FLORIDA DEPARTMENT OF TRANSPORTATION

AVIATION AND SPACEPORTS OFFICE







Florida Department of Transportation

Statewide Airfield Pavement Management **Program**

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OFFICE OF FREIGHT, LOGISTICS & PASSENGER OPERATIONS



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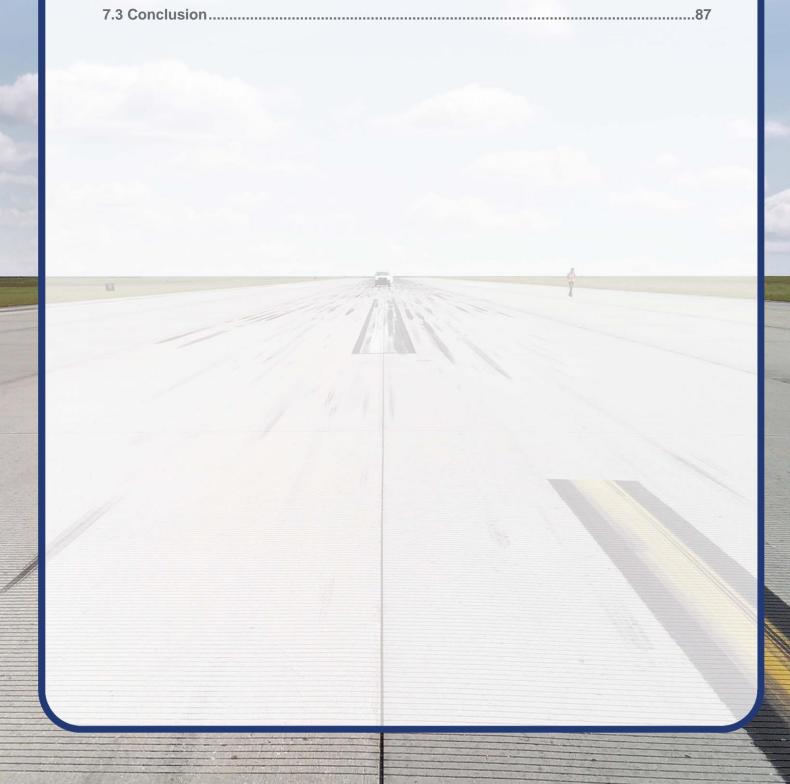
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Executive Summary





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
X07	RUNWAY 6-24	RUNWAY	6105	400,000	100	Good
X07	RUNWAY 17-35	RUNWAY	6205	290,145	58	Fair
X07	RUNWAY 17-35	RUNWAY	6206	3,155	62	Fair
X07	TAXIWAY A	TAXIWAY	105	85,999	41	Poor
X07	TAXIWAY A	TAXIWAY	110	3,314	20	Serious
X07	TAXIWAY A	TAXIWAY	115	1,989	60	Fair
X07	TAXIWAY A TAXIWAY		120	2,159	62	Fair
X07	7 TAXIWAY A TAXI		125	10,727	47	Poor
X07	X07 TAXIWAY A T.		130	57,272	94	Good
X07	X07 TAXIWAY A1		500	12,935	94	Good
X07	X07 TAXIWAY B TA		205	14,037	55	Poor
X07	X07 TAXIWAY B TAXIWA		207	8,945	62	Fair
X07	TAXIWAY B	TAXIWAY	210	18,096	63	Fair
X07	TAXIWAY B	TAXIWAY	215	2,166	62	Fair
X07	TAXIWAY C	TAXIWAY	305	32,049	66	Fair
X07	APRON	APRON	4105	108,406	42	Poor
X07	7 APRON APRON		4110	27,382	48	Poor
X07	APRON	APRON	4115	18,790	84	Satisfactory
X07	APRON	APRON	4205	37,971	85	Satisfactory





