FLORIDA DEPARTMENT OF TRANSPORTATION AVIATION AND SPACEPORTS OFFICE



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Florida Department of Transportation

Statewide Airfield Pavement Management Program

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OFFICE OF FREIGHT, LOGISTICS & PASSENGER OPERATIONS



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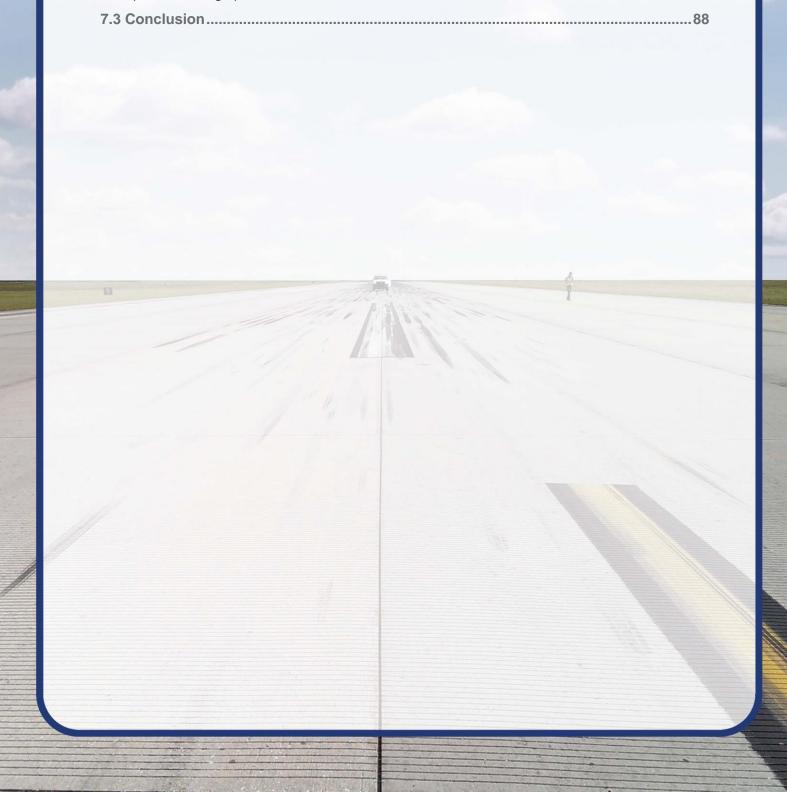
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Executive Summary





Executive Summary

Program Background

Airport airfield pavement infrastructure facilities represent a large capital investment in the Florida Airport System. Timely and appropriate maintenance and strategic rehabilitation are essential as repair costs increase significantly in proportion to deterioration. Airport pavement distresses can also contribute to the development of loose debris and decreased ride quality, which can be a safety concern for aircraft operations.

In 2016, the Florida Department of Transportation (FDOT) Aviation and Spaceports Office (ASO) selected Kimley-Horn and Associates, Inc. with subconsultants Airfield Pavement Management Systems, LLC and AVCON, Inc. to provide professional services in support of FDOT in the continued efforts of performing a system update to the Statewide Airfield Pavement Management Program (SAPMP). This work is to be completed from fiscal year 2016 through fiscal year 2019. The SAPMP has 95 public use airport facilities throughout the seven FDOT Districts that participate in the system update. The results of this system update for this specific airport are presented in this report and can be utilized by FDOT and the Federal Aviation Administration (FAA) to identify, prioritize, and schedule pavement maintenance, repair, and major rehabilitation projects.

Pavement condition was assessed utilizing the pavement condition index (PCI) methodology as defined in the FAA Advisory Circular 150/5380-7B "Airport Pavement Management Program (PMP)" using the documented procedures set forth by ASTM D5340-12 "Standard Test Method for Airport Pavement Condition Index Surveys."

Pavement deterioration, in accordance with the ASTM D5340-12, was characterized in terms of distinct distress types, severity level of distress, and quantity of distress. This information is utilized to calculate a PCI numeric that represents the overall condition of the pavement in a numeric index that ranges from 0 (a condition category of FAILED) to 100 (GOOD). The PCI methodology analyzes an overall measure of the pavement condition and provides an indication of the degree of maintenance, repair, or rehabilitation efforts that will be required to sustain functional pavement.

The tasks required for the system update at each participating airport consist of the following:

- Obtain recent and anticipated airfield pavement construction work data.
- Update airport airfield pavement system inventory records (construction history, identification, geometry, and facility classification).
- Perform PCI Survey Inspections at each participating airport.
- Update the FDOT SAPMP PAVER™ database system.
- Update the FDOT SAPMP GIS Airfield Navigation GPS enabled Maps.
- Update airfield pavement performance models and pavement condition forecasting.
- Identification of planning-level maintenance, repair, and major rehabilitation to address pavement needs based on functional PCI analysis.
- Development of planning-level opinion of probable construction costs for pavement rehabilitation.





Summary of Results

Pavement Condition Index (Latest Inspection)

Table E-1 Pavement Condition Index Summary (Last Inspection) - Section Level

Network ID	Branch Name	Branch Use	Section ID	Area (SF)	PCI	Condition Rating
X26	RUNWAY 5-23	RUNWAY	6205	295,188	75	Satisfactory
X26	Runway 10-28	RUNWAY 6305		134,512	80	Satisfactory
X26	Runway 10-28	RUNWAY	6310	44,362	80	Satisfactory
X26	Runway 10-28	RUNWAY	6315	45,750	87	Good
X26	Runway 10-28	RUNWAY	6320	15,376	82	Satisfactory
X26	TAXIWAY ALPHA	TAXIWAY	405	57,743	81	Satisfactory
X26	TAXIWAY ALPHA	TAXIWAY	415	16,504	81	Satisfactory
X26	TAXIWAY ALPHA	TAXIWAY	420	60,300	83	Satisfactory
X26	TAXIWAY ALPHA	TAXIWAY	425	7,067	54	Poor
X26	TAXIWAY BRAVO	TAXIWAY	610	119,314	77	Satisfactory
X26	TAXIWAY CHARLIE	TAXIWAY	305	51,193	13	Serious
X26	TAXIWAY CHARLIE	TAXIWAY	306	11,251	16	Serious
X26	TAXIWAY CONNECTOR	TAXIWAY	515	23,637	75	Satisfactory
X26	TAXIWAY E	TAXIWAY	700	29,416	91	Good
X26	WEST APRON	APRON	5105	133,925	84	Satisfactory
X26	WEST APRON	APRON	5115	31,900	15	Serious
X26	WEST APRON	APRON	5120	20,635	81	Satisfactory
X26	T-HANGAR APRON AREA	APRON	5305	28,960	78	Satisfactory
X26	SW RUN UP APRON	APRON	5405	19,824	85	Satisfactory
X26	E RUN UP APRON	APRON	5510	13,002	81	Satisfactory
X26	SOUTHEAST APRON	APRON	5605	100,723	27	Very Poor
X26	SOUTHEAST APRON	APRON	5610	21,960	87	Good
X26	SOUTHEAST APRON	APRON	5615	10,290	87	Good
X26	APRON TERMINAL	APRON	5705	32,590	89	Good
X26	APRON TERMINAL	APRON	5710	3,600	92	Good





Forecasted Pavement Condition Index 2018-2027

Table E-2 Pavement Condition Index Forecast 2018-2027

Naturals ID	Drawah ID	Continu ID	Local DCL					Forecas	sted PC				
Network ID	Branch ID	Section ID	Last PCI	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
X26	AP RU E	5510	81	78	77	75	74	72	71	69	67	66	64
X26	AP RU SW	5405	85	82	81	79	78	76	75	73	71	70	68
X26	AP SE	5605	27	24	23	21	20	18	17	15	13	12	10
X26	AP SE	5610	87	84	83	81	80	78	77	75	73	72	70
X26	AP SE	5615	87	84	83	81	80	78	77	75	73	72	70
X26	AP TERM	5705	89	86	85	83	82	80	79	77	75	74	72
X26	AP TERM	5710	92	88	85	82	80	77	75	73	71	69	67
X26	AP T-HANG	5305	78	75	74	72	71	69	68	66	64	63	61
X26	AP W	5105	84	81	80	78	77	75	74	72	70	69	67
X26	AP W	5115	15	12	11	9	8	6	5	3	1	0	0
X26	AP W	5120	81	78	77	75	74	72	71	69	67	66	64
X26	RW 10-28	6305	80	77	76	74	73	71	69	68	66	64	63
X26	RW 10-28	6310	80	77	76	74	73	71	69	68	66	64	63
X26	RW 10-28	6315	87	84	83	81	80	78	76	75	73	71	70
X26	RW 10-28	6320	82	79	78	76	75	73	71	70	68	66	65
X26	RW 5-23	6205	75	72	69	67	66	64	63	62	61	61	60
X26	TW A	405	81	78	76	75	74	73	72	71	70	69	68
X26	TW A	415	81	78	76	74	73	71	70	69	68	67	66
X26	TW A	420	83	80	78	76	74	72	71	70	69	68	67
X26	TW A	425	54	52	50	48	47	45	44	42	40	39	37
X26	TW B	610	77	74	73	71	70	69	68	67	66	65	64
X26	TW C	305	13	9	6	4	1	0	0	0	0	0	0
X26	TW C	306	16	12	9	7	4	1	0	0	0	0	0
X26	TW CONN	515	75	72	71	70	69	68	67	66	65	64	63
X26	TW E	700	91	87	85	82	80	78	76	74	73	71	70





Major Rehabilitation Planning 2018-2027

Table E-3 Major Rehabilitation Planning 2018-2027

Program Year	Network ID	Branch ID	Section ID	Surface	Area (SF)	PCI Before	Rehabilitation Type	Planning Cost
2018	X26	AP SE	5605	AC	100,723	24	AC Reconstruction	\$ 907,000.00
2018	X26	AP W	5115	AC	31,900	12	AC Reconstruction	\$ 288,000.00
2018	X26	TW A	425	AC	7,067	52	AC Restoration	\$ 50,000.00
2018	X26	TW C	305	AC	51,193	9	AC Reconstruction	\$ 461,000.00
2018	X26	TW C	306	AC	11,251	12	AC Reconstruction	\$ 102,000.00
2022	X26	RW 5-23	6205	AAC	295,188	64	AC Restoration	\$ 2,067,000.00
2025	X26	AP T-HANG	5305	AC	28,960	64	AC Restoration	\$ 203,000.00
2026	X26	RW 10-28	6305	AC	134,512	64	AC Restoration	\$ 942,000.00
2026	X26	RW 10-28	6310	AC	44,362	64	AC Restoration	\$ 311,000.00
2026	X26	TW CONN	515	AC	23,637	64	AC Restoration	\$ 166,000.00
2027	X26	AP RU E	5510	AC	13,002	64	AC Restoration	\$ 92,000.00
2027	X26	AP W	5120	AC	20,635	64	AC Restoration	\$ 145,000.00
2027	X26	TW B	610	AC	119,314	64	AC Restoration	\$ 836,000.00

^{*}All planning cost values have been rounded to the nearest thousand-dollar.





Figure E-4 Major Rehabilitation Planning Annual Budget 2018-2027



Summary of Sebastian Municipal Airport

Sebastian Municipal Airport was inspected in September 2016 – the overall weighted PCI value was 71, a condition rating of Satisfactory. The results of the maintenance, repair, and major rehabilitation analysis identified \$463,670 in localized M&R needs based on current conditions and a 10-Year major rehabilitation need of \$6,570,000 based on forecasted conditions. The current major rehabilitation needs based on the latest inspection consist of \$1,808,000 for pavements below critical condition.

Localized maintenance and repair identified within this report are categorized as preventive or stopgap; the FDOT SAPMP has defined maintenance policies based on FAA recommendations. Major rehabilitation is identified within the FDOT SAPMP as major construction activity that would result in an improvement or resetting of the pavement section's PCI to a value of 100. Such activities could include: mill and hot-mix asphalt overlay, rigid pavement repair and slab replacement, and full-depth reconstruction. It is recommended that the airport use this as a planning tool for future project development and prioritization – all localized maintenance and repair and major rehabilitation recommendations should be considered as planning-level only. All final localized maintenance, repair, and major rehabilitation is subject to change based on airport prioritization and further design-level evaluation.









Chapter 1 – Introduction

1.1 Background

The State of Florida has 128 public airports of which 100 public-use airports are recognized as part of the Federal Aviation Administration's (FAA) National Plan of Integrated Airport Systems (NPIAS) that are vital to the Florida economy as well as the economy of the United States. The Florida Aviation System (FAS) provides opportunities for the State to capitalize on an increasingly global marketplace. Florida's system of commercial service and general aviation (GA) airports are important to businesses throughout the entire State. Air travel is essential to tourism, Florida's number one industry.

There are millions of square feet of pavement infrastructure that consists of runways, taxiways, aprons, ramps, and other areas of airports that are vital to the support and safety of aircraft operations. Timely pavement maintenance, repair and major rehabilitation of these pavements will support the airport in operating safely, efficiently, economically and without excessive down time.

In general, adherence to the FAA Advisory Circulars are mandatory for all projects funded with federal grant monies through the Airport Improvement Program (AIP) and with revenue from the Passenger Facilities Charges (PFC) Program. Further information is detailed in FAA Grant Assurance No. 11 "Pavement Maintenance," No. 34 "Policies, Standards, and Specifications," and PFC Assurance No. 9 "Standards and Specifications." The Florida Department of Transportation (FDOT) performs the Statewide Airfield Pavement Management Program (SAPMP) System Updates for the benefit of participating public-use and publicly owned airports through the Aviation and Spaceports Office (ASO).

The SAPMP addresses the requirements of maintaining an effective pavement management program for the participating airports at the network level. Network-level management of pavement assets provides insight for short-term and long-term budget needs, understanding of the overall condition of the network (current and future), and pavement facilities that are subject for project consideration. A network-level evaluation can be supportive in the identification of maintenance, repair, and major rehabilitation needs and budgetary planning-level opinions of probable construction costs.

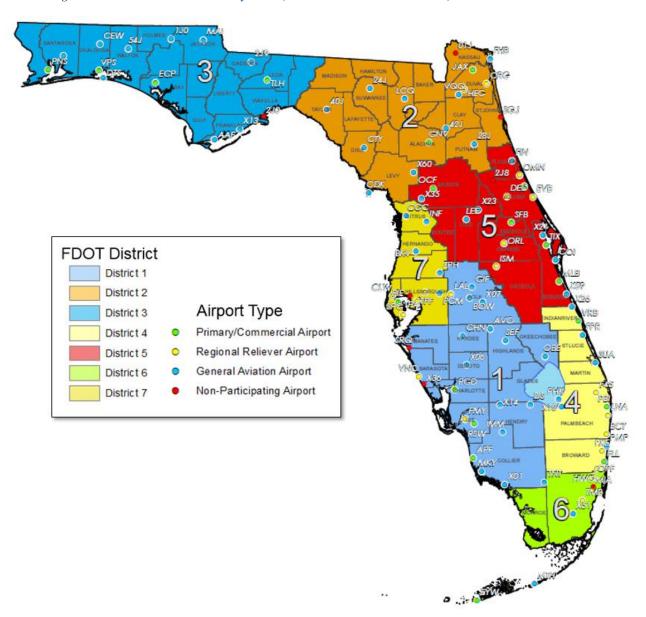
1.2 Statewide Airfield Pavement Management Program (SAPMP) Update 2016-2017

In 1992, the FDOT established the Statewide Airfield Pavement Management Program (SAPMP) to provide program managers, District Aviation and Spaceport Offices, and airport operators a system to proactively manage airport airfield pavement infrastructure within the Florida Aviation System. The SAPMP performs network-level Pavement Condition Index (PCI) survey inspections for airport facilities that are categorized as General Aviation (GA), Reliever (RL), and Commercial (PR). Currently, the program consists of 95 actively participating publicuse airports with pavement facilities and provides users with comprehensive data to better manage pavement assets.





Figure 1.2 Florida Aviation System (Facilities with Pavement) and FDOT Districts



In 2016, the Florida Department of Transportation Aviation and Spaceports Office contracted Kimley-Horn and Associates, Inc. along with subconsultants Airfield Pavement Management Systems, LLC and AVCON, Inc. to provide professional services in support of FDOT in the continued efforts of performing a system update to the SAPMP. This work is to be completed from fiscal year 2016 through fiscal year 2019.





1.3 Organization

1.3.1 Florida Department of Transportation Aviation and Spaceports Office Program Manager

The FDOT Aviation and Spaceports Office (ASO) Aviation Engineering Manager serves as the Program Manager (ASO-PM) for the SAPMP. The ASO-PM monitors the work performed by the designated Consultant for the program. The ASO-PM has review and approval authority for each program task and manages the program's day-to-day details and pertinent updates.

The ASO-PM reports updates and milestones to the FDOT State Aviation and Spaceports Manager and Development Administrator.

1.3.2 Participating Florida Public-Use and Publicly Owned Airports

The airports are the end-user and beneficiary of the SAPMP. The SAPMP provides a specific Airport Pavement Evaluation Report that meets the requirements of the FAA Advisory Circular 150/5380-7B "Airport Pavement Management Program (PMP)." Individual participating airports will be provided a final Airport Pavement Evaluation Report by the designated Consultant that is specific to each airport's airfield pavement condition index survey. The ASO-PM has full authority and final approval of each report prior to finalization. In advance of each PCI survey and prior to completion of each Airport Pavement Evaluation Report, participating airports are asked to provide the necessary record documentation for the proper analysis efforts. Relevant record documentation artifacts may consist of but are not limited to: Airport Layout Plans (ALP), Construction Bid Tabulations, As-Built Construction Drawings, Engineer's Reports, and/or field pavement inspection reports.

1.3.3 Florida Department of Transportation District Offices

The seven (7) FDOT District Offices, specifically the Aviation representatives (currently the Freight and Logistics personnel), provide essential support to the SAPMP update and the ASO-PM. Each District supports the SAPMP's on-going efforts by providing local construction cost information throughout the State. The construction cost information, typically consisting of plans and bid tabulations, are used as the basis of the development maintenance, repair, and major rehabilitation opinions of probable construction costs for planning purposes. Each District Office receives copies of individual Airport Pavement Evaluation Reports for the participating airport facilities located within their respective Districts.

1.3.4 Consultant

The Consultant, Kimley-Horn and Associates, Inc., provides technical and administrative support to the ASO-PM for the SAPMP update. The support consists of airfield pavement system inventory updates, performance of PCI Surveys in accordance with ASTM D5340-12 "Standard Test Method for Airport Pavement Condition Index Surveys," evaluation and reporting of the pavement condition in accordance with the FAA Advisory Circular 150/5380-7B "Airport Pavement Management Program (PMP)."

The Consultant Team consists of Kimley-Horn, Airfield Pavement Management Systems, LLC., and AVCON, Inc.





A brief description of the general scope of work undertaken to update the SAPMP includes but is not limited to:

- Research and evaluation of existing record documentation was performed to identify construction projects that have taken place since the most recent major update of the SAPMP. This data is used to update the pavement inventory and network definition.
- An update to the existing Network Definition Map was made to reflect geometric changes, pavement composition updates, and section characterization. Furthermore, an update to the PCI Survey sample units were made to reflect the field investigation efforts.
- A functional pavement evaluation with PCI Survey inspections was completed on all airfield pavements maintained by the Airport. The PCI Survey procedure, as defined by ASTM D5340-12, was used as the basis of the functional pavement evaluation. For this specific evaluation, the sample units defined by prior studies were inspected as to better develop performance models for prediction curves. Pavement subject to construction or anticipated construction during scheduled PCI Survey inspection or within 2 years were omitted from inspection based on confirmation of airport personnel.
- Condition Analysis was performed based on the distress data observed, rated, measured, and recorded in accordance with the ASTM D5340-12 for the calculation of PCI values and ratings. The results of the current condition analysis were used in concert with the historic PCI Survey data and construction work history to develop performance models to forecast future PCI values for each section for a 10-year study duration.
- Maintenance, Repair, and Rehabilitation Planning was performed predicated on the results of the condition analysis with updated policies and planning-level unit costs. The policies, or M&R policies, have been updated to reflect standard practices for maintenance, repair, and major rehabilitation as defined by the FAA AC 150/5380-6C "Guidelines and Procedures for Maintenance of Airport Pavements." Planninglevel unit costs were developed based on representative construction bid tabulations provided by participating airports. The bid tabulations consisted of limited airfield pavement construction projects that took place between 2009 and 2015 at participating airports.





1.4 Purpose of Airport Pavement Evaluation Report

The individual airport airfield pavement evaluation report discusses the work performed, a summary of findings, condition analysis results, and recommendations for maintenance, repair, and major rehabilitation (M&R) planning associated with the SAPMP system update. It also briefly describes the procedures used to ensure that the appropriate engineering and scientific standards of care, quality, budget, schedules, and safety requirements were implemented during the performance of this work.

The purpose of this Airfield Pavement Evaluation Report is to achieve the following:

- Describe the goals, procedures, and purpose of the SAPMP
- Provide a brief technical explanation of the pavement management methodology, standard practices, and objectives
- Analyze pavement distresses data for the determination of pavement conditions and for identification of airfield pavement maintenance, repair, and major rehabilitation needs based on functional PCI trends

The identification of rehabilitation needs has been determined at the planning level. Design-level investigation is recommended prior to developing construction-level design documents and budgets.

In compliance with FAA Grant Assurances 11 and 19; the FDOT SAPMP provides airports with airfield pavement evaluation reports in accordance with FAA AC 150/5380-7B Airport Pavement Management Program (PMP) and AC 150/5380-6C Guidelines and Procedures for Maintenance of Airport Pavements. The application of the results of a PCI survey are for planning purposes and are limited to the visual observation of deteriorated pavements in limited sampling; design-level investigation is recommended in accordance with the FAA procedures defined in AC 5320-6F Airport Pavement Design and Evaluation and AC 150/5370-11B Use of Nondestructive Testing in the Evaluation of Airport Pavements. The aforementioned ACs provide the design-level material properties of in-situ pavement and subgrade layers for the determination of appropriate rehabilitation actions. The FDOT Statewide Airfield Pavement Management Program is organized to provide airports with planning-level data and does not intend to preclude the responsible engineer in performing the appropriate level of investigation and analysis in determining the appropriate design details of a pavement rehabilitation. It would not be advisable to solely base design-level rehabilitation without the appropriate level of investigation and determination of pavement deterioration beyond that of a visual functional condition assessment.

1.5 History of the Program

In 1992, the FDOT implemented the SAPMP to understand the pavement conditions at public airports in the FAS, systematically update pavement infrastructure information, and assist airport operators with recommendations of pavement maintenance, repair, and major rehabilitation needs. The 1992 SAPMP implementation provided the FDOT and the participating airports valuable information for establishing and performing timely and appropriate pavement rehabilitation.





During the 1992-1993 implementation and again during the 1998-1999 updates; the SAPMP performed the development with proprietary software for pavement management system analysis. This development allowed for the creation of pavement management database file system populated with airport attributes and condition data. The pavement management database was used to establish maintenance, repair, and rehabilitation policies; consider planning-level unit costs; and develop recommendations for performing pavement maintenance. This system, known as AIRPAV, was initially developed during the 1992-1993 SAPMP implementation for the analysis of distress data. The AIRPAV system was used again in the 1998-1999 SAPMP update.

In 2004, the SAPMP system update included the review of the AIRPAV software compared to other industry available non-proprietary software packages. As a result of this review, MicroPAVER™ (currently known as PAVER™) was selected for implementation of the system update. MicroPAVER™ was developed by the U.S. Army Corps of Engineers Construction Engineering Research Laboratory for pavement management. Data from the 1998-1999 FDOT SAPMP update, which was built upon the initial 1992-1993 implementation of AIRPAV, was reviewed and converted to be compatible with the MicroPAVER™ system. This data conversion included all documented pavement facilities, classifications, types, histories, geometries, PCI condition data and pertinent attributes gathered from airport feedback at the time. This information was used to develop the inventory of each participating airport's pavement facilities in a consistent format. This was the development of Airfield Pavement Network Definition Exhibits. These inventory exhibits visually depicted the branch, section, and sample units that were based upon the pavement construction history and composition information provided by each airport.

In the 2006-2008 system update, the SAPMP was updated again with continued use of the MicroPAVER™ system. Based on the distress data collected, a maintenance repair and major rehabilitation planning program was developed for each airport. As part of this SAPMP update, the procedures for the inspection and the collection of the pavement distress data were documented, and an interactive website (http://www.dot.state.fl.us/aviation/pavement.shtm) was established for input of data.

In the 2010-2012 system update, the SAPMP was updated using new global positioning system (GPS) integrated technology to digitally collect pavement distress data. Interactive geographic information system (GIS) map files were developed from updated Airfield Pavement Network Definition Exhibits to aid pavement condition inspectors in the collection of sample distress data. The data collected was utilized to develop pavement performance models to predict future pavement PCI values and make recommendations for major rehabilitation.

In the 2013-2015 system update, the SAPMP integrated PAVER™ and FieldInspector™ with the use of GPS and GIS capable field tablets. Furthermore, the update included continued adherence to the ASTM D5340-12 "Standard Test Method for Airport Pavement Condition Index Surveys." The ASTM update consisted of refinement of distress definition types and deduction values for select asphalt concrete and Portland Cement Concrete distresses.





1.6 Federal Aviation Administration (FAA)

Currently, airports participating in the Airport Improvement Program (AIP) Grant Program are required by the FAA to develop and implement a pavement maintenance program to be eligible for funding (FAA Advisory Circular 150/5380-6C "Guidelines and Procedures for Maintenance of Airport Pavements" and 150/5380-7B "Airport Pavement Management **Program (PMP)**"). This program requires detailed inspection of airfield pavement conditions by trained personnel. The inspections are required to be performed at least once a year using the PASER method or every three years if the pavement is inspected as defined by the PCI survey procedure in accordance with the ASTM D5340-12 "Standard Test Method for Airport Pavement Condition Index Surveys."

In general, adherence to the Advisory Circulars are mandatory for all projects funded with federal grant monies through the AIP program and with revenue from the Passenger Facilities Charges (PFC) Program. Further information is detailed in FAA Grant Assurance No. 11 "Pavement Maintenance," No. 34 "Policies, Standards, and Specifications," and PFC Assurance No. 9 "Standards and Specifications."

1.7 FDOT SAPMP Objectives and Components

The FDOT SAPMP is a program that provides the FAS support in implementing and/or maintaining a network-level Pavement Management Program in a consistent and regularly scheduled manner.

In accordance with FAA AC150/5380-7B "Airport Pavement Management Program (PMP)" an effective Pavement Management Program consists of a system that achieves specific objectives. The FDOT SAPMP objectives are as follows:

1.7.1 Program Objectives

- 1 A systematic means for collecting and storing information regarding existing pavement structure and condition.
- An objective and repeatable system for evaluating pavement condition.
- 3 Procedures for predicting future pavement condition.
- Procedures for modeling both past and future pavement performance conditions.
- Procedures to determine the budget requirements to meet management objectives, such as the maintenance, repair, and major rehabilitation budget required to keep a pavement at a specified PCI level or the budget required to improve to target PCI level.
- 6 Procedures for formulating and prioritizing maintenance, repair, and major rehabilitation projects.

The objectives are accomplished by the following components:

1.7.2 Program Components

- A. Database
- B. Pavement Inventory
- C. Pavement Structure
- D. Pavement Work History
- E. Pavement Condition Data





- F. Pavement Performance Modeling for the Prediction/Forecast of PCI
- G. Maintenance, Repair, and Major Rehabilitation Policies and Budget Simulation

A well-maintained network-level pavement management program may provide airport staff a better understanding of the airfield pavement performance for developing and planning for specific maintenance, repair, and major rehabilitation projects. The understanding of specific distress types and severities will assist the airport in addressing pavement maintenance and repair with the appropriate treatments as defined by the FAA Advisory Circular 150/5380-6C "Guidelines and Procedures for Maintenance of Airport Pavements." The development of projects with an understanding of system inventory, deterioration details, and pavement condition forecasts may assist airport staff in developing practical rehabilitation actions and budgets. Furthermore, the understanding of pavements' past performance and forecasted condition may assist airport staff in addressing pavement rehabilitation in a timely and costeffective manner. Figure 1.7-1 Typical Pavement Condition Life Cycle, which is based on the FAA Advisory Circular 150/5380-7B "Airport Pavement Management Program (PMP)." Figure 1.7-1 Typical Pavement Condition Life Cycle, depicts a general duration of a pavement section and identifies the ideal condition to perform rehabilitative treatments at an optimal cost rather than allowing significant increase in rate of deterioration that would result in increased costs.

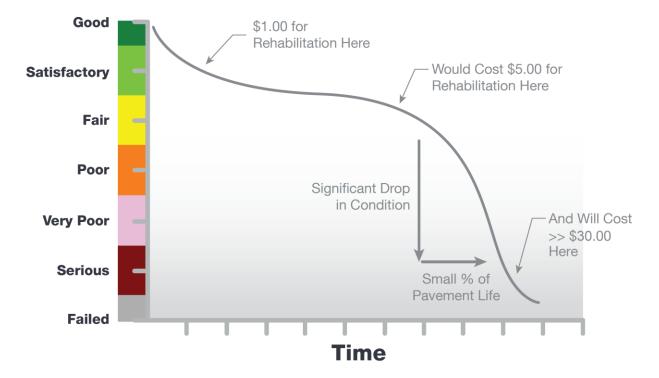


Figure 1.7-1 Typical Pavement Condition Life Cycle

*Figure is for conceptual purposes only – unit costs are not specific to airfield pavements (AC vs PCC).

Figure 1.7-2 General Pavement Treatments by Condition Range depicts generic flexible asphalt concrete (AC) pavement treatments that are effective at specific condition ranges. This graphic is a general concept and will vary based on pavement surface type and overall

Serious 11-25

> Failed 0-10

> > 0

5

\$57/sy to \$86/sy here

Age (Years)

20

25





composition. The intent is to convey various treatment types that would be effective based on the condition of the pavement along the deterioration model.

WITH TREATMENT Good 86-100 **Pavement Condition** \$2/sy to \$4/sy here for Satisfactory preventive maintenance surface seals every 5-7 71-85 Fair \$15/sy to \$25/sy here for minor resurfacing 56-70 thin AC overlay Poor 41-55 WITHOUT TREATMENT \$19/sv to \$35/sv here Very Poor for major resurfacing thick AC overlay 26-40

Figure 1.7-2 General Pavement Treatments by Condition Range

Pavement maintenance, repair, and major rehabilitation would be quite anticipatory if all pavements behaved as depicted in Figures 1.7-1 and 1.7-2, however pavement condition performance vary significantly based on several factors. Factors that contribute to a pavement section's condition and deterioration performance may include: functional design life, material type, material construction quality, climatic conditions, aircraft loading type and frequency, nonaircraft loading type and frequency, maintenance history, subgrade conditions, and other infrastructure in the vicinity. The list of factors is not all-inclusive of all factors that may contribute to a pavement's life cycle, it is intended to clarify that unique conditions certainly will affect a pavement's deterioration.

Figures 1.7-3 and Figure 1.7-4 depict visual conditions of pavement facilities, for both AC and PCC respectively, with approximated PCI ranges and corresponding repair and rehabilitation measures.

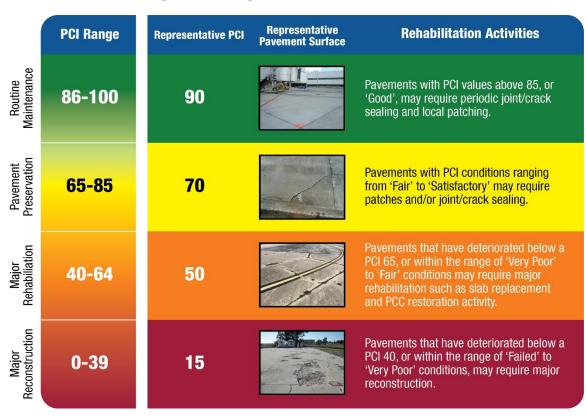




Figure 1.7-3 Flexible Asphalt Concrete

	PCI Range	Representative PCI	Representative Pavement Surface	Rehabilitation Activities
Routine Maintenance	86-100	90		Pavements with PCI values above 85, or 'Good', may require periodic joint/crack sealing and local patching.
Pavement Preservation	65-85	70		Pavements with PCI conditions ranging from 'Fair' to 'Satisfactory' may require surface treatments (seal coat), thin overlays, and/or joint/crack sealing.
Major Rehabiliation	40-64	50	A S	Pavements that have deteriorated below a PCI 65, or within the range of 'Very Poor' to 'Fair' conditions, may require major rehabilitation such as pavement mill and overlay or partial full-depth reconstruction.
Major Reconstruction	0-39	15		Pavements that have deteriorated below a PCI 40, or within the range of 'Failed' to 'Very Poor' conditions, may require major reconstruction.

