Florida's Turnpike Enterprise



Annual Inspection Report

for the Fiscal Year ending June 30, 2021







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List of Acronyms and Abbreviations

AET	All-Electronic Toll
FDOT	Florida Department of Transportation
FTE	Florida's Turnpike Enterprise
FTS	Florida's Turnpike Services
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



Executive Summary

As General 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, 2021.

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, 498 centerline miles of roadway is comprised of 46 characteristics. Overall, no roadway characteristic was found greater than 20% 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 2021 annual inspection revealed that several 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 FDOT. The most recent inspection was conducted in FY 2020-2021. Bridges were reported in good condition. Other structures inspected during the biennial inspection are included in this report.

FTE programmed \$82.38 million for periodic and routine maintenance in FY 2021. 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 \$79.25 million in FY 2021 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 Roadway Rating Procedure (RRP) and the programmed maintenance funding level commitments through FY 2025. 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 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 2021 inspection cycle are 498 centerline miles, 327 buildings at 202 facility locations and 713 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
Homestead Extension of Florida's Turnpike (HEFT) – 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 & Veterans Expressway Spur SR 568	15
I-4 Connector (ramps)	1
Southern Connector Extension – SR 417	6
Polk Parkway – SR 570	25
Suncoast Parkway – SR 589	42
Western Beltway – SR 429 (1 mi ramp not included)	11
First Coast Expressway – SR 23	15
Total	498



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

Poodwaye and Christians						
Roadways and Structures						
	Florida's Turnpike – Milepost 0X through 100 - SR 91					
Zone I	Homestead Extension of Florida's Turnpike (HEFT) - 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					
20116 111	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					
HEFT	Homestead Extension of Florida's Turnpike (HEFT) - SR 821					
Southern	Florida's Turnpike - Milepost 0X - MP 88, & Sawgrass Expressway – SR 91 & SR 869					
Central	Florida's Turnpike - Milepost 88 through 236 - SR 91					
	Florida's Turnpike - Milepost 236 through 309 - SR 91					
	Beachline West Expressway - SR 528					
Northern	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 589						
Polk Parkway - SR 570						
Suncoast Suncoast Parkway - SR 589						
First Coast First Coast Expressway – SR 23						



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 1.2.4.3).

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: 2021 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		



1.2.2. 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 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 the 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 mainline, other 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.

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1.2.2.1. 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		
I 10 I Excellent I		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.		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 minor deterioration; maintenance may be required		
6	Fair	Characteristic is sound but may have minor loss of function; minor rehabilitation may be required		
5	Degraded	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.

1.2.3. 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.

1.2.3.1. 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 other sources as detailed in the Annual Inspection report. 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.

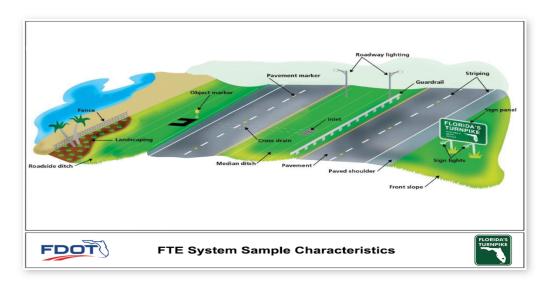


Figure 1: FTE System Sample Characteristics



1.2.3.2. Building Inspection

The annual maintenance inspection of FTE's building facilities is based on a condition assessment and inventory of 97 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 327 buildings located within ten maintenance inspection zones were inspected during the FY 2021 inspection.

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

Building **Inspection Zones** Seminole Expressway **Crosstown Conn. Turnpike Mainline** Southern Coin Northern Coin Ticket System Expressway First Coast Suncoast Veterans **Totals** Polk **Type** 4 7 7 Mainline Toll Plazas / AET 2 4 1 1 2 3 3 35 Off-Line Ramp Plazas / AET 32 37 17 32 13 0 9 12 0 168 16 Other 25 28 29 25 3 0 4 6 4 0 124 64 70 61 17 1 15 25 7 327 **Totals** 48 19

Table 6: Building Quantities

The inspection team performed room-by-room inventories and floor-to-ceiling visual condition evaluations for all 97 facility characteristics in every building within the FTE system.



1.2.3.3. 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 2,414 individual structures. Table 7 shows the total quantities of all structures with respect to each of the five maintenance zones.

Category	Zone I	Zone II	Zone III	Zone IV	Zone V	Totals
Bridges	237	102	204	159	15	717
Large Non-Qualifying Culverts	29	97	75	27	14	242
High Mast Light Towers	175	22	74	102	-	373
Overhead Sign Structures	517	56	257	216	36	1,082
Totals	958	277	610	504	65	2,414

Table 7: Major Structure Quantities

The structures inspection for fiscal year (FY) 2020 - 2021 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 bondholders.

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 that are present and inventoried in the particular zone. 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, Mainline 0X-100, Sawgrass)

Element	Characteristic	Quantity Inspected	Units	Quantity Rated Four or Below	Percent Rated Four or Below
	Pothole	81	Ramp Miles	1	0.87%
	Joint	1037	Each	11	1.06%
	Pavement Void	81	Ramp Miles	0	0.00%
	Edge Ravel	295	Miles	0	0.14%
Boodway	Rutting	81	Ramp Miles	0	0.00%
Roadway	Cracking	81	Ramp Miles	0	0.21%
	Depression	295	Miles	0	0.00%
	Stripping	81	Ramp Miles	0	0.00%
	Shoving	81	Ramp Miles	0	0.00%
	Paved Shoulder	295	Miles	0	0.00%
	Soil Shoulder	295	Miles	1	0.42%
	Front Slope	295	Miles	0	0.00%
Roadside	Sidew alk	42768000	SF	0	0.00%
	Slope Protection	124315	SY	0	0.00%
	Fence	295	Miles	3	1.03%
	Pavement Marker	125001	Each	0	0.00%
	Striping	295	Miles	1	0.42%
	Pavement Symbol	374474	SF	0	0.00%
	Guardrail	235	Miles	6	2.39%
	Attenuator	195	Each	0	0.00%
Traffic Services	Concrete Barrier	133	Miles	0	0.00%
	Signs Less Than 30 SF	7362	Each	2	0.03%
	Signs Greater Than 30 SF	6708	Each	0	0.00%
	Object Marker	5040	Each	206	4.09%
	Sign Light	8049	Each	0	0.00%
	Highw ay Light	7270	Each	11	0.15%
	Cross Drain	598	Each	0	0.00%
	Roadside Ditch	295	Miles	0	0.00%
	Median Ditch	202	Miles	0	0.00%
Drainage	Outfall Ditch	14246	Feet	0	0.00%
Diamage	Curb Inlet	3260	Each	16	0.49%
	Riprap	53130	SY	0	0.00%
	Misc. Inlet	195	Each	2	1.03%
	Roadw ay Sw eep	295	Miles	1	0.47%
	Roadw ay Mow ing	2654	Acres	0	0.00%
	Slope Mow ing	436	Acres	0	0.00%
Vegetation/	Landscape	21	Acres	0	0.00%
Aesthetics	Tree Trim	295	Miles	0	0.05%
	Litter Removal	295	Miles	0	0.00%
	Turf Condition	295	Miles	0	0.00%



Table 9: Condition of Roadway Characteristics - Zone II (Mainline 100-200)