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	I			
Network ID	Branch ID	Section ID	Last PCI	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
X07	AP	4105	42	40	39	37	35	34	32	31	29	28	26
X07	AP	4110	48	46	45	43	41	40	38	37	35	34	32
X07	AP	4115	84	82	81	79	77	76	74	73	71	70	68
X07	AP	4205	85	83	82	80	78	77	75	74	72	71	69
X07	RW 17-35	6205	58	56	55	52	50	47	44	41	37	34	32
X07	RW 17-35	6206	62	61	61	60	60	60	60	60	60	60	59
X07	RW 6-24	6105	100	98	96	94	92	90	88	85	83	80	78
X07	TW A	105	41	39	38	36	35	34	33	32	31	30	29
X07	TW A	110	20	17	14	11	9	6	3	1	0	0	0
X07	TW A	115	60	58	56	55	53	51	50	48	47	46	45
X07	TW A	120	62	60	59	57	55	54	52	50	49	47	46
X07	TW A	125	47	45	44	42	40	39	37	36	35	34	33
X07	TW A	130	94	91	89	86	84	82	79	77	76	74	72
X07	TW A1	500	94	91	89	86	84	82	79	77	76	74	72
X07	TW B	205	55	53	52	50	49	47	46	44	42	41	39
X07	TW B	207	62	60	59	57	55	54	52	50	49	47	46
X07	TW B	210	63	61	60	58	56	55	53	51	50	48	47
X07	TW B	215	62	60	59	57	55	54	52	50	49	47	46
X07	TW C	305	66	65	63	62	60	59	57	55	53	52	50

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	X07	AP	4105	AC	108,406	40	AC Restoration	\$ 961,000.00
2018	X07	AP	4110	AC	27,382	46	AC Restoration	\$ 210,000.00
2018	X07	RW 17-35	6205	AAC	290,145	56	AC Restoration	\$ 2,032,000.00
2018	X07	RW 17-35	6206	AAC	3,155	61	AC Restoration	\$ 23,000.00
2018	X07	TW A	105	AC	85,999	39	AC Restoration	\$ 775,000.00
2018	X07	TW A	110	AC	3,314	17	AC Reconstruction	\$ 30,000.00
2018	X07	TW A	115	AAC	1,989	58	AC Restoration	\$ 14,000.00
2018	X07	TW A	120	AAC	2,159	60	AC Restoration	\$ 16,000.00
2018	X07	TW A	125	AC	10,727	45	AC Restoration	\$ 85,000.00
2018	X07	TW B	205	AC	14,037	53	AC Restoration	\$ 99,000.00
2018	X07	TW B	207	AAC	8,945	60	AC Restoration	\$ 63,000.00





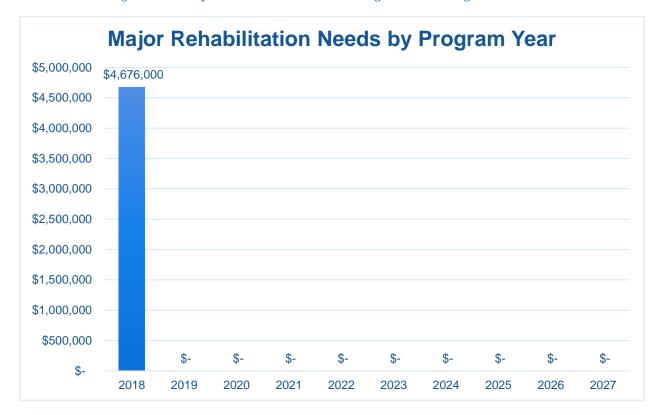
Program Year	Network ID	Branch ID	Section ID	Surface	Area (SF)	PCI Before	Rehabilitation Type	Planning Cost
2018	X07	TW B	210	AAC	18,096	61	AC Restoration	\$ 127,000.00
2018	X07	TW B	215	AAC	2,166	60	AC Restoration	\$ 16,000.00
2018	X07	TW C	305	AAC	32,049	65	AC Restoration	\$ 225,000.00

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





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



Summary of Lake Wales Municipal Airport

Lake Wales Municipal Airport was inspected in March 2017 – the overall weighted PCI value was 73, a condition rating of Satisfactory. The results of the maintenance, repair, and major rehabilitation analysis identified \$724,810 in localized M&R needs based on current conditions and a 10-Year major rehabilitation need of \$4,676,000 based on forecasted conditions. The current major rehabilitation needs based on the latest inspection consist of \$4,676,000 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

