	FPID - 452228-1,-2,-3
8	8 Post-Construction Repair Issues		OPS2022-15	FPID - TBD
9	TSM&O Intersection Improvements at 112th Ave		OPS2022-9	FPID - TBD
10	SR 528 – Exit 8 EB Ramp Turning Radius		OPS2022-6	FPID - TBD



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Priority Level	Description			
	Description	Funding Source	OPS ID#	Current Funding Status and Recommendations
11	Increase Right Turn Curve Radius	PKYI	OPS2022-16	FPID - 452090-1 (Design funded 2024, Construction funded 2025)
12	Fort Drum & Fort Pierce Parking LotSigning Improvements		OPS2022-3	FPID - TBD
13	Atlantic Avenue Overhead Signage	PKYI	OPS2022-8	FPID - 452089-1 (Design funded 2024, Construction funded 2025)
14	Improve Access for Bridge 870930	PKYR	OPS2021-3	FPID - 450975-1 (Design funded 2024, Construction funded 2025)
15	Washout		OPS2022-2	FPID - TBD
16	Signing and Pavement Marking Review for Suncoast Trail - Arterial Crossings		OPS2021-10	FPID - 449391-1
17	Demolition of Boca Raton Toll Plaza	PKYR	OPS2022-17	FPID - 452108-1 (Design is not funded, Construction funded 2024)
18	Canopy Demolition at Spring Hill and Oak Hammock		OPS2022-18	Construction is not funded)
19	Extend the Service Life of Box Culvert Structures	PKYI	OPS2022-7	FPID - 452085-1 (Design funded 2025, Construction is not funded)
20	Emergency Response Access Locations	PKYI	OPS2015-1	FPID's - 449175-3 (ERAL) (Design funded 2023, Construction funded 2024) 449175-4 (Veterans ESS) (Design funded 2023, Construction funded 2025) 449175-1 (ESS Systemwide Design) (Design is not funded, Construction is not funded)
21	Median Shoulder Improvements		OPS2019-7	FPID - 449466-1 (Design is not funded, Construction is not funded)
22	SCADA for the ITS Generators for South Region		OPS2022-10	FPID - TBD
23	Generator Replacement		OPS2022-11	FPID - TBD
24	Consolidate Sunrise Blvd. Microwave Tower Site into the Central Office Shelter		OPS2022-19	FPID - TBD
25	DC Power System Upgrades at all FTE Tower Sites		OPS2022-20	FPID - TBD
26	Paved Shoulder Cracks at Barrier and MSE Walls		OPS2021-4	FPID - TBD
27	Connected Vehicle (Long-TermEvolution) at SunTrax		OPS2021-5	FPID - 449420-2 (Design is not funded, Construction is not funded)
28	Emergency Back-up Generators		OPS2020-8	FPID - 449420-1 (Design is not funded, Construction is not funded)
29	Arterial DMS Installations		OPS2021-7	FPID - Varies
30	Sawgrass Expressway DirectionalSignage	PKYI	OPS2021-11	FPID - 443612-1 (Design funded 2020, Construction funded 2023)
31	Pompano Beach TMC & AnnexRenovations		OPS2018-1	FPID - TBD
	ΓSM&O: Integrated Corridor Management and Detour Routing		OPS2022-12	FPID - TBD
33	TSM&O: Active Freeway Management		OPS2022-13	FPID - TBD
	Buried Foundation for Ancillary Structures - Sawgrass	PKYI/PKBD	OPS2017-1	FPID - 437155-5 (Design funded 2023, 2024 & 2025,
34	, ,			Construction funded 2026)



While it is recommended that funds are appropriated for improvements identified in the annual inspection, the requirements for other projects funded through the Renewal and Replacement Program should be evaluated with particular emphasis on the need to resurface the system mainline and ramp facilities. In addition to pavement resurfacing, the Renewal and Replacement Program includes other FTE system assets such as bridges, buildings, and