	(Maillille 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	3	1.38%			
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	218	Miles	8	3.90%			
	Soil Shoulder	218	Miles	0	0.05%			
	Front Slope	218	Miles	0	0.00%			
Roadside	Sidew alk	7920000	SF	0	0.00%			
	Slope Protection	12041	SY	0	0.00%			
	Fence	218	Miles	0	0.01%			
	Pavement Marker	35324	Each	0	0.00%			
	Striping	218	Miles	0	0.00%			
	Pavement Symbol	102144	SF	0	0.00%			
	Guardrail	218	Miles	13	5.92%			
	Attenuator	116	Each	0	0.00%			
Traffic Services	Concrete Barrier	218	Miles	0	0.00%			
	Signs Less Than 30 SF	1751	Each	0	0.00%			
	Signs Greater Than 30 SF	1316	Each	4	0.30%			
	Regulatory Sign	4434	Each	149	3.36%			
	Sign Light	946	Each	0	0.00%			
	Highw ay Light	799	Each	2	0.25%			
	Cross Drain	395	Each	0	0.00%			
	Roadside Ditch	218	Miles	0	0.00%			
	Median Ditch	193	Miles	0	0.00%			
Drainage	Outfall Ditch	9141	Feet	0	0.00%			
Diamage	Curb Inlet	734	Each	0	0.00%			
	Riprap	10140	SY	0	0.00%			
	Misc. Inlet	47	Each	0	0.00%			
	Roadw ay Sw eep	218	Miles	0	0.00%			
	Roadw ay Mow ing	1736	Acres	0	0.00%			
	Slope Mow ing	164	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 (Mainline 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	5	0.53%
	Pavement Void	65	Ramp Miles	0	0.38%
	Edge Ravel	408	Miles	0	0.06%
Boodway	Rutting	65	Ramp Miles	0	0.00%
Roadway	Cracking	65	Ramp Miles	0	0.00%
	Depression	408	Miles	0	0.00%
	Stripping	65	Ramp Miles	0	0.00%
	Shoving	65	Ramp Miles	0	0.00%
	Paved Shoulder	408	Miles	1	0.15%
	Soil Shoulder	408	Miles	19	4.59%
	Front Slope	408	Miles	2	0.50%
Roadside	Sidew alk	34320000	SF	0	0.00%
	Slope Protection	52243	SY	0	0.00%
	Fence	408	Miles	15	3.71%
	Pavement Marker	84876	Each	0	0.00%
	Striping	408	Miles	0	0.05%
	Pavement Symbol	324376	SF	0	0.00%
	Guardrail	408	Miles	7	1.62%
	Attenuator	187	Each	0	0.00%
Traffic Services	Concrete Barrier	408	Miles	0	0.00%
	Signs Less Than 30 SF	4778	Each	12	0.25%
	Signs Greater Than 30SF	5417	Each	7	0.13%
	Object Marker	3323	Each	721	21.70%
	Sign Light	5677	Each	0	0.00%
	Highw ay Light	5168	Each	7	0.14%
	Cross Drain	996	Each	9	0.90%
	Roadside Ditch	408	Miles	0	0.04%
	Median Ditch	325	Miles	0	0.00%
Drainage	Outfall Ditch	22808	Feet	0	0.00%
Dramage	Curb Inlet	2838	Each	1	0.04%
	Riprap	22685	SY	0	0.00%
	Misc. Inlet	228	Each	53	23.25%
	Roadw ay Sw eep	408	Miles	0	0.00%
	Roadw ay Mow ing	2863	Acres	5	0.17%
	Slope Mowing	455	Acres	30	6.66%
Vegetation/	Landscape	92	Acres	2	2.11%
Aesthetics	Tree Trim	408	Miles	19	4.55%
	Litter Removal	408	Miles	0	0.05%
	Turf Condition	408	Miles	0	0.00%



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

Element	Characteristic	Quantity Inspected	Units	Quantity Rated Four or Below	Percent Rated Four or Below
	Pothole	42	Ramp Miles	0	0.00%
	Joint	642	Each	0	0.00%
	Pavement Void	42	Ramp Miles	0	0.00%
	Edge Ravel	235	Miles	0	0.00%
Roadway	Rutting	42	Ramp Miles	0	0.00%
Noauway	Cracking	42	Ramp Miles	0	0.00%
	Depression	235	Miles	0	0.00%
	Stripping	42	Ramp Miles	0	0.00%
	Shoving	42	Ramp Miles	0	0.00%
	Paved Shoulder	235	Miles	1	0.41%
	Soil Shoulder	235	Miles	8	3.58%
	Front Slope	235	Miles	2	0.77%
Roadside	Sidew alk	22176000	SF	0	0.00%
	Slope Protection	23590	SY	0	0.00%
	Fence	235	Miles	6	2.52%
	Pavement Marker	57500	Each	0	0.00%
	Striping	235	Miles	0	0.03%
	Pavement Symbol	308853	SF	1471	0.48%
	Guardrail	235	Miles	1	0.26%
	Attenuator	56	Each	0	0.00%
Traffic Services	Concrete Barrier	235	Miles	0	0.00%
	Signs Less Than 30 SF	3267	Each	2	0.06%
	Signs Greater Than 30 SF	4147	Each	0	0.00%
	Object Marker	19357	Each	256	1.32%
	Sign Light	4952	Each	0	0.00%
	Highw ay Light	4045	Each	12	0.30%
	Cross Drain	755	Each	1	0.13%
	Roadside Ditch	235	Miles	0	0.00%
	Median Ditch	183	Miles	0	0.00%
Drainage	Outfall Ditch	10180	Feet	0	0.00%
Diamage	Curb Inlet	1371	Each	0	0.00%
	Riprap	4019	SY	0	0.00%
	Misc. Inlet	88	Each	19	21.59%
	Roadw ay Sw eep	235	Miles	0	0.12%
	Roadw ay Mow ing	1939	Acres	0	0.00%
	Slope Mowing	340	Acres	7	2.12%
Vegetation/	Landscaping	30	Acres	0	0.00%
Aesthetics	Tree Trim	235	Miles	6	2.37%
	Litter Removal	235	Miles	0	0.00%
	Turf Condition	235	Miles	3	1.10%