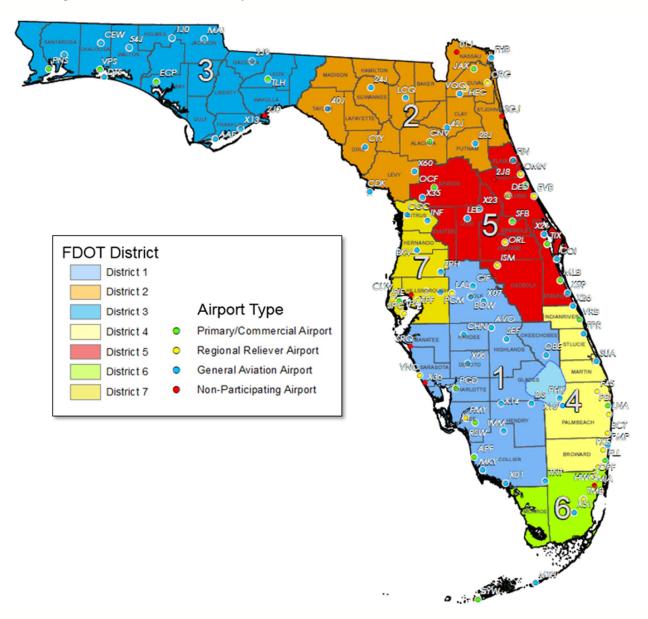
In 1992, the FDOT established the Statewide Airfield Pavement Management Program (SAPMP) to provide program managers, District Aviation and Spaceport Offices, and airport operators a system to proactively manage airport airfield pavement infrastructure within the Florida Aviation System. The SAPMP performs 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.

Airport Pavement

Evaluation Report







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.
- 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.

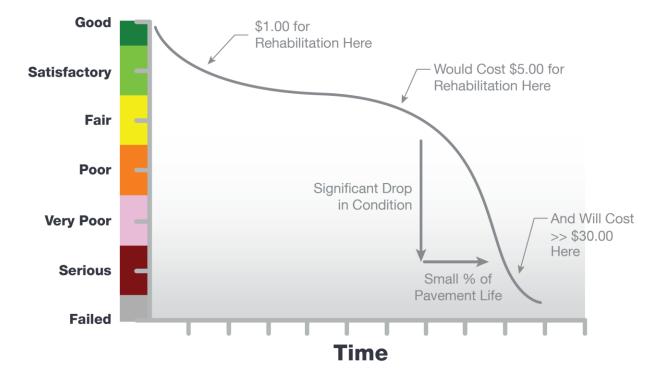


Figure 1.7-1 Typical Pavement Condition Life Cycle

*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



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 Serious 11-25 \$57/sy to \$86/sy here Failed 0-10 0 5 10 20 25 Age (Years)

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

	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 patches and/or joint/crack sealing.
Major Rehabiliation	40-64	50		Pavements that have deteriorated below a PCI 65, or within the range of 'Very Poor' to 'Fair' conditions may require major rehabilitation such as slab replacement and PCC restoration activity.
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.





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™ 7.0 version of the software. The PAVER™ 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.

PAVERTM 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 pavement 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





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	





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

Airport Pavement

Evaluation Report

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 Units 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 Units in	Sample Units to Inspect						
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		
7.11.11.01.0	(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

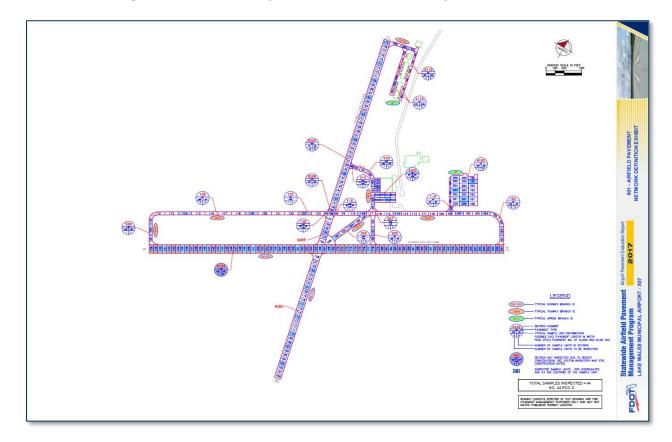
Year	General Work Description						
2014	TW A, A1 - New Construction: 4" P-401, 6" P-211, 12" P-152						
RW 6-24 - Mill and Overlay: 1" Mill, 3" P-401							
2017	RW 6-24, TW A - New Construction: 4" P-401, 6" P-211, 12" P-152						

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.



