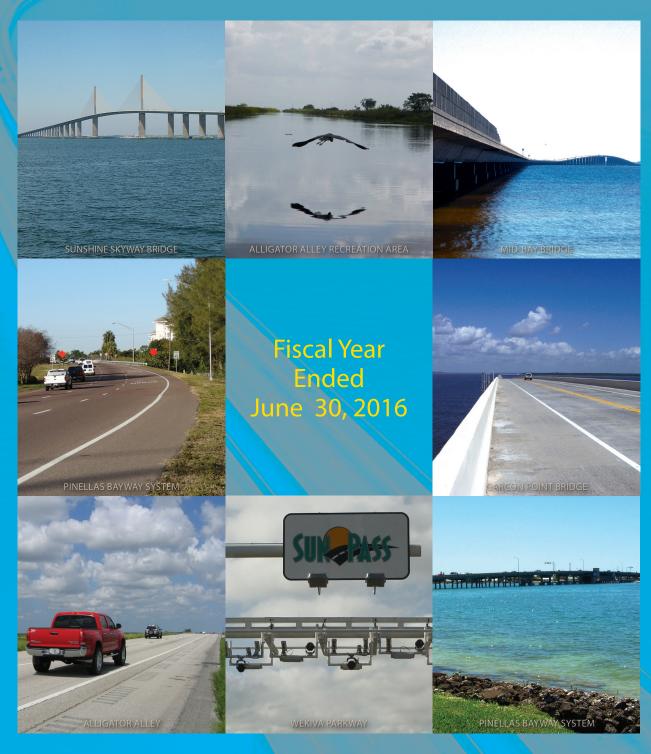
# Traffic Engineer's Annual Report

**Enterprise Toll Operations** 



Florida Department of Transportation







December 30, 2016

Mr. Bren Dietrich, C.P.A. Chief Financial Officer, Florida's Turnpike Enterprise Florida Department of Transportation Florida's Turnpike, Milepost 263 Building 5315, Turkey Lake Service Plaza Ocoee, Florida 34761

Dear Mr. Dietrich:

AECOM is pleased to submit this Traffic Engineer's Annual Report for six toll facilities owned and/or operated by the Department for the fiscal year (FY) ended June 30, 2016, in accordance with our role as the Traffic Engineering Consultant for Florida's Turnpike Enterprise under contract No. C-9N10. This report satisfies the respective Bond Resolutions that require the Traffic Engineer to provide a traffic and revenue report to the Department on an annual basis.

This edition of the Annual Report contains traffic and revenue information for four of the Department-owned facilities and two facilities operated by the Department under Lease-Purchase Agreements. The Department-owned facilities include Alligator Alley, Pinellas Bayway System, Sunshine Skyway Bridge and Wekiva Parkway. The Department-operated facilities include the Garcon Point Bridge and Mid-Bay Bridge/Spence Parkway (the Mid-Bay Bridge Authority System).

For each of the six facilities, this report provides a summary of the historical trends in traffic and revenue through FY 2016, along with a detailed analysis of actual traffic, revenue, SunPass participation and operating and maintenance expenses for FY 2016. Each section also provides an overview of debt service payments, long-term liabilities and net revenues available for other obligations, if applicable. Additionally, each section, excluding Wekiva Parkway, Mid-Bay Bridge Authority System and Garcon Point Bridge, includes forecasts of traffic, revenue, and operating and maintenance expenses through FY 2027. The forecasts are used to assist the Department in its financial planning.

The organization of this report, enhanced with high-quality maps and toll rate charts and graphs, provides a practical and comprehensive analysis of traffic and revenue information for these six toll facilities. We acknowledge with thanks the cooperation of the Department during the preparation of this report.

Sincerely,

William A. Nelsen, C.P.A.

Vice President

AECOM Technical Services, Inc.

# **TABLE OF CONTENTS**

	CUTIVE SUMMARY 1
1.1 1.2	General Characteristics
1.5 1.6	Toll Collection Methodology
2.1 2.2	Background
2.3 2.4 2.5 2.6	SunPass®
PIN 3.1 3.2 3.3 3.4 3.5 3.6 3.7	Background
SUN	ISHINE SKYWAY BRIDGE41
4.1 4.2 4.3 4.4 4.5 4.6	Background
	(IVA PARKWAY 51
5.1 5.2	Background
5.3 5.4	SunPass®

### **Department-operated Facilities**

GA	RCON POINT BRIDGE	57
6.1	Background	59
6.2	FY 2016 Transactions And Toll Revenue	62
6.3	SunPass®	63
6.4	FY 2016 Expenses And Liabilities	64
6.5	Noteworthy Events	65
6.6	Expense Forecasts	65
6.7	Revenue Sufficiency	66
	P-BAY BRIDGE AUTHORITY	67
	TEM	
SYS		67
<b>SYS</b> 7.1	<b>TEM</b> Background	67 69
<b>SYS</b> <sup>7</sup> .17.2	TEM  Background FY 2016 Transactions And Toll Revenues  SunPass®	67 69 72
<b>SYS</b> 7.1 7.2 7.3	Background	67 69 72
<b>SYS</b> 7.1 7.2 7.3 7.4	TEM  Background FY 2016 Transactions And Toll Revenues  SunPass®	67 72 73
7.1 7.2 7.3 7.4 7.5	Background	67 72 73 75