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

(I list obast Expressway)							
Element	Characteristic	Quantity Inspected	Units	Quantity Rated Four or 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%		
Boodway	Rutting	8	Ramp Miles	0	0.00%		
Roadway	Cracking	8	Ramp Miles	0	0.00%		
	Depression	37	Miles	0	0.00%		
	Stripping	8	Ramp Miles	0	0.00%		
	Shoving	8	Ramp Miles	0	0.00%		
	Paved Shoulder	37	Miles	0	0.00%		
	Soil Shoulder	37	Miles	1	2.98%		
	Front Slope	37	Miles	0	0.00%		
Roadside	Sidew alk	4224000	SF	0	0.00%		
	Slope Protection	0	SY	0	0.00%		
	Fence	37	Miles	0	0.15%		
	Pavement Marker	6716	Each	0	0.00%		
	Striping	37	Miles	0	0.00%		
	Pavement Symbol	30733	SF	0	0.00%		
	Guardrail	37	Miles	0	0.00%		
	Attenuator	0	Each	0	0.00%		
Traffic Services	Concrete Barrier	37	Miles	0	0.00%		
	Signs Less Than 30 SF	421	Each	0	0.00%		
	Signs Greater Than 30 SF	809	Each	0	0.00%		
	Object Marker	319	Each	6	1.88%		
	Sign Light	830	Each	0	0.00%		
	Highw ay Light	893	Each	0	0.00%		
	Cross Drain	91	Each	0	0.00%		
	Roadside Ditch	37	Miles	0	0.00%		
	Median Ditch	28	Miles	0	0.65%		
Drainage	Outfall Ditch	3643	Feet	0	0.00%		
Diamage	Curb Inlet	87	Each	0	0.00%		
	Riprap	0	SY	0	0.00%		
	Misc. Inlet	18	Each	0	0.00%		
	Roadw ay Sw eep	37	Miles	0	0.00%		
	Roadw ay Mow ing	444	Acres	0	0.00%		
	Slope Mowing	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 Units Rated		Quantity Rated Four or	Percent Rated Four or	
		mspected		Below	below
	Pothole	211	Ramp Miles	1	0.34%
	Joint	3200	Each	16	0.50%
	Pavement Void	211	Ramp Miles	0	0.12%
	Edge Ravel	1193	Miles	4	0.31%
Roadway	Rutting	211	Ramp Miles	0	0.00%
Roauway	Cracking	211	Ramp Miles	0	0.08%
	Depression	1193	Miles	0	0.00%
	Stripping	211	Ramp Miles	0	0.00%
	Shoving	211	Ramp Miles	0	0.00%
	Paved Shoulder	1193	Miles	10	0.85%
	Soil Shoulder	1193	Miles	30	2.48%
	Front Slope	1193	Miles	4	0.32%
Roadside	Sidew alk	111408000	SF	0	0.00%
	Slope Protection	212189	SY	0	0.00%
	Fence	1194	Miles	24	2.03%
	Pavement Marker	309417	Each	0	0.00%
	Striping	1193	Miles	2	0.13%
	Pavement Symbol	1140579	SF	1471	0.13%
	Guardrail	1134	Miles	26	2.27%
	Attenuator	553	Each	0	0.00%
Traffic Services	Concrete Barrier	1032	Miles	0	0.00%
	Signs Less Than 30 SF	17580	Each	16	0.09%
	Signs Greater Than 30 SF	18396	Each	11	0.06%
	Object Marker	32473	Each	1338	4.12%
	Sign Light	20454	Each	0	0.00%
	Highw ay Light	18174	Each	32	0.18%
	Cross Drain	2835	Each	10	0.35%
	Roadside Ditch	1194	Miles	0	0.01%
	Median Ditch	933	Miles	0	0.02%
Drainage	Outfall Ditch	60018	Feet	0	0.00%
2.429	Curb Inlet	8291	Each	17	0.21%
	Riprap	89974	SY	0	0.00%
	Misc. Drain	576	Each	74	12.85%
	Roadw ay Sw eep	1193	Miles	2	0.14%
	Roadw ay Mow ing	9636	Acres	5	0.05%
	Slope Mow ing	1457	Acres	37	2.57%
Vegetation/	Landscape	162	Acres	2	1.20%
Aesthetics	Tree Trim	1193	Miles	24	2.04%
	Litter Removal	1193	Miles	0	0.02%
	Turf Condition	1193	Miles	3	0.22%



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, Staffed)

Some toll plaza buildings have been replaced 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. Others can be found on the Sawgrass Expressway, Veterans Expressway, Southern Coin section, some off ramps, "SunPass Only" lanes along the Turnpike Mainline and elsewhere along the system. AET plazas are currently under construction in other areas of the FTE system. Figure 3 provides a sketch of a typical AET plaza.



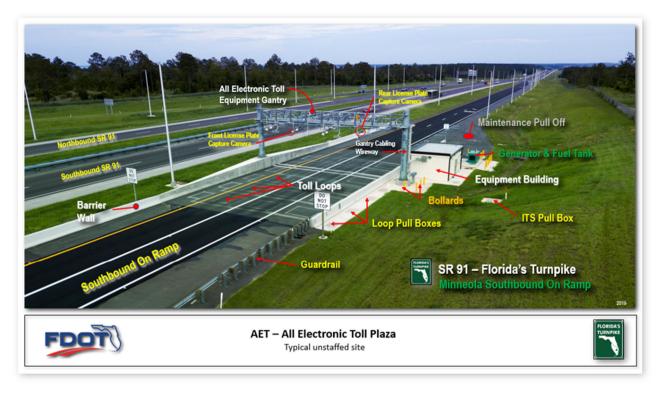


Figure 3: Typical Unstaffed AET

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: Lake Worth Florida Highway Patrol Dispatch Building - SR 91





Figure 5: Snapper Creek Florida Highway Patrol Troop K Building - SR 821

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 – Wildwood





Figure 7: Communications Building Interior – Leesburg US-27

2.2.4. Water/Wastewater Treatment Plants

The water/wastewater treatment plant provides water to and receives wastewater from the service plaza restaurant, common areas and service station. The only water/wastewater plant on the FTE is at the Fort Drum Service Plaza. In 2010, it was replaced 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: Port St. Lucie/Fort Pierce Service Plaza



The Snapper Creek Service Plaza has two separate facilities that are maintained by the 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 facilities also include eight service stations that are leased to Areas USA, Inc., and operated by FTS. Renovation of all eight Convenience (C)-Stores was completed in 2018. The service plazas are scheduled for biennial inspections with the initial inspection beginning in late 2021. The results of that inspection will be forthcoming in early 2022 with a separate inspection report.

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	53	0	0.00%
	Ceiling	544	1	0.18%
	Ceilings and Ceiling Grids	616	1	0.16%
	Counters/Cabinets and Drawers	278	0	0.00%
	Doors / Frames (Interior and Exterior)	1700	4	0.24%
	Elevator	25	0	0.00%
	Elevator Certification	25	0	0.00%
	Flooring (Interior and Accessories)	1063	1	0.09%
	Handrail	89	3	3.37%
Architecture	Joint Sealants	561	0	0.00%
Architecture	Lockers	57	0	0.00%
	Paint - Interior and Exterior	1394	0	0.00%
	Restroom Appurtenances	161	0	0.00%
	Roof Drain	66	0	0.00%
	Shelves	117	2	1.71%
	Site Signs	261	0	0.00%
	Walls (Concrete Block, Brick, Stucco or EIFS)	540	0	0.00%
	Walls (Exterior)	348	7	2.01%
	Walls (Interior)	1162	0	0.00%
	Windows and Storefronts	425	3	0.71%
	Faucets / Sinks	319	0	0.00%
Domestic Plumbing	Piping / Valves	272	0	0.00%
Fixtures	Toilets / Urinals	169	0	0.00%
	Water Heater	82	0	0.00%



Element	Characteristics	Number Inspected	Number Rated Four or Below	Percent Rated Four or Below
	Canopy lighting	81	0	0.00%
	Conduits / Junction Box	338	2	0.59%
	Grounding	273	3	1.10%
	Light Switches	1429	0	0.00%
	Lighting (Exterior)	324	0	0.00%
	Lighting (Interior)	1409	1	0.07%
	Lightning Protection	164	0	0.00%
	Motor Control Center	12	0	0.00%
	Nose Flasher	154	0	0.00%
Building Electrical	Panelboards	478	2	0.42%
	Receptacle	1677	57	3.40%
	Sign Lighting	88	0	0.00%
	Site Lighting	45	1	2.22%
	Switchboards and Breakers	443	14	3.16%
	Toll Indicator	245	0	0.00%
	Traffic Red / Green Lighting	94	0	0.00%
	Transformers	43	0	0.00%
	TVSS (Transient Voltage Surge Suppressor)	378	0	0.00%
	Wiring	1443	4	0.28%
	Air Cooled Chiller and Piping	13	0	0.00%
	Air Handlers	682	1	0.15%
	Condensing Units	447	3	0.67%
	Ductwork and Insulation	530	0	0.00%
Building HVAC	Exhaust Fans	319	4	1.25%
	HVAC Control Systems	438	0	0.00%
	Package Unit	409	0	0.00%
	Supply and Outside Air FANS	52	0	0.00%
	Ventilation Outlets	1083	1	0.09%
	Concrete (Precast/Cast-in Place)	39	0	0.00%
Structural	Masonry	78	0	0.00%
	Steel Framing	65	0	0.00%
Sewer/Septic Tanks,	Lift stations and Wells	40	1	2.50%
Lift stations & Wells	Sewer/Septic Tanks	17	0	0.00%
	Landscape	28	0	0.00%
	Parking Area	263	0	0.00%
Site Grounds	Site Grounds	264	0	0.00%
	Turf Condition	130	0	0.00%