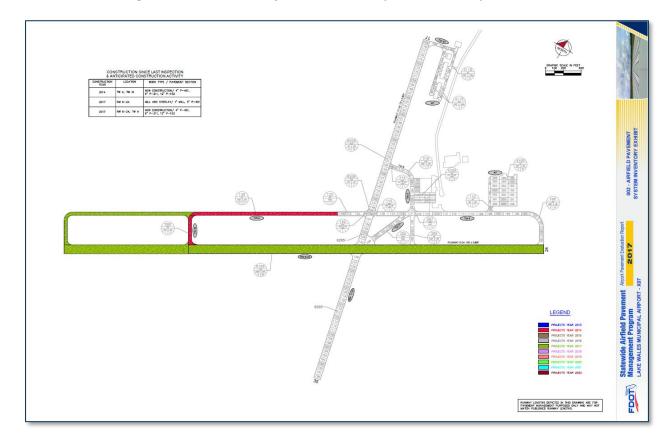


Figure 3.1.1-1 2017 Airfield Pavement Network Definition Exhibit



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.

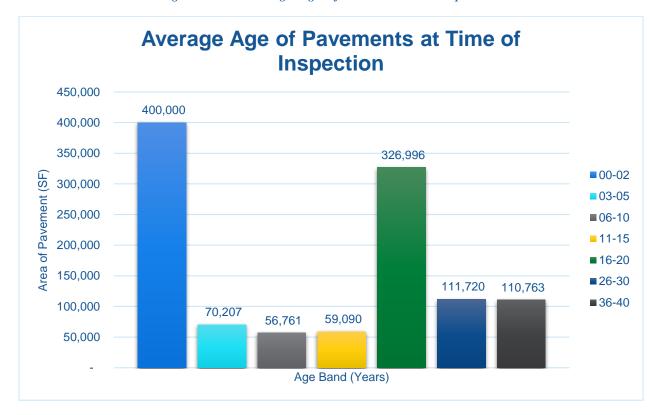
3.1.2 Estimated Pavement Age

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



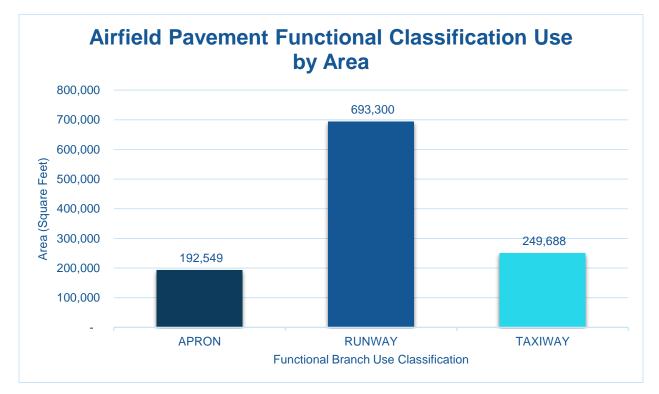
The estimation of the pavement age is based on information requested and provided by participating airports. Additionally, data collected in the prior system updates since 1992 have been relied upon.



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.