Figure 1.7-4 Rigid Portland Cement Concrete







1.8 References

The following reference documents were referenced as specific guidelines and procedures for maintaining airport pavements; establishing an effective pavement maintenance program; and identifying specific pavement distresses, probable causes of distresses, inspection guidelines, and recommended methods of repair:

- ASTM D5340-12 "Standard Test Method for Airport Pavement Condition Index Surveys."
- FAA Advisory Circular 150/5380-7B 150/5380-7B "Airport Pavement Management Program."
- FAA Advisory Circular 150/5380-6C "Guidelines and Procedures for Maintenance of Airport Pavements."
- FAA Advisory Circular 150/5320-6F "Airport Pavement Design and Evaluation."
- Department of the Air Force, Air Force Civil Engineer Center "Engineering Technical Letter (ETL) 14-3: Preventive Maintenance Plan (PMP) for Airfield Pavements."
- Unified Facilities Criteria (UFC) 3-260-16FA 16 "Airfield Pavement Condition Survey Procedures Pavements."
- Unified Facilities Criteria (UFC) 3-260-03 "Airfield Pavement Evaluation."
- Pavement Management for Airports, Roads, and Parking Lots 2nd Edition, M.Y. Shahin.



Chapter 2





Chapter 2 – Methodology

An effective pavement management program incorporates the regular collection of pavement condition information and communication of information to appropriate sponsors. This chapter of the report defines the specific methods utilized as part of the SAPMP System Update to meet the requirements of an effective pavement management system as defined by the FAA Advisory Circular 150/5380-7B "Airport Pavement Management Program (PMP)."

2.1 Airfield Pavement Database

The SAPMP program has historically utilized PAVER™ (formerly MicroPAVER™); the current update has maintained the use of the PAVER $^{\text{TM}}$ 7.0 version of the software. The PAVER $^{\text{TM}}$ software application was developed by the U.S. Army Construction Engineering Research Laboratory sponsored by the FAA, Federal Highway Administration, U.S. Army, U.S. Air Force, and the U.S. Navy to meet the objectives of an effective pavement management system. The SAPMP consists of a network-level database of the airport's airfield pavement facilities that are part of the program. PAVER™ can achieve the following pavement management objectives: a manageable inventory system, the analysis of the current condition of pavements in accordance with the ASTM D5340, the development of pavement performance models to forecast conditions, and the development of maintenance, repair, and major rehabilitation recommendations based on budgetary scenarios.

PAVER™ inventory management is based on a tiered organizational structure that consists of networks, branches, and sections, with the section being the smallest unit of management. Critical elements of an effective pavement management program are maintained within the network-level PAVERTM database. These elements typically consist of pavement inventory characteristics, pavement structure, work history, historic condition records, and analytical customization.

The SAPMP System Update consisted of the conversion of the previous database from a PAVER™ version 6.5 to a version 7.0.

2.2 Airfield Pavement System Inventory

An airfield pavement system inventory typically maintains the location of all runways, taxiways, and aprons; geometric characteristics; type of pavement structure, year of construction and/or last major rehabilitation; and general composition details of the pavement.

The pavement inventory for an airport's airfield is an assembly of pavement infrastructure information that builds an inventory of branches and sections that codifies the airport's airfield pavement network. General geometry characteristics, estimated length, width, functional classification, pavement surface type, and operational function are among the characteristics identified at this initial phase in the pavement management process. The development of a pavement inventory that reasonably reflects the airport's airfield pavement facilities that are maintained by the airport provides a defined scope of the inspection and analysis efforts. As in the past, the SAPMP scope of work is specific to the airport-maintained airfield pavements as defined in the field network definition exhibits presented to current airport personnel.





A critical input to the pavement system inventory and network definition in the development of the SAPMP update is the date of last major rehabilitation/construction performed on the pavement assets that would set the asset at a PCI of 100 and a condition rating of Good. The airport provided a limited combination of record drawings, reports, and staff input that was pertinent information in developing the construction history of the airport's pavements from inception. Major rehabilitation/construction activities performed in the last 24-months or anticipated in the next 24-months are assumed to restore the PCI to 100. These activities include; pavement overlay, mill and replace, mill and overlay, new construction, and/or complete reconstruction.

Aerial imagery was obtained through the FDOT Surveying & Mapping Office's Aerial Photo Look Up System (APLUS). This spatially projected imagery was utilized with computer-aided drafting software (AutoCAD) in concert with geographical information system software (ArcGIS) to develop a planning-level representative model that reasonably reflects the pavement assets at the airport.

2.2.1 Pavement Management Program Network Definition Terminology

There are several terms that are common in the communication of the results of the SAPMP System Update, these terms are defined as follows:

Pavement Network

A pavement network is a logical unit for organizing pavements into a structure for pavement management. A network will typically consist of one or more pavement branches, which are typically comprised of one or many pavement sections. The network is the starting point of the hierarchy of pavement management organization. For example, a network can be all the pavements within an airport's airfield or all the pavements in a statewide program. For the FDOT SAPMP, a network represents an individual airport's airfield pavement facilities maintained by the airport.

The SAPMP System Update consists of research and evaluation of existing record documentation for the participating airports' airfield facilities. The pavement network is typically limited to the payement facilities subject to aircraft use that is also maintained by the airport owner and eligible for public funding.

Pavement Branch

A pavement branch, also known as a facility, is a logical unit of generally identifiable pavement of a network with distinct functional classification. For example, within an airfield each runway, taxiway, or apron is considered a branch. A branch must consist of at least one section.

Pavement Section

A pavement section, also known as a feature, is the most specific management unit when considering the application and selection of maintenance, repair, and/or major rehabilitation treatments on an area of pavement within a branch. Each branch consists of at least one section, but may consist of more if pavement feature characteristics are distinct throughout the branch. Characteristics considered when subdividing branches into sections include, but are not limited to: pavement structure, type, age, condition, and function; traffic composition and frequency (current and future); geometric location; construction history; and other related





infrastructure features (e.g. drainage). A pavement section is defined as a subordinate of a pavement branch, which is a subordinate of a "parent" pavement network.

Pavement Sample Unit

A pavement sample unit is a subdivision of a pavement section that has a standard size range: twenty (20) continuous slabs (±8 slabs) for Portland Cement Concrete (PCC) pavement and 5,000 contiguous square feet (±2,000 ft²) for flexible asphalt concrete (AC) or porous friction course pavements.

Table 2.2.1 Airfield Pavement Database Network Definition Terminology

PMS Network Level	Common Definition	Airport Example	
Network	Overall pavement assets maintained by the Airport	"Tallahassee International Airport – Airfield Pavements"	
Branch Name	Commonly defined asset name as established by Airport and by use	"Runway 18-36"	
Branch ID	Codified shorthand name for commonly defined asset established for database identification	"RW 18-36" RW, Branch Use, "Runway" 18-36, Runway Facility	
Section ID	Codified identification for pavement asset that is distinct by the following: Pavement Composition Construction Work History Aircraft Traffic Condition Records	"6105"	
Sample Unit	A numeric identification of an area of pavement (5,000±2,000 SF of AC or 20±8 slabs of PCC) that has been inspected in accordance with ASTM D5340-12.	"300"	





2.3 Airfield Pavement Structure

2.3.1 Pavement Structure Types

Airport airfield pavements are constructed to provide adequate support for the loads imposed by aircraft and produce a firm, stable, smooth, all-year, all-weather surface free of debris or other particles that may be blown or dislocated by propeller wash or jet blast. Typical pavement planning and design requires coordination of factors that include but are not limited to; subgrade conditions, material layer types, aircraft fleet mix (type, frequency, and traffic growth), and functional use. A pavement structure is composed of constructed layers that consist of subgrade, subbase, base course, structural courses, and surfaces courses. For the FDOT SAPMP, two major pavement structure types are classified for evaluation and analysis: Flexible Asphalt Concrete Surface and Rigid Portland Cement Concrete Surface. Additionally, Composite Structures known as Whitetopping Pavements are also present at limited airports within the Florida Airports System; these unique pavement structures are evaluated separately.

Flexible Asphalt Concrete Surface

A pavement comprised of aggregate mixture with an asphalt cement binder. The FDOT SAPMP consists of three (3) asphalt concrete surface types: Asphalt Concrete (AC), Asphalt Concrete Overlaid on Asphalt Concrete (AAC), and Asphalt Concrete Overlaid on Portland Cement Concrete (APC).

Asphalt Concrete (AC)

A flexible pavement section consisting of aggregate mixture with asphalt cement binder layered on engineered base course material that is layered on subbase and subgrade soil material.

Asphalt Concrete Overlaid on Asphalt Concrete (AAC)

A flexible pavement section consisting of aggregate mixture with asphalt cement binder layered on an existing flexible AC pavement section. Flexible airfield pavement sections are AAC when a pavement rehabilitation consists of a pavement milling operation and a resurfacing of asphalt layers; or a direct overlay of asphalt concrete without surface preparation.

Asphalt Concrete Overlaid on Portland Cement Concrete (APC)

A flexible pavement section consisting of aggregate mixture with asphalt cement binder layered on an existing Rigid PCC pavement section. This unique pavement composition may result in distinct pavement distress manifestations known as reflective joint cracking.





Rigid Portland Cement Concrete Surface

A pavement comprised of aggregate mixture with a Portland Cement binder. The FDOT SAPMP recognizes Portland Cement Concrete (PCC) as the primary rigid pavement section.

Portland Cement Concrete (PCC)

A rigid pavement section composed of Portland cement concrete placed on a granular or treated base course that is supported on a compacted subgrade. The concrete surface must provide a texture of nonskid qualities, prevent the infiltration of surface water into the subgrade, and provide structural support to the airplanes. Rigid pavement construction requires the layout of appropriately designed joint spacing.

Composite Structure - Whitetopping Pavement

A composite pavement comprised of relatively thin Portland Cement Concrete overlaid on an existing flexible asphalt concrete pavement structure. There are three (3) types of Whitetopping Pavements; Conventional (WHT), Thin (TWT), and Ultra-Thin (UTW).

Conventional Whitetopping (WHT)

A composite pavement structure consisting of a modified PCC overlaid on an existing flexible AC pavement section area. The modified PCC layer is typically greater than 6inches in thickness.

Thin Whitetopping (TWT)

A composite pavement structure consisting of a modified PCC overlaid on an existing flexible asphalt concrete pavement section. The modified PCC layer is typically between 4 and 6 inches in thickness.

Ultra-Thin Whitetopping (UTW)

A composite pavement structure consisting of a modified PCC overlaid on an existing flexible asphalt concrete pavement section. The Portland Cement Concrete layer is typically between 2 and 4 inches in thickness.





2.4 Airfield Pavement Work History

2.4.1 Airfield Pavement Record Keeping

It is strongly recommended that airports maintain records of all airfield construction and maintenance related to the pavement facilities. A history of all maintenance and repair performed and its associated costs (construction and soft costs) can provide valuable information on the effectiveness of various treatments on pavements. An airport should maintain detailed records of maintenance (routine, emergency, and proactive) activities. The records should consist of the following:

- 1. Location and Limits of Work.
- Types and Severity of Distresses Repaired.
- 3. Type of Work.
- 4. Cost of Work.
- 5. Supporting Documents (contract documents, construction drawings, specifications, bid tabulations, repair product, photograph records, etc.).

2.5 Airfield Pavement Traffic

A pavement section is typically designed to meet the needs of the user (airlines, air cargo, general aviation, and/or military) in providing a safe, smooth, operational surface. Pavement deterioration generally occurs gradually through increased roughness and/or fatigue cracking caused by successive and heavy aircraft traffic.

This study does not consist of a study or analysis of each individual airport's airfield aircraft fleet mix or traffic operations. However, it is strongly recommended that airports incorporate the requirements of FAA Advisory Circular 150/5320-6F Airport Pavement Design and **Evaluation** when developing design-level rehabilitation activities. The AC provides guidance on incorporation of aircraft traffic fleet mix data.

2.6 Airfield Pavement Condition Index (PCI) Survey

2.6.1 PCI Survey Methodology

In adherence to the FAA Advisory Circular 150/5380-7B "Airport Pavement Management Program (PMP)," the FDOT SAPMP utilizes the PCI Survey Method of inspection to collect pavement distress data and analyze the condition. The PCI Survey Inspection procedure is a visual statistical sampling of pavements for recording primary distress types (e.g. cracking and deformation), associated severities, and quantities as defined by the ASTM D5340-12. This effort is the primary means of obtaining and recording pavement distress data. The survey inspection consists primarily of visual inspection of pavement surfaces for signs of distress and deterioration resulting from loading (aircraft) and environmental influences.

A visual pavement condition survey provides an indication of the cause and rate of deterioration of a pavement section from a functional point of view and can be an indicator of structural distress. The functional condition analysis assesses the rating of the operational surface. A visual PCI Survey Inspection does not predict the remaining structural life of a pavement section, or its ability to support loads. The functional condition determined by the PCI method

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can provide a cost-effective means to plan for pavement rehabilitation projects. The timely application of pavement rehabilitation may lead to the extension of functional life of individual pavement sections. This method varies from structural evaluation; functional condition is limited to visually observed distresses and indicative modes of pavement deterioration. A formal structural evaluation analyzes subsurface conditions, material characteristics, and qualitative pavement structure attributes. A structural evaluation may consist of; subsurface geotechnical exploration, falling weight deflectometer testing, petrographic testing, material coring, and/or flexural testing.





2.6.2 Pavement Distress Types

For each section, the severity and quantity of defined distresses are recorded and then analyzed in accordance with the ASTM D5340-12 standard. The standard identifies 17 distinct flexible asphalt concrete distress types and 16 distinct rigid Portland Cement Concrete distress types.

Table 2.6.2-1 (a) Pavement Distress Types - Flexible Asphalt Concrete-Surfaced Airfields

Distress	Common Distress Mechanisms
Alligator Cracking	Load / Fatigue
Bleeding	Construction Quality/ Mix Design
Block Cracking	Climate / Age
Corrugation	Load / Construction Quality
Depression	Load / Subsurface
Jet Blast	Aircraft
Joint Reflection - Cracking	Climate / Subsurface Pavement / Traffic Load
Longitudinal/Transverse Cracking	Climate / Construction Quality
Oil Spillage	Aircraft / Vehicle
Patching	Utility / Pavement Repair / Age
Polished Aggregate	Repeated Traffic Loading
Raveling	Climate / Age
Rutting	Load / Fatigue
Shoving	PCC Pavement Growth / Movement
Slippage Cracking	Load / Pavement Bond / Mix Design
Swelling	Climate / Subsurface
Weathering	Climate / Age

2017





Table 2.6.2-1 (b) Pavement Distresses Possible Causes - Flexible Asphalt Concrete-Surfaced Airfields

	Classification by Possible Causes							
Load	Climate / Durability	Moisture / Drainage	Others					
 Alligator Cracking Corrugation Depression Patching of Load-based distress Polished Aggregate Rutting Slippage Cracking 	 Bleeding Block Cracking Joint Reflection Cracking L/T Cracking Patching of climate / durability-caused distresses Shoving from PCC Raveling Weathering Swelling 	 Alligator Cracking Depression Patching of moisture / drainage caused distress Swelling Raveling Weathering 	Oil Spillage Jet Blast Erosion Polished Aggregate					

Table 2.6.2-1 (c) Pavement Distresses Possible Effects - Flexible Asphalt Concrete-Surfaced Air fields

Classification by Possible Effects							
Roughness	Skid / Hydroplaning Potential	FOD Potential	Rate of Deterioration and Maintenance Requirements				
 Corrugation Depression Rutting Shoving of asphalt pavement Swelling Raveling Weathering 	 Bleeding Depression Polished Aggregate Rutting 	Block Cracking Joint Reflection Cracking L/T Cracking Slippage Cracking	All Distresses				





Table 2.6.2-2 (a) Pavement Distresses - Rigid Portland Cement Concrete-Surfaced Airfields

Distress	Common Distress Mechanisms			
Blowup	Climate / ASR			
Corner Break	Load Repetition / Curling Stresses			
Linear Cracking	Load Repetition / Curling Stresses / Shrinkage Stresses			
Durability Cracking	Freeze-Thaw Cycling			
Joint Seal Damage	Material Deterioration / Construction Quality / Age			
Small Patch	Pavement Repair			
Large Patch/Utility Cut	Utility / Pavement Repair			
Popout	Freeze-Thaw Cycling / ASR / Material Quality			
Pumping	Load Repetition / Poor Joint Sealant			
Scaling	Construction Quality / Freeze-Thaw Cycling			
Faulting	Subgrade Quality / ASR / Inadequate Load Transfer			
Shattered Slab	Overloading			
Shrinkage Cracking	Construction Quality / Climate			
Joint Spalling	Load Repetition / Infiltration of Incompressible Material / Deterioration of Dowel (Load Transfer) Bars			
Corner Spalling	Load Repetition / Infiltration of Incompressible Material / Deterioration of Dowel (Load Transfer) Bars			
Alkali-Silica Reaction (ASR)	Construction Quality / Climate / Chemical Reaction			





Table 2.6.2-2 (b) Pavement Distresses Possible Causes - Rigid Portland Cement Concrete-Surfaced Airfields

	Classification by Possible Causes								
Load	Climate / Durability	Moisture / Drainage	Others						
 Corner Break Shattered Slab L/T/D Cracking Pumping Patching of Load-associated distress Spalling 	 Blowup "D" Cracking Joint Seal Damage Popouts Scaling Patch of Climate/Durability-associated distress Shrinkage Cracking Spalling L/T/D Cracking 	 Corner Break Shattered Slab Pumping Patching of Moisture/Drainage- associated distress 	Settlement / Faulting						

Table 2.6.2-2 (c) Pavement Distresses Possible Effects - Rigid Portland Cement Concrete-Surfaced Airfields

	Classification by Possible Effects								
Roughness	Skid / Hydroplaning Potential	FOD Potential	Rate of Deterioration and Maintenance Requirements						
 Blowup Corner Break L/T/D Cracking Shattered Slab Settlement / Faulting Spalling 	 Settlement / Faulting Spalling 	Corner Break L/T/D Cracking "D" Cracking Joint Seal Damage Shattered Slab Popouts Scaling	All distresses						





2.6.3 PCI Survey Inspection Procedures

Inspection Sampling Rate

The FDOT SAPMP performs PCI Survey Inspections on sample units defined in the previous update. The sample units are subject to change at the discretion of the inspection personnel and/or to major pavement rehabilitation treatments. Furthermore, access to the sample units based on accessibility or impacts to operations may affect the overall sampling rate effort at each airport. The following Tables 2.6.3 (a) and (b) define the sampling criteria used by the FDOT SAPMP. A higher sampling rate may be utilized to achieve a greater statistical confidence should the airport have the available resources to perform PCI Survey Inspections independent of the FDOT SAPMP.

Table 2.6.3 (a) Recommended Sample Rate Schedule for Flexible Asphalt Concrete

Number of Total	Sample Unit	s to Inspect			
Sample Units in Section	Runways	Taxiways, Aprons, and Others			
1 - 4	1	1			
5 - 10	2	1			
11 - 15	3	2			
16 - 30	5	3			
31 - 40	7	4			
41 - 50	8	5			
51 or more	20% but ≤20	10% but ≤10			

Table 2.6.3 (b) Recommended Sample Rate Schedule for Rigid Portland Cement Concrete

Number of Total	Sample Unit	Jnits to Inspect				
Sample Units in Section	Runways	Taxiways, Aprons, and Others				
1 - 3	1	1				
4 - 6	2	1				
7 - 10	3	2				
11 - 15	4	2				
16 - 20	5	3				
21 - 30	7	3				
31 - 40	8	4				
41 - 50	10	5				
51 or more	20% but ≤20	10% but ≤10				





2.6.4 Updates to the ASTM D5340-12

Airfield pavement distresses and conditions were surveyed in accordance with the methods outlined in FAA Advisory Circular 150/5380-6C and ASTM D5340-12. These procedures define distress type, severity, and quantity for sampling areas within each defined pavement section area to analyze and determine the PCI value and condition rating. During the 2013-2015 System Update, the incorporation of the significant chances to the ASTM D5340 (version D5340-12) resulted in an adjusted pavement condition indices on pavement sections subject to the distress types updated. Furthermore, the revision of the PCI deduction curves and the separation of distress types from the original, such as Weathering and Raveling, have in select cases increased the PCI value of the section without any rehabilitation performed.

Flexible Asphalt Concrete Pavement Distress Updates

The previous methodology which featured "(52) Weathering and Raveling" distress has been separated into two distresses "(52) Raveling" and "(57) Weathering." Previously, areas that were recorded as "Weathering and Raveling" were considered as one distress with a high deduction. Based on the updated methodology, in certain situations where "Weathering" only exists and does not meet the definition of "Raveling," the PCI deduction is not as high as the former "Weathering and Raveling." Therefore, areas identified only as "(57) Weathering" based on current ASTM standards, which were previously identified as "(52) Weathering and Raveling," may be subject to an improvement in PCI. In instances where pavement PCI has increased due to this update, it is not due to an improvement in actual condition, however indicative of the adjusted distress deterioration effects.

Rigid Portland Cement Concrete Pavement Distress Updates

The previous methodology defined "(70) Scaling" as a distress that consisted of surface deterioration caused by construction defects, material defects, and environmental factors. The distress included Alkali-Silica Reaction, also known as ASR. The current methodology has separated Alkali-Silica Reaction as a distress identified as "(76) Alkali-Silica Reaction / ASR." As a result the previous "(70) Scaling" numerical deduction contribution to the PCI has been reduced. Previous inspections that recorded "(70) Scaling," and currently do not exhibit "(76) Alkali-Silica Reactivity / ASR" may potentially see an increase in PCI. Additionally, "(73) Shrinkage Cracks" has been redefined as "(73) Shrinkage Cracking". Shrinkage Cracking is characterized in two forms; drying shrinkage and plastic shrinkage. Drying shrinkage occurs over time as moisture leaves the pavement, it develops when hardened pavement continues to shrink as excess water not needed for cement hydration evaporates. It forms when subsurface resistance to the shrinkage is present and may extend through the entire depth of the slab. Plastic shrinkage develops when there is rapid loss of water in the surface of recently placed pavement or can form from over finishing/overworking of the pavement during construction. These shrinkage cracks appear as a series of inter-connected hairline cracks, or pattern cracking, and are often observed throughout the majority of the slab surface. This condition is also referred to as map cracking or crazing.





Table 2.6.4 Summary of Updates to ASTM D5340-12

Use and Surface Type	Updated Distress	Former Distress in Prior to 5340-10	Deduction Curve	Potential Effect
AC/AAC/ APC Airfield	(52) Raveling - Low	(52) Weathering and Raveling - Low	No Change	N/A
	(52) Raveling - Medium	(52) Weathering and Raveling - Medium	No Change	N/A
	(52) Raveling - High	(52) Weathering and Raveling - High	No Change	N/A
	(57) Weathering - Low	N/A – was part of 'Weathering and Raveling'	New	Increase in PCI with no maintenance
	(57) Weathering - Medium	N/A – was part of 'Weathering and Raveling'	New	Increase in PCI with no maintenance
	(57) Weathering - High	N/A – was part of 'Weathering and Raveling'	New	Increase in PCI with no maintenance
PCC Airfield	(70) Scaling - Low	(70) Scaling, Map Cracking, and Crazing - Low	New	Increase in PCI with no maintenance
	(70) Scaling - Medium	(70) Scaling, Map Cracking, and Crazing - Medium	New	Increase in PCI with no maintenance
	(70) Scaling - High	(70) Scaling, Map Cracking, and Crazing - High	New	Increase in PCI with no maintenance
	(76) Alkali Silica Reaction – Low	N/A – was part of 'Scaling, Map Cracking, and Crazing'	New	Increase in PCI with no maintenance
	(76) Alkali Silica Reaction – Medium	N/A – was part of 'Scaling, Map Cracking, and Crazing'	New	Increase in PCI with no maintenance
	(76) Alkali Silica Reaction – High	N/A – was part of 'Scaling, Map Cracking, and Crazing'	New	Increase in PCI with no maintenance
	(73) Shrinkage Cracking	(73) Shrinkage Cracking	No Change	Prior distress types identified as 'Scaling, Map Cracking, and Crazing' may now be identified as 'Shrinkage Cracking'



Chapter 3





Chapter 3 – Airfield Pavement System Inventory

A significant element of an effective airfield pavement management system is the appropriate record keeping of changes due to construction or operational use of the pavement facilities. This chapter discusses the inventory data collected from the airport and summarizes network-level characteristics of the airport's airfield pavements. At the start of each FDOT SAPMP System Update, all airports are asked to review the existing Airfield Pavement Network Definition exhibit for accuracy. Furthermore, participating airports are asked to provide documentation for any recent or anticipated construction related to their airfield pavements.

3.1 Airfield Pavement Network Information

3.1.1 Previous and/or Anticipated Airfield Pavement Construction

Based on information provided by the airport, the following Table 3.1.1 summarizes the airfield pavement construction projects that have been incorporated into the SAPMP database system since the 2013-2015 System Update. Figure 3.1.1-1 and Figure 3.1.1-2 provides an inset view of the 2017 Airfield Pavement Network Definition Exhibit and the 2017 Airfield Pavement System Inventory Exhibits that depict the updated network details for the airport reflected in the PAVER Database. Large format exhibits are referenced in **Appendix C Technical Exhibits**.

Table 3.1.1 Previous and/or Anticipated Airfield Pavement Construction

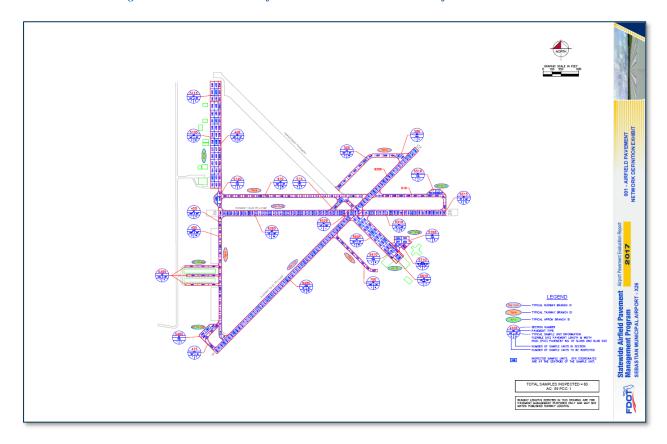
Year	General Work Description					
2017	TW D - New Construction					
2017	TW E - New Construction					
2018	TW C - New Construction					

The airport provided a limited combination of record drawings, reports, and staff input that was pertinent information in developing the construction history of the airport's pavements from inception. Major rehabilitation/construction activities performed in the last 24-months or anticipated in the next 24-months are assumed to restore the PCI to 100. These activities include: pavement overlay, mill and replace, mill and overlay, new construction, and/or complete reconstruction. These pavements were not formally subject to a PCI Survey and actual conditions may vary. Furthermore, any localized maintenance or repair performed that would improve the PCI will be considered in the condition analysis, if performed within inspection areas.





Figure 3.1.1-1 2017 Airfield Pavement Network Definition Exhibit

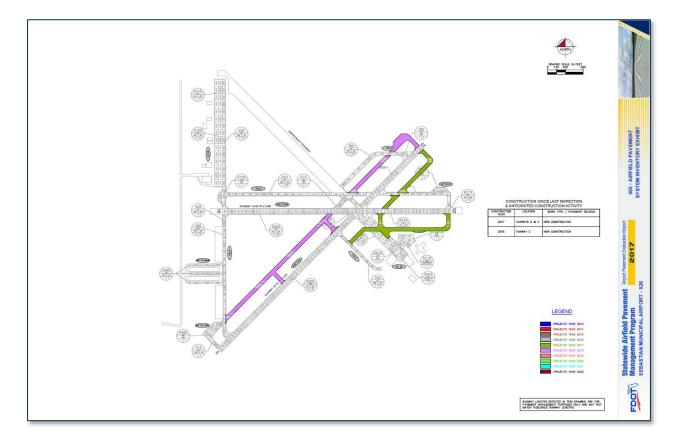


The Airfield Pavement Network Definition Exhibit provides details to the PCI Survey inspection efforts. The exhibit identifies the pavement facilities, surface type, section definition, and sample unit delineation.





Figure 3.1.1-2 2017 Airfield Pavement System Inventory Exhibit



The Airfield Pavement System Inventory Exhibit provides details to the work history updates communicated by the Airport. The Exhibit provides the approximate limits of recent and/or anticipated construction on the airfield pavement facilities. The limits are based on documentation provided by the Airport and, if constructed, observed in the field.

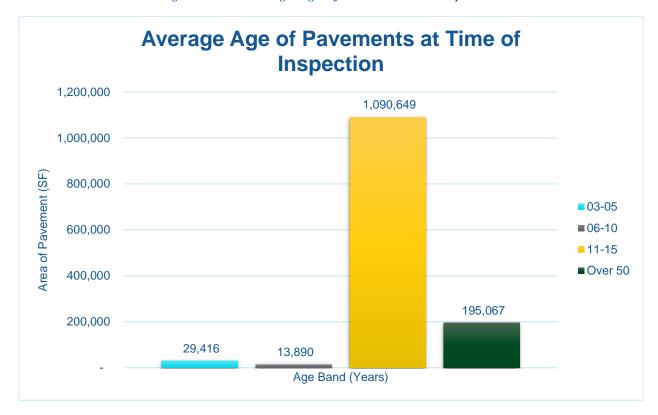
3.1.2 Estimated Pavement Age

Standard pavement design practice considers a design life of a 20-year period. Design inputs typically require subgrade soil conditions, pavement section layer material characteristics, and anticipated loading (aircraft fleet mix) for the design-life period. Based on the review of the historic airfield pavement construction, Figure 3.1.2 summarizes the average age of the pavement sections since any major construction activity has occurred during the PCI Survey inspection. This is intended to be a rough estimate based on interpretation of the limited data available at the time of report.





Figure 3.1.2 Average Age of Pavements at Inspection



The estimation of the pavement age is based on information requested and provided by participating airports. Additionally, data collected in the prior system updates since 1992 have been relied upon.

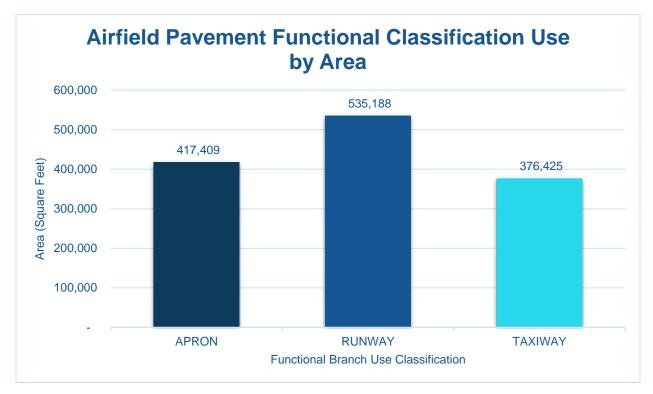




3.1.3 Functional Use Classification

Pavements are subject to varying aircraft loading patterns based on utilization and overall operations. For this SAPMP Update, the following categories of airfield functional use have been identified and associated with the following possible pavement branch facilities: Apron, Runway, Taxiway, and Taxilane. Figure 3.1.3 summarizes the identified pavements' functional use by area in square feet. The pavement areas reviewed exclude shoulder pavement facilities.

Figure 3.1.3 Airfield Pavement Functional Classification Use by Area









3.1.4 Pavement Surface Type

The airfield pavement facility surface types within the SAPMP include four common types of pavement: Portland cement concrete (PCC), asphalt concrete (AC), asphalt concrete overlaid on asphalt concrete (AAC), and asphalt concrete overlaid on Portland cement concrete (APC).

Based on the record documentation incorporated within the SAPMP database throughout the years, the pavement surface types have been assigned to the various pavement sections in accordance to its work history composition. The following Figures 3.1.4 (a) and (b) summarize the applicable pavement types observed at this specific airport's airfield.