Element	Characteristics	Number Inspected	Number Rated Four or Below	Percent Rated Four or Below
	Canopy Columns	149	0	0.00%
	Canopy Fascia	81	0	0.00%
Canopy	Canopy Signs	320	0	0.00%
Сапору	Canopy Underside	83	0	0.00%
	Sign Structure	164	0	0.00%
	Variable Message Signs	17	0	0.00%
	CCTV (Close Circuit TV)	158	0	0.00%
	Fire Alarm	10	0	0.00%
Communications, Fire	Fire Extinguisher	929	4	0.43%
Alarm and Monitoring	Fire Pump System	3	0	0.00%
Devices	Intercom System	6	0	0.00%
	Security	311	0	0.00%
	Telephone System	498	2	0.40%
Concrete Pavement &	Concrete Pavement	328	1	0.30%
Sidewalks	Sidewalk and Curb	79	0	0.00%
	Booth Ceiling	185	0	0.00%
	Counters/Cabinets and Drawers (Booth)	185	0	0.00%
Booth	Doors / Splash Door (Booth)	185	0 0 0	0.00%
	Flooring (Booth)	185		0.00%
	Toll Booth Windows/Glazing	185	0	0.00%
	ACM	81	0	0.00%
	Attenuator	239	0	0.00%
Island	Bollards	368	0	0.00%
	Island Concrete	256	0	0.00%
	Island Signs	242	2	0.83%
	Apron Sweep	150	0	0.00%
	Cracking	150	0	0.00%
Plaza Concrete Apron	Joints	197	1	0.51%
	Pavement Voids	174	0	0.00%
	Striping	261	0 1	0.38%
	Fuel Line	207	1	0.48%
	Fuel Tank	207	28	13.53%
04	Gauges	116	0	0.00%
Stand-By Power	LP Tank	30	0	0.00%
	Stand-By Generator	234	5	2.14%
	UPS (Uninterrupted Power Supply)	439	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 2021 Comprehensive Annual Financial Report shows a total of 716 bridges, which is the total number of bridges owned but not necessarily inspected by FTE. FTE structures maintenance data query from July 1, 2021, indicates a total of 716 bridges maintained and inspected by FTE and noted that seven 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, 10 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 1,082 existing overhead sign structures, 54 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.



Table 15: Condition of Overhead Sign Structures

Zone	Number Inspected	Number Rated Five or Below	Percent Rated Five or Below
I	517	16	3.09%
II	56	3	5.36%
III	257	26	10.12%
IV	216	8	3.70%
V	36	1	2.78%
TOTALS	1082	54	4.99%

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 in this report, 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 2021 PCS Pavement Cracking rating, there are currently 105.55 lane miles reported deficient, of which 48.62 lane miles, or 46.06 percent, are located on SR 91 in Lake County.



Roadway improvement projects are scheduled for Lake County in FY 2021 and 2022 to address the Lake County section. The first 17.67 miles are scheduled for FY 2021 with the remaining 30.95 miles of improvement scheduled for FY 2022.

The overall RRP rating was 93.77 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 92.63 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 2020.

Table 16: Roadway Contracts in Effect or Advertised During FY 2021

Type	Zone	Construction		Maintenance		Total Roadway &	
Туре	Zone	Total per Zone	No. of Contracts	Total per Zone	No. of Contracts	Maintenance Dollars	
	Zone I	\$1,246,911,836	19	\$22,822,359	49	\$1,269,734,195	
Contracts in	Zone II	\$119,722,492	6	\$25,181,834	7	\$144,904,326	
Effect or Advertised in	Zone III	\$555,239,610	14	\$60,911,613	12	\$616,151,223	
Single Zones	Zone IV	\$413,396,794	7	\$26,355,814	8	\$439,752,608	
	Zone V	\$0	0	\$21,081,285	6	\$21,081,285	
	Zones I & II	\$7,377,355	2	\$1,365,151	7	\$8,742,506	
	Zones II & III	\$7,559,000	1	\$0	0	\$7,559,000	
Contracts in Effect or	Zones I, II & III	\$106,952,365	1	\$0	0	\$106,952,365	
Advertised	Zones I, II & IV	\$0	0	\$2,589,651	3	\$2,589,651	
Across Multiple Zones	Zones III & IV	\$0	0	\$4,183,066	2	\$4,183,066	
	Zones III, IV & V	\$0	0	\$41,956	1	\$41,956	
	Zones I to V	\$1,875,029	1	\$0	0	\$1,875,029	
Totals	All Zones	\$2,459,034,481	51	\$164,532,729	95	\$2,623,567,210	



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 90.23 no major below standard characteristics of more than 2.48 percent were noted for the five characteristics of this element on FY 2021. 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 94.42 for FY 2021. Zone three is the only zone with the characteristic of Object Marker with a below standard rating of 21.70 percent. Typical object marker example on the FTE system is shown in Figure 10.



Figure 10: Typical Object Marker



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 overall RRP rating for drainage is 97.09 for FY 2021. Zones three and four are the only zones with the characteristic of Object Marker with a below standard rating of 23.23 and 21.59 percent, respectively. Figure 11 shows a typical paved shoulder and shoulder gutter on the FTE system.



Figure 11: Typical Paved Shoulder / Shoulder Gutter

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 93.94 for FY 2021. Overall, no below standard ratings of more than 2.04 percent were noted for the six characteristics of this element in FY 2021. Figure 12 shows an example of landscape in FTE's system.



Figure 12: Typical Landscaping

3.2. Buildings

Overall, 31,754 comments were made of building elements inspected, of which, 161 were rated as being in condition four or below, for a below standard characteristic rating of 3.40 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 (13.53 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 (3.40 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.



- Handrail (3.37 percent) The unsatisfactory ratings reported for this characteristic were missing on slope transition, gate latch not operating correctly, and broken hinges.
- **Switchboards and Breakers** (3.16 percent) The majority of unsatisfactory ratings reported for this characteristic are labeling / incorrect directory, incomplete or missing in panels, and the clip-forced switches.
- **Lift Stations and Wells** (2.50 percent) Unsatisfactory ratings for this characteristic included vent piping damaged or out of position.