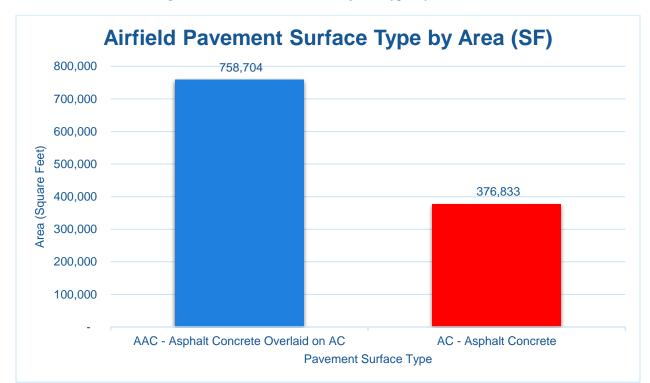
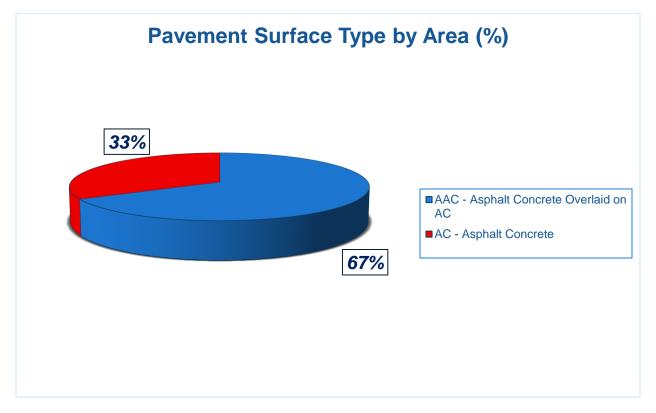


Figure 3.1.4 (a) Pavement Surface Type by Area (SF)



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
X07	APRON	AP	APRON	4105	340	320	108,406	AC	1/1/1988
X07	APRON	AP	APRON	4110	990	32	27,382	AC	1/1/2000
X07	APRON	AP	APRON	4115	480	32	18,790	AC	7/31/2008
X07	APRON	AP	APRON	4205	240	154	37,971	AC	7/31/2008
X07	RUNWAY 17-35	RW 17-35	RUNWAY	6205	3853	75	290,145	AAC	1/1/1997
X07	RUNWAY 17-35	RW 17-35	RUNWAY	6206	79	42	3,155	AAC	1/1/1997
X07	RUNWAY 6-24	RW 6-24	RUNWAY	6105	4000	100	400,000	AAC	6/1/2017
X07	TAXIWAY A	TW A	TAXIWAY	105	2100	40	85,999	AC	1/1/1978
X07	TAXIWAY A	TW A	TAXIWAY	110	65	35	3,314	AC	1/1/1988
X07	TAXIWAY A	TW A	TAXIWAY	115	66	40	1,989	AAC	1/1/1997
X07	TAXIWAY A	TW A	TAXIWAY	120	48	40	2,159	AAC	1/1/1997
X07	TAXIWAY A	TW A	TAXIWAY	125	275	40	10,727	AC	1/1/1978
X07	TAXIWAY A	TW A	TAXIWAY	130	1600	35	57,272	AC	9/1/2014
X07	TAXIWAY A1	TW A1	TAXIWAY	500	350	35	12,935	AC	9/1/2014
X07	TAXIWAY B	TW B	TAXIWAY	205	330	40	14,037	AC	1/1/1978
X07	TAXIWAY B	TW B	TAXIWAY	207	185	40	8,945	AAC	1/1/2004
X07	TAXIWAY B	TW B	TAXIWAY	210	400	40	18,096	AAC	1/1/2004
X07	TAXIWAY B	TW B	TAXIWAY	215	100	40	2,166	AAC	1/1/1997
X07	TAXIWAY C	TW C	TAXIWAY	305	550	50	32,049	AAC	1/1/2004





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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.