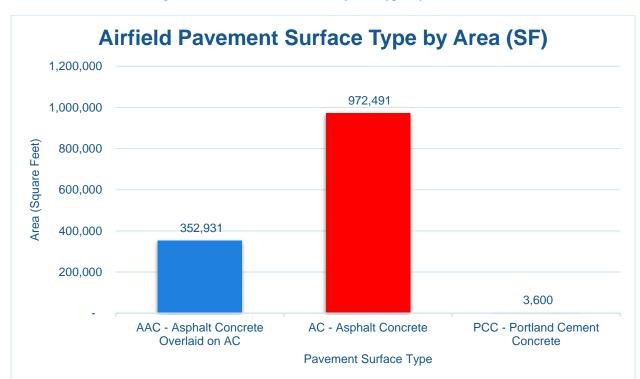
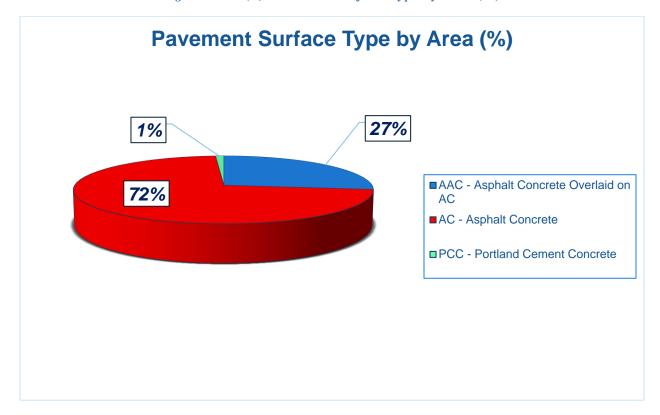


Figure 3.1.4 (a) Pavement Surface Type by Area (SF)





Figure 3.1.4 (b) Pavement Surface Type by Area (%)



3.1.5 Pavement System Inventory Details

The following **Table 3.1.5** displays the section-level details assembled as part of this update. The section-level details are based on the record documentation provided by the airports to FDOT and from SAPMP System Updates. The details assembled rely on the accuracy and the adequacy of data provided; however, it should be noted that characteristics such as pavement areas may be based on aerial interpretation of spatially projected imagery. The accuracy of data is presented with the intention of a network planning-level document; should the airport elect to perform rehabilitation work, it is recommended that further investigation be performed at the project level for construction purposes.

In summary, the scope of the pavement inventory update resulted in the updating of select existing pavement geometry and the development of an AutoCAD model with spatial projection for use within GIS. Appendix A includes the Airfield Pavement Network Definition Exhibit and the Airfield Pavement System Inventory Exhibit which visually summarize the results of the Airfield Pavement System Inventory analysis and reporting.





Table 3.1.5 Pavement System Inventory Details

Network ID	Branch Name	Branch ID	Branch Use	Section ID	Length (FT)	Width (FT)	Area (SF)	Surface Type	Est. Last Construction Date
X26	E RUN UP APRON	AP RU E	APRON	5510	200	50	13,002	AC	1/1/2004
X26	SW RUN UP APRON	AP RU SW	APRON	5405	195	100	19,824	AC	1/1/2005
X26	SOUTHEAST APRON	AP SE	APRON	5605	700	150	100,723	AC	1/1/1943
X26	SOUTHEAST APRON	AP SE	APRON	5610	200	150	21,960	AC	1/1/2005
X26	SOUTHEAST APRON	AP SE	APRON	5615	105	100	10,290	AC	1/1/2009
X26	APRON TERMINAL	AP TERM	APRON	5705	200	100	32,590	AC	1/1/2005
X26	APRON TERMINAL	AP TERM	APRON	5710	60	60	3,600	PCC	1/1/2008
X26	T-HANGAR APRON AREA	AP T-HANG	APRON	5305	1000	20	28,960	AC	1/1/2003
X26	WEST APRON	AP W	APRON	5105	1200	100	133,925	AC	1/1/2005
X26	WEST APRON	AP W	APRON	5115	290	50	31,900	AC	1/1/1943
X26	WEST APRON	AP W	APRON	5120	400	50	20,635	AC	1/1/2004
X26	Runway 10-28	RW 10-28	RUNWAY	6305	1800	75	134,512	AC	1/1/2004
X26	Runway 10-28	RW 10-28	RUNWAY	6310	575	75	44,362	AC	1/1/2004
X26	Runway 10-28	RW 10-28	RUNWAY	6315	613	75	45,750	AC	1/1/2004
X26	Runway 10-28	RW 10-28	RUNWAY	6320	213	75	15,376	AC	1/1/2004
X26	RUNWAY 5-23	RW 5-23	RUNWAY	6205	2938	100	295,188	AAC	1/1/2003
X26	TAXIWAY ALPHA	TW A	TAXIWAY	405	1700	35	57,743	AAC	1/1/2005
X26	TAXIWAY ALPHA	TW A	TAXIWAY	415	410	40	16,504	AC	1/1/2005
X26	TAXIWAY ALPHA	TW A	TAXIWAY	420	1500	50	60,300	AC	1/1/2004
X26	TAXIWAY ALPHA	TW A	TAXIWAY	425	180	35	7,067	AC	1/1/2004
X26	TAXIWAY BRAVO	TW B	TAXIWAY	610	4770	25	119,314	AC	1/1/2004
X26	TAXIWAY CHARLIE	TW C	TAXIWAY	305	1020	50	51,193	AC	1/1/1943
X26	TAXIWAY CHARLIE	TW C	TAXIWAY	306	120	75	11,251	AC	1/1/1943
X26	TAXIWAY CONNECTOR	TW CONN	TAXIWAY	515	750	30	23,637	AC	1/1/2004
X26	TAXIWAY E	TW E	TAXIWAY	700	800	35	29,416	AC	1/1/2011





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Chapter 4





Chapter 4 – Airfield Pavement Condition

The examination of specific distress types (with causes attributed to load, climate, or other defined distress mechanism), determination of the severity of distress, and determination of the quantity of distress manifestation are required in the computation of a PCI value. The PCI provides valuable information that can be used to determine the existing condition of the pavement, possible cause of the pavement deterioration, and eventually aid in the planning of the rehabilitation of pavements. It should be noted that the PCI method of pavement condition evaluation is strictly a visual and functional evaluation. Further evaluation of the pavement condition may be necessary for design and/or project-level determination of pavement rehabilitation.

4.1 Airfield Pavement Condition Index (Latest Inspection)

4.1.1 Network-Level Analysis

The following Figure 4.1.1 summarizes the network-level pavement condition analysis based on the most recent PCI Survey inspection results.

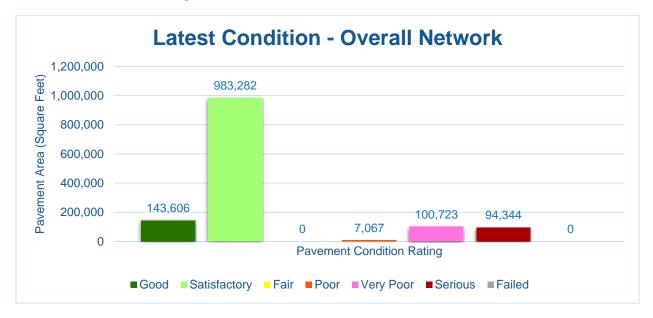


Figure 4.1.1 Latest Condition - Overall Network

4.1.2 Branch-Level Analysis

The following Figures 4.1.2 (a) through (c) summarize the branch-level pavement condition analysis based on the most recent PCI Survey inspection results; the following Figures provide overall branch-level conditions by branch use.





Figure 4.1.2 (a) Latest Condition - Runway Pavements



Figure 4.1.2 (b) Latest Condition - Taxiway Pavements

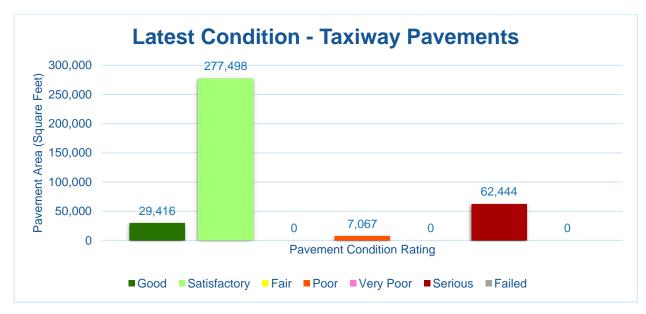






Figure 4.1.2 (c) Latest Condition - Apron Pavements







4.1.3 Section-Level Analysis

The following Table 4.1.3 provides details for each pavement section of its area-weighted average PCI and the percent of distress which is related to load, climate, or other factors. The amount of distress attributed to the various causes provides insight into maintenance, repair, and rehabilitation needs. Load-related distress indicates that pavements are reaching the end of their structural design life, and for those pavements exhibiting a significant amount of these distress types, rehabilitation should be planned to strengthen or reconstruct the pavement. Appendix C Technical Exhibits provides a technical exhibit that graphically depicts the PCI values and ratings determined from this SAPMP System Update.

Any pavement facilities subject to pavement construction within the past 2 years or anticipated for construction within the next year may have been omitted from inspection. Pavement subject to major rehabilitation will be set to a PCI of 100.





Table 4.1.3 Latest Pavement Condition Index Summary

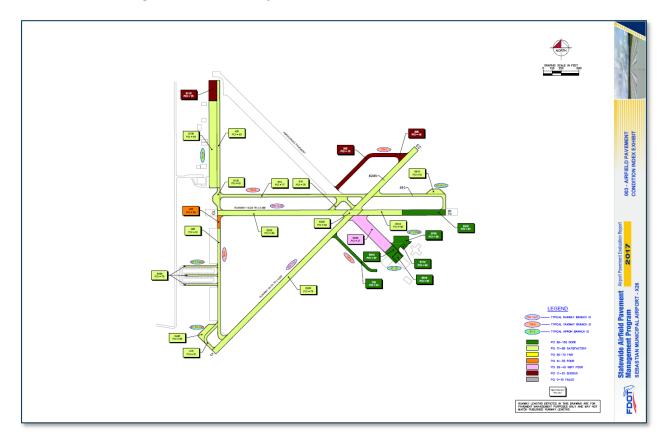
Network ID	Branch ID	Branch Name	Branch Use	Section ID	Area (SF)	Surface	PCI	PCI Rating	PCI Pct Climate	PCI Pct Load	PCI Pct Other	Sample Units Inspected	Total Sample Units in Section
X26	AP RU E	E RUN UP APRON	APRON	5510	13,002	AC	81	Satisfactory	100%	0%	0%	1	4
X26	AP RU SW	SW RUN UP APRON	APRON	5405	19,824	AC	85	Satisfactory	94%	0%	6%	1	4
X26	AP SE	SOUTHEAST APRON	APRON	5605	100,723	AC	27	Very Poor	51%	45%	4%	3	20
X26	AP SE	SOUTHEAST APRON	APRON	5610	21,960	AC	87	Good	44%	0%	56%	1	5
X26	AP SE	SOUTHEAST APRON	APRON	5615	10,290	AC	87	Good	84%	0%	16%	1	2
X26	AP TERM	APRON TERMINAL	APRON	5705	32,590	AC	89	Good	98%	0%	2%	1	6
X26	AP TERM	APRON TERMINAL	APRON	5710	3,600	PCC	92	Good	90%	0%	10%	1	1
X26	AP T-HANG	T-HANGAR APRON AREA	APRON	5305	28,960	AC	78	Satisfactory	70%	0%	30%	1	9
X26	AP W	WEST APRON	APRON	5105	133,925	AC	84	Satisfactory	98%	0%	2%	3	24
X26	AP W	WEST APRON	APRON	5115	31,900	AC	15	Serious	39%	60%	1%	1	6
X26	AP W	WEST APRON	APRON	5120	20,635	AC	81	Satisfactory	88%	0%	12%	1	4
X26	RW 10-28	Runway 10-28	RUNWAY	6305	134,512	AC	80	Satisfactory	100%	0%	0%	7	36
X26	RW 10-28	Runway 10-28	RUNWAY	6310	44,362	AC	80	Satisfactory	100%	0%	0%	2	12
X26	RW 10-28	Runway 10-28	RUNWAY	6315	45,750	AC	87	Good	100%	0%	0%	2	12
X26	RW 10-28	Runway 10-28	RUNWAY	6320	15,376	AC	82	Satisfactory	93%	0%	7%	1	4
X26	RW 5-23	RUNWAY 5-23	RUNWAY	6205	295,188	AAC	75	Satisfactory	100%	0%	0%	16	78
X26	TW A	TAXIWAY ALPHA	TAXIWAY	405	57,743	AAC	81	Satisfactory	100%	0%	0%	3	16
X26	TW A	TAXIWAY ALPHA	TAXIWAY	415	16,504	AC	81	Satisfactory	100%	0%	0%	1	4
X26	TW A	TAXIWAY ALPHA	TAXIWAY	420	60,300	AC	83	Satisfactory	100%	0%	0%	2	15
X26	TW A	TAXIWAY ALPHA	TAXIWAY	425	7,067	AC	54	Poor	56%	0%	44%	1	2
X26	TW B	TAXIWAY BRAVO	TAXIWAY	610	119,314	AC	77	Satisfactory	100%	0%	0%	4	32
X26	TW C	TAXIWAY CHARLIE	TAXIWAY	305	51,193	AC	13	Serious	55%	42%	3%	2	10
X26	TW C	TAXIWAY CHARLIE	TAXIWAY	306	11,251	AC	16	Serious	51%	47%	2%	1	2
X26	TW CONN	TAXIWAY CONNECTOR	TAXIWAY	515	23,637	AC	75	Satisfactory	84%	0%	16%	2	5
X26	TW E	TAXIWAY E	TAXIWAY	700	29,416	AC	91	Good	100%	0%	0%	1	8





Figure 4.1.3 is an inset view of the 2017 Airfield Pavement Condition Index Exhibit that visually represents the results of the latest PCI Survey inspection. A large format exhibit is located in **Appendix C Technical Exhibits.**

Figure 4.1.3 2017 Airfield Pavement Condition Index Exhibit







4.2 Summary of Pavement Condition Evaluation Results

4.2.1 Network-Level Observations

The field PCI Survey performed at Sebastian Municipal Airport (X26) started and completed on 09/15/2016. The resulting overall average area-weighted PCI value was 71 representing a condition rating of Satisfactory. Sebastian Municipal Airport is served by two runways; Runway 5-23 is 75-ft wide by 4,023-ft long and Runway 10-28 is 75-ft wide by 3,199-ft long.

Based on the FAA 5010 Report as of 06/12/2017 the Airport has reported 37,240 operations for 12 months ending 01/09/2016.

4.2.2 Branch-Level Observations

The following branch-level observations are intended to be an overall summary of select pavement facilities identified during the PCI Survey; further detail at the section and samplelevel may be referenced for all pavements assessed as part of this System Update. The branchlevel observations discussed are limited to select branches based on use and condition.

Runway 10-28

Runway 10-28 consists of 4 sections constructed of AC. The last construction year for Runway 10-28 was 2004. The average area-weighted PCI for Runway 10-28 is 81 representing a Satisfactory condition rating. The pavement distresses observed were related to Climate and Other distress classifications. Distresses observed in Runway 10-28 consist of Depression, Longitudinal & Transverse Cracking, Raveling, and Weathering. The isolated instance of a depression was observed in section 6320 at the intersection of Runway 05-23.

Runway 5-23

Runway 5-23 consists of 1 section constructed of AAC. The last construction year for Runway 5-23 was 2003. The average area-weighted PCI for Runway 5-23 is 75 representing a Satisfactory condition rating. The pavement distresses observed were related to Climate distress classifications. Distresses observed in Runway 5-23 consist of Longitudinal & Transverse Cracking, Patching, Raveling, and Weathering.

Taxiway A

Taxiway A consists of 4 sections constructed of AC and AAC. The last construction years vary from 2004 to 2005. The average area-weighted PCI for Taxiway A is 80 representing a Satisfactory condition rating. The pavement distresses observed were related to Climate and Other distress classifications. Distresses observed in Taxiway A consist of Depression, Longitudinal & Transverse Cracking, Raveling, and Weathering. Section 425 had a significant amount of depressions which contributed to its PCI value of 54, a condition rating of Poor.

Taxiway C

Taxiway C consists of 2 sections constructed of AC. The last construction year for Taxiway C was 1943. The average area-weighted PCI for Taxiway C is 13 representing a Serious condition rating. The pavement distresses observed were related to Climate, Load, and Other distress classifications. Distresses observed in Taxiway Charlie consist of Alligator Cracking, Block Cracking, Depression, Patching, Raveling, and Rutting.





Taxiway C is very old and appears to have exceeded its original design life. Taxiway C was frequently used for taxiing to Runway 23 and exhibited significant amounts of structural/load related distresses. Rutting and alligator cracking are both considered a major structural distress. A rut is a surface depression in the wheel path, and stems from a permanent deformation in any of the pavement layers or subgrade. Rutting is usually caused by consolidation or lateral movement of the materials due to traffic loads. Alligator cracking appears as a series of interconnecting cracks and is caused by fatigue failure of the asphalt concrete surface under repeated traffic loading.

Southeast Apron

Southeast Apron consists of 3 sections constructed of AC. The last construction years vary from 1943 to 2009. The average area-weighted PCI for Southeast Apron is 41 representing a Poor condition rating. The pavement distresses observed were related to Climate, Load, and Other distress classifications. Distresses observed in Southeast Apron consist of Alligator Cracking, Block Cracking, Depression, Longitudinal & Transverse Cracking, Patching, Raveling, and Weathering.

West Apron

West Apron consists of 3 sections constructed of AC. The last construction years vary from 1943 to 2005. The average area-weighted PCI for West Apron is 71 representing a Satisfactory condition rating. The pavement distresses observed were related to Climate, Load, and Other distress classifications. Distresses observed in West Apron consist of Alligator Cracking, Block Cracking, Depression, Longitudinal & Transverse Cracking, Patching, Raveling, Rutting, and Weathering.

Figure 4.2.2 Pavement Condition Summary by Facility Use

Facility Use	Average Area-Weighted PCI	Condition Rating
Runway	77	Satisfactory
Taxiway	68	Fair
Apron	65	Fair





4.3 Forecasted Pavement Conditions

4.3.1 Performance Models and Prediction Curves

Pavement Performance Models are developed from the distress data and historic construction records collected for the SAPMP. This data is consolidated in a database and organized by inspection/construction date, pavement type, age, and pavement use. The pavement Performance Models are used to develop broad Prediction Curves, alternatively known as deterioration curves or family curves. These Prediction Curves are utilized to developed forecasted PCI values based on historic trends and statistical models.

4.3.2 Branch-Level Pavement Condition Forecast

The following Figures 4.3.2 (a) through (c) depict the branch-level pavement condition forecast by Branch Use (Runway, Taxiway, and/or Apron). The forecasted conditions are for a 10-year duration starting in January 2018 through January 2027.

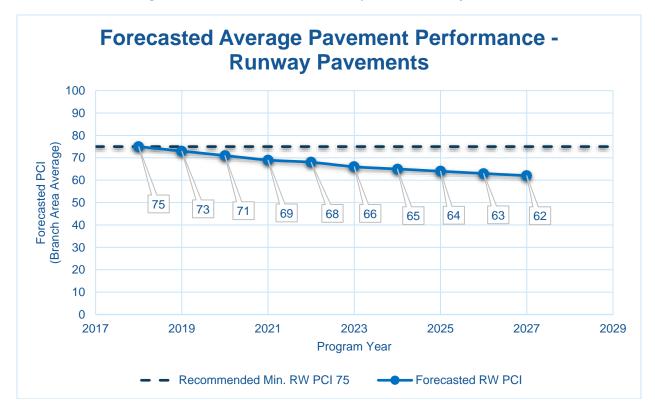


Figure 4.3.2 (a) Forecasted Runway Pavement Performance





Figure 4.3.2 (b) Forecasted Taxiway Pavement Performance

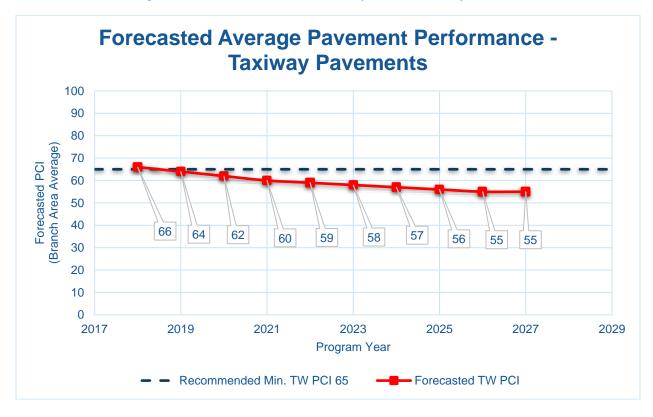
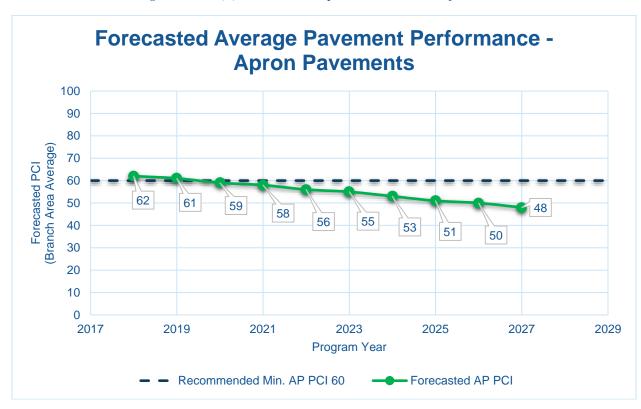


Figure 4.3.2 (c) Forecasted Apron Pavement Performance







4.3.3 Section-Level Pavement Condition Forecast

The following **Table 4.3.3** provides detail to the forecasted PCI values for each section inspected. Please note the forecasted Branch- and Section-Level PCI's are for planning purposes and are subject to the sensitivities in changes in traffic and maintenance frequency. Airport staff should perform annual visual condition assessments to maintain recent understanding of pavement conditions.





Table 4.3.3 Forecasted PCI 2018-2027

Naturalis ID	Drawah ID	Continu ID	Last DCI	Forecasted PCI									
Network ID	Branch ID Section ID	Section ID	Lastroi	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
X26	AP RU E	5510	81	78	77	75	74	72	71	69	67	66	64
X26	AP RU SW	5405	85	82	81	79	78	76	75	73	71	70	68
X26	AP SE	5605	27	24	23	21	20	18	17	15	13	12	10
X26	AP SE	5610	87	84	83	81	80	78	77	75	73	72	70
X26	AP SE	5615	87	84	83	81	80	78	77	75	73	72	70
X26	AP TERM	5705	89	86	85	83	82	80	79	77	75	74	72
X26	AP TERM	5710	92	88	85	82	80	77	75	73	71	69	67
X26	AP T-HANG	5305	78	75	74	72	71	69	68	66	64	63	61
X26	AP W	5105	84	81	80	78	77	75	74	72	70	69	67
X26	AP W	5115	15	12	11	9	8	6	5	3	1	0	0
X26	AP W	5120	81	78	77	75	74	72	71	69	67	66	64
X26	RW 10-28	6305	80	77	76	74	73	71	69	68	66	64	63
X26	RW 10-28	6310	80	77	76	74	73	71	69	68	66	64	63
X26	RW 10-28	6315	87	84	83	81	80	78	76	75	73	71	70
X26	RW 10-28	6320	82	79	78	76	75	73	71	70	68	66	65
X26	RW 5-23	6205	75	72	69	67	66	64	63	62	61	61	60
X26	TW A	405	81	78	76	75	74	73	72	71	70	69	68
X26	TW A	415	81	78	76	74	73	71	70	69	68	67	66
X26	TW A	420	83	80	78	76	74	72	71	70	69	68	67
X26	TW A	425	54	52	50	48	47	45	44	42	40	39	37
X26	TW B	610	77	74	73	71	70	69	68	67	66	65	64
X26	TW C	305	13	9	6	4	1	0	0	0	0	0	0
X26	TW C	306	16	12	9	7	4	1	0	0	0	0	0
X26	TW CONN	515	75	72	71	70	69	68	67	66	65	64	63
X26	TW E	700	91	87	85	82	80	78	76	74	73	71	70





4.3.4 Forecasted PCI Considerations

As FDOT continues to update the SAPMP with future PCI Survey inspections and assembly of airfield pavement construction work history, the performance models will be further refined. With the refinement of additional PCI and work history data points, the forecasting of pavement conditions will continue to better reflect the performance trends of airfield pavements in the Florida Airports System. Forecasted or predicted pavement conditions for the airport are intended for planning purposes only. Design-level recommendations for pavement rehabilitation and/or reconstruction will require the appropriate application of the procedures defined in FAA AC 150/5320-6F Airport Pavement Design and Evaluation and AC 150/5370-11B Use of Nondestructive Testing in the Evaluation of Airport Pavements to determine structural and/or functional conditions at the time of project.









Chapter 5 - Localized Maintenance and **Repair Planning**

General Maintenance and Rehabilitation (M&R) methods are characterized under three broad categories: localized maintenance and repair, global treatments, and major rehabilitation.

- Localized Maintenance and Repair includes patching and crack sealing.
- Global Treatments includes surface seals and rejuvenators (flexible pavements).
- > Major Rehabilitation includes overlays, significant slab replacement, and reconstruction.

This chapter discusses the FDOT SAPMP Localized Maintenance and Repair Planning approach. Proactive localized maintenance and repair, specifically preservation, is highly recommended to the airports. However, it is certainly recognized that once pavements have deteriorated below a certain condition, the facility would benefit from a more substantial rehabilitation in lieu of localized efforts. Chapter 6 Major Rehabilitation Planning discusses the addressing of pavements through timely rehabilitation once it has deteriorated below a critical PCI where localized repairs may not be as cost effective.

5.1 Localized Maintenance and Repair

Localized maintenance and repair is best applied as a conservation measure and is oftentimes applied to slow the rate of deterioration of distress pavements; however, may be applied as a temporary corrective measure in isolated areas. Localized maintenance and repair can be applied either as a safety ("stopgap") measure or preventive measure. Example distress types subject to localized preventive maintenance and repair may consist of low-severity longitudinal and transverse cracking and low-severity weathering. In many cases however, localized stopgap repair is applied as a safety measure to address high-severity distress manifestations when major rehabilitation is not funded for a given section with a PCI value below critical PCI. Some agencies may elect to define both types; preventative and stopgap, as localized maintenance.

Localized Stopgap/Safety Maintenance and Repair

Localized Stopgap or Safety Maintenance and Repair is defined as the localized distress repair needed to keep pavements operational in a safe condition. These activities are typically applied to high-severity distresses or distresses affecting operational activities. Typical pavement section PCIs will range from 0 to 65.

Localized Preventive Maintenance and Repair

Localized Preventive Maintenance and Repair is defined as distress maintenance activities performed with the primary objective of slowing the rate of deterioration. These activities typically include crack sealing and patching. Typical pavement section PCIs will be above 65.





5.2 Localized Maintenance and Repair Policy

The resulting Localized Maintenance and Repair recommendations are identified based on the policy defined in Table 5.2.1 and Table 5.2.2, for flexible asphalt concrete and rigid Portland cement concrete pavements, respectively. The activities identified were based on the research of practical pavement treatments in consideration of the FAA AC 150/5380-6C "Guidelines and Procedures for Maintenance of Airport Pavements" and the FDOT Airfield Pavement Distress Repair Manual. Additionally, the Engineering Technical Letter (ETL) 14-3: Preventive Maintenance Plan (PMP) for Airfield Pavements was referenced for conservative application of pavement treatments. The Localized Maintenance and Repair Policy and associated planning-level unit costs were developed in consideration of a network-level analysis – it is strictly intended to provide a glimpse of the condition of the airport pavements with a limited PCI survey effort.

The developed Localized Maintenance and Repair Policy and associated planning-level unit costs were based on a statewide consideration of pavement treatments and review of state construction costs for both Airfield Pavements and from the FDOT Historical Cost Information archives. Furthermore, a consideration of limited repair quantities was factored in the determination of conservative planning-level unit costs. The identified Localized maintenance activities for both preventive and stopgap activities are based on a statewide network approach; project-specific evaluation and maintenance quantities should be developed prior to any construction.

Table 5.2-1 Localized Maintenance and Repair - Flexible Asphalt Concrete

Distress	Severity	Description	Code	Work Type	Work Unit
41	Low	ALLIGATOR CR	FDOT-PA-AF	FDOT - PATCHING - AC FULL DEPTH	SqFt
41	Medium	ALLIGATOR CR	FDOT-PA-AF	FDOT - PATCHING - AC FULL DEPTH	SqFt
41	High	ALLIGATOR CR	FDOT-PA-AF	FDOT - PATCHING - AC FULL DEPTH	SqFt
42	N/A	BLEEDING	FDOT-MO-PV	FDOT - MONITOR	N/A
43	Low	BLOCK CR	FDOT-MO-PV	FDOT - MONITOR	N/A
43	Medium	BLOCK CR	FDOT-CS-AC	FDOT - CRACK SEALING - AC	Ft
43	High	BLOCK CR	FDOT-PA-AP	FDOT - PATCHING - AC PARTIAL DEPTH	SqFt
44	Low	CORRUGATION	FDOT-ML-AC	FDOT - MILLING - AC	SqFt
44	Medium	CORRUGATION	FDOT-ML-AC	FDOT - MILLING - AC	SqFt
44	High	CORRUGATION	FDOT-PA-AF	FDOT - PATCHING - AC FULL DEPTH	SqFt
45	Low	DEPRESSION	FDOT-PA-AF	FDOT - PATCHING - AC FULL DEPTH	SqFt
45	Medium	DEPRESSION	FDOT-PA-AF	FDOT - PATCHING - AC FULL DEPTH	SqFt
45	High	DEPRESSION	FDOT-PA-AF	FDOT - PATCHING - AC FULL DEPTH	SqFt
46	High	JET BLAST	FDOT-PA-AP	FDOT - PATCHING - AC PARTIAL DEPTH	SqFt
46	N/A	JET BLAST	FDOT-PA-AP	FDOT - PATCHING - AC PARTIAL DEPTH	SqFt
47	Low	JT REF. CR	FDOT-MO-PV	FDOT - MONITOR	N/A
47	Medium	JT REF. CR	FDOT-CS-AC	FDOT - CRACK SEALING - AC	Ft
47	High	JT REF. CR	FDOT-CS-AC	FDOT - CRACK SEALING - AC	Ft





Distress	Severity	Description	Code	Work Type	Work Unit
48	Low	L&TCR	FDOT-MO-PV	FDOT - MONITOR	N/A
48	Medium	L&TCR	FDOT-CS-AC	FDOT - CRACK SEALING - AC	Ft
48	High	L&TCR	FDOT-CS-AC	FDOT - CRACK SEALING - AC	Ft
49	N/A	OIL SPILLAGE	FDOT-PA-AP	FDOT - PATCHING - AC PARTIAL DEPTH	SqFt
50	Low	PATCHING	FDOT-MO-PV	FDOT - MONITOR	N/A
50	Medium	PATCHING	FDOT-PA-AF	FDOT - PATCHING - AC FULL DEPTH	SqFt
50	High	PATCHING	FDOT-PA-AF	FDOT - PATCHING - AC FULL DEPTH	SqFt
51	N/A	POLISHED AG	FDOT-SS-LO	FDOT - SURFACE SEAL	SqFt
52	Low	RAVELING	FDOT-SS-LO	FDOT - SURFACE SEAL	SqFt
52	Medium	RAVELING	FDOT-PA-AP	FDOT - PATCHING - AC PARTIAL DEPTH	SqFt
52	High	RAVELING	FDOT-PA-AP	FDOT - PATCHING - AC PARTIAL DEPTH	SqFt
53	Low	RUTTING	FDOT-MO-PV	FDOT - MONITOR	N/A
53	Medium	RUTTING	FDOT-PA-AF	FDOT - PATCHING - AC FULL DEPTH	SqFt
53	High	RUTTING	FDOT-PA-AF	FDOT - PATCHING - AC FULL DEPTH	SqFt
54	Low	SHOVING	FDOT-MO-PV	FDOT - MONITOR	N/A
54	Medium	SHOVING	FDOT-ML-AC	FDOT - MILLING - AC	SqFt
54	High	SHOVING	FDOT-PA-AF	FDOT - PATCHING - AC FULL DEPTH	SqFt
55	N/A	SLIPPAGE CR	FDOT-PA-AP	FDOT - PATCHING - AC PARTIAL DEPTH	SqFt
56	Low	SWELLING	FDOT-MO-PV	FDOT - MONITOR	N/A
56	Medium	SWELLING	FDOT-PA-AF	FDOT - PATCHING - AC FULL DEPTH	SqFt
56	High	SWELLING	FDOT-PA-AF	FDOT - PATCHING - AC FULL DEPTH	SqFt
57	Low	WEATHERING	FDOT-MO-PV	FDOT - MONITOR	N/A
57	Medium	WEATHERING	FDOT-SS-LO	FDOT - SURFACE SEAL	SqFt
57	High	WEATHERING	FDOT-PA-AP	FDOT - PATCHING - AC PARTIAL DEPTH	SqFt