During FY 2021, 28 facility construction projects included the continued implementation of open road tolling, gantries and AET buildings. In addition, 34 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 2021

Category	No of Contracts	Activity	Cost
Maintenance			
Electrical	2	Maintenance, Repair, Testing and Verification of Electrical Services	\$658,158
Elevator	1	Elevator, Maintenance, Adjustment, Repair, and Replacement Services	\$51,620
General	10	Routine Facilities Maintenance, Emer. Repair, Janitorial, Mowing & Security Services	\$6,406,442
HVAC	4	Heating, Ventilation and Air-conditioning Equipment Maintenance, Repair	\$356,201
Painting	1	Concrete, Waterproofing, Sealing, Paint & General Facilities Svc	\$345,100
PCARD Services	5	PCARD Services	\$315,000
Plumbing	1	Plumbing and Lift Stations	\$180,340
Roofing	1	Roof Replacement, Building Management System & Equipment Controllers	\$218,850
Standby Power	3	Generator, UPS & ATS Maintenance Services - North Region (YEAR 4)	\$307,273
Telecommunication	1	Maintenance of Statewide Telecommunications Network (YEAR 1)	\$2,176,464
Tollbooth	1	Tollbooth Repair Services - North Region	\$87,750
Water Treatment	1	Maintenance of Water Treatment Systems	\$21,885
Electrical	2	Maintenance, Repair, Testing and Verification of Electrical Services	\$658,158
34 Maintenance Co	ntracts - To	otals	\$ 11,125,083.00



FY 2021 Annual Inspection Report

Category	No of Contracts	Activity	Cost
Construction			
Add Lanes and Reconstruction	1	Widen HEFT North of Bird Rd. to North of SR 836 (D/B)	\$111,500,000
New Road Construction	1	Suncoast Parkway 2	\$134,599,79
Interchange Improvement	1	Turnpike Mainline at I-4: MP 259 to Direct Connect Ramps (D/B)	\$84,939,00
Add Lanes and Reconstruction	1	Widen HEFT I-75 to NW 57th Ave: MP 38 to MP 43	\$143,269,82
Add Lanes and Reconstruction	1	Widen TPK (SR91) Boynton Beach Blvd Lake Worth	\$167,808,46
Resurfacing	1	Resurface Polk Parkway, MP 0 to MP 8	\$13,519,19
Resurfacing	1	Resurface TPK Mainline in Martin Cnty, MP 117 - 138	\$33,928,23
Toll Plaza	1	AET Northern Coin Conversion MP 236 - 309	\$17,604,43
Toll Plaza	1	All Electronic Tolling (AET) Phase 8 Ticket Sys. MP 88-236	\$106,952,36
Add Lanes and Reconstruction	1	Widen Turnpike (SR 821) NW 106 St to I-75 (MP 34 - 39)	\$368,767,09
Toll Plaza	1	AET 5C, N. of Sawgrass Xway to S. of Lantana Toll Plaza	\$19,557,418
Flexible Pavement Reconstruction	1	Reconstruct Mainline MP 138.13 to MP 153.23	\$31,832,32
Add Lanes and Reconstruction	1	Widen HEFT from SR 836 to NW 106th St. (MP 26-34)	\$244,979,34
Add Lanes and Reconstruction	1	Widen Polk Parkway from MP 18 to MP 22 (D/B)	\$61,180,00
Miscellaneous Construction	1	Suntrax Connected/Auto Vehicle Testing Facility	\$139,979,40
Drainage Improvements	1	Veterans Expressway Drainage Facility Improvements	\$2,536,42
Resurfacing	1	Resurface Seminole Expressway (MP 38 - MP 44.5)	\$12,956,99
Resurfacing	1	Resurface HEFT MP 0 - MP 5.1 & Ramps MP 5.1 - MP 9.2	\$9,095,68
ITS Surveillance System	1	DMS Signs at Service Plazas (MP 18 - MP 185.5)	\$3,263,89
Resurfacing	1	Resurface Turnpike Mainline MP 260.2 to MP 265.3	\$18,857,00
Dynamic Message Sign	1	DMS Signs at Service Plazas (MP 185.5 - MP 301)	\$7,559,00
Toll Plaza	1	All Electronic Tolling (AET) - Polk Pkwy (MP 0 - MP 18)	\$31,637,48
Resurfacing	1	Resurface Turnpike Mainline (MP 190.5 - MP 198.5)	\$16,707,65
Interchange Improvement	1	Lyons Rd Interchange Improvements	\$281,61
Rest Area	1	Lighting Renovations to FHP Parking Lot at Snapper Creek	\$650,22
Flexible Pavement Reconstruction	1	Reconstruct TPK Mainline Sumter Cnty (MP 297.9 - 308.9)	\$11,716,02
Bridge – Painting	1	HEFT (SR 821) Bridge Painting - NB Over SR 874	\$842,20
28 Construction Contr	racts - T	otals	\$ 1,800,634,555
62 Construction & Mai	intenand	ce Contracts – Facilities & Communications – Total	\$1,811,759,63



3.3. Structures

3.3.1. Bridges

During FY 2021, 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 2021

Location	Construction Cost
Zone I	\$145,959,199.00
Zone II	\$2,747,683.00
Zone III	\$100,931,222.00
Zone IV	\$24,671,603.00
Zone V	\$0.00
Zone I & II	\$3,574,190.00
Totals	\$277,883,897.00

The State Maintenance Office Bridge Inventory 2021 – Annual Report, which uses the NBI guidelines, reported seven bridges in fair condition. FTE Maintenance directed a portion of its Periodic and Routine Maintenance funding in FY 2021 to rehabilitation and repair projects. Figure 13 shows an example of a bridge on the FTE system.



Figure 13: Bridge 750622 - SR 429 NB at MP 10.9



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 (retroreflectivity, 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 2021 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



Figure 15: Typical Culvert

takes three cycles for the entire LNQC inventory to be inspected. The LNQCs are in good condition with minor repairs ongoing as part of the routine maintenance contracts. The LNQCs inspection noted no structures in poor condition for the 2021 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 2021 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.

Renewal & Percentage Periodic Gross Routine **Fiscal** Replacement Total of Gross Maintenance [3] Revenue [4] Year Maintenance [2] Contracts [1] Revenue 2021 \$79.25 \$6.66 \$75.72 \$161.63 \$991.63 16.30% \$1,032.83 2022 \$113.66 \$9.64 \$74.62 \$197.92 19.16% 2023 \$127.34 \$15.64 \$71.22 \$214.20 \$1,090.42 19.64% 2024 \$223.06 \$1,135.40 \$122.68 \$19.20 \$81.18 19.65% \$161.63 \$1.174.70 2025 \$82.62 \$7.23 \$71.78 13.76%

Table 19: FY 2021 through 2025 Program Commitments (\$M)

The 17.70% 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 2021 and FY 2025 range from 13.76 to 19.65 percent of gross revenue with the upper limit of this range occurring in FY 2024.

New construction and improvement projects are valued at \$79.25 million for renewal and replacement work (PKYR) in FY 2021, and include roadway resurfacing; bridge, roadway, and facility construction; toll equipment enhancement; and bridge repair.

The amount of \$82.38 million programmed for periodic (PEMT) and routine maintenance (Phase 72) work in FY 2021 includes maintenance of all highway assets, building maintenance, building, renovation, building demolition, roof replacement, toll plaza tunnel sealing, drainage improvements and safety upgrades.

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

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 2022 through FY 2032).



4.2. Recommendations

The 2021 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 2021 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	Funding Source	OPS ID#	Current Funding Status and Recommendations
1	Bridge 890083 Deck Reconstruction	PKYR	OPS2020-2	FPID 448524-1
	Bridge 666666 Book Neconstitution		0. 02020 2	(Construction funding in FY 2025)
2	Traffic Signal Replacement	PKYR	OPS2021-1	FPID 449334-1
	Traille Oighai Replacement	FKIK 0F32021-	01 02021 1	(Construction funding in FY 2023)
3	First Coast Expressway Safety	First Coast Expressway Safety Enhancements PKYI OPS2019-2	OPS2019-2	FPID 449711-1
3	Enhancements		01 02010 2	(Construction not yet funded)
4	Improve Bridge Approaches 930215	TBD	OPS2021-9	TBD
5	CCTV Gap Project	TBD	OPS2021-6	TBD
	T (0: 11 ()) 1 (11 ()	DIO/D/DIO/	0000004.0	EDID 405700 0 0 440004 0
6	Traffic Signal Infrastructure Installation	PKYR/PKYI	OPS2021-2	FPID 435786-2 & 449334-2