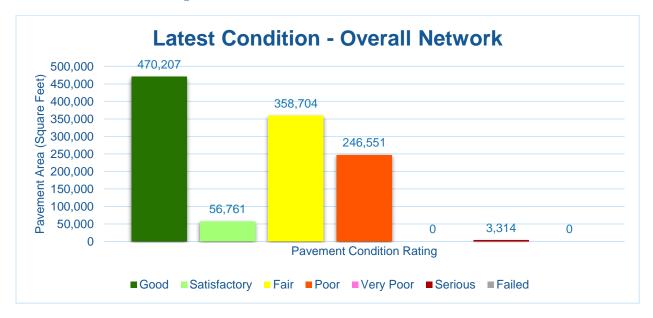


Figure 4.1.1 Latest Condition - Overall Network

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

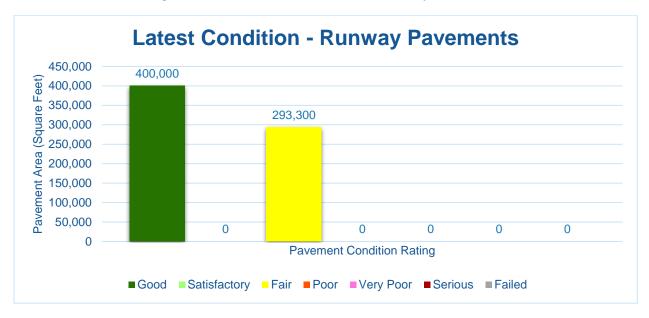


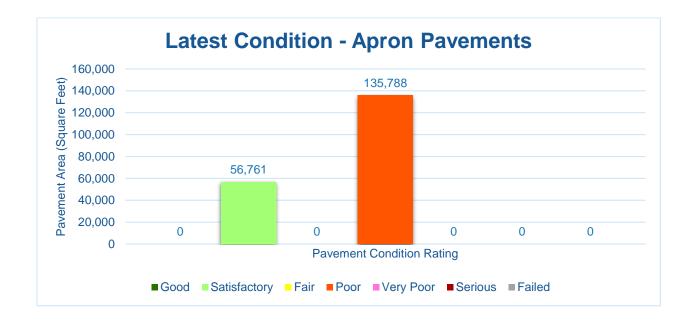
Figure 4.1.2 (b) Latest Condition - Taxiway Pavements







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.





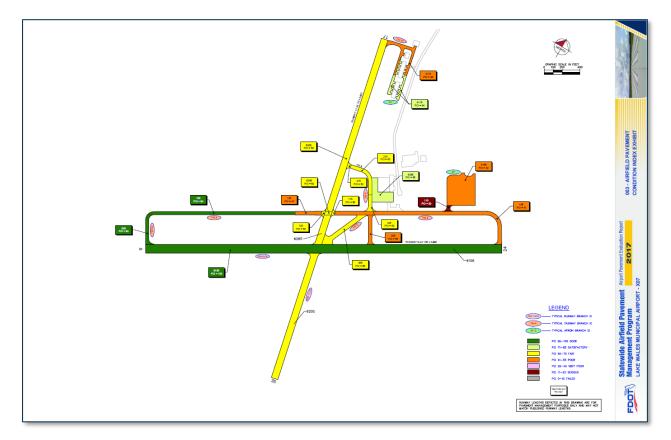
Table 4.1.3 Latest Pavement Condition Index Summary

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
X07	AP	APRON	APRON	4105	108,406	AC	42	Poor	99%	0%	1%	4	24
X07	AP	APRON	APRON	4110	27,382	AC	48	Poor	80%	20%	0%	2	8
X07	AP	APRON	APRON	4115	18,790	AC	84	Satisfactory	93%	0%	7%	1	6
X07	AP	APRON	APRON	4205	37,971	AC	85	Satisfactory	90%	0%	10%	2	12
X07	RW 17-35	RUNWAY 17-35	RUNWAY	6205	290,145	AAC	58	Fair	94%	0%	6%	16	76
X07	RW 17-35	RUNWAY 17-35	RUNWAY	6206	3,155	AAC	62	Fair	96%	0%	4%	1	1
X07	RW 6-24	RUNWAY 6-24	RUNWAY	6105	400,000	AAC	100	Good	0%	0%	0%	0	80
X07	TW A	TAXIWAY A	TAXIWAY	105	85,999	AC	41	Poor	83%	17%	0%	5	21
X07	TW A	TAXIWAY A	TAXIWAY	110	3,314	AC	20	Serious	100%	0%	0%	1	1
X07	TW A	TAXIWAY A	TAXIWAY	115	1,989	AAC	60	Fair	100%	0%	0%	1	1
X07	TW A	TAXIWAY A	TAXIWAY	120	2,159	AAC	62	Fair	100%	0%	0%	1	1
X07	TW A	TAXIWAY A	TAXIWAY	125	10,727	AC	47	Poor	100%	0%	0%	1	2
X07	TW A	TAXIWAY A	TAXIWAY	130	57,272	AC	94	Good	100%	0%	0%	2	11
X07	TW A1	TAXIWAY A1	TAXIWAY	500	12,935	AC	94	Good	100%	0%	0%	1	3
X07	TW B	TAXIWAY B	TAXIWAY	205	14,037	AC	55	Poor	100%	0%	0%	1	3
X07	TW B	TAXIWAY B	TAXIWAY	207	8,945	AAC	62	Fair	100%	0%	0%	1	2
X07	TW B	TAXIWAY B	TAXIWAY	210	18,096	AAC	63	Fair	100%	0%	0%	1	5
X07	TW B	TAXIWAY B	TAXIWAY	215	2,166	AAC	62	Fair	100%	0%	0%	1	1
X07	TW C	TAXIWAY C	TAXIWAY	305	32,049	AAC	66	Fair	100%	0%	0%	2	6