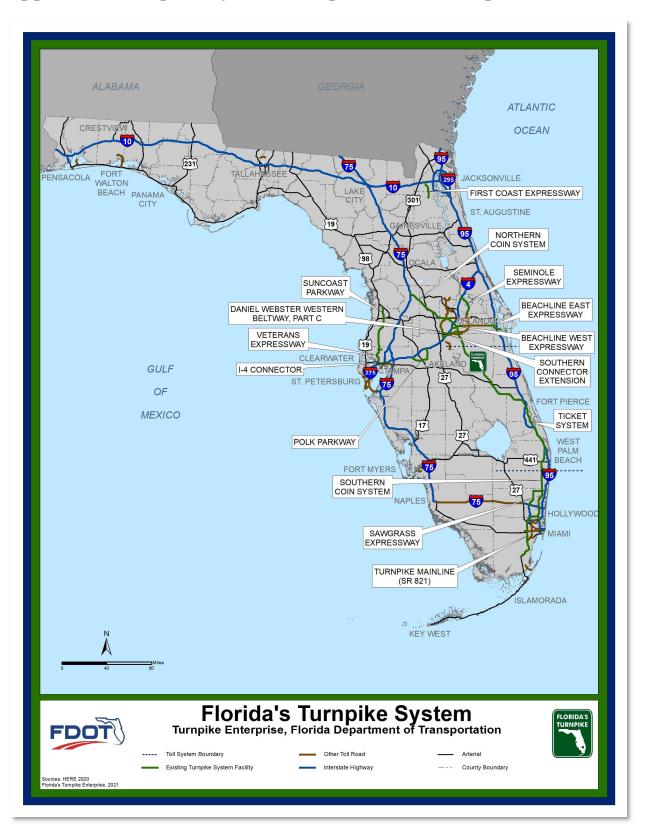
THE RESULTS OF THE 2022
ANNUAL INSPECTION CONFIRM
FTE'S COMMITMENT TO
MAINTAIN THE QUALITY AND
SAFETY OF THE SYSTEM AND
PROVIDE VALUE TO THE
BONDHOLDERS' INVESTMENT.

communications facilities; toll equipment; and utilities. Given the magnitude to which these assets affect overall FTE system operations, a significant level of emphasis should continue to be placed on FTE's Renewal and Replacement Program and related funding levels.

Appendices



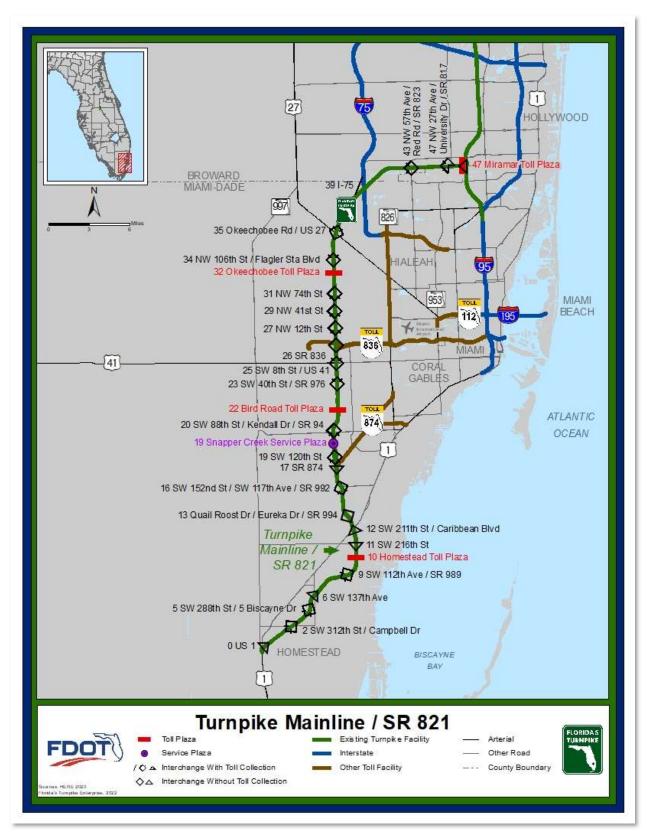
Appendix A: Maps of System Components and Inspection Zones