Priority Level	Description	Funding Source	OPS ID#	Current Funding Status and Recommendations
7	Paved Shoulder Cracks at Barrier and MSE Walls	TBD	OPS2021-4	TBD
8	Bridge Approach Slab Rideability	PKYR	OPS2020-4	FPID 449340-1 (Construction funding in FY 2023)
9	Signing and Pavement Marking Review	TBD	OPS2021-10	FPID 449391-1 (Construction not yet funded)
10	Improve Access to Bridge 870930	TBD	OPS2021-3	TBD
11	DMS Color Upgrades & Retrofits	PKYR	OPS2021-8	FPID 449423-1 & 449423-2 (Construction funding in FY 2023)
12	Palm Beach and Boynton Canal Embankment Stabilization	TBD	NF-1	TBD
13	Median Shoulder Improvements	TBD	OPS2019-7	FPID 449466-1
14	Connected Vehicle (Long-Term Evolution) at SunTrax	TBD	OPS2021-5	FPID 449420-1
15	Emergency Back-up Generators	TBD	OPS2020-8	FPID 449420-1
16	Arterial DMS Installations	TBD	OPS2021-7	TBD
17	Pompano Beach TMC & Annex Renovations	TBD	NF-2	TBD
18	Sawgrass Expressway Directional Signage			
19	Buried Foundation for Ancillary Structures - Sawgrass	TBD	NF-7	
20	Access Gates on Noise Walls	TBD	OPS2020-9	

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 2021
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.



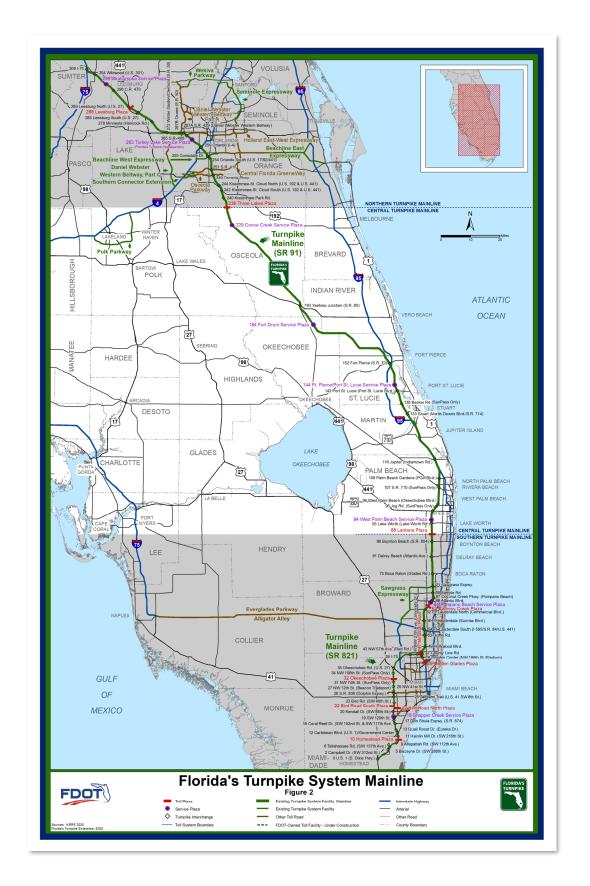
Appendices



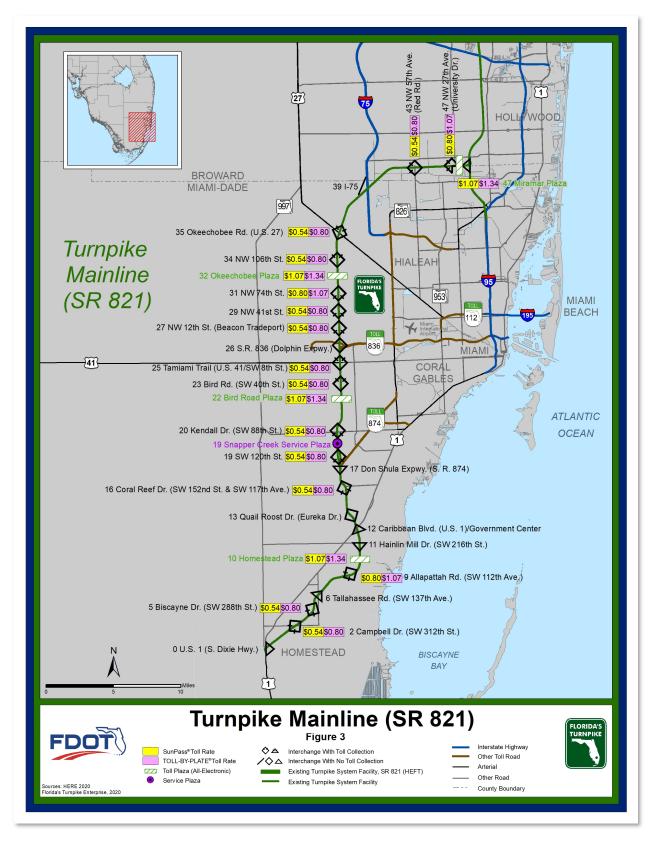
Appendix A: Maps of System Components and Inspection Zones