Table 5.2-2 Localized Maintenance and Repair - Rigid Portland Cement Concrete

Distress	Severity	Description	Code	Work Type	Work Unit
61	Low	BLOW-UP	FDOT-PA-PP	FDOT - PATCHING - PCC PARTIAL DEPTH	SqFt
61	Medium	BLOW-UP	FDOT-PA-PF	FDOT - PATCHING - PCC FULL DEPTH	SqFt
61	High	BLOW-UP	FDOT-SL-PC	FDOT - SLAB REPLACEMENT - PCC	SqFt
62	Low	CORNER BREAK	FDOT-CS-PC	FDOT - CRACK SEALING - PCC	Ft
62	Medium	CORNER BREAK	FDOT-PA-PF	FDOT - PATCHING - PCC FULL DEPTH	SqFt
62	High	CORNER BREAK	FDOT-PA-PF	FDOT - PATCHING - PCC FULL DEPTH	SqFt
63	Low	LINEAR CR	FDOT-MO-PV	FDOT - MONITOR	N/A
63	Medium	LINEAR CR	FDOT-CS-PC	FDOT - CRACK SEALING - PCC	Ft
63	High	LINEAR CR	FDOT-PA-PP	FDOT - PATCHING - PCC PARTIAL DEPTH	SqFt





Distress	Severity	Description	Code	Work Type	Work Unit
64	Low	DURABIL. CR	FDOT-MO-PV	FDOT - MONITOR	N/A
64	Medium	DURABIL. CR	FDOT-PA-PF	FDOT - PATCHING - PCC FULL DEPTH	SqFt
64	High	DURABIL. CR	FDOT-SL-PC	FDOT - SLAB REPLACEMENT - PCC	SqFt
65	Low	JT SEAL DMG	FDOT-JS-PC	FDOT - JOINT SEAL - PCC	Ft
65	Medium	JT SEAL DMG	FDOT-JS-PC	FDOT - JOINT SEAL - PCC	Ft
65	High	JT SEAL DMG	FDOT-JS-PC	FDOT - JOINT SEAL - PCC	Ft
66	Low	SMALL PATCH	FDOT-MO-PV	FDOT - MONITOR	N/A
66	Medium	SMALL PATCH	FDOT-PA-PP	FDOT - PATCHING - PCC PARTIAL DEPTH	SqFt
66	High	SMALL PATCH	FDOT-PA-PP	FDOT - PATCHING - PCC PARTIAL DEPTH	SqFt
67	Low	LARGE PATCH	FDOT-MO-PV	FDOT - MONITOR	N/A
67	Medium	LARGE PATCH	FDOT-PA-PF	FDOT - PATCHING - PCC FULL DEPTH	SqFt
67	High	LARGE PATCH	FDOT-PA-PF	FDOT - PATCHING - PCC FULL DEPTH	SqFt
68	N/A	POPOUTS	FDOT-PO-FL	FDOT - POPOUT FILLER	SqFt
69	N/A	PUMPING	FDOT-SB-PC	FDOT – SLAB STABILIZATION - PCC	SqFt
70	Low	SCALING	FDOT-MO-PV	FDOT - MONITOR	N/A
70	Medium	SCALING	FDOT-PA-PP	FDOT - PATCHING - PCC PARTIAL DEPTH	SqFt
70	High	SCALING	FDOT-SL-PC	FDOT - SLAB REPLACEMENT - PCC	SqFt
71	Low	FAULTING	FDOT-MO-PV	FDOT - MONITOR	N/A
71	Medium	FAULTING	FDOT-GR-PP	FDOT - GRINDING (LOCALIZED)	Ft
71	High	FAULTING	FDOT-GR-PP	FDOT - GRINDING (LOCALIZED)	Ft
72	Low	SHAT. SLAB	FDOT-CS-PC	FDOT - CRACK SEALING - PCC	Ft
72	Medium	SHAT. SLAB	FDOT-SL-PC	FDOT - SLAB REPLACEMENT - PCC	SqFt
72	High	SHAT. SLAB	FDOT-SL-PC	FDOT - SLAB REPLACEMENT - PCC	SqFt
73	N/A	SHRINKAGE CR	FDOT-MO-PV	FDOT - MONITOR	N/A
74	Low	JOINT SPALL	FDOT-CS-PC	FDOT - CRACK SEALING - PCC	Ft
74	Medium	JOINT SPALL	FDOT-PA-PP	FDOT - PATCHING - PCC PARTIAL DEPTH	SqFt
74	High	JOINT SPALL	FDOT-PA-PP	FDOT - PATCHING - PCC PARTIAL DEPTH	SqFt
75	Low	CORNER SPALL	FDOT-CS-PC	FDOT - CRACK SEALING - PCC	Ft
75	Medium	CORNER SPALL	FDOT-PA-PP	FDOT - PATCHING - PCC PARTIAL DEPTH	SqFt
75	High	CORNER SPALL	FDOT-PA-PP	FDOT - PATCHING - PCC PARTIAL DEPTH	SqFt
76	Low	ASR	FDOT-MO-PV	FDOT - MONITOR	N/A
76	Medium	ASR	FDOT-PA-PF	FDOT - PATCHING - PCC FULL DEPTH	SqFt
76	High	ASR	FDOT-SL-PC	FDOT - SLAB REPLACEMENT - PCC	SqFt





Table 5.2-3 (a) Localized Repair Planning-Level Unit Costs - Flexible Asphalt Concrete

Code	Name	Cost	Units
FDOT-SS-LO	FDOT - SURFACE SEAL	\$0.55	SqFt
FDOT-ML-AC	FDOT - MILLING - AC	\$2.00	SqFt
FDOT-GR-PP	FDOT - GRINDING (LOCALIZED)	\$2.00	Ft
FDOT-CS-AC	FDOT - CRACK SEALING - AC	\$3.00	Ft
FDOT-MO-PV	FDOT - MONITOR	\$0.00	SqFt
FDOT-PA-AF	FDOT - PATCHING - AC FULL DEPTH	\$6.00	SqFt
FDOT-PA-AP	FDOT - PATCHING - AC PARTIAL DEPTH	\$3.00	SqFt

Table 5.2-3 (b) Localized M&R Planning-Level Unit Costs - Rigid Portland Cement Concrete

Code	Name	Cost	Units
FDOT-PA-PF	FDOT - PATCHING - PCC FULL DEPTH	\$100.00	SqFt
FDOT-SL-PC	FDOT - SLAB REPLACEMENT - PCC	\$30.00	SqFt
FDOT-SB-PC	FDOT - SLAB STABILIZATION - PCC	\$30.00	SqFt
FDOT-PA-PP	FDOT - PATCHING - PCC PARTIAL DEPTH	\$72.00	SqFt
FDOT-PO-FL	FDOT - POPOUT FILLER	\$0.05	SqFt
FDOT-GR-PP	FDOT - GRINDING (LOCALIZED)	\$2.00	Ft
FDOT-CS-PC	FDOT - CRACK SEALING - PCC	\$4.25	Ft
FDOT-MO-PV	FDOT - MONITOR	\$0.00	N/A
FDOT-JS-PC	FDOT - JOINT SEAL - PCC	\$2.75	Ft

^{*}PCC Patching (Full Depth and Partial Depth) consider high-early-strength and high-performing repair material.





5.3 Localized Maintenance and Repair Analysis and Recommendations

The SAPMP provides a planning-level estimation of Localized Maintenance and Repair based on the results of the latest PCI Survey Inspection performed at the airport. Based on the limited sample units inspected, a statistical extrapolation of distresses at the section level is used to estimate the quantities of recommended repair activities based on the policies defined in 5.2 Localized M&R Policy. The PCI Survey Inspections did not consist of 100% inspection of all sample units; therefore, the section-level distress quantities used to estimate the Localized Maintenance and Repair needs are for conceptual planning purposes. The accuracy of the extrapolated distresses, and therefore work quantities, is subject to the amount of sample units inspected and the concentration of distress types observed in sample units. Appendix B provides the estimated Localized Maintenance and Repair based on this SAPMP's PCI Survey Inspection efforts. Localized Preventive Maintenance and Repair is typically applied to pavements that are in a condition at or above the Critical PCI of 65. Localized Stopgap Maintenance and Repair is typically applied to pavements that are below the Critical PCI of 65. It is recommended that airport staff evaluate the application of Localized Maintenance and Repair in concert with the planning of Major Rehabilitation efforts identified in Chapter 6 Major Rehabilitation Planning. Pavements with Stopgap recommendations that are subject to nearterm Major Rehabilitation efforts may remove the need to perform localized maintenance efforts.

The following Table 5.3-1 summarizes the anticipated Localized Maintenance and Repair efforts based on the PCI Survey Inspection efforts performed at this airport as part of this SAPMP System Update. The following table depicts planning-level costs rounded to the nearest ten dollars.

Table 5.3-1 Summary of Airport Localized M&R Planning Cost and Quantity at Network Level

Work Description	Work Category	Rough Estimate of Work Quantity	Work Units	Pla	anning Material Cost
FDOT - PATCHING - AC FULL DEPTH	PREVENTIVE	1,470	SqFt	\$	8,800.00
FDOT - SURFACE SEAL	PREVENTIVE	22,280	SqFt	\$	12,260.00
FDOT - JOINT SEAL - PCC	PREVENTIVE	530	Ft	\$	1,460.00
FDOT - PATCHING - AC FULL DEPTH	STOPGAP	43,175	SqFt	\$	259,030.00
FDOT - SURFACE SEAL	STOPGAP	183,435	SqFt	\$	100,890.00
FDOT - CRACK SEALING - AC	STOPGAP	21,945	Ft	\$	65,830.00
FDOT - PATCHING - AC PARTIAL DEPTH	STOPGAP	5,135	SqFt	\$	15,400.00





The following Table 5.3-2 provides further breakdown of the anticipated planning-level cost at the section level for the pavements exhibiting distresses that would benefit from Localized M&R. The table shows the approximate improved "End Condition" of the section after the application of Localized M&R. The following table depicts planning-level costs rounded to the nearest ten dollars.

Table 5.3-2 Summary of Airport Localized M&R Planning Cost and Quantity at Section Level

Network ID	Branch ID	Section ID	Area (SF)	Start Condition	End Condition	Cost
X26	AP RU E	5510	13,002	81	81	\$ -
X26	AP RU SW	5405	19,824	85	85	\$ -
X26	AP SE	5605	100,723	27	61	\$ 160,520.00
X26	AP SE	5610	21,960	87	90	\$ 2,000.00
X26	AP SE	5615	10,290	87	87	\$ 420.00
X26	AP TERM	5705	32,590	89	87	\$ 310.00
X26	AP TERM	5710	3,600	92	99	\$ 1,460.00
X26	AP T-HANG	5305	28,960	78	79	\$ 2,560.00
X26	AP W	5105	133,925	84	87	\$ 3,430.00
X26	AP W	5115	31,900	15	56	\$ 70,340.00
X26	AP W	5120	20,635	81	85	\$ 970.00
X26	RW 10-28	6305	134,512	80	83	\$ 1,630.00
X26	RW 10-28	6310	44,362	80	83	\$ 330.00
X26	RW 10-28	6315	45,750	87	89	\$ 340.00
X26	RW 10-28	6320	15,376	82	82	\$ 430.00
X26	RW 5-23	6205	295,188	75	79	\$ 5,010.00
X26	TW A	405	57,743	81	81	\$ -
X26	TW A	415	16,504	81	81	\$ -
X26	TW A	420	60,300	83	83	\$ -
X26	TW A	425	7,067	54	65	\$ 6,880.00
X26	TW B	610	119,314	77	80	\$ 1,290.00
X26	TW C	305	51,193	13	50	\$ 170,190.00
X26	TW C	306	11,251	16	63	\$ 33,320.00
X26	TW CONN	515	23,637	75	80	\$ 2,410.00
X26	TW E	700	29,416	91	91	\$ -





The following Table 5.3-3 provides a summary of the anticipated planning-level costs for Localized Preventive Maintenance and Repair and Localized Stopgap Maintenance and Repair. The following table depicts planning-level costs rounded to the nearest ten dollars.

Table 5.3-3 Summary of Localized Maintenance

Work Category	Cost
Preventive	\$ 22,520.00
Stopgap	\$ 441,150.00
Planning-Level Localized M&R Needs =	\$ 463,670.00









Chapter 6 – Major Rehabilitation **Planning**

6.1 Major Rehabilitation

Major rehabilitation is recommended to correct or improve structural deficiencies and/or functional deterioration for pavement sections within a network. Often, when pavements are subject to significant changes in the aircraft fleet mix (frequency and type), major rehabilitation is required to provide a pavement section to meet the traffic demand. Major rehabilitation is recommended when a pavement section falls below the Critical PCI value that is defined during the system customization or if a pavement section has a significant observation of load-related distress. Observation of any load-related distress potentially indicates that the section may be structurally deficient or that the aircraft loads being applied to the pavement section are different than what the section was designed for. Figures 6.1-1 and 6.1-2 depict the decision process for major rehabilitation project identification with the assumption of available funds. Should funding be unavailable for pavement sections in need of major rehabilitation, the airport may elect to apply the appropriate localized stopgap repair.

Figure 6.1-1 Major Rehabilitation Planning Decision Diagram, PCI ≤ Critical PCI

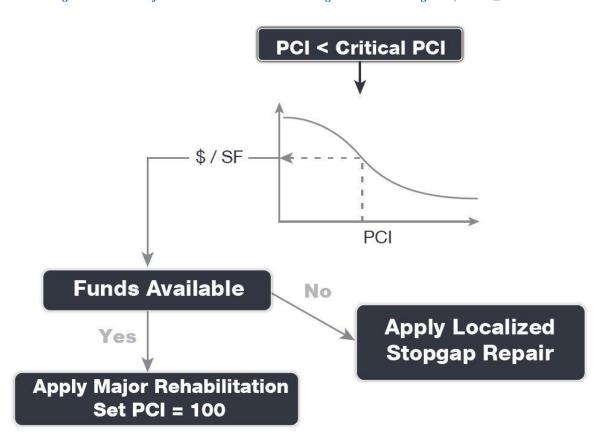
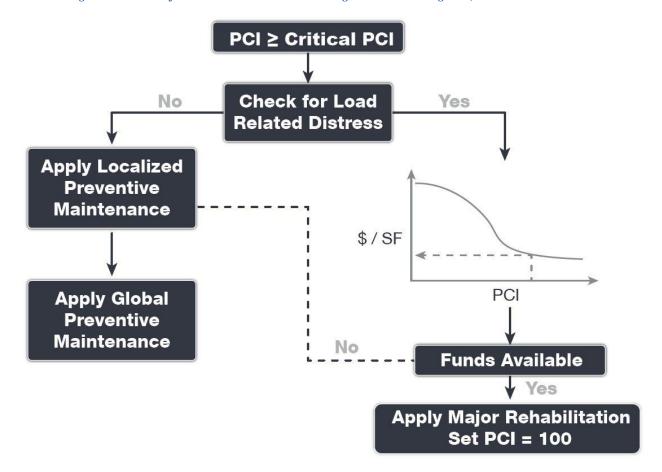






Figure 6.1-2 Major Rehabilitation Planning Decision Diagram, PCI > Critical PCI







6.1.1 Critical PCI

For the FDOT SAPMP the development of a major rehabilitation program is based on the Critical PCI concept. The Critical PCI concept assumes that it is more cost-effective to maintain pavements above, rather than below their critical PCI. It is assumed that once a pavement section deteriorates to the Critical PCI value that it is more cost-effective to complete a major rehabilitation project rather than continuing to apply preventive maintenance. This method includes defining the Critical PCI and introducing major rehabilitation work types.

Identification of annual and long-range Major Rehabilitation work plans are typically based on the Critical PCI concept. The Critical PCI is defined as the PCI value at which the rate of loss (deterioration) increases with time, or the cost of applying localized maintenance and repair increases or is not effective. A Critical PCI is usually within a range of 55 and 70; the following procedure is standard approach in developing a specific Critical PCI:

- 1. Develop a pavement performance model and refine a prediction model for the pavements considered.
- 2. Select a localized maintenance and repair policy to be used in developing a work
- 3. Apply the selected localized policy to the pavement sections for a range of PCI.
- 4. Compute the unit cost per area for each PCI range.
- 5. Plot the cost versus the PCI.
- 6. Determine the Critical PCI based on the point where the cost is insignificant.

The FDOT SAPMP defines the Critical PCI at 65 – this is based on the historic trends in pavement performance and Statewide planning efforts.

6.1.2 FDOT Recommended Minimum Service-Level PCI

The FDOT has recommended *Minimum Service-Level PCI* for airports' airfield pavements based on the following characteristics; airport type within FDOT SAPMP, branch use, and expected aircraft operations. For the purposes of Major Rehabilitation, the Critical PCI is typically the threshold condition that triggers major construction, however it is recommended that the airports maintain the Minimum Service-Level PCI with a combination of Localized Maintenance and Repair and timely Major Rehabilitation. Table 6.1.2 summarizes the FDOT Recommended Minimum Service-Level PCI.

Table 6.1.2 FDOT Recommended Minimum Service-Level PCI

Branch Use	FDOT Recommended PCI	Additional Consideration
Runway	75	Aircraft Fleet Mix Changes Primary Runway
Taxiway / Taxilane	65	Aircraft Fleet Mix Changes Expected Operations
Aprons / Run-Ups / Ramps	60	Ground Service Equipment Non-Aircraft Operations (e.g. fueling)





6.2 Major Rehabilitation Policy

6.2.1 Major Rehabilitation Pavement Section Development

The review of the existing as-built record documentation within the participating airports' archives was used as the basis of the conceptual pavement design sections. Refinement of the pavement section layers was performed in consideration of the FAA AC 150/5320-6F "Airport Pavement Design and Evaluation." It should be noted that no subsurface geotechnical investigation, ALTA/ACSM Survey, topographic survey, utilities survey, environmental, or site specific air traffic study(s) have been utilized in the development of the design criteria. No warranty or assurance is implied in this document for final design nor construction for any airfield pavements discussed within this report. The following Tables 6.2.1 (a) and (b) provide details on the conceptual pavement sections developed for this study.

Major rehabilitation is divided into two policy categories as part of this program: Full-Depth Reconstruction (Reconstruction) and Intermediate-Level Major Rehabilitation (Restoration). Based on the pavement type, the general categories are defined as AC Reconstruction and AC Restoration for AC, AAC, and APC flexible pavement types and PCC Reconstruction and PCC Restoration for PCC rigid pavement types. The pavement sections have been based on the average GA Airport Type requirements; no pavement design has been performed in accordance with AC 150/5320-6F for the determined conceptual sections.

Table 6.2.1 (a) Conceptual Pavement Section for Major Rehabilitation - Flexible Asphalt Concrete

Rehabilitation Type	General Aviation (GA) Airport
AC Restoration	75% Mill and Overlay P-101 AC Milling (2")
Combination of asphalt pavement milling and overlay with 25% of the areas subject to full-depth reconstruction.	P-603 Bituminous Tack P-401 (HMA) (2")
PCI = 41 to 65	25% AC Reconstruction P-101 Pavement Removal P-152 Subgrade (12") P-211 Base (6") P-602 Bituminous Prime P-603 Bituminous Tack P-401 HMA (2") Excludes any paved shoulder features.
AC Reconstruction	P-101 Pavement Removal P-152 Subgrade (12")
Full-depth asphalt pavement section reconstruction.	P-211 Base (6") P-602 Bituminous Prime P-603 Bituminous Tack P-401 HMA (2")
PCI = 40 or less	Excludes any paved shoulder features.





Table 6.2.1 (b) Conceptual Pavement Section for Major Rehabilitation - Rigid Portland Cement Concrete

Rehabilitation Type	General Aviation (GA) Airport
PCC Restoration Restoration of PCC pavement with a combination of crack sealing, joint seal replacement, and replacement of 25% of slab panels. PCI = 41 to 65	P-101 Pavement Removal P-605 Joint Seal Repair P-152 Subgrade (6") P-211 Base (if needed, typical) (6") P-501 Rigid PCC (10") *Select Slabs (25%) **Crack Seal and Limited Patching
PCC Reconstruction Full-depth rigid pavement section reconstruction. PCI = 40 or less	P-101 Pavement Removal P-605 Joint Seal Repair P-152 Subgrade (6") P-211 Base (6") P-501 Rigid PCC (10")

The identification of rehabilitation needs and conceptual pavement sections have been determined at the planning level. Design-level investigation is recommended prior to developing construction-level design documents and budgets.

In compliance with FAA Grant Assurances 11 and 19, the FDOT SAPMP provides airports with airfield pavement evaluation reports in accordance with FAA AC 150/5380-7B Airport Pavement Management Program (PMP) and AC 150/5380-6C Guidelines and Procedures for Maintenance of Airport Pavements. The application of the results of a PCI survey are for planning purposes and are limited to the visual observation of deteriorated pavements in limited sampling; design-level investigation is recommended in accordance with the FAA procedures defined in AC 5320-6F Airport Pavement Design and Evaluation and AC 150/5370-11B Use of Nondestructive Testing in the Evaluation of Airport Pavements. The aforementioned ACs provide the design-level material properties of in-situ pavement and subgrade layers for the determination of appropriate rehabilitation actions. The FDOT SAPMP is organized to provide airports with planning-level data and does not intend to preclude the responsible engineer in performing the appropriate level of investigation and analysis in determining the appropriate design details of a pavement rehabilitation. It would not be advisable to solely base design-level rehabilitation without the appropriate level of investigation and determination of pavement deterioration beyond that of a visual functional condition assessment.

6.2.2 Major Rehabilitation Planning-Level Unit Costs

Planning-level opinion of probable construction unit costs developed for this System Update was based on archived bid tabulations and records from airfield pavement projects provided by participating airports. A review of cost trends and cost factors have been incorporated to assist airports in planning for project budgets. Neither FDOT nor the Consultant Team has control over the cost of labor, materials, equipment, or over the Contractor's methods of determining prices or over competitive bidding or market conditions. Opinions of probable construction costs

Evaluation Report





provided herein are based on the information known to FDOT at this time and represent only the Consultant Team's judgment as a design professional familiar with the construction industry. This report cannot and does not guarantee that proposals, bids, or actual construction costs will not vary from its opinions of probable construction costs.

Table 6.2.2 General Aviation Major Rehabilitation Planning-Level Unit Cost by Pavement Type

Rehabilitation Type	PCI Range	e Asphalt Cost Per SF	 tland Cement Cost per SF
Restoration	41 to 65	\$ 7.00	\$ 10.00
Reconstruction	0 to 40	\$ 9.00	\$ 15.00

Planning-level opinion of probable construction unit costs consider factors for non-pavement improvements, QA/QC testing, and administrative costs.

6.3 Major Rehabilitation Needs

The objective of the major pavement rehabilitation needs analysis is to provide planning-level projects within an airport's airfield pavement network. Major rehabilitation activities are recommended when a pavement section has deteriorated below the Critical PCI value, a point at which localized maintenance and repair activities may not be the most cost-effective solution. In addition, major rehabilitation is also recommended when the Section PCI is at or above the Critical PCI but the section has significant load-related PCI distresses. Identification of rehabilitation needs is done at the Airfield Pavement Network Definition's section level. This however does not limit the airport from further refining limits of project planning areas.

Major rehabilitation is identified within the FDOT SAPMP as major construction activity that would result in an improvement or resetting of the pavement section's PCI to a value of 100. Major rehabilitation recommendations (AC Restoration, AC Reconstruction, PCC Restoration, and PCC Reconstruction) should be considered as planning-level only. Additional design-level investigation in accordance to the FAA Advisory Circulars will be required. Recommendations identified within this planning document do not imply final design.

6.3.1 10-Year Unconstrained Budget Major Rehabilitation Needs

An unconstrained budget (unlimited budget) is performed for a 10-year duration to identify pavement rehabilitation needs based on current or forecasted PCI values deteriorating below the Critical PCI. FDOT recognizes airports are constrained by budgets and does not intend to convey an unrealistic approach of addressing pavement rehabilitation. The intent of the 10-Year Major Rehabilitation Needs analysis is to identify pavements that will warrant rehabilitation. It is highly recommended that airport staff utilize this information in support of the development of a practical Capital Improvement Program based on priorities, further design/project-level investigation, and budgetary constraints. The following Table 6.3.1 summarizes all identified section-level major rehabilitation needs forecasted for the next 10-year period. It should be noted that the following table depicts planning-level costs and have been rounded for planning purposes.





Table 6.3.1 10-Year Major Rehabilitation Needs

Program Year	Network ID	Branch ID	Section ID	Surface	Area (SF)	PCI Before	Rehabilitation Type	Planning Cost
2018	X26	AP SE	5605	AC	100,723	24	AC Reconstruction	\$ 907,000.00
2018	X26	AP W	5115	AC	31,900	12	AC Reconstruction	\$ 288,000.00
2018	X26	TW A	425	AC	7,067	52	AC Restoration	\$ 50,000.00
2018	X26	TW C	305	AC	51,193	9	AC Reconstruction	\$ 461,000.00
2018	X26	TW C	306	AC	11,251	12	AC Reconstruction	\$ 102,000.00
2022	X26	RW 5-23	6205	AAC	295,188	64	AC Restoration	\$ 2,067,000.00
2025	X26	AP T-HANG	5305	AC	28,960	64	AC Restoration	\$ 203,000.00
2026	X26	RW 10-28	6305	AC	134,512	64	AC Restoration	\$ 942,000.00
2026	X26	RW 10-28	6310	AC	44,362	64	AC Restoration	\$ 311,000.00
2026	X26	TW CONN	515	AC	23,637	64	AC Restoration	\$ 166,000.00
2027	X26	AP RU E	5510	AC	13,002	64	AC Restoration	\$ 92,000.00
2027	X26	AP W	5120	AC	20,635	64	AC Restoration	\$ 145,000.00
2027	X26	TW B	610	AC	119,314	64	AC Restoration	\$ 836,000.00

^{*}All values have been rounded to the nearest thousand-dollar.

The following Figure 6.3.1-1 summarizes the section-level major rehabilitation needs for a 10year period between 2018 and 2027. Figure 6.3.1-2 provides an inset view of Airfield Pavement Major Rehabilitation Exhibit, a large format exhibit is located in Appendix C Technical **Exhibits**. The exhibit graphically depicts the Major Rehabilitation Needs with rounded costs.





Figure 6.3.1-1 10-Year Major Rehabilitation Needs by Program Year

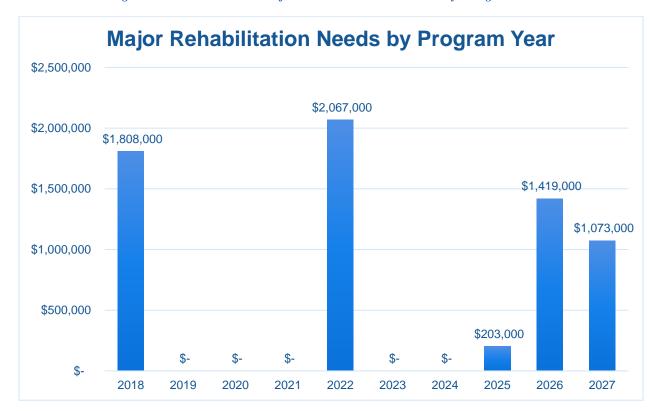
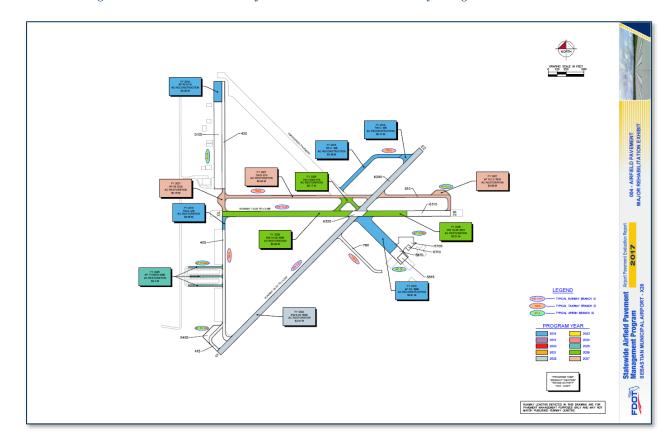






Figure 6.3.1-2 10-Year Major Rehabilitation Needs by Program Year Exhibit





Chapter 7





Chapter 7 – Conclusion

7.1 Recommendations

7.1.1 Continued PCI Survey Inspections

It is recommended that the airport continue to perform regularly scheduled PCI Survey inspections in accordance with the ASTM D5340-12 (or latest edition) to monitor the condition of the airfield pavement facilities.

A high priority should be considered for continuous maintenance record keeping and reinspection of all the airport's maintained pavement facilities to ensure continued safe aircraft operations. A series of scheduled periodic inspections must be carried out for an effective maintenance program. Re-inspection of pavements should be scheduled in a timely manner to ensure that all areas, particularly those that may not come under day-to-day observation, are thoroughly evaluated and reported.

7.1.2 Localized Maintenance and Repair

While deterioration of the pavements due to usage and exposure to the environment cannot be completely prevented, applying timely and effective maintenance efforts can slow the anticipated rate of deterioration. Lack of adequate and timely maintenance is the significant factor in pavement deterioration.

It is recommended that airport sponsors coordinate with their respective Airport Maintenance staff and Airport Engineer when developing project-level maintenance and repair efforts.

7.1.3 Major Rehabilitation

Chapter 6 – Major Rehabilitation Planning identified major pavement rehabilitation project needs from 2018-2027. The identification of the rehabilitation needs was performed at the section level for manageable project areas with the assumption of an unconstrained budget scenario. Given the uncertainty in the airport-specific budget information and prioritization goals, the unconstrained budget scenario was performed to evaluate the worst-case scenario and identify all the inspected pavements' needs in a 10-year period. Certainly, it is understood that most airports are faced with constrained budgets; further evaluation of projects based on prioritization, operational criticality, funding availability, and practicality is recommended.

7.1.4 Pavement Management System

The following recommendations are made to fully implement an effective pavement management program for the airport:

- Develop a detailed preventive maintenance program for the airport.
- Further refine and implement the identified 10-year major rehabilitation needs.
- Maintain detailed records on pavement maintenance, construction, and inspection.
- Maintain records on major pavement construction projects (year, scope, cost, and construction documents).





7.2 Supporting Documents

001 - Airfield Pavement Network Definition Exhibit

The Airfield Pavement Network Definition Exhibit is located in Appendix C Technical Exhibits. The exhibit depicts the airfield layout in a manner that defines the airfield pavement infrastructure as branches, sections, and sample units in accordance with the ASTM D5340-12. The exhibit is intended for planning purposes only – further detail on facilities can be found on the Airport's adopted Airport Layout Plan. Detailed characteristics are tabulated in Appendix A **Pavement Analysis Tables.**

002 - Airfield Pavement System Inventory Exhibit

The Airfield Pavement System Inventory Exhibit in is located in Appendix C Technical Exhibits. The exhibit depicts any recent and/or anticipated construction activity within the airfield pavement facilities reported by airport staff. The exhibit is intended to schematically identify the pavement limits of works and general work description. The information reported on the Airport Response Form provided by each participating airport was used as the basis of the changes; furthermore, changes are confirmed at the airport with airport staff during the in-brief and debrief meeting.

003 - Airfield Pavement Condition Index Exhibit

The Airfield Pavement Condition Index Exhibit is located in Appendix C Technical Exhibits. The exhibit is a visual summary of the latest conditions calculated from the results of the PCI Survey performed at the airport. The analysis of the distresses surveyed in accordance with the ASTM D5340-12 (referenced in Appendix E Inspection Distress Details) were analyzed using PAVER™ software to determine PCI values. The PCI values are identified in the exhibit and graphically represented using the standard ASTM D5340-12 colors for condition rating categories.

004 - Airfield Pavement Major Rehabilitation Exhibit

The Airfield Pavement Major Rehabilitation Exhibit is located in Appendix C Technical **Exhibits**. The exhibit has been prepared based on the section condition analysis, pavement condition forecasts, and major rehabilitation needs analysis. The exhibit graphically depicts the inventory with the associated rehabilitation type activity, program year, and the planning-level costs. The area limits, rehabilitation type, and planning-level costs should not be considered a design-level recommendation. A tabulation of the 10-Year Major Rehabilitation is located in Appendix B Airfield Pavement Localized Maintenance and Repair and Major Rehabilitation.

Inspection Photograph Documentation

Representative field conditions from the PCI Survey are documented with digital photographs located in Appendix D Inspection Photograph Documentation. Select photographs are provided with limited caption on the distresses observed – the Appendix does not contain photographs for every sample unit.





7.3 Conclusion

The FDOT SAPMP Update Phase 1 2016-2017 was completed for the airport on behalf of the FDOT ASO in accordance with the Advisory Circulars 150/5380-7B "Airport Pavement Management Program (PMP)" and 150/5380-6C "Guidelines and Procedures for Maintenance of Airport Pavements." FDOT's implementation of the SAPMP has assisted public airports with this requirement in performing PCI survey inspections and analysis in accordance with the ASTM D5340-12 "Standard Test Method for Airport Pavement Condition Index Surveys."