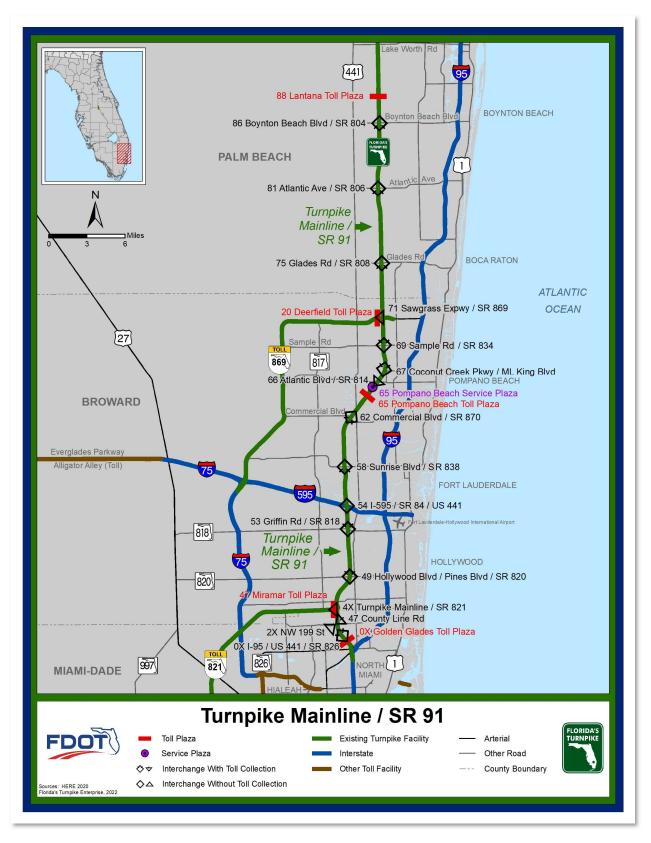




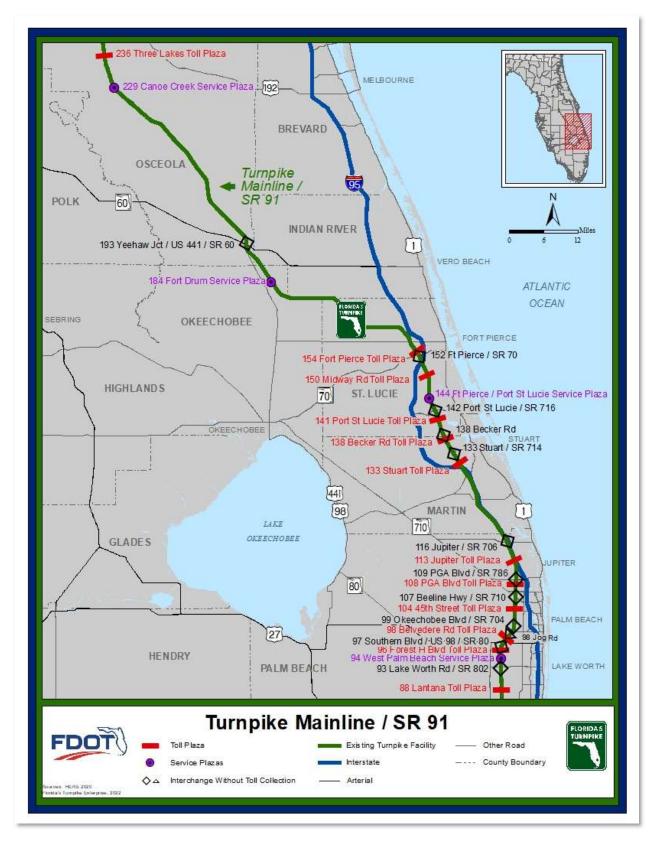




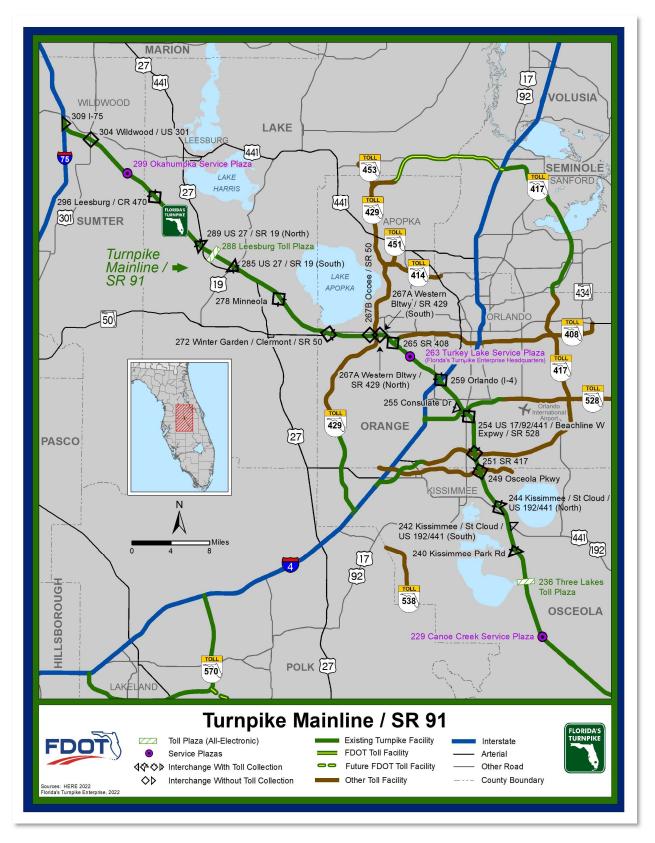








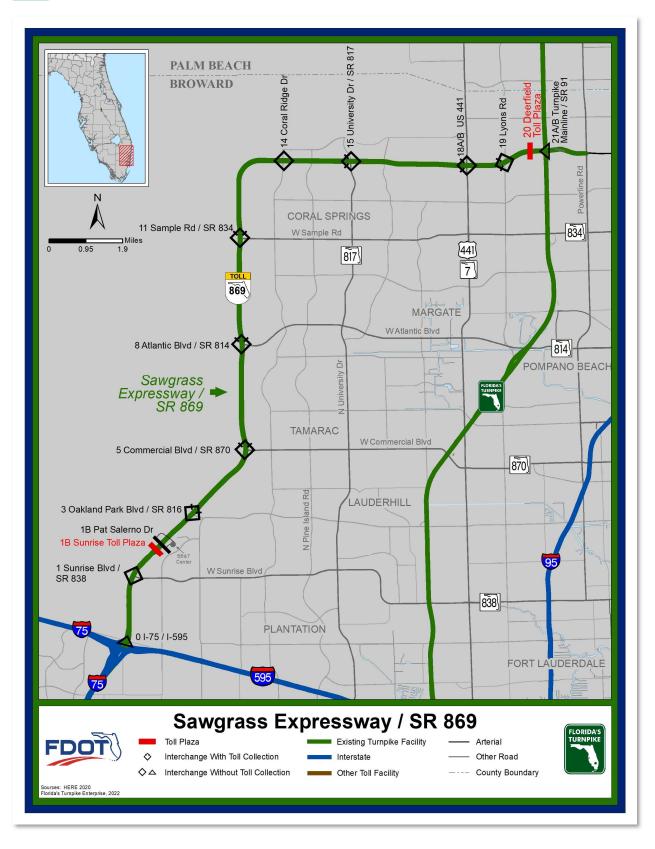




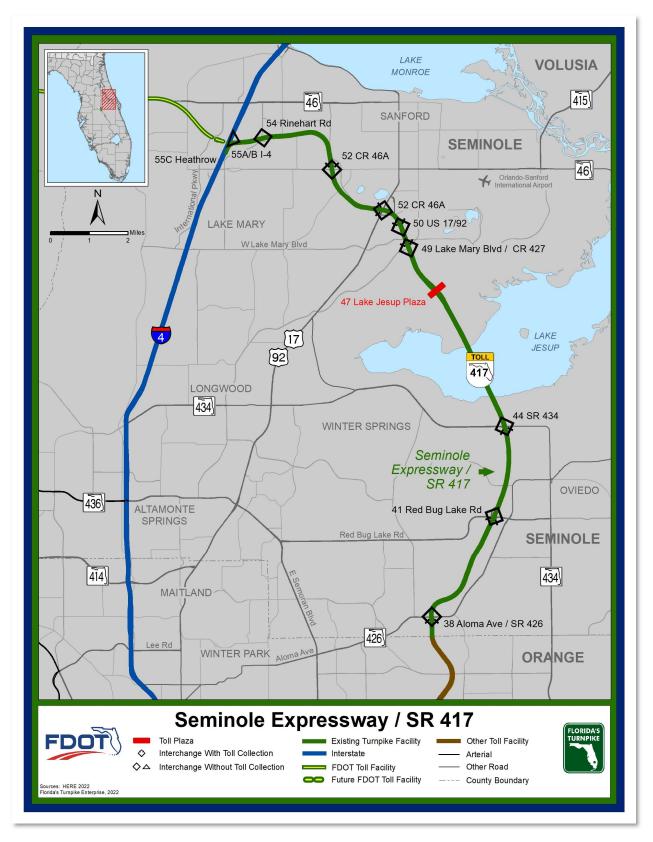
















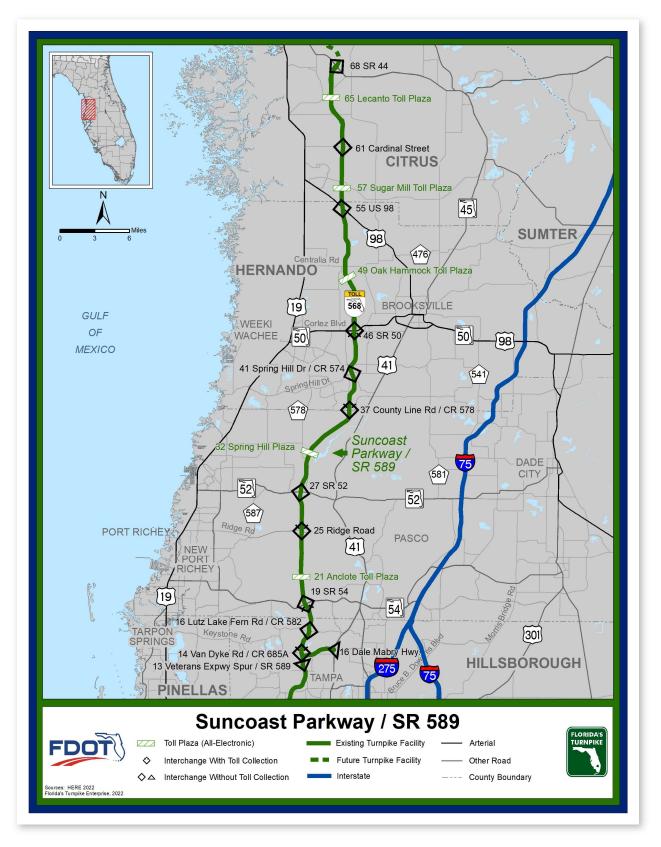




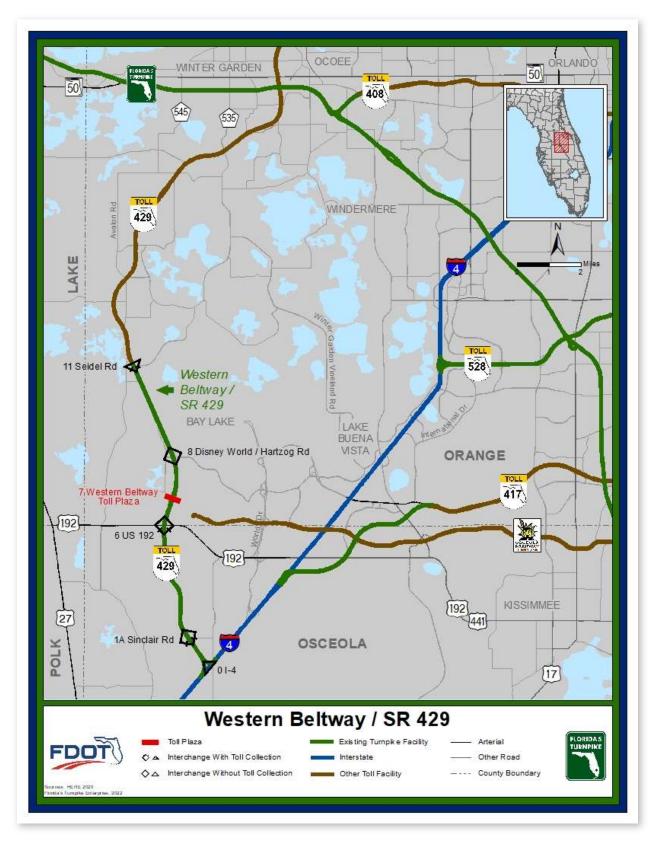








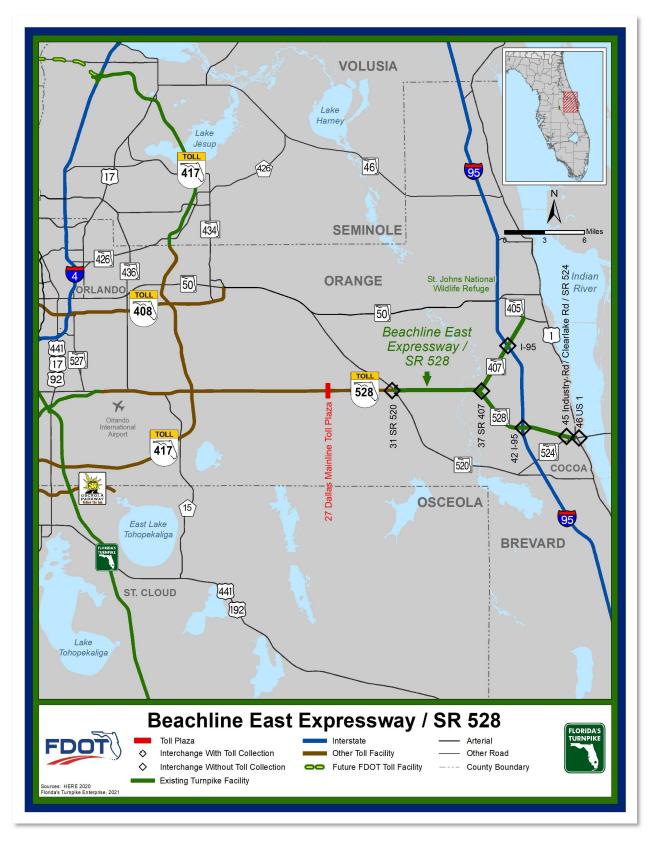




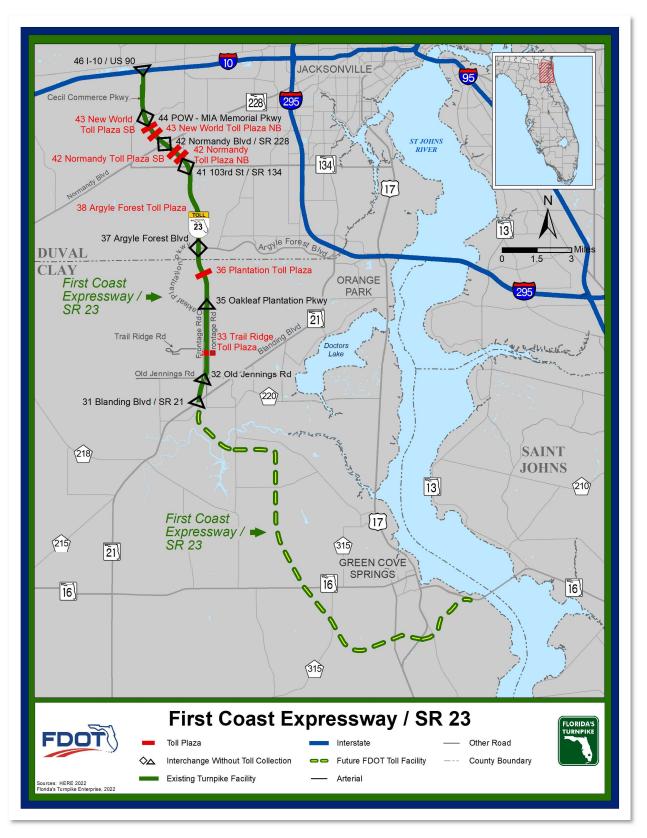












Appendix B: Inspection Rating Procedures for Roadways, Buildings and Structures

A. Roadway Rating Procedure

The Roadway Rating Procedure developed by FTE and Atkins is shown in Table 21. The ratings and descriptions of the numerical grading system are shown in Table 4 in Section 1.2.3.1. This information is entered directly into a database on a GPS enabled tablets in the field for later compilation and reporting for each roadway. Inspection results are identified by roadway / ramp segment and lane direction.