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 Lake Wales Municipal Airport (X07) started on 03/09/2017 and was completed on 03/10/2017. The resulting overall average area-weighted PCI value was 73 representing a condition rating of Satisfactory. Two runways service Lake Wales Municipal Airport: Runway 06-24 is 100-ft wide and 3,999-ft long, Runway 17-35 is 75-ft wide and 3,860-ft long. Runway 06-24 was not inspected at the direction of airport staff due to anticipated construction within 24 months. The PCI was set to 100, a condition rating of Good.

Based on the FAA 5010 Report as of 07/12/2017 the Airport has reported 20,000 operations for 12 months ending 08/17/2016.

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 17-35

Runway 17-35 consists of 2 sections constructed of AAC. The last construction year for Runway 17-35 was 1997. The average area-weighted PCI for Runway 17-35 is 58 representing a Fair condition rating. The pavement distresses observed were related to Climate and Other distress classifications. Distresses observed in Runway 17-35 consist of Longitudinal & Transverse Cracking, Patching, Raveling, and Swelling.

Taxiway A

Taxiway A consists of 6 sections constructed of AC and AAC. The last construction years range from 1978 to 2014. The average area-weighted PCI for Taxiway A is 60 representing a Fair condition rating. The pavement distresses observed were related to Climate and Load distress classifications. Distresses observed in Taxiway A consist of Alligator Cracking, Block Cracking, Depression, Longitudinal & Transverse Cracking, Patching, Raveling, Rutting, and Weathering.

Apron

The Apron consists of 4 sections constructed of AC. The last construction years range from 1988 to 2008. The average area-weighted PCI for the Apron is 55 representing a Poor condition rating. The pavement distresses observed were related to Climate, Load, and Other distress classifications. Distresses observed in the Apron consist of Alligator Cracking, Depression, Longitudinal & Transverse Cracking, Oil Spillage, Patching, Raveling, and Weathering.

Figure 4.2.2 Pavement Condition Summary by Facility Use

Facility Use	Average Area-Weighted PCI	Condition Rating
Runway	82	Satisfactory
Taxiway	62	Fair
Apron	55	Poor



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.