FY 2016 Annual Report

APPENDIX AA-1
Current Toll Schedules  Department-owned Toll Facilities
Plaza Configurations -
Department-owned Facilities
Alligator Alley
Plaza Configurations - Department-operated Facilities
Garcon Point Bridge
APPENDIX BB-1
Traffic Profiles

APPENDIX CC-1
FY 2017 Operating Budgets - Department-owned Facilities
Alligator Alley
FY 2017 Operating Budgets - Department-operated Facilities
Garcon Point Bridge
APPENDIX DD-1
Forecasts Wekiva Parkway Traffic and Revenue Forecasts

LIS	ST OF TABLES	2.6	Transactions by Payment Method FY 2016	24
EXE 1	Transactions and Gross Toll Revenue Department-owned and Department-	2.7	Gross Toll Revenue by Payment Method FY 2016	25
	operated Toll Facilities FY 20161	2.8	Traffic and Gross Toll Revenue Forecasts FY 2017 through FY 2027	26
2	Transactions by Payment Method Department-owned and Department- operated Toll Facilities FY 20163	2.9	Projected Operating and Maintenance Expenses (\$000) FY 2017 through FY 2027	
3	Revenue Contributions by Payment Method Department-owned and Department-operated Toll Facilities FY 20163	2.10	Net Toll Revenue Forecast and Debt Service Coverage (\$000) FY 2016 through FY 2027	28
4	Operating and Routine Maintenance Expences (\$000)By Toll Facilities FY 20164	<b>PIN</b> 3.1	ELLAS BAYWAY SYSTEM	
5	STTF Long-Term Liability (\$000) By Facility FY 20164	3.2	Growth FY 2006 through FY 2016  Historical Operating and Routine Maintenance Expenses (\$000) FY 2006 through	
<b>OV</b> 1.1	ERVIEW		FY 2016	31
1.2	Historical Toll Rate Modifications by Facility11	3.3	Monthly Transactions and Toll Revenue FY 2016	32
1.3	Historical and Projected Populations For Related Counties	3.4	Seasonal Transaction Variation FY 2016	33
1.4	History of Bond Issues14	3.5	SunPass® Transactions (000) by Payment Method FY 2016	35
1.5	Toll Collection Plan Comparisons FY 201615	3.6	Transactions by Payment Method FY 2016	
	partment-owned Facilities	3.7	Gross Toll Revenue by Payment Method FY 2016	36
<b>ALL</b> 2.1	Historical Transactions and Revenue Growth FY 2006 through FY 201621	3.8	Operating and Routine Maintenance Expenses (\$000) FY 2016	36
2.2	Historical Operating and Routine Maintenance Expenses (\$000) FY 2006	3.9	Long-Term Liability (\$000) FY 2016	37
	through FY 2016	3.10	Traffic and Gross Toll Revenue Forecasts FY 2017 through FY 2027	37
2.3	Monthly Transactions and Toll Revenue FY 201622	3.11	Projected Operating and Maintenance Expenses (\$000) FY 2017 through FY 2027	.38
2.4	Seasonal Transaction Variation FY 201622	3.12	Improvement Projects	39
2.5	Operating and Routine Maintenance Expenses (\$000) FY 201624	3.13	Analysis of Reserve Construction Account (\$000) FY 2016	.39