Table 21: RRP Roadway Elements and Characteristics

Road	Roadway		Vegetation / Aesthetics
Pothole	Cracking	Soil Shoulder	Roadway Mowing
Joint	Depression	Front Slope	Slope Mowing
Pavement Void	Stripping	Sidewalk	Landscape
Edge Ravel	Shoving	Slope Protection	Tree Trim
Rutting	Paved Shoulder	Fence	Litter Removal
			Turf Condition
Draii	nage	Traffic Services	
Cross Drain	Misc. Inlet	Pavement Marker	Signs Less Than 30 SF
Roadside Ditch	Roadway Sweep	Striping	Signs Greater Than 30 SF
Median Ditch		Pavement Symbol	Object Marker
Outfall Ditch		Guardrail	Sign Light
Curb Inlet		Attenuator	Highway Light
Rip Rap		Barrier Wall	

B. Structures Rating Procedures

The structures inspection is performed on a biennial basis and is subdivided into four major elements: bridges, large non-qualifying culverts, overhead sign structures, and high mast light towers.

Bridge Rating Procedure

Security concerns prohibit publishing detailed bridge reports outlining component deficiencies in this report. Bondholders may request bridge reports from the individual FDOT Maintenance Districts where the bridges are located.



The biennial inspection for fixed bridges is based on three main components comprised of a total of 93 characteristics and 117 sub-characteristics. A numerical score is generated for each characteristic based on the rating scale shown in Table 22.

Table 22: Bridge Inspection Rating Scale

Grade	Rating	Description
9	Excellent	All elements are in excellent condition.
8	Very Good	There were no problems noted.
7	Good	Element has some minor problems. Minor maintenance may be needed.
6	Satisfactory	Element shows some minor deterioration. Maintenance may be needed.