Appendix A

Airfield Pavement Analysis Tables

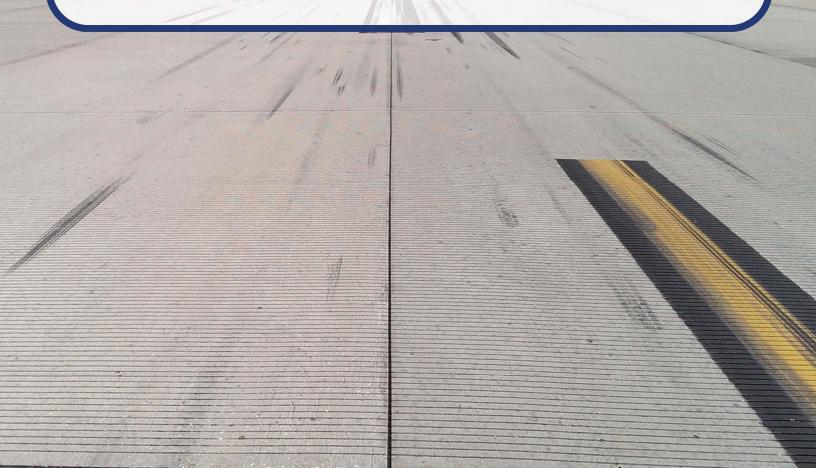






Table A-1 Pavement System Inventory Details

Network ID	Branch Name	Branch ID	Branch Use	Section ID	Length (FT)	Width (FT)	Area (SF)	Surface Type	Est. Last Construction Date
X26	E RUN UP APRON	AP RU E	APRON	5510	200	50	13,002	AC	1/1/2004
X26	SW RUN UP APRON	AP RU SW	APRON	5405	195	100	19,824	AC	1/1/2005
X26	SOUTHEAST APRON	AP SE	APRON	5605	700	150	100,723	AC	1/1/1943
X26	SOUTHEAST APRON	AP SE	APRON	5610	200	150	21,960	AC	1/1/2005
X26	SOUTHEAST APRON	AP SE	APRON	5615	105	100	10,290	AC	1/1/2009
X26	APRON TERMINAL	AP TERM	APRON	5705	200	100	32,590	AC	1/1/2005
X26	APRON TERMINAL	AP TERM	APRON	5710	60	60	3,600	PCC	1/1/2008
X26	T-HANGAR APRON AREA	AP T-HANG	APRON	5305	1000	20	28,960	AC	1/1/2003
X26	WEST APRON	AP W	APRON	5105	1200	100	133,925	AC	1/1/2005
X26	WEST APRON	AP W	APRON	5115	290	50	31,900	AC	1/1/1943
X26	WEST APRON	AP W	APRON	5120	400	50	20,635	AC	1/1/2004
X26	Runway 10-28	RW 10-28	RUNWAY	6305	1800	75	134,512	AC	1/1/2004
X26	Runway 10-28	RW 10-28	RUNWAY	6310	575	75	44,362	AC	1/1/2004
X26	Runway 10-28	RW 10-28	RUNWAY	6315	613	75	45,750	AC	1/1/2004
X26	Runway 10-28	RW 10-28	RUNWAY	6320	213	75	15,376	AC	1/1/2004
X26	RUNWAY 5-23	RW 5-23	RUNWAY	6205	2938	100	295,188	AAC	1/1/2003
X26	TAXIWAY ALPHA	TW A	TAXIWAY	405	1700	35	57,743	AAC	1/1/2005
X26	TAXIWAY ALPHA	TW A	TAXIWAY	415	410	40	16,504	AC	1/1/2005
X26	TAXIWAY ALPHA	TW A	TAXIWAY	420	1500	50	60,300	AC	1/1/2004
X26	TAXIWAY ALPHA	TW A	TAXIWAY	425	180	35	7,067	AC	1/1/2004
X26	TAXIWAY BRAVO	TW B	TAXIWAY	610	4770	25	119,314	AC	1/1/2004
X26	TAXIWAY CHARLIE	TW C	TAXIWAY	305	1020	50	51,193	AC	1/1/1943
X26	TAXIWAY CHARLIE	TW C	TAXIWAY	306	120	75	11,251	AC	1/1/1943
X26	TAXIWAY CONNECTOR	TW CONN	TAXIWAY	515	750	30	23,637	AC	1/1/2004
X26	TAXIWAY E	TW E	TAXIWAY	700	800	35	29,416	AC	1/1/2011





Table A-2 Pavement Condition Index Summary (Last Inspection) - Section Level

Network ID	Branch Name	Branch Use	Section ID	Area (SF)	PCI	Condition Rating
X26	RUNWAY 5-23	RUNWAY	6205	295,188	75	Satisfactory
X26	Runway 10-28	RUNWAY	6305	134,512	80	Satisfactory
X26	Runway 10-28	RUNWAY	6310	44,362	80	Satisfactory
X26	Runway 10-28	RUNWAY	6315	45,750	87	Good
X26	Runway 10-28	RUNWAY	6320	15,376	82	Satisfactory
X26	TAXIWAY ALPHA	TAXIWAY	405	57,743	81	Satisfactory
X26	TAXIWAY ALPHA	TAXIWAY	415	16,504	81	Satisfactory
X26	TAXIWAY ALPHA	TAXIWAY	420	60,300	83	Satisfactory
X26	TAXIWAY ALPHA	TAXIWAY	425	7,067	54	Poor
X26	TAXIWAY BRAVO	TAXIWAY	610	119,314	77	Satisfactory
X26	TAXIWAY CHARLIE	TAXIWAY	305	51,193	13	Serious
X26	TAXIWAY CHARLIE	TAXIWAY	306	11,251	16	Serious
X26	TAXIWAY CONNECTOR	TAXIWAY	515	23,637	75	Satisfactory
X26	TAXIWAY E	TAXIWAY	700	29,416	91	Good
X26	WEST APRON	APRON	5105	133,925	84	Satisfactory
X26	WEST APRON	APRON	5115	31,900	15	Serious
X26	WEST APRON	APRON	5120	20,635	81	Satisfactory
X26	T-HANGAR APRON AREA	APRON	5305	28,960	78	Satisfactory
X26	SW RUN UP APRON	APRON	5405	19,824	85	Satisfactory
X26	E RUN UP APRON	APRON	5510	13,002	81	Satisfactory
X26	SOUTHEAST APRON	APRON	5605	100,723	27	Very Poor
X26	SOUTHEAST APRON	APRON	5610	21,960	87	Good
X26	SOUTHEAST APRON	APRON	5615	10,290	87	Good
X26	APRON TERMINAL	APRON	5705	32,590	89	Good
X26	APRON TERMINAL	APRON	5710	3,600	92	Good





Table A-3 Forecasted PCI 2018-2027

Naturalis	Dranah ID	Continu ID	Local DCI					Forecas	sted PC	I			
Network ID	Branch ID	Section ID	Last PCI	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
X26	AP RU E	5510	81	78	77	75	74	72	71	69	67	66	64
X26	AP RU SW	5405	85	82	81	79	78	76	75	73	71	70	68
X26	AP SE	5605	27	24	23	21	20	18	17	15	13	12	10
X26	AP SE	5610	87	84	83	81	80	78	77	75	73	72	70
X26	AP SE	5615	87	84	83	81	80	78	77	75	73	72	70
X26	AP TERM	5705	89	86	85	83	82	80	79	77	75	74	72
X26	AP TERM	5710	92	88	85	82	80	77	75	73	71	69	67
X26	AP T-HANG	5305	78	75	74	72	71	69	68	66	64	63	61
X26	AP W	5105	84	81	80	78	77	75	74	72	70	69	67
X26	AP W	5115	15	12	11	9	8	6	5	3	1	0	0
X26	AP W	5120	81	78	77	75	74	72	71	69	67	66	64
X26	RW 10-28	6305	80	77	76	74	73	71	69	68	66	64	63
X26	RW 10-28	6310	80	77	76	74	73	71	69	68	66	64	63
X26	RW 10-28	6315	87	84	83	81	80	78	76	75	73	71	70
X26	RW 10-28	6320	82	79	78	76	75	73	71	70	68	66	65
X26	RW 5-23	6205	75	72	69	67	66	64	63	62	61	61	60
X26	TW A	405	81	78	76	75	74	73	72	71	70	69	68
X26	TW A	415	81	78	76	74	73	71	70	69	68	67	66
X26	TW A	420	83	80	78	76	74	72	71	70	69	68	67
X26	TW A	425	54	52	50	48	47	45	44	42	40	39	37
X26	TW B	610	77	74	73	71	70	69	68	67	66	65	64
X26	TW C	305	13	9	6	4	1	0	0	0	0	0	0
X26	TW C	306	16	12	9	7	4	1	0	0	0	0	0
X26	TW CONN	515	75	72	71	70	69	68	67	66	65	64	63
X26	TW E	700	91	87	85	82	80	78	76	74	73	71	70

Page 1 of 5

Pavement Database: FDOT

Network:	SEBASTIA	AN MUNIC Brand	ch: AP RU	E E RUN	UP APRO	Section:	5510	Surface: AC
L.C.D.: 1/1/20	004 Us	e: APRON Rank	k: T L	ength: 200	.00 (Ft) Wie	dth: 50.0	00 (Ft) True Area:	13,002.00 (SqFt)
Work Date	Work Code	Work Descrip	tion	Cost	Thickness (in)	Major M&R	Comn	nents
1/1/2004	NC-AC	New Construction - A	AC	0.00	0.00	Y		
1/1/2001	NU-IN	New Construction - In	nitial	0.00	0.00	V		
					'			
Network:	SEBASTIA	AN MUNIC Brand	ch: AP RU	SW SW RU	JN UP APR	Section:	5405	Surface: AC
L.C.D.: 1/1/20	005 Us	e: APRON Ranl	k: T L	ength: 195	.00 (Ft) Wio	dth: 100.0	00 (Ft) True Area:	19,824.00 (SqFt)
Work Date	Work Code	Work Descrip	tion	Cost	Thickness (in)	Major M&R	Comn	nents
1/1/2005	NU-IN	New Construction - In	nitial	0.00	2.00	Y	2" AC/4" Shell Rock	Base/12" Stabilizat
Network:	SEBASTIA	AN MUNIC Brand	ch: AP SE	SOUT	HEAST AP	Section:	5605	Surface: AC
L.C.D.: 1/1/19	943 Us	e: APRON Ranl	k: P L	ength: 700	.00 (Ft) Wi o	dth: 150.0	00 (Ft) True Area:	100,723.00 (SqFt)
Work Date	Work Code	Work Descrip	tion	Cost	Thickness (in)	Major M&R	Comn	nents
1/1/1943	NU-IN	New Construction - In	nitial	0.00	0.00	V	1943 2" BIT 6-8" SH	ELL BASE
Network:	SEBASTIA	AN MUNIC Brand	ch: AP SE	SOUT	HEAST AP	Section:	5610	Surface: AC
L.C.D.: 1/1/20	005 Us	e: APRON Rank	k: P L	ength: 200	.00 (Ft) Wie	dth: 150.0	00 (Ft) True Area:	21,960.00 (SqFt)
Work Date	Work	Work Descrip	tion	Cost	Thickness	Major	Comn	nents
1/1/2005	Code NU-IN	New Construction - In		0.00	(in) 0.00	M&R ✓	ESTIMATED CONS	
1/1/2003	INU-IIN	New Construction - II	ilitiai	0.00	0.00	V	ESTIMATED CONS	TRUCTION
Network:	SEBASTIA	AN MUNIC Brand	ch: APSE	SOUT	HEAST AP	Section:	5615	Surface: AC
			ch: APSE k: P L		HEAST AP	Section:		Surface: AC 10.290.00 (SaFt)
Network: L.C.D.: 1/1/20 Work Date	009 Us Work	e: APRON Ranl	k: P L		.00 (Ft) Wie	dth: 100.0	5615 00 (Ft) True Area:	10,290.00 (SqFt)
L.C.D.: 1/1/20 Work Date	009 Us Work Code	e: APRON Ranl Work Descrip	k: P L	ength: 105 Cost	.00 (Ft) Wid Thickness (in)	dth: 100.0 Major M&R	00 (Ft) True Area:	10,290.00 (SqFt)
L.C.D.: 1/1/2	009 Us Work	e: APRON Ranl	k: P L	ength: 105	.00 (Ft) Wie	dth: 100.0	00 (Ft) True Area:	10,290.00 (SqFt)
L.C.D.: 1/1/20 Work Date 1/1/2009	009 Us Work Code NU-IN	Work Descrip New Construction - In	k: P L	ength: 105 Cost 0.00	.00 (Ft) Wid Thickness (in)	dth: 100.0 Major M&R	00 (Ft) True Area: Comm ESTIMATED CONS	10,290.00 (SqFt)
L.C.D.: 1/1/20 Work Date 1/1/2009 Network:	Work Code NU-IN	Work Descrip New Construction - In	k: P L otion nitial ch: AP TEI	cost 0.00 RM APRO	Thickness (in) 0.00 N TERMIN	Major M&R	00 (Ft) True Area: Comm ESTIMATED CONS	10,290.00 (SqFt) nents TRUCTION
L.C.D.: 1/1/20 Work Date 1/1/2009 Network: L.C.D.: 1/1/20	Work Code NU-IN	Work Descrip New Construction - In AN MUNIC Brance: APRON Rank	k: P L tion nitial ch: APTEI k: P L	Cost 0.00 RM APRO ength: 200	Thickness (in) 0.00 N TERMIN	Major M&R Section:	Comm ESTIMATED CONS 5705 00 (Ft) True Area:	10,290.00 (SqFt) nents TRUCTION Surface: AC 32,590.00 (SqFt)
L.C.D.: 1/1/20 Work Date 1/1/2009 Network: L.C.D.: 1/1/20 Work Date	Work Code NU-IN SEBASTIA 005 Us Work Code	Work Descrip New Construction - In AN MUNIC Brane se: APRON Ranl Work Descrip	k: P L tion nitial ch: APTEI k: P L	Cost 0.00 RM APRO ength: 200 Cost	Thickness (in) 0.00 (Ft) Wide the control of the c	Major M&R Section: dth: 100.0 Major M&R	Comn ESTIMATED CONS 5705 00 (Ft) True Area: Comn	10,290.00 (SqFt) ments STRUCTION Surface: AC 32,590.00 (SqFt) ments
L.C.D.: 1/1/20 Work Date 1/1/2009 Network: L.C.D.: 1/1/20	Work Code NU-IN SEBASTIA 005 Us Work	Work Descrip New Construction - In AN MUNIC Brance: APRON Rank	k: P L tion nitial ch: APTEI k: P L	Cost 0.00 RM APRO ength: 200	Thickness (in) 0.00 N TERMIN .00 (Ft) Wid Thickness	Major M&R Section: dth: 100.0 Major	Comm ESTIMATED CONS 5705 00 (Ft) True Area:	10,290.00 (SqFt) ments STRUCTION Surface: AC 32,590.00 (SqFt) ments
L.C.D.: 1/1/20 Work Date 1/1/2009 Network: L.C.D.: 1/1/20 Work Date 1/1/2005	Work Code NU-IN SEBASTIA 005 Us Work Code NU-IN	Work Descrip New Construction - In AN MUNIC Brane Bra	k: P L tion nitial ch: AP TEI k: P L tion nitial	Cost 0.00 RM APRO ength: 200 Cost 0.00	N TERMIN 0.00 (Ft) Wid Thickness (in) 0.00 N TERMIN 00 (Ft) Wid Thickness (in) 0.00	Major M&R Section: dth: 100. Major M&R	Comn ESTIMATED CONS 5705 00 (Ft) True Area: Comn ESTIMATED CONS	10,290.00 (SqFt) nents TRUCTION Surface: AC 32,590.00 (SqFt) nents TRUCTION
L.C.D.: 1/1/20 Work Date 1/1/2009 Network: L.C.D.: 1/1/20 Work Date 1/1/2005 Network:	Work Code NU-IN SEBASTIA 005 Us Work Code NU-IN	Work Descrip New Construction - In AN MUNIC Brane e: APRON Rand Work Descrip New Construction - In AN MUNIC Brane	k: P L tion nitial ch: APTEI k: P L tion nitial	Cost	N TERMIN 0.00 N TERMIN 0.00 N TERMIN N TERMIN	Major M&R Section: dth: 100.0 Major M&R V Section:	Comm ESTIMATED CONS 5705 00 (Ft) True Area: Comm ESTIMATED CONS	10,290.00 (SqFt) nents TRUCTION Surface: AC 32,590.00 (SqFt) nents TRUCTION Surface: PCC
L.C.D.: 1/1/20 Work Date 1/1/2009 Network: L.C.D.: 1/1/20 Work Date 1/1/2005	Work Code NU-IN SEBASTIA 005 Us Work Code NU-IN	Work Descrip New Construction - In AN MUNIC Brane Bra	k: P L tion nitial ch: APTEI k: P L tion nitial	Cost	N TERMIN 0.00 (Ft) Wid Thickness (in) 0.00 N TERMIN 0.00 (Ft) Wid Thickness (in) 0.00 N TERMIN	Major M&R Section: dth: 100.0 Major M&R V Section: dth: 60.0	Comn ESTIMATED CONS 5705 00 (Ft) True Area: Comn ESTIMATED CONS	10,290.00 (SqFt) nents TRUCTION Surface: AC 32,590.00 (SqFt) nents TRUCTION
L.C.D.: 1/1/20 Work Date 1/1/2009 Network: L.C.D.: 1/1/20 Work Date 1/1/2005 Network:	Work Code NU-IN SEBASTIA 005 Us Work Code NU-IN	Work Descrip New Construction - In AN MUNIC Brane e: APRON Rand Work Descrip New Construction - In AN MUNIC Brane	k: P L tion nitial ch: APTEI k: P L tion nitial ch: APTEI k: P L	Cost	N TERMIN 0.00 N TERMIN 0.00 N TERMIN N TERMIN	Major M&R Section: dth: 100.0 Major M&R V Section:	Comm ESTIMATED CONS 5705 00 (Ft) True Area: Comm ESTIMATED CONS	10,290.00 (SqFt) ments TTRUCTION Surface: AC 32,590.00 (SqFt) ments TTRUCTION Surface: PCC 3,600.00 (SqFt)
L.C.D.: 1/1/20 Work Date 1/1/2009 Network: L.C.D.: 1/1/20 Work Date 1/1/2005 Network: L.C.D.: 1/1/20	Work Code NU-IN SEBASTIA 005 Us Work Code NU-IN SEBASTIA 008 Us Work	Work Descrip New Construction - In AN MUNIC Brane See: APRON Rand Work Descrip New Construction - In AN MUNIC Brane AN MUNIC Brane See: APRON Rand	k: P L tion nitial ch: APTEI k: P L tion nitial ch: APTEI k: P L	Cost	N TERMIN 0.00 (Ft) Wid Thickness (in) 0.00 N TERMIN 0.00 (Ft) Wid Thickness (in) 0.00 N TERMIN 0.00 (Ft) Wid Thickness	Section: dth: 60.0 Major M&R Section: dth: 60.0 Major M&R	Comm ESTIMATED CONS 5705 00 (Ft) True Area: Comm ESTIMATED CONS 5710 00 (Ft) True Area:	10,290.00 (SqFt) ments STRUCTION Surface: AC 32,590.00 (SqFt) ments STRUCTION Surface: PCC 3,600.00 (SqFt) ments
L.C.D.: 1/1/20 Work Date 1/1/2009 Network: L.C.D.: 1/1/20 Work Date 1/1/2005 Network: L.C.D.: 1/1/20 Work Date	Work Code NU-IN SEBASTIA 005 Us Work Code NU-IN SEBASTIA 008 Us Work Code	Work Descrip New Construction - In AN MUNIC Brance APRON Rand Work Descrip New Construction - In AN MUNIC Brance AND AN MUNIC BRANCE AND	k: P L tion nitial ch: APTEI k: P L tion nitial ch: APTEI k: P L	cost Cost 0.00 RM APRO ength: 200 Cost 0.00 RM APRO ength: 60 Cost	N TERMIN 0.00 (Ft) Wid Thickness (in) 0.00 N TERMIN 0.00 (Ft) Wid Thickness (in) N TERMIN 0.00 (Ft) Wid Thickness (in)	Major M&R Section: dth: 100.0 Major M&R Section: dth: 60.0 Major M&R	Comm ESTIMATED CONS 5705 00 (Ft) True Area: Comm ESTIMATED CONS 5710 00 (Ft) True Area: Comm Comm	10,290.00 (SqFt) ments STRUCTION Surface: AC 32,590.00 (SqFt) ments STRUCTION Surface: PCC 3,600.00 (SqFt) ments
L.C.D.: 1/1/2009 Network: L.C.D.: 1/1/2 Work Date 1/1/2005 Network: L.C.D.: 1/1/2 Work Date 1/1/2008	Work Code NU-IN SEBASTIA 005 Us Work Code NU-IN SEBASTIA 008 Us Work Code NU-IN	Work Descrip New Construction - In AN MUNIC Brance APRON Rand Work Descrip New Construction - In AN MUNIC Brance AN AN MUNIC BRANCE AN AN MUNIC BRANCE AN A	k: P L tion nitial ch: APTEI k: P L tion nitial ch: APTEI k: P L tion nitial	cost Cost 0.00 RM APRO ength: 200 Cost 0.00 RM APRO ength: 60 Cost	Thickness (in) 0.00 N TERMIN 0.00 N TERMIN 0.00 N TERMIN 0.00 N TERMIN 0.00 Thickness (in) 0.00 N TERMIN 0.00 (Ft) Wic Thickness (in) 0.00	Major M&R Section: dth: 100.0 Major M&R Section: dth: 60.0 Major M&R	Comm ESTIMATED CONS 5705 00 (Ft) True Area: Comm ESTIMATED CONS 5710 00 (Ft) True Area: Comm ESTIMATED CONS	10,290.00 (SqFt) ments STRUCTION Surface: AC 32,590.00 (SqFt) ments STRUCTION Surface: PCC 3,600.00 (SqFt) ments
L.C.D.: 1/1/2009 Network: L.C.D.: 1/1/2 Work Date 1/1/2005 Network: L.C.D.: 1/1/2 Work Date 1/1/2008	Work Code NU-IN SEBASTIA 005 Us Work Code NU-IN SEBASTIA 008 Us Work Code NU-IN	Work Descrip New Construction - In AN MUNIC Brance APRON Rand Work Descrip New Construction - In AN MUNIC Brance AN AN MUNIC BRANCE AN AN MUNIC BRANCE AN A	k: P L tion nitial ch: AP TEI k: P L tion nitial ch: AP TEI k: P L tion nitial	Cost	N TERMIN 0.00 (Ft) Wid Thickness (in) 0.00 N TERMIN 0.00 (Ft) Wid Thickness (in) 0.00 N TERMIN 0.00 (Ft) Wid Thickness (in) 0.00	Section: dth: 100.0 Major M&R Section: dth: 100.0 Major M&R Section: dth: 60.0 Major M&R Section:	Comm ESTIMATED CONS 5705 00 (Ft) True Area: Comm ESTIMATED CONS 5710 00 (Ft) True Area: Comm ESTIMATED CONS	10,290.00 (SqFt) ments TRUCTION Surface: AC 32,590.00 (SqFt) ments TRUCTION Surface: PCC 3,600.00 (SqFt) ments TRUCTION
L.C.D.: 1/1/20 Work Date 1/1/2009 Network: L.C.D.: 1/1/20 Work Date 1/1/2005 Network: L.C.D.: 1/1/20 Work Date 1/1/2008	Work Code NU-IN SEBASTIA 005 Us Work Code NU-IN SEBASTIA 008 Us Work Code NU-IN SEBASTIA 0008 Us Work Code NU-IN	Work Descrip New Construction - In AN MUNIC Brance: APRON Ranl Work Descrip New Construction - In AN MUNIC Brance: APRON Ranl Work Descrip New Construction - In AN MUNIC Brance AN MUNIC Brance AN MUNIC Brance	k: P L tion nitial ch: APTEI k: P L tion nitial ch: APTEI k: P L tion nitial	Cost	N TERMIN 0.00 (Ft) Wich Thickness (in) 0.00 N TERMIN 0.00 (Ft) Wich Thickness (in) 0.00 N TERMIN 0.00 (Ft) Wich Thickness (in) 0.00 NGAR APR 0.00 (Ft) Wich Thickness	Section: dth: 100.0 Major M&R Section: dth: 100.0 Major M&R Section: dth: 60.0 Major M&R Section: dth: 20.0 Major	Comm ESTIMATED CONS 5705 00 (Ft) True Area: Comm ESTIMATED CONS 5710 00 (Ft) True Area: Comm ESTIMATED CONS 5710 5710 5710 5710 5710 5710 5710 571	10,290.00 (SqFt) ments STRUCTION Surface: AC 32,590.00 (SqFt) ments STRUCTION Surface: PCC 3,600.00 (SqFt) ments STRUCTION Surface: AC 28,960.00 (SqFt)
L.C.D.: 1/1/20 Work Date 1/1/2009 Network: L.C.D.: 1/1/20 Work Date 1/1/2005 Network: L.C.D.: 1/1/20 Work Date 1/1/2008 Network: L.C.D.: 1/1/20	Work Code NU-IN SEBASTIA 005 Us Work Code NU-IN SEBASTIA 008 Us Work Code NU-IN SEBASTIA 008 Us	Work Descrip New Construction - In AN MUNIC Brance APRON Rand Work Descrip New Construction - In AN MUNIC Brance APRON Rand Work Descrip New Construction - In AN MUNIC Brance	k: P L tion nitial ch: APTEI k: P L tion nitial ch: APTEI ch: APTEI k: P L tion nitial	Cost	N TERMIN 0.00 (Ft) Wice Thickness (in) 0.00 N TERMIN 0.00 (Ft) Wice Thickness (in) 0.00 N TERMIN 0.00 (Ft) Wice Thickness (in) 0.00 NGAR APR 0.00 (Ft) Wice	Section: dth: 100.0 Major M&R Section: dth: 100.0 Major M&R Section: dth: 60.0 Major M&R Section:	Comm ESTIMATED CONS 5705 00 (Ft) True Area: Comm ESTIMATED CONS 5710 00 (Ft) True Area: Comm ESTIMATED CONS 5710 00 (Ft) True Area: 00 (Ft) True Area:	10,290.00 (SqFt) ments TRUCTION Surface: AC 32,590.00 (SqFt) ments TRUCTION Surface: PCC 3,600.00 (SqFt) ments TRUCTION Surface: AC 28,960.00 (SqFt) ments

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Pavement Database: FDOT

Network:	AN MUNIC Branch: AP	Branch: AP W WEST APR			Section:	5105	Surface: AC	
L.C.D.: 1/1/2	005 Us	e: APRON Rank: P	Length	: 1,200	.00 (Ft) Wi	idth: 100.0	00 (Ft) True Area:	133,925.00 (SqFt)
Work Date	Work Date Work Work Description				Thickness (in)	Major M&R	Comr	nents
1/1/2005	CR-AC	Complete Reconstruction - A	C	0.00	2.00	\	2"AC/4" Shell Rock	Base/4" Stabilizatio
1/1/1943	IMPORT ED	BUILT		0.00	2.00		1943 2" BIT 6-8" SH	IELL BASE
Network:	SEBASTIA	AN MUNIC Branch: AP	W	WEST	`APRON	Section:	5115	Surface: AC

Network:	SEBASTIA	AN MUNIC	Branch: AP W	WEST	APRON	Sect	tion: 5115		Surface: AC
L.C.D.: 1/1/1	943 Us	se: APRON	Rank: P L	ength: 290).00 (Ft)	Width:	50.00 (Ft)	True Area:	31,900.00 (SqFt)
Work Date	Work Code	Work I	Description	Cost	Thicknes (in)	ss Maj M&		Comm	ients
1/1/1943	NU-IN	New Construc	ction - Initial	0.00	0.	00			

Network:	SEBASTIA	AN MUNIC Br	Branch: AP W		WEST APRON		Section: 5120		5120		Surface: AC
L.C.D.: 1/1/2	004 Us	se: APRON R	ank: P L	ength:	400.	.00 (Ft) W	Vidth:	50.00) (Ft)	True Area:	20,635.00 (SqFt)
Work Date	Work Code	Work Desc	ription	Cost		Thickness (in)	Maj M&	' I		Comm	ents
1/1/2004	NC-AC	New Construction	- AC	0	0.00	0.0	0].			
1/1/2000	NU-IN	New Construction	- Initial	0	0.00	0.0	0]:			

Network: SEBASTIAN MUNIC Branch: RW 10-28 Runway 10-28 Section: 6305 Surface: AC **L.C.D.:** 1/1/2004 Use: RUNWAY Rank: P **Length:** 1,800.00 (Ft) Width: 75.00 (Ft) True Area: 134,512.00 (SqFt)

Wor	k Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
1/1/20	004	NC-AC	New Construction - AC	0.00	0.00	>	
1/1/20	000	NU-IN	New Construction - Initial	0.00	0.00	>	2" AC/4" Shell Rock/12" Stab
1/1/19	943	IMPORT	BUILT	0.00	2.00	>	1943 2" BIT 6-8" SHELL BASE
		ED					

Network: SEBASTIAN MUNIC Branch: RW 10-28 Runway 10-28 Section: 6310 Surface: AC **L.C.D.:** 1/1/2004 Use: RUNWAY Rank: P Length: 575.00 (Ft) Width: 75.00 (Ft) True Area: 44,362.00 (SqFt)

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
1/1/2004	NC-AC	New Construction - AC	0.00	0.00	>	
1/1/2000	NU-IN	New Construction - Initial	0.00	0.00	>	2" AC/4" Shell Rock/12" Stab
1/1/1943	IMPORT ED	BUILT	0.00	2.00	>	1943 2"' BIT 6-8" SHELL BASE

Network: SEBASTIAN MUNIC Branch: RW 10-28 Runway 10-28 Section: 6315 Surface: AC **L.C.D.:** 1/1/2004 Use: RUNWAY Rank: P $613.00 \, (Ft)$ Width: $75.00 \, (Ft)$ True Area: 45,750.00 (SqFt)

Length:

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
1/1/2004	NC-AC	New Construction - AC	0.00	2.00	~	
1/1/2000	NU-IN	New Construction - Initial	0.00	0.00		