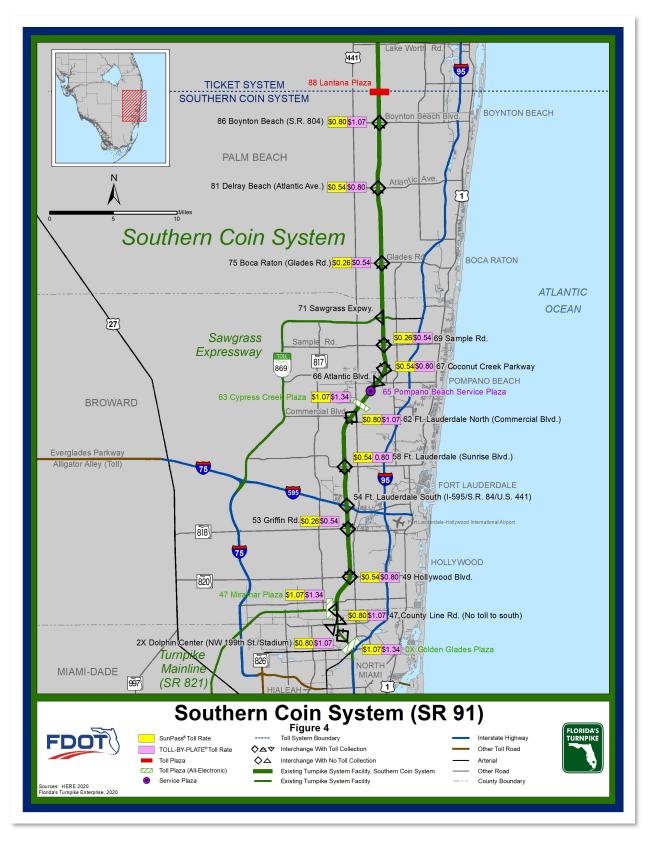




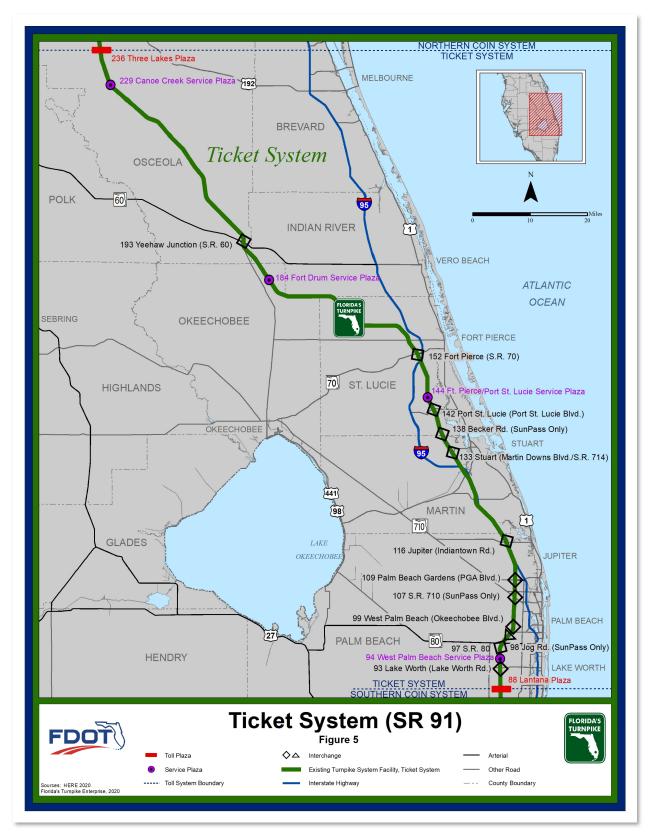




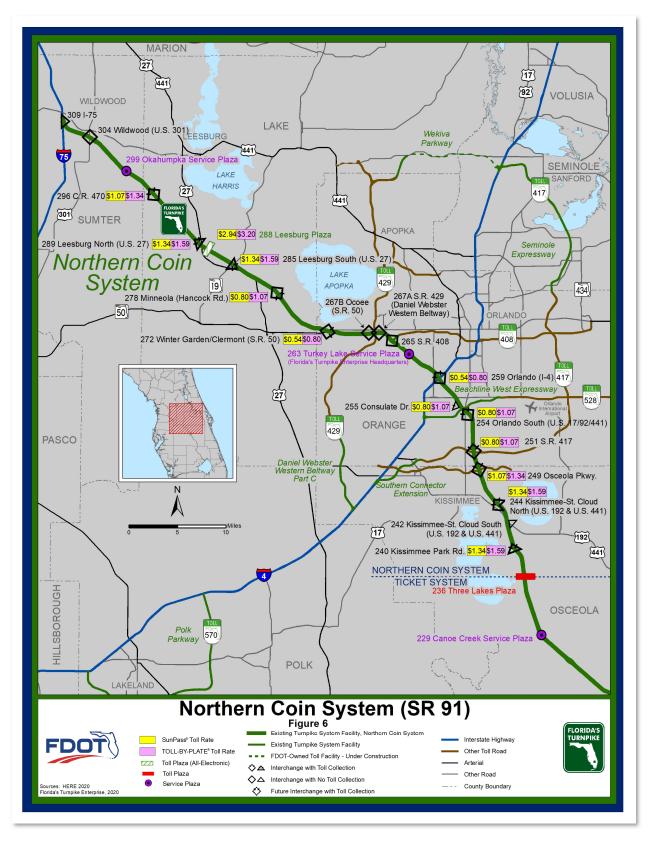




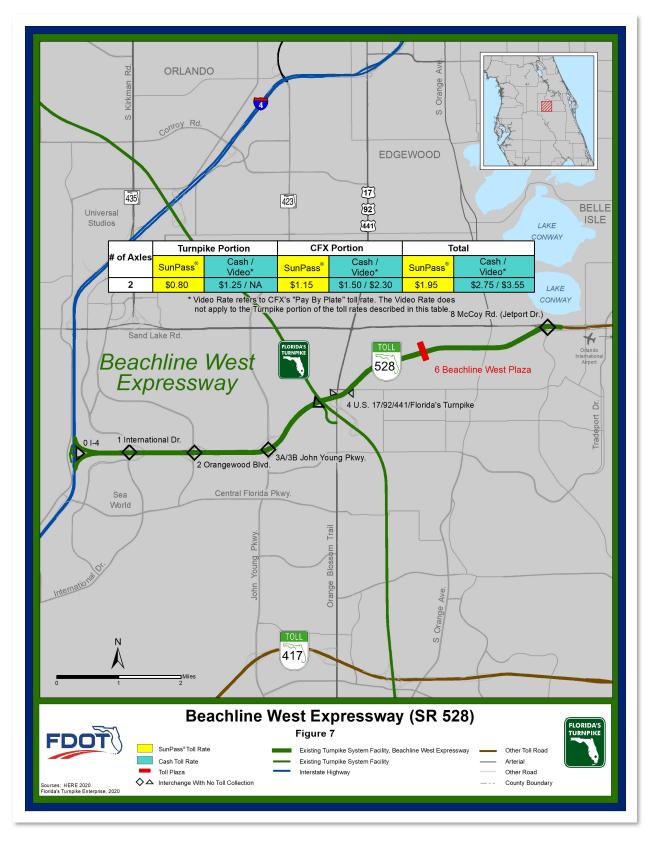




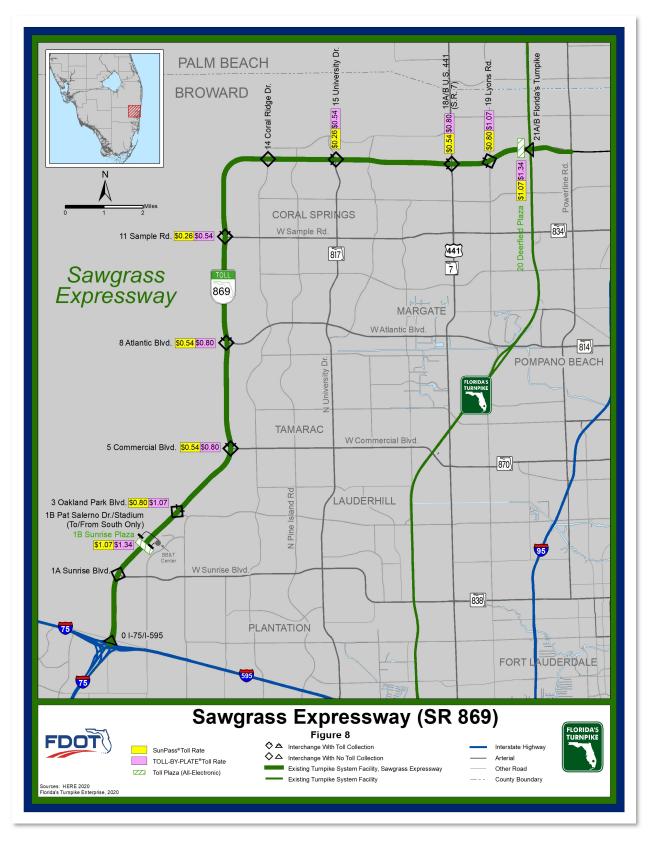




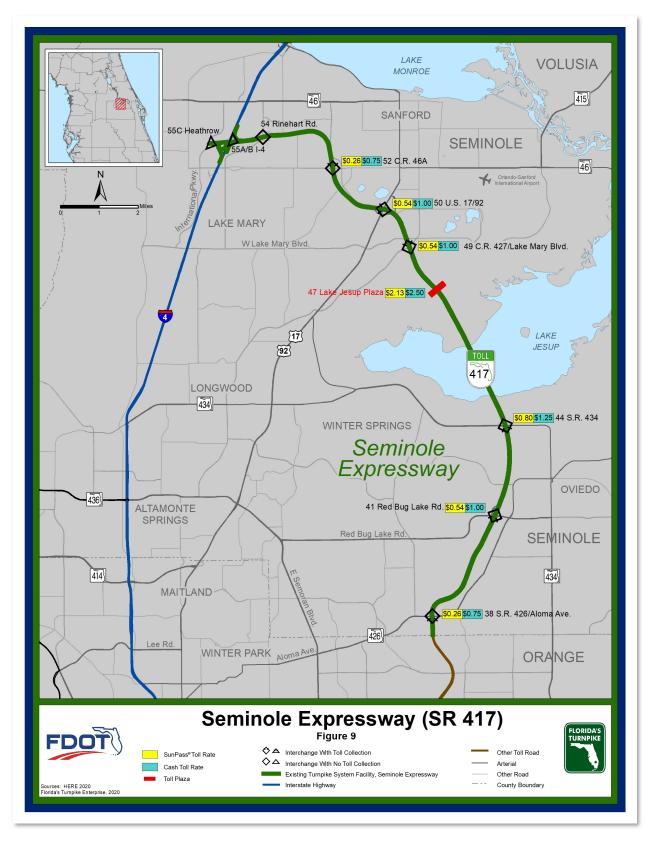












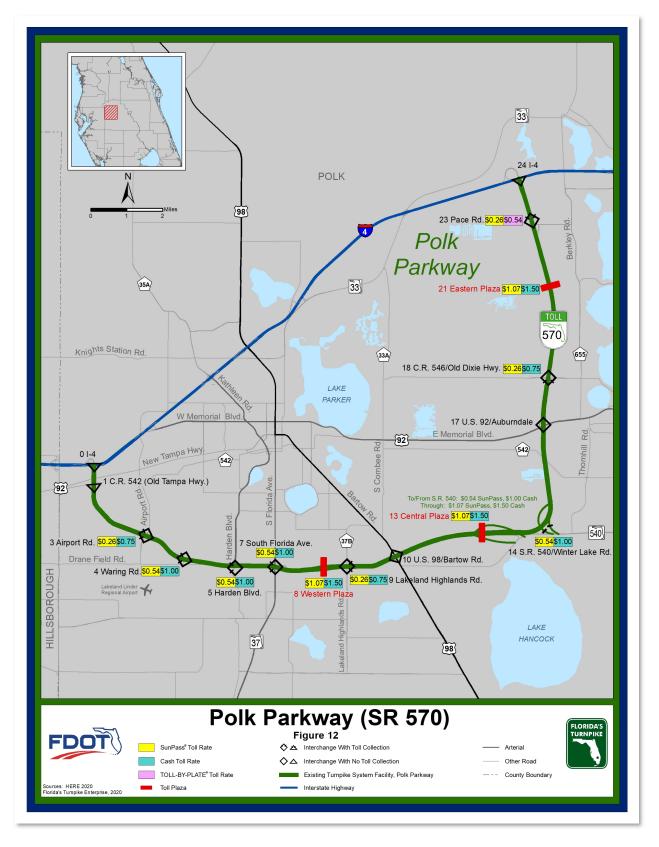








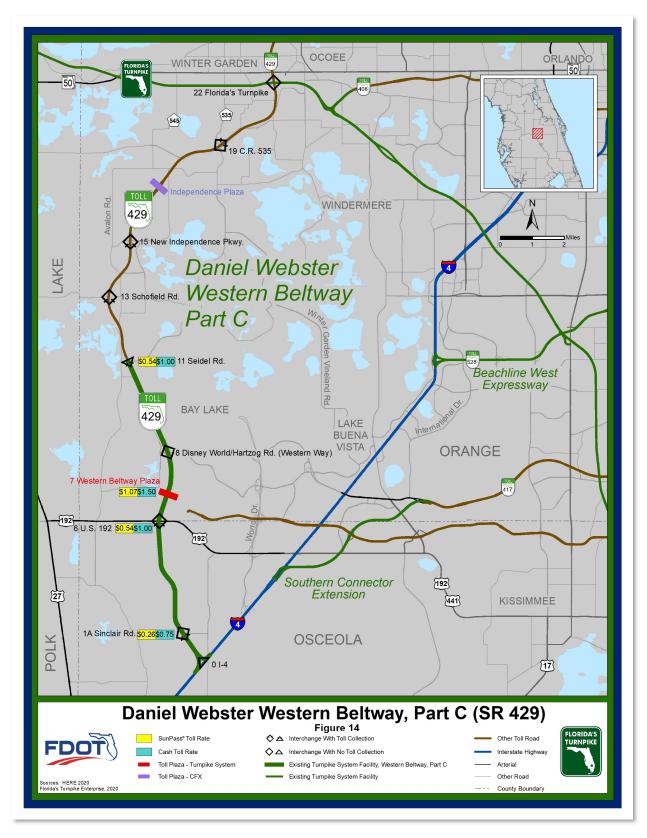








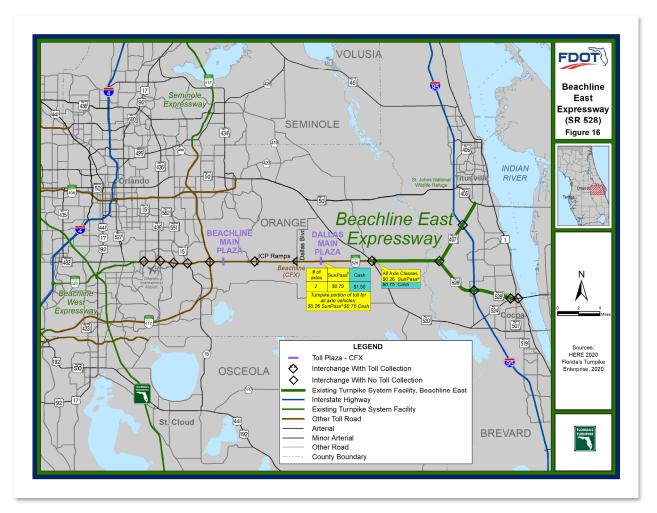




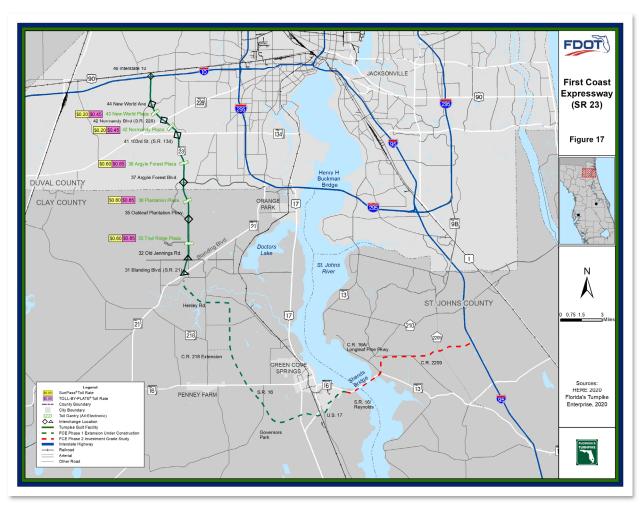












Appendix B: Inspection Rating Procedures for Roadways, Buildings and Structures

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 1.2.2.1. 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

Roadway		Roadside	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
Drainage		Traffic Services	
Drai	nage	Traffi	c Services
Cross Drain	nage Misc. Inlet	Traffi Pavement Marker	c Services Signs Less Than 30 SF
Cross Drain	Misc. Inlet	Pavement Marker	Signs Less Than 30 SF
Cross Drain Roadside Ditch	Misc. Inlet	Pavement Marker Striping	Signs Less Than 30 SF Signs Greater Than 30 SF
Cross Drain Roadside Ditch Median Ditch	Misc. Inlet	Pavement Marker Striping Pavement Symbol	Signs Less Than 30 SF Signs Greater Than 30 SF Object Marker

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 1.2.2.1.

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	
Acintecture	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	
	Canopy lighting	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 Flumbing Fixines	Piping / Valves	Water Heater	
Structural	Concrete (Precast/Cast-in Place)	Steel Framing	
Suddual	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 Grounds	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