5	Fair	Element is sound but may have minor section loss. Minor rehabilitation may be needed.
4	Poor	Element exhibits advanced section loss. Major rehabilitation may be needed.
3	Serious	Element has loss of section that has seriously affected the structure. Repair of rehabilitation is required immediately.
2	Critical	Element shows advanced deterioration. It may be necessary to close the bridge until corrective action is taken.
1	Imminent Failure	Bridge is closed to traffic. Corrective action may permit light service.
0	Failed	Bridge is out of service and beyond corrective action.

Overhead Sign Structures Rating Procedure

The condition of overhead sign structures is determined based on the biennial inspection of three characteristics:

- 1. Overlane Sign Structure Foundation
- 2. Overlane Sign Structure Horizontal Member
- 3. Overlane Sign Structure Vertical Member

The standard rating scale is shown in Table 23.

Table 23: Overhead Sign Structures Inspection Rating Scale

Grade	Rating	Description	
8-9	Excellent	Performs function with high degree or reliability and or effectiveness	
6-7	Good	Performs intended function with small reduction and or effectiveness	
5	Fair	Performs intended function with significant reduction in reliability and or effectiveness. Repair or replacement may be required	
4-0	Poor	Does not perform intended function in an acceptable level of reliability and or effectiveness. Repair or replacement is required	

High Mast Light Tower Rating Procedure

The condition of high mast light towers is determined based on the biennial inspection of two characteristics:

- 1. High Mast Light Pole Foundation
- 2. High Mast Light Poles

The standard rating scale is shown in Table 24.