PAVER 7.0 TM Pavement Management System

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Pavement Database: FDOT

Network: SEBASTIAN MUNIC Branch: RW 10-28 Runway 10-28 Section: 6320 Surface: AL.C.D.: I.I./2004 Use: RUNWAY Rank: P Length: 213.00 (Ft) Width: 75.00 (Ft) True Area: 15,376.0 Work Date Work Code Work Description Cost Thickness (in) Major (M&R) Comments 1/1/2004 NC-AC New Construction - AC New Construction - Initial 0.00 0.00 2.00 ✓ 1943 2" BIT 6-8" SHELL BASE Network: SEBASTIAN MUNIC Branch: RW 5-23 RUNWAY 5-23 Section: 6205 Surface: AL.C.D.: 1/1/2003 Use: RUNWAY Rank: P Length: 2,938.00 (Ft) Width: 100.00 (Ft) True Area: 295,188.0 Work Date Work Ode Work Description Cost Thickness (in) Major (M&R) Comments 1/1/2003 ML-OV MILL and OVERLAY 0.00 0.00 ✓ 1943 2" BIT 6-8" SHELL BASE Network: SEBASTIAN MUNIC Branch: <t< th=""></t<>
Work Date Work Code Work Description Cost Thickness (in) Major M&R Comments 1/1/2004 NC-AC New Construction - AC 0.00 0.00 2.00 ✓ 1943 2" BIT 6-8" SHELL BASE Network: SEBASTIAN MUNIC Branch: RW 5-23 RUNWAY 5-23 Section: 6205 Surface: A L.C.D.: 1/1/2003 Use: RUNWAY Rank: P Length: 2,938.00 (Ft) Width: 100.00 (Ft) True Area: 295,188.0 Work Date Work Code Work Description Cost Thickness (in) Major M&R Comments 1/1/2003 ML-OV MILL and OVERLAY 0.00 0.00 ✓ 1943 2" BIT 6-8" SHELL BASE 1/1/1943 IMPORT ED BUILT 0.00 2.00 ✓ 1943 2" BIT 6-8" SHELL BASE
Work Date Code Work Description Cost (in) M&R Comments 1/1/2004 NC-AC New Construction - AC 0.00 0.00 ✓ 1943 2" BIT 6-8" SHELL BASE Network: SEBASTIAN MUNIC Branch: RW 5-23 RUNWAY 5-23 Section: 6205 Surface: A L.C.D.: 1/1/2003 Use: RUNWAY Rank: P Length: 2,938.00 (Ft) Width: 100.00 (Ft) True Area: 295,188.0 Work Date Work Code Work Description Cost Thickness (in) Major M&R Comments 1/1/2003 ML-OV MILL and OVERLAY 0.00 0.00 ✓ 1943 2" BIT 6-8" SHELL BASE 1/1/1943 IMPORT ED BUILT 0.00 2.00 ✓ 1943 2" BIT 6-8" SHELL BASE
Network: SEBASTIAN MUNIC Branch: RW 5-23 RUNWAY 5-23 Section: 6205 Surface: A L.C.D.: 1/1/2003 Use: RUNWAY Rank: P Length: 2,938.00 (Ft) Width: 100.00 (Ft) True Area: 295,188.0 Work Date Work Code Work Description Cost Thickness (in) Major M&R Comments 1/1/2003 ML-OV MILL and OVERLAY 0.00 0.00 ✓ 1943 2" BIT 6-8" SHELL BASE 1/1/1943 IMPORT ED BUILT 0.00 2.00 ✓ 1943 2" BIT 6-8" SHELL BASE
Network: SEBASTIAN MUNIC Branch: RW 5-23 RUNWAY 5-23 Section: 6205 Surface: A L.C.D.: 1/1/2003 Use: RUNWAY Rank: P Length: 2,938.00 (Ft) Width: 100.00 (Ft) True Area: 295,188.0 Work Date Work Code Work Description Cost Thickness (in) Major M&R Comments 1/1/2003 ML-OV MILL and OVERLAY 0.00 0.00 ✓ 1943 2" BIT 6-8" SHELL BASE 1/1/1943 IMPORT ED ED 1943 2" BIT 6-8" SHELL BASE 1943 2" BIT 6-8" SHELL BASE
L.C.D.: 1/1/2003 Use: RUNWAY Rank: P Length: 2,938.00 (Ft) Width: 100.00 (Ft) True Area: 295,188.0 Work Date Work Code Work Description Cost Thickness (in) Major M&R Comments 1/1/2003 ML-OV MILL and OVERLAY 0.00 0.00 ✓ 1/1/1943 IMPORT ED BUILT 0.00 2.00 ✓
L.C.D.: 1/1/2003 Use: RUNWAY Rank: P Length: 2,938.00 (Ft) Width: 100.00 (Ft) True Area: 295,188.0 Work Date Work Code Work Description Cost Thickness (in) Major M&R Comments 1/1/2003 ML-OV MILL and OVERLAY 0.00 0.00 ✓ 1/1/1943 IMPORT ED BUILT 0.00 2.00 ✓
Work Date Work Code Work Description Cost Thickness (in) Major M&R Comments 1/1/2003 ML-OV MILL and OVERLAY 0.00 0.00 ✓ 1943 2" BIT 6-8" SHELL BASE 1/1/1943 IMPORT ED ED 1943 2" BIT 6-8" SHELL BASE
Work Date Code Work Description Cost (in) M&R Comments 1/1/2003 ML-OV MILL and OVERLAY 0.00 0.00 ✓ 1/1/1943 IMPORT ED BUILT 0.00 2.00 ✓ 1943 2" BIT 6-8" SHELL BASE
1/1/1943 IMPORT ED BUILT 0.00 2.00 1943 2" BIT 6-8" SHELL BASE
ED
Network: SEBASTIAN MUNIC Branch: TW A TAXIWAY ALPH Section: 405 Surface: A
i e e e e e e e e e e e e e e e e e e e
L.C.D.: 1/1/2005 Use: TAXIWAY Rank: P Length: 1,700.00 (Ft) Width: 35.00 (Ft) True Area: 57,743.0
Work Date Work Code Work Description Cost Thickness (in) M&R Comments
1/1/2005 OL-AS Overlay - AC Structural 0.00 2.00 ✓ 2" AC/4" Shell Rock Base/4" Sta
1/1/1943 IMPORT BUILT 0.00 2.00 🔽 1943 2" BIT 6-8" SHELL BASE
ED
Network: SEBASTIAN MUNIC Branch: TW A TAXIWAY ALPH Section: 415 Surface: A
L.C.D.: 1/1/2005 Use: TAXIWAY Rank: P Length: 410.00 (Ft) Width: 40.00 (Ft) True Area: 16,504.0
Work Date Work Code Work Description Cost Thickness Major Comments Comment
1/1/2005 NU-IN New Construction - Initial 0.00 0.00 ✓
Network: SEBASTIAN MUNIC Branch: TW A TAXIWAY ALPH Section: 420 Surface: A
L.C.D.: 1/1/2004 Use: TAXIWAY Rank: P Length: 1,500.00 (Ft) Width: 50.00 (Ft) True Area: 60,300.0
Work Date Work Code Work Description Cost Thickness Major Comments Comment
1/1/2004 NC-AC New Construction - AC 0.00 0.00
1/1/2000 NU-IN New Construction - Initial 0.00 0.00 ✓.
N. LODDAGTIANIATING D. L. TWA.
Network: SEBASTIAN MUNIC Branch: TW A TAXIWAY ALPH Section: 425 Surface: A
TO SEE ALIANOMA TO THANKING TO THE TOTAL ACCOUNTY TO THE TOTAL ACC
L.C.D.: 1/1/2004 Use: TAXIWAY Rank: P Length: 180.00 (Ft) Width: 35.00 (Ft) True Area: 7,067.0
L.C.D.: 1/1/2004 Use: TAXIWAY Rank: P Length: 180.00 (Ft) Width: 35.00 (Ft) True Area: 7,067.0 Work Date Work Code Work Description Cost Thickness (in) M&R Comments
Work Date Work Work Description Cost Thickness Major Comments

Network:	SEBASTIA	AN MUNIC	Branch: TW I	3	TAXIV	WAY BRA	V S	ection:	610		Surface: AC
L.C.D.: 1/1/2	004 Us	se: TAXIWAY	Rank: P	Length:	4,770	.00 (Ft)	Width	: 25.0	00 (Ft)	True Area:	119,314.00 (SqFt)
Work Date	Work Code	Work D	escription	С	ost	Thicknes (in)		Iajor 1&R		Comn	nents
1/1/2004	NC-AC	New Construct	tion - AC		0.00	0.	.00	V			
1/1/2000	NU-IN	New Construct	tion - Initial		0.00	0.	.00		2" AC/	4" Shell Rock	/12" Stab

6/2/2017	Work History Report	Page 4 of 5
	Pavement Database: FDOT	

- 10011101111		AN MUNIC	Branch: TW C		WAY CHAR	Section:		Surface: AC
L.C.D.: 1/1/19	943 Us	e: TAXIWAY	Rank: P L	ength: 1,020	.00 (Ft) Wi	dth: 50.	00 (Ft) True Area:	51,193.00 (SqFt)
Work Date	Work Code	Work D	escription	Cost	Thickness (in)	Major M&R	Comm	nents
1/1/1943	IMPORT ED	BUILT		0.00	2.00	V	1943 2" BIT 6-8" SH	ELL BASE

Network:	SEBASTIA	AN MUNIC	Branch: TW C	TAXIV	WAY CHAR	Section:	306	Surface: AC
L.C.D.: 1/1/1	943 Us	se: TAXIWAY	Rank: P Lo	ength: 120	.00 (Ft) Wi	dth: 75.0	00 (Ft) True Area:	11,251.00 (SqFt)
Work Date	Work Code	Work D	escription	Cost	Thickness (in)	Major M&R	Comm	nents
1/1/1943	IMPORT ED	BUILT		0.00	2.00	V	1943 2" BIT 6-8" SH	ELL BASE

Network:	SEBASTIA	AN MUNIC Branch: TW C	ONN TAXI	WAY CON	Section:	515	Surface: AC
L.C.D.: 1/1/20	004 Us	se: TAXIWAY Rank: P	Length: 750	.00 (Ft) Wi	dth: 30.0	00 (Ft) True Area:	23,637.00 (SqFt)
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comn	nents
1/1/2004	NC-AC	New Construction - AC	0.00	0.00	V		
1/1/2000	NU-IN	New Construction - Initial	0.00	0.00	~	2" AC/4" Shell Rock	/12" Stab
1/1/2000	NU-IN	New Construction - Initial	0.00	0.00			

Network: SEBASTIAN MUNIC			Branch: TW E	TAXI	WAY E	Section	: 700	Surface: AC
L.C.D.: 1/1/20	011 Us	se: TAXIWAY	Rank: P L	ength: 800	.00 (Ft) W	idth: 35.	00 (Ft) True Area:	29,416.00 (SqFt)
Work Date	Work Code	Work D	escription	Cost	Thickness (in)	Major M&R	Com	nents
1/1/2011	NU-IN	New Construct	ion - Initial	0.00	0.00	Y	ESTIMATED CONS	STRUCTION

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Pavement Database: FDOT

Summary:

Work Description	Section Count	Area Total (SqFt)	Thickness Avg (in)	Thickness STD (in)
BUILT	7	728,174.00	2.00	0.00
Complete Reconstruction - AC	1	133,925.00	2.00	0.00
MILL and OVERLAY	1	295,188.00	0.00	0.00
New Construction	1	7,067.00	0.00	0.00
New Construction - AC	9	476,888.00	0.22	0.63
New Construction - Initial	21	803,359.00	0.29	0.70
Overlay - AC Structural	1	57,743.00	2.00	0.00

Branch Condition Report

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Pavement Database: FDOT

Branch ID	Number of Sections	Sum Section Length (Ft)	Avg Section Width (Ft)	True Area (SqFt)	Use	Average PCI	Standard Deviation PCI	Weighted Average PCI
AP RU E	1	200.00	50.00	13,002.00	APRON	81.00	0.00	81.00
AP RU SW	1	195.00	100.00	19,824.00	APRON	85.00	0.00	85.00
AP SE	3	1,005.00	133.33	132,973.00	APRON	67.00	28.28	41.55
AP TERM	2	260.00	80.00	36,190.00	APRON	90.50	1.50	89.30
AP T-HAN	1	1,000.00	20.00	28,960.00	APRON	78.00	0.00	78.00
AP W	3	1,890.00	66.67	186,460.00	APRON	60.00	31.84	71.86
RW 10-28	4	3,201.00	75.00	240,000.00	RUNWAY	82.25	2.86	81.46
RW 5-23	1	2,938.00	100.00	295,188.00	RUNWAY	75.00	0.00	75.00
TW A	4	3,790.00	40.00	141,614.00	TAXIWAY	74.75	12.01	80.50
TW B	1	4,770.00	25.00	119,314.00	TAXIWAY	77.00	0.00	77.00
TW C	2	1,140.00	62.50	62,444.00	TAXIWAY	14.50	1.50	13.54
TW CONN	1	750.00	30.00	23,637.00	TAXIWAY	75.00	0.00	75.00
TW E	1	800.00	35.00	29,416.00	TAXIWAY	91.00	0.00	91.00

6/2/2017	Branch Condition Report	Page 2 of 2
	Pavement Database: FDOT	

Use Category	Number of Sections	Total Area (SqFt)	Arithmetic Average PCI	Average STD PCI	Weighted Average PCI
APRON	11	417409.000007189	73.27	25.06	65.05
RUNWAY	5	535188	80.80	3.87	77.90
TAXIWAY	9	376425.000020693	63.44	27.81	68.76
ALL	25	1329022.00002788	71.24	24.49	71.28

Pavement Database: FDOT

NetworkId: X26

Pavement Data	vase: FDO1			NetworkId: X26						
Branch ID	Section ID	Last Const. Date	Surface	Use	Rank	Lanes	True Area (SqFt)	Last Inspection Date	Age At Inspec tion	
AP RU E	5510	1/1/2004	AC	APRON	Т	0	13,002.00	9/15/2016	12	81
AP RU SW	5405	1/1/2005	AC	APRON	T	0	19,824.00	9/15/2016	11	85
AP SE	5605	1/1/1943	AC	APRON	Р	0	100,723.00	9/15/2016	73	
AP SE	5610	1/1/2005	AC	APRON	Р	0	21,960.00	9/15/2016	11	87
AP SE	5615	1/1/2009	AC	APRON	Р	0	10,290.00	9/15/2016	7	87
AP TERM	5705	1/1/2005	AC	APRON	Р	0	32,590.00	9/15/2016	11	89
AP TERM	5710	1/1/2008	PCC	APRON	Р	0	3,600.00	9/15/2016	8	92
AP T-HANG	5305	1/1/2003	AC	APRON	Т	0	28,960.00	9/15/2016	13	78
AP W	5105	1/1/2005	AC	APRON	Р	0	133,925.00	9/15/2016	11	84
AP W	5115	1/1/1943	AC	APRON	Р	0	31,900.00	9/15/2016	73	15
AP W	5120	1/1/2004	AC	APRON	Р	0	20,635.00	9/15/2016	12	81
RW 10-28	6305	1/1/2004	AC	RUNWAY	Р	0	134,512.00		12	
RW 10-28	6310	1/1/2004	AC	RUNWAY	Р	0	44,362.00	9/15/2016	12	
RW 10-28	6315	1/1/2004	AC	RUNWAY	Р	0	45,750.00	9/15/2016	12	_
RW 10-28	6320	1/1/2004	AC	RUNWAY	Р	0	15,376.00	9/15/2016	12	82
RW 5-23	6205	1/1/2003	AAC	RUNWAY	Р	0	295,188.00	9/15/2016	13	75
TW A	405	1/1/2005	AAC	TAXIWAY	Р	0	57,743.00	9/15/2016	11	81
TW A	415	1/1/2005	AC	TAXIWAY	Р	0	16,504.00	9/15/2016	11	81
TW A	420	1/1/2004	AC	TAXIWAY	Р	0	60,300.00	9/15/2016	12	83
TW A	425	1/1/2004	AC	TAXIWAY	P	0	7,067.00	9/15/2016	12	54
TW B	610	1/1/2004	AC	TAXIWAY	Р	0	119,314.00	9/15/2016	12	77
TW C	305	1/1/1943	AC	TAXIWAY	Р	0	51,193.00	9/15/2016	73	13
TW C	306	1/1/1943	AC	TAXIWAY	Р	0	11,251.00	9/15/2016	73	16
TW CONN	515	1/1/2004	AC	TAXIWAY	Р	0	23,637.00	9/15/2016	12	75
TW E	700	1/1/2011	AC	TAXIWAY	Р	0	29,416.00	9/15/2016	5	91

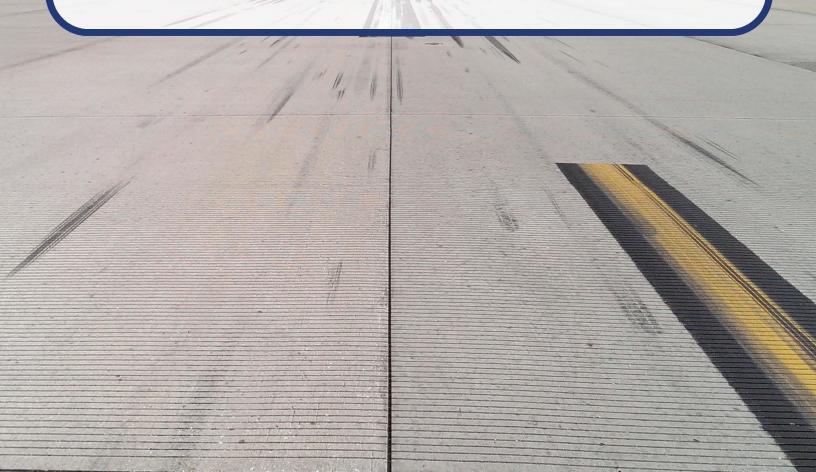
6/2/2017	Section Condition Report (Summary)	Page 2 of 2
	Pavement Database: FDOT	

Age Category	Average Age at Inspection	Total Area (SqFt)	Number of Sections	Arithmetic Average PCI	Standard Deviation PCI	Weighted Average PCI	
03-05	5	29,416.00	1	91.00	0.00	91.00	
06-10	8	13,890.00	2	89.50	2.50	88.30	
11-15	12	1,090,649.00	18	80.00	7.36	79.57	
ALL	21	1,329,022.00	25	71.24	24.49	71.28	
Over 50	73	195,067.00	4	17.75	5.45	20.73	



Appendix B

Airfield Pavement Localized Maintenance and Repair and Major Rehabilitation



2017

Sebastian Municipal Airport (X26)





Table B-1 Localized Maintenance and Repair Needs based on Current Condition

Network ID	Branch ID	Section ID	Distress Code	Description	Severity	Distress Qty	Distress Unit	Percent Distress	Work Description	Work Qty	Work Unit	Unit Cost	Work Cost
X26	AP SE	5605	41	ALLIGATOR CR	Low	2692.7	SqFt	2.7%	FDOT - PATCHING - AC FULL DEPTH	2905.18	SqFt	\$ 6.00	\$ 17,440.00
X26	AP SE	5605	41	ALLIGATOR CR	Medium	8783.03	SqFt	8.7%	FDOT - PATCHING - AC FULL DEPTH	9164.39	SqFt	\$ 6.00	\$ 54,990.00
X26	AP SE	5605	45	DEPRESSION	Low	308.92	SqFt	0.3%	FDOT - PATCHING - AC FULL DEPTH	383.2	SqFt	\$ 6.00	\$ 2,310.00
X26	AP SE	5605	45	DEPRESSION	Medium	26.91	SqFt	0.0%	FDOT - PATCHING - AC FULL DEPTH	51.67	SqFt	\$ 6.00	\$ 320.00
X26	AP SE	5605	50	PATCHING	Medium	4915.23	SqFt	4.9%	FDOT - PATCHING - AC FULL DEPTH	5201.12	SqFt	\$ 6.00	\$ 31,210.00
X26	AP SE	5605	50	PATCHING	High	214.85	SqFt	0.2%	FDOT - PATCHING - AC FULL DEPTH	277.71	SqFt	\$ 6.00	\$ 1,670.00
X26	AP SE	5605	52	RAVELING	Low	95592.89	SqFt	94.9%	FDOT - SURFACE SEAL	95593.21	SqFt	\$ 0.55	\$ 52,580.00
X26	AP SE	5610	45	DEPRESSION	Low	263.5	SqFt	1.2%	FDOT - PATCHING - AC FULL DEPTH	332.6	SqFt	\$ 6.00	\$ 2,000.00
X26	AP SE	5615	45	DEPRESSION	Low	39.18	SqFt	0.4%	FDOT - PATCHING - AC FULL DEPTH	68.89	SqFt	\$ 6.00	\$ 420.00
X26	AP TERM	5705	45	DEPRESSION	Low	26.05	SqFt	0.1%	FDOT - PATCHING - AC FULL DEPTH	50.59	SqFt	\$ 6.00	\$ 310.00
X26	AP TERM	5710	65	JT SEAL DMG	Medium	29	Slabs	100.0%	FDOT - JOINT SEAL - PCC	527.89	Ft	\$ 2.75	\$ 1,460.00
X26	AP T-HANG	5305	45	DEPRESSION	Low	347.57	SqFt	1.2%	FDOT - PATCHING - AC FULL DEPTH	426.25	SqFt	\$ 6.00	\$ 2,560.00
X26	AP W	5105	45	DEPRESSION	Low	113.67	SqFt	0.1%	FDOT - PATCHING - AC FULL DEPTH	160.38	SqFt	\$ 6.00	\$ 970.00
X26	AP W	5105	52	RAVELING	Low	4464.12	SqFt	3.3%	FDOT - SURFACE SEAL	4463.79	SqFt	\$ 0.55	\$ 2,460.00
X26	AP W	5115	41	ALLIGATOR CR	Low	614.83	SqFt	1.9%	FDOT - PATCHING - AC FULL DEPTH	719.03	SqFt	\$ 6.00	\$ 4,320.00
X26	AP W	5115	41	ALLIGATOR CR	Medium	3334.98	SqFt	10.5%	FDOT - PATCHING - AC FULL DEPTH	3571.47	SqFt	\$ 6.00	\$ 21,430.00
X26	AP W	5115	41	ALLIGATOR CR	High	104.41	SqFt	0.3%	FDOT - PATCHING - AC FULL DEPTH	149.62	SqFt	\$ 6.00	\$ 900.00
X26	AP W	5115	43	BLOCK CR	Medium	27520.95	SqFt	86.3%	FDOT - CRACK SEALING - AC	8388.45	Ft	\$ 3.00	\$ 25,170.00
X26	AP W	5115	45	DEPRESSION	Low	139.18	SqFt	0.4%	FDOT - PATCHING - AC FULL DEPTH	190.52	SqFt	\$ 6.00	\$ 1,150.00
X26	AP W	5115	52	RAVELING	Low	31575.18	SqFt	99.0%	FDOT - SURFACE SEAL	31574.85	SqFt	\$ 0.55	\$ 17,370.00
X26	AP W	5120	45	DEPRESSION	Low	81.16	SqFt	0.4%	FDOT - PATCHING - AC FULL DEPTH	121.63	SqFt	\$ 6.00	\$ 730.00
X26	AP W	5120	52	RAVELING	Low	419.15	SqFt	2.0%	FDOT - SURFACE SEAL	418.72	SqFt	\$ 0.55	\$ 240.00
X26	RW 10-28	6305	52	RAVELING	Low	2951.57	SqFt	2.2%	FDOT - SURFACE SEAL	2951.46	SqFt	\$ 0.55	\$ 1,630.00
X26	RW 10-28	6310	52	RAVELING	Low	591.48	SqFt	1.3%	FDOT - SURFACE SEAL	592.02	SqFt	\$ 0.55	\$ 330.00
X26	RW 10-28	6315	52	RAVELING	Low	609.99	SqFt	1.3%	FDOT - SURFACE SEAL	610.31	SqFt	\$ 0.55	\$ 340.00
X26	RW 10-28	6320	45	DEPRESSION	Low	41.01	SqFt	0.3%	FDOT - PATCHING - AC FULL DEPTH	71.04	SqFt	\$ 6.00	\$ 430.00
X26	RW 5-23	6205	52	RAVELING	Low	9097.01	SqFt	3.1%	FDOT - SURFACE SEAL	9096.58	SqFt	\$ 0.55	\$ 5,010.00
X26	TW A	425	45	DEPRESSION	Low	969.18	SqFt	13.7%	FDOT - PATCHING - AC FULL DEPTH	1099	SqFt	\$ 6.00	\$ 6,600.00
X26	TW A	425	52	RAVELING	Low	504.83	SqFt	7.1%	FDOT - SURFACE SEAL	504.83	SqFt	\$ 0.55	\$ 280.00
X26	TW B	610	52	RAVELING	Low	2343.63	SqFt	2.0%	FDOT - SURFACE SEAL	2343.3	SqFt	\$ 0.55	\$ 1,290.00
X26	TW C	305	41	ALLIGATOR CR	Medium	13490.3	SqFt	26.4%	FDOT - PATCHING - AC FULL DEPTH	13961.87	SqFt	\$ 6.00	\$ 83,780.00
X26	TW C	305	43	BLOCK CR	Medium	36153.18	SqFt	70.6%	FDOT - CRACK SEALING - AC	11019.36	Ft	\$ 3.00	\$ 33,060.00
X26	TW C	305	45	DEPRESSION	Low	441.32	SqFt	0.9%	FDOT - PATCHING - AC FULL DEPTH	529.58	SqFt	\$ 6.00	\$ 3,180.00
X26	TW C	305	50	PATCHING	High	1549.57	SqFt	3.0%	FDOT - PATCHING - AC FULL DEPTH	1711.46	SqFt	\$ 6.00	\$ 10,280.00
X26	TW C	305	52	RAVELING	Low	44510.28	SqFt	87.0%	FDOT - SURFACE SEAL	44509.85	SqFt	\$ 0.55	\$ 24,490.00
X26	TW C	305	52	RAVELING	Medium	5133.2	SqFt	10.0%	FDOT - PATCHING - AC PARTIAL DEPTH	5133.31	SqFt	\$ 3.00	\$ 15,400.00
X26	TW C	306	41	ALLIGATOR CR	Medium	2943.07	SqFt	26.2%	FDOT - PATCHING - AC FULL DEPTH	3165.67	SqFt	\$ 6.00	\$ 19,000.00
X26	TW C	306	43	BLOCK CR	Medium	8307.91	SqFt	73.8%	FDOT - CRACK SEALING - AC	2532.15	Ft	\$ 3.00	\$ 7,600.00

Statewide Airfield Pavement Management Program Airport Pavement Evaluation Report

2017

Sebastian Municipal Airport (X26)





Network ID	Branch ID	Section ID	Distress Code	Description	Severity	Distress Qty	Distress Unit	Percent Distress	Work Description	Work Qty	Work Unit	Unit Cost	Work Cost
X26	TW C	306	45	DEPRESSION	Low	54.47	SqFt	0.5%	FDOT - PATCHING - AC FULL DEPTH	88.26	SqFt	\$ 6.00	\$ 530.00
X26	TW C	306	52	RAVELING	Low	11250.98	SqFt	100.0%	FDOT - SURFACE SEAL	11251.52	SqFt	\$ 0.55	\$ 6,190.00
X26	TW CONN	515	45	DEPRESSION	Low	177.28	SqFt	0.8%	FDOT - PATCHING - AC FULL DEPTH	234.65	SqFt	\$ 6.00	\$ 1,410.00
X26	TW CONN	515	52	RAVELING	Low	1801.66	SqFt	7.6%	FDOT - SURFACE SEAL	1801.88	SqFt	\$ 0.55	\$ 1,000.00





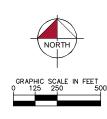
Table B-2 10-Year Major Rehabilitation Planning Needs at Section Level

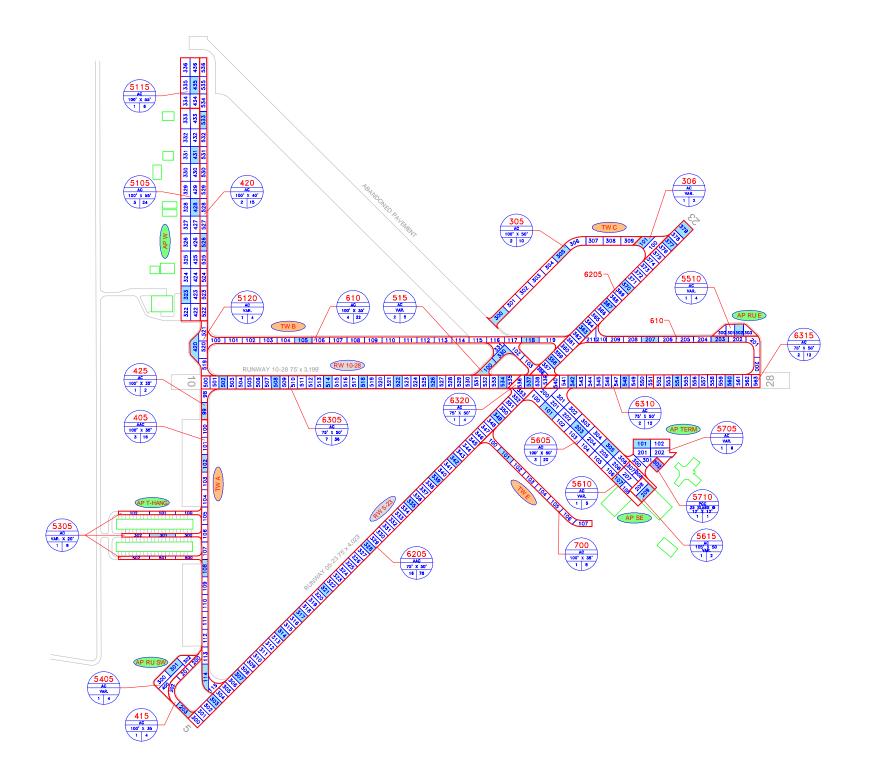
Program Year	Network ID	Branch ID	Section ID	Surface	Area (SF)	PCI Before	Rehabilitation Type	Planning Cost
2018	X26	AP SE	5605	AC	100,723	24	AC Reconstruction	\$ 907,000.00
2018	X26	AP W	5115	AC	31,900	12	AC Reconstruction	\$ 288,000.00
2018	X26	TW A	425	AC	7,067	52	AC Restoration	\$ 50,000.00
2018	X26	TW C	305	AC	51,193	9	AC Reconstruction	\$ 461,000.00
2018	X26	TW C	306	AC	11,251	12	AC Reconstruction	\$ 102,000.00
2022	X26	RW 5-23	6205	AAC	295,188	64	AC Restoration	\$ 2,067,000.00
2025	X26	AP T-HANG	5305	AC	28,960	64	AC Restoration	\$ 203,000.00
2026	X26	RW 10-28	6305	AC	134,512	64	AC Restoration	\$ 942,000.00
2026	X26	RW 10-28	6310	AC	44,362	64	AC Restoration	\$ 311,000.00
2026	X26	TW CONN	515	AC	23,637	64	AC Restoration	\$ 166,000.00
2027	X26	AP RU E	5510	AC	13,002	64	AC Restoration	\$ 92,000.00
2027	X26	AP W	5120	AC	20,635	64	AC Restoration	\$ 145,000.00
2027	X26	TW B	610	AC	119,314	64	AC Restoration	\$ 836,000.00



Appendix C

Technical Exhibits





LEGEND

- TYPICAL RUNWAY BRANCH ID

TYPICAL TAXIWAY BRANCH ID

TYPICAL APRON BRANCH ID

SECTION NUMBER
PAVEMENT TYPE
TYPICAL SAMPLE UNIT INFORMATION
FLEXIBLE (AC) PAVEMENT LENGTH & WIDTH
RIGID (PCC) PAVEMENT NO. OF SLABS AND SLAB SIZE - NUMBER OF SAMPLE UNITS IN SECTION
- NUMBER OF SAMPLE UNITS TO BE INSPECTED

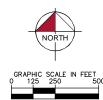
INSPECTED SAMPLE UNITS. GPS COORDINATES ARE AT THE CENTROID OF THE SAMPLE UNIT.

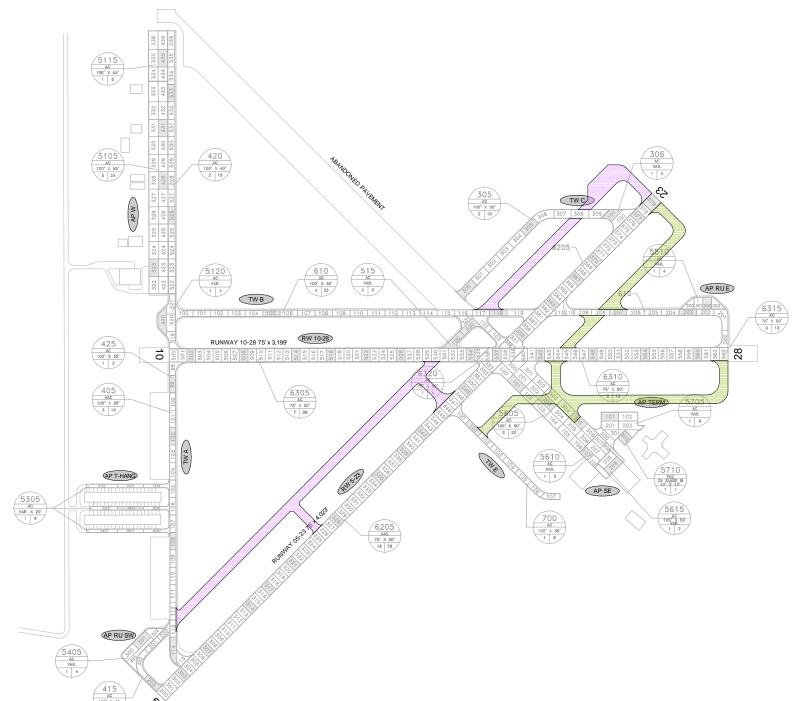
TOTAL SAMPLES INSPECTED = 60 AC: 59 PCC: 1

RUNWAY LENGTHS DEPICTED IN THIS DRAWING ARE FOR PAVEMENT MANAGEMENT PURPOSES ONLY AND MAY NOT MATCH PUBLISHED RUNWAY LENGTHS.