FY 2016 Annual Report

<b>SUN</b> 4.1	Historical Transactions and Revenue Growth FY 2006 through FY 2016	5.7	Projected Operating and Maintenance Expenses (\$000) FY 2017 through FY 202756
4.2	Historical Operating and Routine Maintenance Expenses (\$000) FY 2006		partment-operated Facilities
4.3	through FY 2016	<b>GA</b> 6.1	RCON POINT BRIDGE
4.3	Monthly Transactions and Toll Revenue FY 201644	6.2	Growth FY 2006 through FY 201661  Historical Operating and Routine
4.4	Seasonal Transaction Variation FY 201645		Maintenance Expenses (\$000) FY 2006 through FY 2016
4.5	Transactions by Payment Method FY 201646	6.3	Monthly Transactions and Toll Revenue FY 201662
4.6	Gross Toll Revenue by Payment Method FY 201646	6.4	Seasonal Transaction Variation FY 2016
4.7	Operating and Routine Maintenance Expenses (\$000) FY 201647	6.5	Transactions by Payment Method FY 201664
4.8	STTF Advances for Facility Costs (\$000) FY 201647	6.6	Gross Toll Revenue by Payment Method FY 201664
4.9	Deferred STTF Advances for Off-System Improvements (\$000) FY 201647	6.7	Operating and Routine Maintenance Expenses (\$000) FY 201664
4.10	Traffic and Gross Toll Revenue Forecasts FY 2017 through FY 202748	6.8 6.9	Long-Term Liability (\$000) FY 201665  Projected Operating and Routine
4.11	Projected Operating and Maintenance Expenses (\$000) FY 2017 through FY 202749		Maintenance Expenses (\$000) FY 2017 through FY 202766
<b>WEI</b> 5.1	<b>KIVA PARKWAY</b>		D-BAY BRIDGE AUTHORITY TEM
5.2	Monthly Transactions and Toll Revenue FY 201653	, , ,	Growth State FY 2006 through State FY 201669
5.3	Seasonal Transaction Variation FY 201654	7.2	Monthly Transactions and Toll Revenue State FY 201670
5.4	Operating and Routine Maintenance Expenses (\$000) FY 201655	7.3	Seasonal Transaction Variation State FY 201671
5.5	Transactions by Payment Method (000) FY 201655	7.4	Transactions by Payment Method State FY 201672
5.6	Gross Toll Revenue by Payment Method (\$000) FY 201655	7.5	Gross Toll Revenue by Payment Method State FY 201673

7.6	FDOT Historical Operating and Routine Maintenance Expenses (\$000) State FY 2006 through State FY 2016	73
7.7	FDOT Operating and Routine Maintenance Expenses (\$000) State FY 2016	74
7.8	STTF Long-Term Liability (\$000) FY 2016	74
7.9	FDOT Projected Operating and Maintenance Expenses (\$000) State FY 2017 through State FY 2027	75

FY 2016 Annual Report

# **LIST OF GRAPHS**

<b>OVE</b>	Florida Population Trend6
1.2	Current and Future Population Estimates Regions Served By Department-owned and Department-operated Facilities (In millions)
1.3	Unemployment Rate7
1.4	Year-Over-Year Percent Change: Florida License Drivers and Registered Vehicles7
1.5	Historical Percent Change in Consumer Price Index8
1.6	Non-Agricultural Employment in Florida 2016 (In Thousands)8
1.7	Florida Tourists (In Millions)9
1.8	Florida Gasoline Prices (Average of All Grades)9
1.9	Year-Over-Year Percent Change: Highway Fuel Consumption in Florida10
Dep	partment-owned Facilities
<b>ALL</b> I 2.1	GATOR ALLEY
2.2	Transactions by Axle Class FY 2016 / Revenue Contribution by Axle Class FY 201623
<b>PINI</b> 3.1	ELLAS BAYWAY SYSTEM
3.2	Typical Hourly Weekday Transactions FY 2016
3.3	Transactions by Axle Class FY 2016 / Revenue Contribution by Axle Class FY 201634
3.4	Multi-Axle Vehicle Transactions by Plaza FY 201634

 $\forall$ 

<b>SUN</b> 4.1	ISHINE SKYWAY BRIDGE41 Typical Hourly Transactions FY 201644
4.2	Transactions by Axle Class FY 2016 / Revenue Contribution by Axle Class FY 201645
<b>WEI</b> 5.1	KIVA PARKWAY51 Typical Hourly Transactions FY 201654
5.2	Transactions by Axle Class FY 2016 / Revenue Contribution by Axle Class FY 201654
De	partment-operated Facilities
GA	RCON POINT BRIDGE59
6.1	Typical Hourly Transactions FY 201662
6.1	
6.2 MIC	Typical Hourly Transactions FY 2016

# **LIST OF FIGURES**

l l	Department Owned & Operated Toll Facilities
<b>OV</b> 1.1	ERVIEW
De	partment-owned Facilities
<b>ALL</b> 2.1	IGATOR ALLEY 19 Alligator Alley Map 20
2.2	Two-way AADT Profile FY 201623
2.3	Alligator Alley Bond Issues27
2.4	Flow of Funds Series 2007 Alligator Alley Revenue Bonds
<b>PIN</b> 3.1	ELLAS BAYWAY SYSTEM    29      Pinellas Bayway System Map    30
3.2	Two-way AADT Profile FY 201634
3.3	Flow of Funds Pinellas Bayway System39
	Sunshine Skyway Bridge Map42
	KIVA PARKWAY51 Wekiva Parkway Map52

### **Department-operated Facilities**

<b>GAI</b> 6.1	RCON POINT BRIDGEGarcon Point Bridge Map	
6.2	Flow of Funds Garcon Point Bridge Revenue Bonds, Series 1996	65
SYS	P-BAY BRIDGE AUTHORITY TEM	
SYS	TEM Mid-Bay Bridge Authority System Map	68

FY 2016 Annual Report VII

#### THIS PAGE INTENTIONALLY LEFT BLANK