Table 24: High Mast Light Tower Inspection Rating Scale

Grade	Rating	Description	
8-9	Excellent	Performs function with high degree or reliability and or effectiveness	
6-7	Good	Performs intended function with small reduction and or effectiveness	
5	Fair	Performs intended function with significant reduction in reliability and or effectiveness. Repair or replacement may be required	
4-0	Poor	Does not perform intended function in an acceptable level of reliability and or effectiveness. Repair or replacement is required	



Building Rating Procedures

The annual building inspection is based on 14 elements and 97 characteristics. The building type dictates the specific report form that is used in field inspection. The general elements and their respective characteristics are listed in Table 25. The standard Building Inspection Rating Scale is shown in Table 5 in Section 1.2.3.1.

Table 25: Building Elements and Characteristics - FTE System (All Zones)

Element	Characteristics			
	Caulking	Lockers		
	Ceiling	Paint - Interior and Exterior		
	Ceilings and Ceiling Grids	Restroom		
	Counters/Cabinets and Drawers	Restroom Appurtenances		
Architecture	Doors / Frames (Interior and Exterior)	Shelves		
Acinecture	Elevator	Site Signs		
	Elevator Certification	Walls (Concrete Block, Brick, Stucco or EIFS)		
	Flooring (Interior and Accessories)	Walls (Exterior)		
	Handrail	Walls (Interior)		
	Joint Sealants	Windows and Storefronts		
	Canopylighting	Panelboards		
	Conduit	Receptacle		
	Grounding	Sign Lighting		
	Light Switches	Site Lighting		
Building Electrical	Lighting (Exterior)	Switchboards and Breakers		
	Lighting (Interior)	Toll Indicator		
	Lightning Protection	Transformers		
	Motor Control Center	TVSS (Transient Voltage Surge Suppressor)		
	Nose Flasher	Wiring		
	Air Cooled Chiller and Piping	HVAC Control Systems		
	Air Handlers	Package Unit		
Building HVAC	Condensing Units	Supply and Outside Air FANS		
	Ductwork and Insulation	Ventilation Outlets		
	Exhaust Fans			
	CCTV (Close Circuit TV)	Intercom System		
Communications, Fire Alarm	Fire Alarm	Security		
and Monitoring Devices	Fire Extinguisher	Telephone System		
	Fire Pump System			

Element	Characteristics		
Domestic Plumbing Fixtures	Faucets / Sinks	Toilets / Urinals	
Domestic Flumbling Fixtures	Piping / Valves	Water Heater	
Structural	Concrete (Precast/Cast-in Place)	Steel Framing	
Suuciurai	Masonry		
Sewer/Septic Tanks, Lift stations & Wells	Lift stations and Wells	Sewer/Septic Tanks	
Concrete Pavement & Sidewalks	Concrete Pavement	Sidewalk and Curb	
	ACM	Island Concrete	
Island	Attenuator	Island Signs	
	Bollards		
	Ceiling	Flooring (Booth)	
Booth	Counters/Cabinets and Drawers	Toll Booth Windows/Glazing	
	Doors / Splash Door (Booth)		
	Apron Sweep	Pavement Voids	
Plaza Concrete Apron	Cracking	Striping	
	Joints		
	Canopy Columns	Signs	
Canopy	Canopy Fascia	Traffic Red / Green Lighting	
Сапору	Canopy Underside	Variable Message Signs	
	Sign Structure		
Site Grounds	Landscape	Site Grounds	
Sile Giourius	Parking Area	Turf Condition	
	Fuel Line	LP Tank	
Stand-By Power	Fuel Tank	Stand-By Generator	
	Gauges	UPS (Uninterrupted Power Supply)	



Appendix C: Selected Photographs of Desired / Undesired Conditions



Desired Guardrail Asphalt Condition



Undesired Guardrail Asphalt Condition – Deterioration



Desired Travel Lane / Ramp Condition



Undesired Travel Lane / Ramp Condition – Deterioration









Undesired Soil, Shoulder and Front Slope Condition – Vegetation



Undesired Sign Reflectivity Condition – Material Cracked and Faded