FDOT







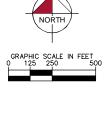
CONSTRUCTION SINCE LAST INSPECTION & ANTICIPATED CONSTRUCTION ACTIVITY

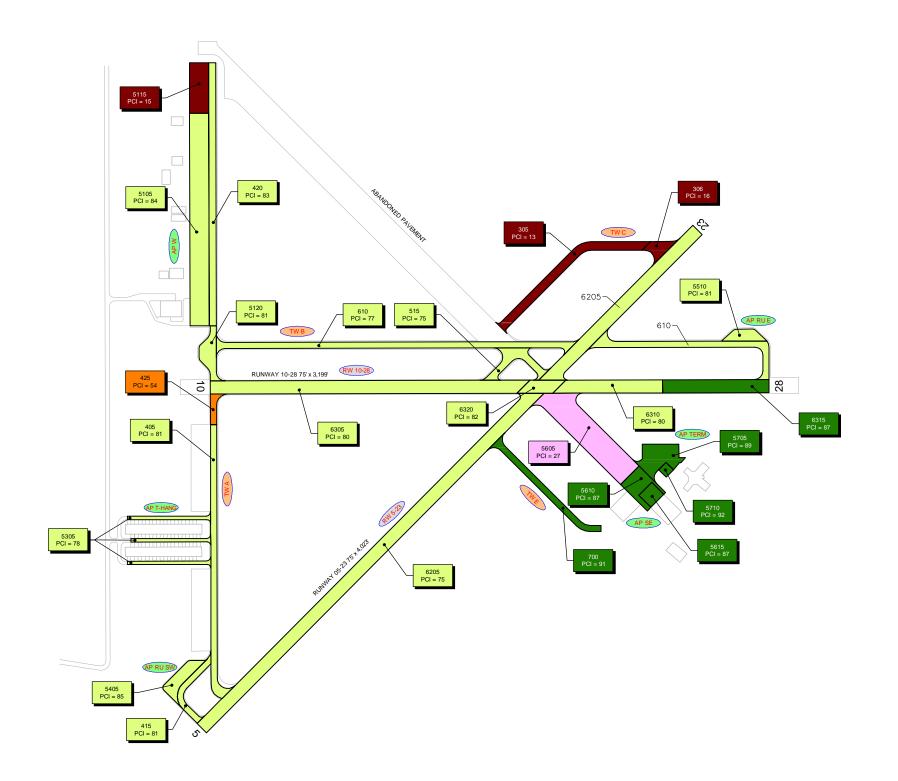
CONSTRUCTION YEAR	LOCATION	WORK TYPE / PAVEMENT SECTION
2017	TAXIWAYS D & E	NEW CONSTRUCTION
2018	TAXIWAY C	NEW CONSTRUCTION

LEGEND

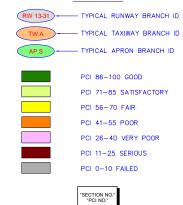


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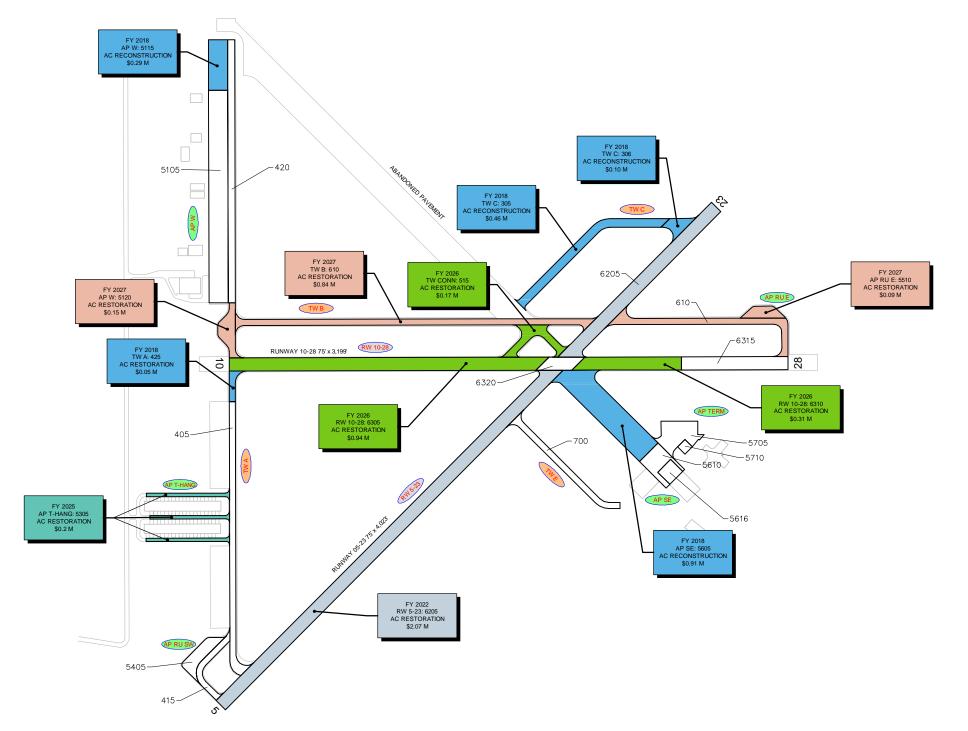




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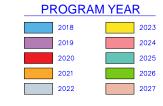
RUNWAY LENGTHS DEPICTED IN THIS DRAWING ARE FOR PAVEMENT MANAGEMENT PURPOSES ONLY AND MAY NOT MATCH PUBLISHED RUNWAY LENGTHS.



LEGEND



TYPICAL APRON BRANCH ID



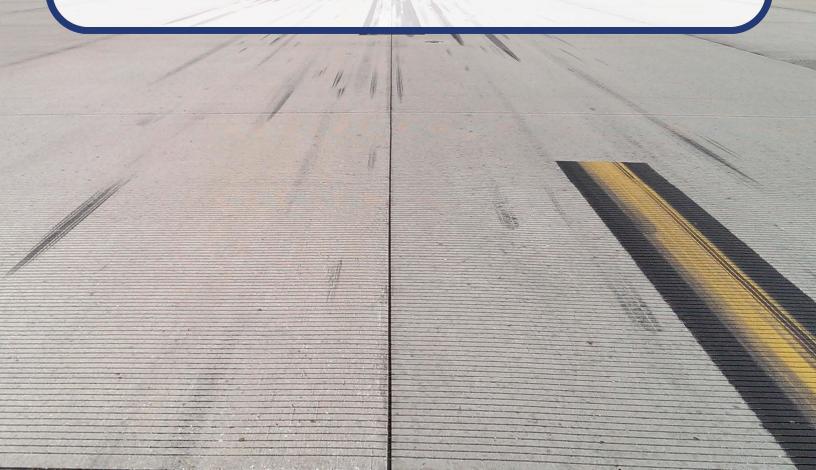
"PROGRAM YEAR"
"BRANCH": "SECTION"
"REHAB ACTIVITY"
"EST. COST"

RUNWAY LENGTHS DEPICTED IN THIS DRAWING ARE FOR PAVEMENT MANAGEMENT PURPOSES ONLY AND MAY NOT MATCH PUBLISHED RUNWAY LENGTHS.



Appendix D

Inspection Photograph Documentation









Runway 5-23, Section 6205, Sample Unit 379 - Low Severity (48) Longitudinal and Transverse Cracking, Low Severity (50) Patching, Low Severity (57) Weathering



Runway 5-23, Section 6205, Sample Unit 379 – Low Severity (48) Longitudinal and Transverse Cracking, Low Severity (50) Patching, Low Severity (57) Weathering, Low Severity (52) Raveling







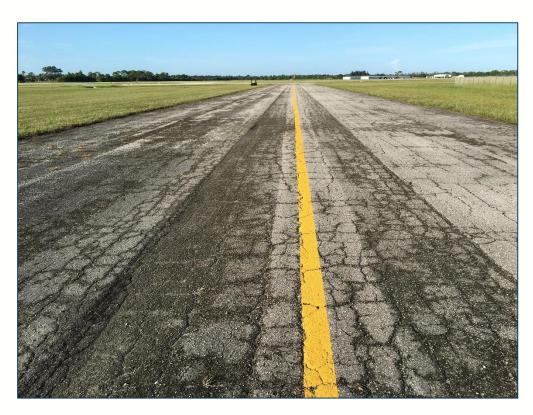
Runway 10-28, Section 6305, Sample Unit 514 - Low Severity (52) Raveling



Taxiway C, Section 305, Sample Unit 300 - Medium Severity (41) Alligator Cracking, Medium Severity (52) Raveling







Taxiway C, Section 305, Sample Unit 305 – Medium Severity (43) Block Cracking, Medium Severity (41) Alligator Cracking, Low Severity (52) Raveling



Taxiway C, Section 305, Sample Unit 305 - Medium Severity (41) Alligator Cracking, Low Severity (53) Rutting, Low Severity (52) Raveling

Airport Pavement

Evaluation Report







Taxiway A, Section 425, Sample Unit 99 – Low Severity (45) Depression, Low Severity (52) Raveling, Low Severity (48) Longitudinal and Transverse Cracking, Low Severity (57) Weathering



Taxiway A, Section 425, Sample Unit 99 - Low Severity (48) Longitudinal and Transverse Cracking, Low Severity (57) Weathering, Low Severity (52) Raveling







Taxiway CONN, Section 515, Sample Unit 100 - Low Severity (48) Longitudinal and Transverse Cracking, Low Severity (57) Weathering, Low Severity (52) Raveling



Taxiway B, Section 610, Sample Unit 105 - Low Severity (48) Longitudinal and Transverse Cracking, Low Severity (52) Raveling, Low Severity (57) Weathering

Airport Pavement

Evaluation Report







Taxiway E, Section 700, Sample Unit 101 - Low Severity (48) Longitudinal and Transverse Cracking, Low Severity (57) Weathering



Apron W, Section 5115, Sample Unit 435 - Medium Severity (43) Block Cracking, Low Severity (50) Patching, Low Severity (52) Raveling

Airport Pavement







Apron SE, Section 5605, Sample Unit 101 – Low Severity (43) Block Cracking, Medium Severity (50) Patching, Medium Severity (41) Alligator Cracking, Low Severity (52) Raveling



Apron SE, Section 5605, Sample Unit 101 - Low Severity (52) Raveling and Medium Severity (41) Alligator Cracking

Airport Pavement Evaluation Report







Apron SE, Section 5605, Sample Unit 203 – Low Severity (41) Alligator Cracking, Low Severity (43) Block Cracking, Low Severity (52) Raveling



Apron SE, Section 5605, Sample Unit 305 - Low Severity (41) Alligator Cracking and Low Severity (50) Patching, Low Severity (52) Raveling







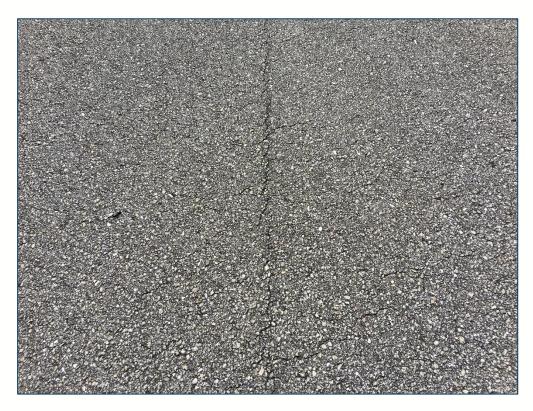
Apron T-Hang, Section 5305, Sample Unit 301 – Low Severity (48) Longitudinal and Transverse Cracking, Low Severity (45) Depression, Low Severity (57) Weathering



Apron RU E, Section 5510, Sample Unit 302 - Low Severity (50) Patching and Low Severity (57) Weathering







Apron RU SW, Section 5405, Sample Unit 301 - Low Severity (48) Longitudinal and Transverse Cracking, Low Severity (57) Weathering

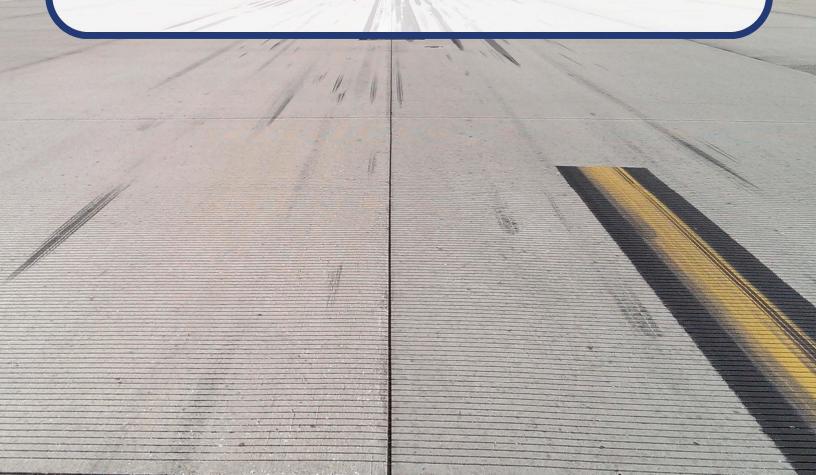


Apron Term, Section 5705, Sample Unit 101 - Low Severity (45) Depression, Low Severity (57) Weathering



Appendix E

Inspection Distress Details



Re-Inspection Report

FDOT

48

50

57

L & T CR

PATCHING

WEATHERING

L

L L 38.00 Ft

143.00 SqFt 3307.00 SqFt

Cenerated Date 6/2/2017 Page 1 of 26

Generated	Date		6/2/2017							Page 1 of 2
Network:	X26			Nan	ne: SEI	BASTIAN MU	NICIPAL AIRPO	ORT		
Branch:	AP RU E		Name:	E RUN UP A	PRON	Use:	APRON	Area:	13,002 SqFt	
Section:	5510	0	f 1 F	rom:			To:		Last Const.	: 1/1/2004
Surface:	AC	Family:	C9N59-GA-AP	-AC Zon	e:		Category:		Rank: T	
Area:	13	,002 SqFt	Length:	200 F	₹t	Width:	50 Ft			
Slabs:		Slab Ler	igth:	Ft	Slab Width:		Ft	Joint Le	ength:	Ft
Shoulder:		Street T	ype:		Grade: 0			Lanes:	0	
Section Co	omments:									
Work Date	e: 1/1/2001	W	ork Type: New	Construction - Init	ial	Co	de: NU-IN	Is M	Iajor M&R: True	
Work Date	e: 1/1/2004	W	ork Type: New	Construction - AC		Co	de: NC-AC	Is M	Major M&R: True	
Last Insp.	Date: 9/15/20	016	TotalSa	mples: 4		Surveyed	l: 1			
Conditions	s: PCI : 8	1								
Inspection	Comments:									
Sample Nu	ımber: 302	Ty	pe: R	Area:	345	0.00 SqFt	PCI:	81		
Sample Co	omments:									

Network:	X26			Name:	SEBASTIAN M	UNICIPAL AIRPO	ORT	
Branch:	AP RU S	sw	Name:	SW RUN UP APF	RON Use:	APRON	Area:	19,824 SqFt
Section:	5405	C	of 1 1	From:		To:		Last Const.: 1/1/2005
Surface:	AC	Family:	C9N59-GA-A	P-AC Zone:		Category:		Rank: T
Area:		19,824 SqFt	Length:	195 Ft	Width:	100 Ft		
Slabs:		Slab Lei	ngth:	Ft Sla	b Width:	Ft	Joint Lengtl	h: Ft
Shoulder:		Street T	ype:	Gr	ade: 0		Lanes: ()
Section Co	mments:							
Work Date	: 1/1/2005	W	ork Type: New	Construction - Initial	C	ode: NU-IN	Is Majo	r M&R: True
Last Insp. 1	Date: 9/15	5/2016	TotalS	amples: 4	Surveye	e d: 1		
Conditions	: PCI:	85						
Inspection	Comments	:						
Sample Nu	mber: 30	1 Ty	pe: R	Area:	5000.00 SqFt	PCI:	85	
Sample Co	mments:							
48 L&	T CR		L	126.00 Ft				
	ATHERING	3	L	5000.00 SqFt				
56 SW	ELLING		L	1.00 SqFt				

Network:	X26				Name:	SEBASTIAN M	IUNICIPAL AIRPO	ORT			
Branch:	AP SE		Name:	SOUTH	IEAST APRON	Use:	APRON	Area:	: 13	32,973 SqFt	
Section:	5605	of 3		From: -			То: -			Last Const.:	1/1/1943
Surface:	AC	Family: C	9N59-GA- <i>A</i>	AP-AC	Zone:		Category:			Rank: P	
Area:	100,72	3 SqFt	Length:		700 Ft	Width:	150 Ft				
Slabs:		Slab Length	:	Ft	Slab Wi	dth:	Ft		Joint Length:	Ft	
Shoulder:		Street Type:			Grade:	0			Lanes: 0		
Section Co	mments:	J F				•					
Work Date	e: 1/1/1943	Work	Type: Nev	v Construction	n - Initial	(Code: NU-IN		Is Major N	1&R: True	
Last Insp. l	Date: 9/15/2016	<u> </u>	Total	Samples: 2	.0	Survey	ed: 3				
Conditions	: PCI : 27										
Inspection	Comments:										
	mber: 101	Type:	R	A :	rea:	5000.00 SqFt	PCI:	18			
Sample Co		1) po.				4-1	1 011				
41 ALI	LIGATOR CR		L	36.00	SaFt						
	LIGATOR CR		M	716.00	•						
50 PAT	ГСНING		M	724.00	SqFt						
45 DEF	PRESSION		L	45.00	SqFt						
45 DEF	PRESSION		M	4.00	SqFt						
50 PAT	ГСHING		H	32.00	SqFt						
43 BLC	OCK CR		L	3492.00	SqFt						
52 RAV	VELING		L	4244.00	SqFt						
Sample Nu	mber: 203	Type:	R	A	rea:	5000.00 SqFt	PCI:	37			
Sample Co	mments:										
45 DEF	PRESSION		L	1.00	SqFt						
	LIGATOR CR		L	365.00							
52 RAV	VELING		L	5000.00	SqFt						
43 BLC	OCK CR		L	4635.00	SqFt						
Sample Nu	mber: 305	Type:	R	A	rea:	5000.00 SqFt	PCI:	25			
Sample Co	mments:										
50 PAT	ГСНING		M	8.00	SqFt						
41 ALI	LIGATOR CR		M	592.00	-						
43 BLC	OCK CR		L	4400.00	•						
52 RAY	VELING		T	4002.00	-						

RAVELING

L

4992.00 SqFt

52

Network:	X26			Name:	SEBASTIAN M	UNICIPAL AIRPORT	Γ	
Branch:	AP SE		Name:	SOUTHEAST AP	RON Use:	APRON	Area:	132,973 SqFt
Section:	5610	0	f 3	From: -		То: -		Last Const.: 1/1/2005
Surface:	AC	Family:	C9N59-GA-A	AP-AC Zone:		Category:		Rank: P
Area:		21,960 SqFt	Length:	200 Ft	Width:	150 Ft		
Slabs:		Slab Ler	igth:	Ft Sla	b Width:	Ft	Joint Leng	gth: Ft
Shoulder:		Street T	ype:	Gr	ade: 0		Lanes:	0
Section Co	omments:							
Work Dat	te: 1/1/2005	5 W	ork Type: Nev	Construction - Initial	C	Code: NU-IN	Is Ma	jor M&R: True
_	Date: 9/1		Totals	Samples: 5	Surveye	ed: 1		
Condition Inspection	s: PCI:							
Sample N	umber: 10	07 Ty]	pe: R	Area:	3250.00 SqFt	PCI: 87		
Sample Co	omments:							
	EPRESSION EATHERIN		L L	39.00 SqFt 3250.00 SqFt				

Network:	X26			Name:	SEBASTIAN M	UNICIPAL AIRPOI	RT	
Branch:	AP SE		Name:	SOUTHEAST AI	PRON Use:	APRON	Area:	132,973 SqFt
Section:	5615	0	f 3 F	rom: -		То: -		Last Const.: 1/1/2009
Surface:	AC	Family:	C9N59-GA-AF	P-AC Zone:		Category:		Rank: P
Area:		10,290 SqFt	Length:	105 Ft	Width:	100 Ft		
Slabs:		Slab Len	igth:	Ft Sl	ab Width:	Ft	Joint Leng	th: Ft
Shoulder:		Street Ty	ype:	Gi	rade: 0		Lanes:	0
Section Co	mments:							
Work Date	: 1/1/2009	W	ork Type: New	Construction - Initial	C	ode: NU-IN	Is Maj	or M&R: True
Last Insp.	Date: 9/1:	5/2016	TotalSa	amples: 2	Surveye	e d: 1		
Conditions	: PCI:	87						
Inspection	Comments	s :						
Sample Nu	mber: 20	9 Ty I	pe: R	Area:	5250.00 SqFt	PCI: 8	37	
Sample Co	mments:							
48 L&	T CR		L	74.00 Ft				
	ATHERING		L	5250.00 SqFt				
45 DEI	PRESSION		L	20.00 SqFt				

Network:	X26			Name:	SEBASTIAN MU	UNICIPAL AIRPO	RT	
Branch:	AP TERM	[Name:	APRON TERMIN	IAL Use:	APRON	Area:	36,190 SqFt
Section:	5705	of	2 F	rom: -		То: -		Last Const.: 1/1/2005
Surface:	AC	Family:	C9N59-GA-AF	P-AC Zone:		Category:		Rank: P
Area:	32	2,590 SqFt	Length:	200 Ft	Width:	100 Ft		
Slabs:		Slab Leng	gth:	Ft Sla	b Width:	Ft	Joint Lengtl	n: Ft
Shoulder:		Street Ty	pe:	Gr	ade: 0		Lanes:)
Section Co	mments:							
Work Date	e: 1/1/2005	Wo	ork Type: New	Construction - Initial	C	ode: NU-IN	Is Majo	r M&R: True
Last Insp.	Date: 9/15/2	2016	TotalSa	amples: 6	Surveye	e d: 1		
Conditions	s: PCI: 8	39						
Inspection	Comments:							
Sample Nu	ımber: 101	Тур	e: R	Area:	5000.00 SqFt	PCI: 8	39	
Sample Co	omments:							
48 L&	z T CR		L	76.00 Ft				
45 DEI	PRESSION		L	4.00 SqFt				
57 WE	EATHERING		L	5000.00 SqFt				

Network:	X26			Name:	SEBASTIAN MU	NICIPAL AIRPOR	Т	
Branch:	AP TEF	RM	Name:	APRON TERMINAL	Use:	APRON	Area:	36,190 SqFt
Section:	5710	0	f 2	From: -		То: -		Last Const.: 1/1/2008
Surface:	PCC	Family:	C9N59-GA-A	P-PCC Zone:		Category:		Rank: P
Area:		3,600 SqFt	Length:	60 Ft	Width:	60 Ft		
Slabs:	29	Slab Ler	ngth:	10 Ft Slab W	idth:	13 Ft	Joint Length	1: 528 Ft
Shoulder:		Street T	ype:	Grade:	0		Lanes: 0)
Section Co	omments:							
Work Dat	te: 1/1/2008	w	ork Type: New	Construction - Initial	Co	de: NU-IN	Is Major	r M&R: True
Last Insp.	Date: 9/1	5/2016	TotalS	amples: 1	Surveyed	l: 1		
Condition	s: PCI:	92						
Inspection	n Comments	s :						
Sample N	umber: 30)2 Ty j	pe: R	Area:	29.00 Slabs	PCI: 92		
Sample C	omments:							
73 SH	IRINKAGE (CR	N	1.00 Slabs				
65 JT	SEAL DMC	ì	M	29.00 Slabs				

Network:	X26			Name:	SEBA	STIAN MU	JNICIPAL AIRF	PORT	
Branch:	AP T-HA	NG	Name:	T-HANGAR APR	ON AREA	Use:	APRON	Area:	28,960 SqFt
Section:	5305	0	f 1 F	rom:			To:		Last Const.: 1/1/2003
Surface:	AC	Family:	C9N59-GA-AP	-AC Zone:			Category:		Rank: T
Area:	23	8,960 SqFt	Length:	1,000 Ft	V	Width:	20 F	t	
Slabs:		Slab Ler	ngth:	Ft Sla	b Width:		Ft	Joint Ler	ngth: Ft
Shoulder:		Street T	ype:	Gr	ade: 0			Lanes:	0
Section Co	mments:								
Work Date	e: 1/1/2003	W	ork Type: New O	Construction - Initial		Co	ode: NU-IN	Is Ma	ajor M&R: True
Last Insp.	Date: 9/15/2	2016	TotalSa	mples: 9		Surveye	d: 1		
Conditions	s: PCI:	78							
Inspection	Comments:								
Sample Nu	imber: 301	Tyl	pe: R	Area:	3000.0	00 SqFt	PCI:	78	
Sample Co	mments:								
48 L&	T CR		L	116.00 Ft					
45 DEI	PRESSION		L	36.00 SqFt					
57 WE	ATHERING		L	3000.00 SqFt					

Netwo	·k: X26				Nai	ne: SE	BASTIAN M	UNICIPAL AIRI	PORT			
Branch	: AP W		N	ame:	WEST APRO	N	Use:	APRON	A	rea: 1	86,460 SqFt	
Section	: 5105	of	3	Fron	ı: -			То: -			Last Const.: 1/	/1/2005
Surface	e: AC	Family:	C9N5	9-GA-AP-AC	Zor	ie:		Category:			Rank: P	
Area:	133,92	25 SqFt	I	ength:	1,200	Ft	Width:	100 F	₹t			
Slabs:		Slab Leng	gth:		Ft	Slab Width:	:	Ft		Joint Length:	Ft	
Should	er:	Street Typ	pe:			Grade: ()			Lanes: 0		
Section	Comments:											
Work l	Date: 1/1/1943	Wo	rk Typ	e: BUILT			C	ode: IMPORT	ED	Is Major I	M&R: True	
Work l	Date: 1/1/2005	Wo	rk Typ	e: Complete	Reconstructi	on - AC	C	ode: CR-AC		Is Major I	M&R: True	
Last In	sp. Date: 9/15/2010	 5		TotalSamp	les: 24		Surveye	ed: 3				
Condit	ions: PCI: 84											
Inspect	tion Comments:											
Sample	Number: 323	Туре	e:	R	Area:	550	00.00 SqFt	PCI:	88			
Sample	e Comments:											
45	DEPRESSION		L		14.00 SqFt							
48	L & T CR		L		50.00 Ft							
57	WEATHERING		L	55	00.00 SqFt							
Sample	Number: 428	Туре	e:	R	Area:	550	00.00 SqFt	PCI:	83			
Sample	e Comments:											
48	L & T CR		L		96.00 Ft							
52	RAVELING		L	2	75.00 SqFt							
57	WEATHERING		L		25.00 SqFt							
Sample	Number: 431	Туре	e:	R	Area:	550	00.00 SqFt	PCI:	80			
Sample	e Comments:											
48	L & T CR		L	1	61.00 Ft							
40												
	RAVELING		L	2	75.00 SqFt							

Network: X26		Name:	SEBASTIAN MU	UNICIPAL AIRPOR	Γ	
Branch: AP W	Name:	WEST APRON	Use:	APRON	Area:	186,460 SqFt
Section: 5115	of 3	From: -		То: -		Last Const.: 1/1/1943
Surface: AC	Family: C9N59-GA-A	AP-AC Zone:		Category:		Rank: P
Area: 31,900) SqFt Length:	290 Ft	Width:	50 Ft		
Slabs:	Slab Length:	Ft Slab V	Vidth:	Ft	Joint Length	: Ft
Shoulder:	Street Type:	Grade	: 0		Lanes: 0	
Section Comments:						
Work Date: 1/1/1943	Work Type: Nev	w Construction - Initial	C	ode: NU-IN	Is Major	M&R: True
Work Dute: 1/1/19 19	Work Type. New	w Construction Initial	C	oue. No h	15 Major	Truc
		Samples: 6	Surveye		Is Major	1140
Last Insp. Date: 9/15/2016 Conditions: PCI: 15					is Major	11444
Last Insp. Date: 9/15/2016					is major	THE THE
Last Insp. Date: 9/15/2016 Conditions: PCI: 15					· · · · · · · · · · · · · · · · · · ·	7,40
Last Insp. Date: 9/15/2016 Conditions: PCI: 15 Inspection Comments: Sample Number: 435	Total	Samples: 6	Surveye	e d: 1	· · · · · · · · · · · · · · · · · · ·	
Last Insp. Date: 9/15/2016 Conditions: PCI: 15 Inspection Comments: Sample Number: 435 Sample Comments:	Total Type: R	Samples: 6 Area:	Surveye	e d: 1	· · · · · · · · · · · · · · · · · · ·	
Last Insp. Date: 9/15/2016 Conditions: PCI: 15 Inspection Comments: Sample Number: 435 Sample Comments: 41 ALLIGATOR CR	Total Type: R	Samples: 6 Area: 106.00 SqFt	Surveye	e d: 1	· · · · · · · · · · · · · · · · · · ·	
Last Insp. Date: 9/15/2016 Conditions: PCI: 15 Inspection Comments: Sample Number: 435 Sample Comments: 41 ALLIGATOR CR 45 DEPRESSION	Type: R L L	Area: 106.00 SqFt 24.00 SqFt	Surveye	e d: 1	· · · · · · · · · · · · · · · · · · ·	
Last Insp. Date: 9/15/2016 Conditions: PCI: 15 Inspection Comments: Sample Number: 435 Sample Comments: 41 ALLIGATOR CR 45 DEPRESSION 41 ALLIGATOR CR	Total Type: R	Area: 106.00 SqFt 24.00 SqFt 18.00 SqFt	Surveye	e d: 1	· · · · · · · · · · · · · · · · · · ·	
Last Insp. Date: 9/15/2016 Conditions: PCI: 15 Inspection Comments: Sample Number: 435 Sample Comments: 41 ALLIGATOR CR 45 DEPRESSION 41 ALLIGATOR CR 41 ALLIGATOR CR	Type: R L L L H	Area: 106.00 SqFt 24.00 SqFt 18.00 SqFt 575.00 SqFt	Surveye	e d: 1	· · · · · · · · · · · · · · · · · · ·	
Last Insp. Date: 9/15/2016 Conditions: PCI: 15 Inspection Comments: Sample Number: 435 Sample Comments: 41 ALLIGATOR CR 45 DEPRESSION 41 ALLIGATOR CR 41 ALLIGATOR CR	Type: R L L H M	Area: 106.00 SqFt 24.00 SqFt 18.00 SqFt 575.00 SqFt 30.00 SqFt	Surveye	e d: 1	· · · · · · · · · · · · · · · · · · ·	
Last Insp. Date: 9/15/2016 Conditions: PCI: 15 Inspection Comments: Sample Number: 435 Sample Comments: 41 ALLIGATOR CR 45 DEPRESSION 41 ALLIGATOR CR 41 ALLIGATOR CR 53 RUTTING	Type: R L L H M L	Area: 106.00 SqFt 24.00 SqFt 18.00 SqFt 575.00 SqFt	Surveye	e d: 1	· · · · · · · · · · · · · · · · · · ·	

Network:	X26				Name:	SEB	ASTIAN MU	UNICIPAL A	AIRPORT			
Branch:	AP W		Name	WEST A	PRON		Use:	APRON	Area:	186	5,460 SqFt	
Section:	5120	0	of 3	From:				To:			Last Const.	: 1/1/2004
Surface:	AC	Family:	C9N59-GA	-AP-AC	Zone:			Catego	ory:		Rank: P	
Area:		20,635 SqFt	Leng	th:	400 Ft		Width:	4	50 Ft			
Slabs:		Slab Ler	ngth:	Ft	Sl	ab Width:		Ft	J	oint Length:]	Ft
Shoulder:		Street T	ype:		G	rade: 0			I	Lanes: 0		
Section Co	omments:											
Work Dat	e: 1/1/2000) W	ork Type: N	lew Construction	- Initial		C	ode: NU-II	N	Is Major M	&R: True	
Work Dat	e: 1/1/2004	4 W	ork Type: N	lew Construction	- AC		C	ode: NC-A	.C	Is Major M	&R: True	
Last Insp.	Date: 9/1	5/2016	Tot	alSamples: 4			Surveye	d: 1				
Condition	s: PCI:	81										
Inspection	Comment	s:										
Sample Nu	umber: 42	20 Ty]	pe: R	Ar	ea:	6105	5.00 SqFt	P	CI: 81			
Sample Co	omments:											
48 L &	& T CR		L	120.00 F	⁷ t							
45 DE	PRESSION	ſ	L	24.00 S	qFt							
52 RA	VELING		L	124.00 S	qFt							
57 WE	EATHERIN	G	L	5981.00 S	GqFt .							

	rk: X26				Nan				CIPAL AIRI	OKI					
Branch	RW 10-28		Name:	Runway	y 10-28	3	Use	e: RU	JNWAY		Area:		240,000	SqFt	
Section		of 4		From: -					To: -						: 1/1/200
Surfac		•	9N59-GA-l		Zon				Category:				Ran	k: P	
Area:	134,51	12 SqFt	Length		1,800 F		Width:		75 F	t					
Slabs:		Slab Length:		Ft		Slab Width:			Ft			nt Length			Ft
Should		Street Type:				Grade: 0					La	nes: 0			
Section	Comments:														
Work 1	Date: 1/1/1943	Work	Type: BU	ILT				Code:	IMPORTI	ED		Is Major	· M&R:	True	
Work 1	Date: 1/1/2000	Work	Type: Ne	w Construction	n - Initi	ial		Code:	NU-IN			Is Major	·M&R:	True	
Work 1	Date: 1/1/2004	Work	Type: Ne	w Construction	n - AC			Code:	NC-AC			Is Major	·M&R:	True	
Last In	sp. Date: 9/15/2016	6	Total	Samples: 3	36		Surv	eyed:	7						
Condit	ions: PCI : 80														
Inspec	tion Comments:														
Sample	Number: 502	Type:	R	A	rea:	375	0.00 SqFt		PCI:	78					
Sample	e Comments:														
48	L & T CR		L	144.00	Ft										
52	RAVELING		L	100.00											
	WEATHERING		L	3650.00											
_	Number: 508	Type:	R	A	rea:	375	0.00 SqFt		PCI:	83					
Sample	e Comments:														
	L & T CR		L	54.00											
	RAVELING WEATHERING		L L	188.00	_										
		Т		3562.00		275	0.00 8-E+		PCI:	7.4					
_	e Number: 514 e Comments:	Type:	R	A	rea:	3/3	0.00 SqFt		PCI:	/4					
_			_	-1-00	_										
	L & T CR RAVELING		L L	215.00 188.00											
	WEATHERING		L	3562.00											
Sample	Number: 518	Type:	R		rea:	375	0.00 SqFt		PCI:	85					
_	e Comments:	**					•								
-	L & T CR		L	106.00	Et										
	WEATHERING		L	3750.00											
	Number: 522	Type:	R		rea:	3750	0.00 SqFt		PCI:	83					
_	e Comments:						•								
48	L & T CR		L	140.00	Ft										
	WEATHERING		L	3750.00											
_	Number: 526	Type:	R	A	rea:	375	0.00 SqFt		PCI:	80					
Sample	e Comments:														
	L & T CR		L L	195.00 3750.00											
	WEATHERING Number: 534	Type:	R	3750.00	sqrt rea:	375	0.00 SqFt		PCI:	78					
_	e Comments:	Type:	K	A	ıca.	3731	o.oo bqrt		1 (1;	70					
_	L & T CR		L	153.00	Ft										
	RAVELING		L	100.00											
	WEATHERING		L	3650.00											

110011011					1100							
Branch:	RW 10-28		Na	me: R	Lunway 10-2	28	Use:	RUNWAY	Area:	240	0,000 SqFt	
Section:	6310	(of 4	From:	-			То: -			Last Const.:	1/1/2004
Surface:	: AC	Family:	C9N59	-GA-RW-AC	Zo	ne:		Category:			Rank: P	
Area:	44	4,362 SqFt	L	ength:	575	Ft	Width:	75 Ft				
Slabs:		Slab Le	ngth:		Ft	Slab Width:		Ft	Joint 1	Length:	Ft	
Shoulde	r:	Street T	ype:			Grade: 0			Lanes	: 0		
Section (Comments:											
Work D	ate: 1/1/1943	W	ork Typ	e: BUILT			C	Code: IMPORTED	Is	Major M	&R: True	
Work D	ate: 1/1/2000	W	ork Typ	e: New Const	ruction - Ini	itial	C	Code: NU-IN	Is	Major M	&R: True	
Work D	ate: 1/1/2004	W	ork Typ	e: New Const	ruction - AC		C	Code: NC-AC	Is	Major M	&R: True	
Conditio				TotalSample	es: 12		Surveye	ed: 2				
	on Comments: Number: 542	Tw	pe:	R	Area:	3750	0.00 SqFt	PCI: 7	70			
•	Comments:	1 y	pe.	K	Alea.	3730	0.00 Sqr1	rci.	19			
48 L	. & T CR		L	13	5.00 Ft							
	RAVELING		L		0.00 SqFt							
	WEATHERING		L		0.00 SqFt							
Sample 1	Number: 548	Ту	pe:	R	Area:	3750	0.00 SqFt	PCI: 8	32			
Sample	Comments:											
48 L	& T CR		L	15	8.00 Ft							
57 V	WEATHERING		L	375	0.00 SqFt							

Name:

X26

Network:

SEBASTIAN MUNICIPAL AIRPORT

Netwo	rk: X26			Name:	SEBASTIAN M	UNICIPAL AIRPO	RT		
Brancl	n: RW 10-28		Name:	Runway 10-28	Use:	RUNWAY	Area:	240,000 SqFt	
Section	1: 6315	of	4	From: -		То: -		Last Const.: 1/1	1/2004
Surfac	e: AC	Family:	C9N59-GA-l	RW-AC Zone:		Category:		Rank: P	
Area:	45,	750 SqFt	Length	: 613 Ft	Width:	75 Ft			
Slabs:		Slab Leng	gth:	Ft Sla	b Width:	Ft	Joint L	Length: Ft	
Should	ler:	Street Ty	pe:	Gr	ade: 0		Lanes:	0	
Section	Comments:								
Work 1	Date: 1/1/2000	Wo	rk Type: Ne	w Construction - Initial	C	Code: NU-IN	Is l	Major M&R: True	
Work	Date: 1/1/2004	Wo	rk Type: Ne	w Construction - AC	C	Code: NC-AC	Is l	Major M&R: True	
Last Ir	nsp. Date: 9/15/20	16	Total	Samples: 12	Surveyo	ed: 2			
Condit	tions: PCI: 87	7							
Inspec	tion Comments:								
Sample	e Number: 554	Туре	: R	Area:	3750.00 SqFt	PCI:	84		
Sample	e Comments:								
48	L & T CR		L	59.00 Ft					
52	RAVELING		L	100.00 SqFt					
57	WEATHERING		L	3650.00 SqFt					
Sample	e Number: 560	Туре	e: R	Area:	3750.00 SqFt	PCI:	90		
Sample	e Comments:								
48	L & T CR		L	27.00 Ft					
57	WEATHERING		L	3750.00 SqFt					

Network:	X26				Name	e: SEE	BASTIAN M	UNICIPAL AIRPO	RT		
Branch:	RW 10-28		Name:	Runwa	ay 10-28		Use:	RUNWAY	Area:	240,00	0 SqFt
Section:	6320	of	4	From:	-			То: -		Las	st Const.: 1/1/20
Surface:	AC	Family:	C9N59-GA-F	RW-AC	Zone	:		Category:		Ra	nk: P
Area:	15,37	6 SqFt	Length	:	213 Ft		Width:	75 Ft			
Slabs:		Slab Leng	gth:	Ft		Slab Width:		Ft	Joint Le	ength:	Ft
Shoulder:		Street Ty	pe:			Grade: 0			Lanes:	0	
Section Co	omments:										
Work Dat	te: 1/1/1943	Wo	rk Type: Nev	w Construction	on - Initia	al	C	ode: NU-IN	Is N	Iajor M&R	: True
Work Dat	te: 1/1/2004	Wo	rk Type: Nev	w Construction	on - AC		C	ode: NC-AC	Is N	Iajor M&R	: True
Last Insp.	Date: 9/15/2016	5	Total	Samples:	4		Surveye	ed: 1			
Condition	as: PCI : 82										
Inspection	n Comments:										
Sample Ni	umber: 537	Туре	e: R		Area:	3750	0.00 SqFt	PCI: 8	32		
Sample Co	omments:										
48 L &	& T CR		L	130.00	Ft						
	EATHERING		L	3750.00	-						
45 DE	EPRESSION		L	10.00	SqFt						

Netwo	ork: X26				Name	e SEI	BASTIAN M	LINIC	IPAI AIRP	ORT			
Branch			Name:	RIIN	WAY 5-2		Use:		JNWAY		rea: 2	.95,188 SqFt	
						.3	USE.				rea:		1/1/2002
Section		of 1			- Zono				To: -			Last Const.:	1/1/2003
Surfac		•	9N59-GA-		Zone		****: J4h.	,	Category:			Rank: P	
Area:	295,188 S	-	Lengtl		2,938 Ft		Width:		100 Ft		T ! 4 I on othe	E	
Slabs:		Slab Length:		Ft		Slab Width: Grade: 0		1	Ft		Joint Length:	Ft	
Should	der: S n Comments:	Street Type:				Grade: 0					Lanes: 0		
Work	Date: 1/1/1943	Work '	Type: BU	UILT			C	ode:	IMPORTE	D	Is Major I	M&R: True	
	Date: 1/1/2003	Work '		IILL and OVE					ML-OV		Is Major I	M&R: True	
	nsp. Date: 9/15/2016		Tota	alSamples:	78		Surveye	e d: 1	.6				
Condit													
Inspec	ction Comments:												
Sample	le Number: 303	Type:	R		Area:	3750	0.00 SqFt	_	PCI:	71			
Sampl	le Comments:												
48	L & T CR		L	275.00	, Ft								
52	RAVELING		L	125.00	SqFt								
	WEATHERING		L	3625.00		275							
	le Number: 307	Type:	R	P	Area:	3750	0.00 SqFt		PCI:	71			
Sample	le Comments:												
	L & T CR		L	267.00									
52 57	RAVELING WEATHERING		L L	188.00 3562.00									
	le Number: 314	Type:	R		Area:	375	0.00 SqFt		PCI:	77			
_	le Comments:	1 у ре.	K	=-	Alta.	0100	J.00 bq		1 02.	14			
_				302.00									
	L & T CR RAVELING		L L	302.00 38.00) Ft) SqFt								
	WEATHERING		L L	3712.00	-								
	le Number: 317	Type:	R		Area:	3750	0.00 SqFt		PCI:	79			
_	le Comments:												
-	L & T CR		L	182.00	ı Et								
	RAVELING		L L) SqFt								
57	WEATHERING		L	3732.00									
	le Number: 321	Type:	R		Area:	3750	0.00 SqFt		PCI:	76			
Sampl	le Comments:												
	L & T CR		L	233.00									
52	RAVELING		L	15.00) SqFt								
	WEATHERING		L	3735.00		275							
-	le Number: 328 le Comments:	Type:	R	P	Area:	3/30	60.00 SqFt		PCI:	76			
	L & T CR		L	212.00									
52	RAVELING		L		SqFt								
	WEATHERING		L	3707.00		275							
	le Number: 335 le Comments:	Type:	R	r	Area:	3130	60.00 SqFt		PCI:	74			
48	L & T CR		L	219.00) Ft								
52	RAVELING		L	100.00) SqFt								
	WEATHERING		L	3650.00									
_	le Number: 339 le Comments:	Type:	R	A	Area:	3750	0.00 SqFt		PCI:	75			
_				220.00	_								
	L & T CR RAVELING		L L	220.00 58.00) Ft) SqFt							T 46	
	WEATHERING		L L	3692.00								E-16	

Samp	ole Number: 342	Type:	R	Area:	3750.00 SqFt	PCI:	76
Samp	ole Comments:						
48	L & T CR	I		173.00 Ft			
52	RAVELING	I		125.00 SqFt			
57	WEATHERING	I		3625.00 SqFt			
	ole Number: 349	Type:	R	Area:	3750.00 SqFt	PCI:	83
_	ole Comments:	Type.	K	Alta.	3730.00 Sqf t	101.	65
Samp	ore Comments:						
48	L & T CR	I		72.00 Ft			
52	RAVELING	I		188.00 SqFt			
57	WEATHERING	I	_	3562.00 SqFt			
Samp	ole Number: 358	Type:	R	Area:	3755.00 SqFt	PCI:	80
Samp	ole Comments:						
48	L & T CR	Ι	_	117.00 Ft			
52	RAVELING	I		188.00 SqFt			
57	WEATHERING	I		3567.00 SqFt			
Samp	ole Number: 363	Type:	R	Area:	3750.00 SqFt	PCI:	75
_	ole Comments:	• •			•		
48	L & T CR	I		234.00 Ft			
52	RAVELING	I		44.00 SqFt			
57	WEATHERING	I		3706.00 SqFt			
	ole Number: 367	Type:	R	Area:	3750.00 SqFt	PCI:	70
_		Type.	K	Alea.	3730.00 SqFt	rcı.	17
Samp	ole Comments:						
48	L & T CR	I		164.00 Ft			
52	RAVELING	I		42.00 SqFt			
57	WEATHERING	I		3708.00 SqFt			
Samp	ole Number: 370	Type:	R	Area:	3750.00 SqFt	PCI:	75
Samp	ole Comments:						
48	L & T CR	I	,	199.00 Ft			
52	RAVELING	I		250.00 SqFt			
57	WEATHERING	I		3500.00 SqFt			
Samp	ole Number: 377	Type:	R	Area:	3750.00 SqFt	PCI:	72
Samp	ole Comments:	• •			•		
		T		244.00 Ft			
48 52	L & T CR RAVELING	I I		244.00 Ft 100.00 SqFt			
57	WEATHERING	I		3650.00 SqFt			
	ole Number: 379		R	Area:	5625.00 SqFt	PCI:	70
_		Type:	K	Area:	3023.00 SqFt	rci:	70
Samp	ole Comments:						
48	L & T CR	I	_	337.00 Ft			
50	PATCHING	I		35.00 SqFt			
52	RAVELING	I		385.00 SqFt			
57	WEATHERING	T	_	5205.00 SqFt			

Networl	k: X26												
Branch:	: TW A			Name:	TAXIWAY	ALPHA	Use:	TAXIWAY	Arc	ea:	141,	614 SqFt	t
Section:	: 405		of 4	1	From: -			То: -			I	Last Con	st.: 1/1/200
Surface	: AAC	Fam		9N59-GA PC	-TW-AAC- Z	one:		Category:			F	Rank: P	•
Area:		57,743 SqF	₹t	Lengt	h: 1,700) Ft	Width:	35 Ft					
Slabs:		Sla	b Length	:	Ft	Slab Widt	h:	Ft		Joint Len	gth:		Ft
Shoulde	er:	Str	eet Type:	:		Grade:	0			Lanes:	0		
Section	Comments:												
Work D	Date: 1/1/1943	3	Work	Type: Bl	UILT		(Code: IMPORTE	ED	Is Ma	jor M&	R: True	;
Work D	Date: 1/1/2005	5	Work	Type: O	verlay - AC Structu	ral	(Code: OL-AS		Is Ma	ijor M&	R: True	;
Last Ins	sp. Date: 9/1	5/2016		Tota	alSamples: 16		Survey	ed: 3					
	sp. Date: 9/1			Tota	alSamples: 16		Survey	ed: 3					
Conditio	ons: PCI:	81		Tota	alSamples: 16		Survey	ed: 3					
Condition Inspecti	ons: PCI:	81 s:											
Condition Inspecti	ons: PCI:	81 s:	Type:	Tota R	Area:	3	Survey 500.00 SqFt	ed: 3 PCI:	85				
Condition Inspection Sample	ons: PCI:	81 s:	Type:			3			85				
Condition Inspecti Sample Sample	ons: PCI: ion Comments Number: 10	81 s:	Type:			3			85				
Condition Inspection Sample Sample 48 I	Number: 10	81 s:	Type:	R	Area:				85				
Condition Inspecti Sample Sample 48 I 57 V	ons: PCI: ion Comments: Number: 10 Comments:	81 ss: D2	Type:	R	Area: 109.00 Ft	't							
Condition Inspecti Sample Sample 48 I 57 V Sample	ons: PCI: ion Comments Number: 10 Comments: L & T CR WEATHERIN	81 ss: D2		R L L	Area: 109.00 Ft 3500.00 SqF	't	500.00 SqFt	PCI:					
Condition Inspection Sample Sample 48 I 57 V Sample Sample	ons: PCI: ion Comments Number: 10 Comments: L & T CR WEATHERIN Number: 10	81 ss: D2		R L L R	Area: 109.00 Ft 3500.00 SqF	't	500.00 SqFt	PCI:					
Condition Inspection Sample Sample 48 I Sample Sample Sample 48 I Sample 48 I	ons: PCI: ion Comments Number: 10 Comments: L & T CR WEATHERIN Number: 10 Comments:	81 ss:)22 GG		R L L	Area: 109.00 Ft 3500.00 SqF Area:	3	500.00 SqFt	PCI:					
Condition Inspection Sample Sample 48 I Sample Sample Sample 48 I 57 V	ons: PCI: ion Comments: Number: 10 Comments: L & T CR WEATHERIN Number: 10 Comments: L & T CR	81 ss:		R L L R	Area: 109.00 Ft 3500.00 SqF Area:	't 3	500.00 SqFt	PCI:	79				
Condition Inspection Sample Sample 48 If Sample Sample 48 If Sample 57 V Sample	ons: PCI: ion Comments: Number: 10 Comments: L & T CR WEATHERIN Number: 10 Comments: L & T CR	81 ss:	Туре:	R L L L L	109.00 Ft 3500.00 SqF Area: 194.00 Ft 3500.00 SqF	't 3	500.00 SqFt 500.00 SqFt	PCI:	79				
Condition Inspection Sample Sample 48 I 57 V Sample Sample 48 I 57 V Sample Sample	ons: PCI: ion Comments Number: 10 Comments: L & T CR WEATHERIN Number: 10 Comments: L & T CR WEATHERIN L & T CR WEATHERIN	81 ss:	Туре:	R L L L L	109.00 Ft 3500.00 SqF Area: 194.00 Ft 3500.00 SqF	't 3	500.00 SqFt 500.00 SqFt	PCI:	79				

Network:	X26			Name:	SEBASTIAN MU	UNICIPAL AIRPORT	Γ	
Branch:	TW A		Name:	TAXIWAY ALPHA	Use:	TAXIWAY	Area:	141,614 SqFt
Section:	415	0	f 4	From: -		То: -		Last Const.: 1/1/2005
Surface:	AC	Family:	C9N59-GA-T	W-AC Zone:		Category:		Rank: P
Area:		16,504 SqFt	Length:	410 Ft	Width:	40 Ft		
Slabs:		Slab Len	ngth:	Ft Slab V	Vidth:	Ft	Joint Leng	gth: Ft
Shoulder:		Street T	ype:	Grade	e: 0		Lanes:	0
Section Co	omments:							
Work Dat	te: 1/1/2005	5 W	ork Type: New	Construction - Initial	C	ode: NU-IN	Is Ma	jor M&R: True
Last Insp.	Date: 9/1	5/2016	TotalS	amples: 4	Surveye	e d: 1		
Condition	s: PCI:	81						
Inspection	n Comments	s:						
Sample Nu	umber: 20)3 Ty]	pe: R	Area:	3634.00 SqFt	PCI: 81		
Sample Co	omments:							
48 L &	& T CR		L	177.00 Ft				
57 WE	EATHERIN	G	L	3634.00 SqFt				

Network:	X26				Na	me: SE	BASTIAN MI	UNICIPAL AIRI	PORT			
Branch:	TW A		Nai	me:	TAXIWAY	ALPHA	Use:	TAXIWAY	Area:	141	,614 SqFt	
Section:	420	(of 4	Fro	m: -			То: -			Last Const.:	1/1/2004
Surface:	AC	Family:	C9N59-	GA-TW-A	AC Zo	ne:		Category:			Rank: P	
Area:		60,300 SqFt	Le	ength:	1,500	Ft	Width:	50 F	⁷ t			
Slabs:		Slab Le	ngth:		Ft	Slab Width:		Ft	Joint	Length:	F	't
Shoulder:		Street T	ype:			Grade: 0)		Lanes	s: 0		
Section Co	mments:											
Work Date	: 1/1/2000	W	ork Type	: New Co	nstruction - In	itial	C	ode: NU-IN	Is	s Major M&	&R: True	
Work Date	: 1/1/2004	W	ork Type	: New Co	nstruction - A	С	C	ode: NC-AC	Is	s Major M&	&R: True	
Last Insp.	Date: 9/1:	5/2016	ı	TotalSam	ples: 15		Surveye	ed: 2				
Conditions	: PCI:	83										
Inspection	Comments	:										
Sample Nu	mber: 52	6 Ty	pe:	R	Area:	400	0.00 SqFt	PCI:	80			
Sample Co	mments:											
48 L &	TCR		L		210.00 Ft							
57 WE	ATHERING	3	L	4	000.00 SqFt							
Sample Nu	mber: 53	3 Ty	pe:	R	Area:	400	00.00 SqFt	PCI:	86			
Sample Co	mments:											
48 L&	TCR		L		105.00 Ft							

Network:	X26			Na	me: SEI	BASTIAN MU	UNICIPAL AIRPO	RT	
Branch:	TW A		Name:	TAXIWAY	ALPHA	Use:	TAXIWAY	Area:	141,614 SqFt
Section:	425	0	f 4	From: -			То: -		Last Const.: 1/1/200
Surface:	AC	Family:	C9N59-GA	-TW-AC Z o	ne:		Category:		Rank: P
Area:		7,067 SqFt	Lengt	h: 180	Ft	Width:	35 Ft		
Slabs:		Slab Ler	ngth:	Ft	Slab Width:		Ft	Joint Leng	th: Ft
Shoulder:		Street T	ype:		Grade: 0			Lanes:	0
Section Co	mments:								
Work Date	: 1/1/1943	W	ork Type: No	ew Construction - In	itial	C	ode: NU-IN	Is Maj	or M&R: True
Work Date	: 1/1/2004	W	ork Type: No	ew Construction		C	ode: HI-AG	Is Maj	or M&R: True
Last Insp.	Date: 9/15	5/2016	Tota	alSamples: 2		Surveye	e d: 1		
Conditions	: PCI:	54							
Inspection	Comments	:							
Sample Nu	mber: 99	Туј	pe: R	Area:	350	0.00 SqFt	PCI:	54	
Sample Co	mments:								
48 L&	T CR		L	384.00 Ft					
45 DEI	PRESSION		L	480.00 SqFt					
52 RA	VELING		L	250.00 SqFt					
57 WE.	ATHERING	1	L	3250.00 SqFt					

Networ	k: X26			Nai	me:	SEBASTIAN M	IUNICIPAL AIRP	ORT		
Branch	: TW B		Name:	TAXIWAY I	BRAVO	Use:	TAXIWAY	Area:	1	19,314 SqFt
Section	: 610	of	1	From:			To:			Last Const.: 1/1/2004
Surface	: AC	Family: (C9N59-GA-7	ΓW-AC Z οι	ne:		Category:			Rank: P
Area:	119,3	14 SqFt	Length	: 4,770	Ft	Width:	25 Ft			
Slabs:		Slab Lengt	h:	Ft	Slab Wid	th:	Ft	J	Joint Length:	Ft
Shoulde	er:	Street Type	e:		Grade:	0		1	Lanes: 0	
Section	Comments:									
Work D	Date: 1/1/2000	Wor	k Type: Nev	w Construction - Ini	tial		Code: NU-IN		Is Major N	M&R: True
Work D	Date: 1/1/2004	Worl	k Type: Nev	w Construction - AC	2	(Code: NC-AC		Is Major N	M&R: True
Last Ins	sp. Date: 9/15/201	.6	Total	Samples: 32		Survey	ved: 4			
Conditi	ons: PCI : 77									
Inspecti	ion Comments:									
Sample	Number: 105	Type:	R	Area:		3500.00 SqFt	PCI:	66		
Sample	Comments:									
48 I	L & T CR		L	365.00 Ft						
	RAVELING		L	175.00 SqFt						
57	WEATHERING		L	3325.00 SqFt						
Sample	Number: 118	Type:	R	Area:	:	3500.00 SqFt	PCI:	77		
Sample	Comments:									
48 I	L & T CR		L	147.00 Ft						
	RAVELING		L	100.00 SqFt						
57 Y	WEATHERING		L	3400.00 SqFt						
Sample	Number: 203	Type:	R	Area:		3500.00 SqFt	PCI:	83		
Sample	Comments:									
48 I	L & T CR		L	137.00 Ft						
57 Y	WEATHERING		L	3500.00 SqFt						
Sample	Number: 207	Type:	R	Area:		3500.00 SqFt	PCI:	84		
Sample	Comments:									
42 1	BLEEDING		N	12.00 SqFt						
48 I	L & T CR		L	88.00 Ft						

WEATHERING

57

L

3500.00 SqFt

Network: X26		Name:	SEBASTIAN MU	UNICIPAL AIRPORT		
Branch: TW C	Name:	TAXIWAY CHAI	RLIE Use:	TAXIWAY	Area:	62,444 SqFt
Section: 305	of 2	From: -		То: -		Last Const.: 1/1/1943
Surface: AC F	amily: C9N59-GA-T	W-AC Zone:		Category:		Rank: P
Area: 51,193	SqFt Length:	1,020 Ft	Width:	50 Ft		
Slabs:	Slab Length:	Ft Sla	b Width:	Ft	Joint Length:	Ft
Shoulder:	Street Type:	Gr	ade: 0		Lanes: 0	
Section Comments:						
Work Date: 1/1/1943	Work Type: BUII	LT	C	ode: IMPORTED	Is Major N	M&R: True
Last Insp. Date: 9/15/2016	TotalS	amples: 10	Surveye	d: 2		
Conditions: PCI: 13						
Inspection Comments:						
Sample Number: 300	Type: R	Area:	5671.00 SqFt	PCI: 11		
Sample Comments:						
52 RAVELING	M	1070.00 SqFt				
50 PATCHING	Н	323.00 SqFt				
53 RUTTING	L	298.00 SqFt				
41 ALLIGATOR CR	M	1872.00 SqFt				
43 BLOCK CR	M	3476.00 SqFt				
45 DEPRESSION	L	68.00 SqFt				
52 RAVELING	L	4278.00 SqFt				
Sample Number: 305	Type: R	Area:	5000.00 SqFt	PCI: 15		
Sample Comments:						
41 ALLIGATOR CR	M	940.00 SqFt				
45 DEPRESSION	L	24.00 SqFt				
53 RUTTING	L	140.00 SqFt				
43 BLOCK CR	M	4060.00 SqFt				
52 RAVELING	L	5000.00 SqFt				

Network:	X26			Nan	ne: SEB.	ASTIAN M	UNICIPAL AIRPOI	RT	
Branch:	TW C		Name:	TAXIWAY C	HARLIE	Use:	TAXIWAY	Area:	62,444 SqFt
Section:	306	0	f 2	From: -			То: -		Last Const.: 1/1/1943
Surface:	AC	Family:	C9N59-GA	-TW-AC Zon	e:		Category:		Rank: P
Area:		11,251 SqFt	Lengt	h: 120 H	-t	Width:	75 Ft		
Slabs:		Slab Ler	ngth:	Ft	Slab Width:		Ft	Joint Len	ngth: Ft
Shoulder:		Street T	ype:		Grade: 0			Lanes:	0
Section Co	mments:								
Work Date	e: 1/1/1943	W	ork Type: B	UILT		C	ode: IMPORTED	Is Ma	ajor M&R: True
Last Insp. 1	Date: 9/15	5/2016	Tota	alSamples: 2		Surveye	e d: 1		
Conditions	s: PCI:	16							
Inspection	Comments	:							
Sample Nu	imber: 10	1 Ty j	pe: R	Area:	4339	.00 SqFt	PCI: 1	6	
Sample Co	omments:								
45 DEI	PRESSION		L	21.00 SqFt					
41 ALI	LIGATOR C	CR	M	1135.00 SqFt					
	VELING		L	4339.00 SqFt					
43 BLC	OCK CR		M	3204.00 SqFt					

Branch:	TW CONN		N	ame:	TAXIWAY C	ONNECTOR	Use:	TAXIWAY	A	rea:	23,6	537 SqFt	
Section:	515	O	f 1	From	1:			To:			L	ast Cons	st.: 1/1/20
Surface:	AC	Family:	C9N5	9-GA-TW-AC	C Zon	e:		Category	:		R	ank: P	
Area:	23,	637 SqFt]	Length:	750 F	⁷ t	Width:	30	Ft				
Slabs:		Slab Len	ngth:		Ft	Slab Width:		Ft		Joint Len	igth:		Ft
Shoulder	:	Street Ty	ype:			Grade: 0				Lanes:	0		
Section C	Comments:												
Work Da	ite: 1/1/2000	W	ork Typ	pe: New Cons	struction - Init	ial	C	ode: NU-IN		Is Ma	ajor M&	R: True	:
Work Da	ite: 1/1/2000	W	ork Typ	pe: New Cons	struction - Init	ial	C	ode: NU-IN		Is Ma	ajor M&	R: True	;
Work Da	ite: 1/1/2004	W	·	N. C.				ada. NC AC		To Ma	. 270	D T	
	1/1/2001	• • • • • • • • • • • • • • • • • • • •	ork 1y	pe: New Cons	struction - AC		C	ode: NC-AC		IS IVI	ajor M&	R: True	;
	Date: 9/15/20		ork 1yj	TotalSampl			Surveye			IS IVI	ajor M&	R: True	
Last Insp	Date: 9/15/20	016	ork 1yj	•						IS IVI	ajor M&	R: True	
Last Insp	D. Date: 9/15/20 ns: PCI: 75	016	ork 1yj	•						IS MI	ajor M&	K: True	
Last Insp Condition	o. Date: 9/15/20 ns: PCI: 75 on Comments:	016		TotalSampl	les: 5		Surveye	ed: 2		IS IVI	ajor M&	R: True	
Last Insp Condition	D. Date: 9/15/20 ns: PCI: 75	016		•				ed: 2	: 72	IS IVI	ajor M&	R: True	
Last Insp Condition Inspection Sample N	o. Date: 9/15/20 ns: PCI: 75 on Comments:	016		TotalSampl	les: 5		Surveye	ed: 2	: 72	IS IVI	ajor M&	K: True	
Last Insp Condition Inspection Sample N Sample C	D. Date: 9/15/20 ns: PCI: 75 nn Comments: Number: 100	016		TotalSampl	les: 5		Surveye	ed: 2	: 72	IS IVI	ajor M&	K: True	
Last Insp Condition Inspection Sample N Sample C	o. Date: 9/15/20 ns: PCI: 75 on Comments: Number: 100 Comments:	016	pe:	TotalSampl	Area:		Surveye	ed: 2	: 72	IS IVI	ajor M&	K: True	
Last Insp Condition Inspection Sample N Sample C 45 DI 48 L	o. Date: 9/15/20 ns: PCI: 75 on Comments: Number: 100 Comments: EPRESSION	016	pe:	R 2	Area: 75.00 SqFt 18.00 Ft		Surveye	ed: 2	: 72	IS IVI	ajor M&	K: True	
Last Insp Condition Inspection Sample N Sample C 45 DI 48 L 52 RA	o. Date: 9/15/20 ns: PCI: 75 on Comments: Number: 100 Comments: EPRESSION & T CR	016	pe:	R 2 5:	Area: 75.00 SqFt		Surveye	ed: 2	: 72	IS IVI	ajor M&	K: True	
Last Insp Condition Inspection Sample N Sample C 45 DI 48 L 4 52 RA 57 W	o. Date: 9/15/20 ns: PCI: 75 on Comments: Number: 100 Comments: EPRESSION & T CR AVELING	016	pe: L L L L	R 2 5:	Area: 75.00 SqFt 18.00 Ft 25.00 SqFt	5254	Surveye	ed: 2	: 72 : 77	IS IVI	ajor M&	K: True	
Last Insp Condition Inspection Sample N Sample C 45 DI 48 L 45 52 RA 57 W Sample N	o. Date: 9/15/20 ns: PCI: 75 on Comments: Number: 100 Comments: EPRESSION & T CR AVELING ZEATHERING	016 5 T yj	pe: L L L L	R 2 5 47	Area: 75.00 SqFt 18.00 Ft 25.00 SqFt 29.00 SqFt	5254	Surveye	ed: 2		IS IVI	ajor M&	K: True	
Last Insp Condition Inspection Sample N Sample C 45 DI 48 L 4 52 RA 57 W Sample N Sample C	D. Date: 9/15/20 Ins: PCI: 75 In Comments: Number: 100 Comments: EPRESSION & T CR AVELING ZEATHERING Number: 330	016 5 T yj	pe: L L L L	R 2 55 477	Area: 75.00 SqFt 18.00 Ft 25.00 SqFt 29.00 SqFt	5254	Surveye	ed: 2		IS IVI	ajor M&	K: True	
Last Insp Condition Inspection Sample N Sample C 45 DI 48 L 4 52 RA 57 W Sample N Sample C	o. Date: 9/15/20 ns: PCI: 75 on Comments: Number: 100 Comments: EPRESSION & T CR AVELING FEATHERING Number: 330 Comments:	016 5 T yj	pe: L L L L pe:	R 2 5 47	Area: 75.00 SqFt 18.00 Ft 25.00 SqFt 29.00 SqFt Area:	5254	Surveye	ed: 2		IS IVI	ajor M&	K: True	

Name:

X26

Network:

SEBASTIAN MUNICIPAL AIRPORT

SEBASTIAN MUNICIPAL AIRPORT X26 Network: Name: **Branch:** TW E Name: TAXIWAY E Use: TAXIWAY Area: 29,416 SqFt Section: 700 of 1 **Last Const.:** 1/1/2011 From: To: Surface: ACFamily: C9N59-GA-TW-AC Zone: Category: Rank: P Area: 29,416 SqFt Length: 800 Ft Width: 35 Ft Slabs: Slab Length: Ft Slab Width: Ft Joint Length: Ft **Street Type:** 0 **Shoulder:** Grade: Lanes: **Section Comments:** Work Date: 1/1/2011 Work Type: New Construction - Initial Code: NU-IN Is Major M&R: True **Last Insp. Date:** 9/15/2016 **TotalSamples:** 8 Surveyed: 1 **Conditions:** PCI: **Inspection Comments:** 3500.00 SqFt Sample Number: 101 R **PCI:** 91 Type: Area: **Sample Comments:**

48 L & T CR L 8.00 Ft 57 WEATHERING L 3500.00 SqFt