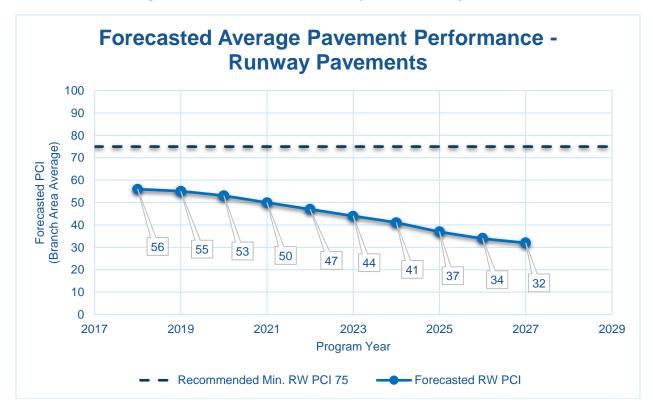


Figure 4.3.2 (a) Forecasted Runway Pavement Performance



Figure 4.3.2 (b) Forecasted Taxiway Pavement Performance

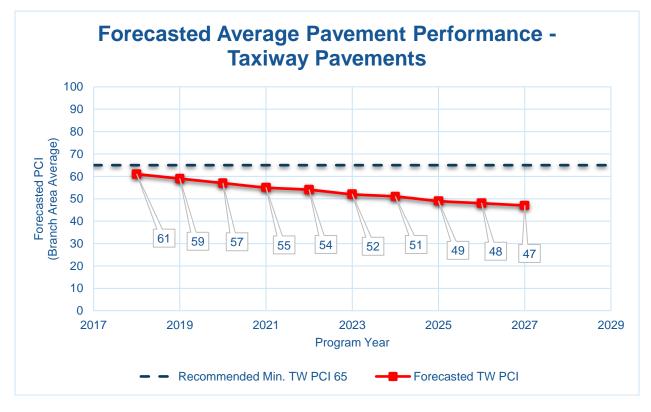
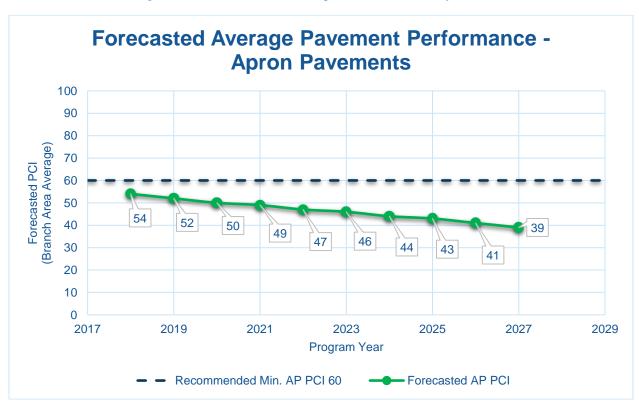


Figure 4.3.2 (c) Forecasted Apron Pavement Performance







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

Natural ID	Duranah ID	Cardian ID	L (DOI	Forecasted PCI									
Network ID	Branch ID	Section ID	Last PCI	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
X07	AP	4105	42	40	39	37	35	34	32	31	29	28	26
X07	AP	4110	48	46	45	43	41	40	38	37	35	34	32
X07	AP	4115	84	82	81	79	77	76	74	73	71	70	68
X07	AP	4205	85	83	82	80	78	77	75	74	72	71	69
X07	RW 17-35	6205	58	56	55	52	50	47	44	41	37	34	32
X07	RW 17-35	6206	62	61	61	60	60	60	60	60	60	60	59
X07	RW 6-24	6105	100	98	96	94	92	90	88	85	83	80	78
X07	TW A	105	41	39	38	36	35	34	33	32	31	30	29
X07	TW A	110	20	17	14	11	9	6	3	1	0	0	0
X07	TW A	115	60	58	56	55	53	51	50	48	47	46	45
X07	TW A	120	62	60	59	57	55	54	52	50	49	47	46
X07	TW A	125	47	45	44	42	40	39	37	36	35	34	33
X07	TW A	130	94	91	89	86	84	82	79	77	76	74	72
X07	TW A1	500	94	91	89	86	84	82	79	77	76	74	72
X07	TW B	205	55	53	52	50	49	47	46	44	42	41	39
X07	TW B	207	62	60	59	57	55	54	52	50	49	47	46
X07	TW B	210	63	61	60	58	56	55	53	51	50	48	47
X07	TW B	215	62	60	59	57	55	54	52	50	49	47	46
X07	TW C	305	66	65	63	62	60	59	57	55	53	52	50





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



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





64 Low DURABIL CR FDOT-MO-PV FDOT-MONITOR N/A 64 Medium DURABIL CR FDOT-PAPPF 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 High 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-MONITOR N/A 66 High SMALL PATCH FDOT-PA-PP FDOT - PATCHING - PCC PARTIAL DEPTH SqFt 67 Low LARGE PATCH FDOT-PA-PP FDOT - PATCHING - PCC PARTIAL DEPTH SqFt 67 High LARGE PATCH FDOT-PA-PP FDOT - PATCHING - PCC PARTIAL DEPTH SqFt 67 High LARGE PATCH FDOT-PA-PP FDOT - PATCHING - PCC PULL DEPTH SqFt 67 High	Distress	Severity	Description	Code	Work Type	Work Unit
64 High DURABIL. CR FDOT-SL-PC FDOT - SLAB REPLACEMENT - PCC SqFI 65 Low JT SEAL DMG FDOT-JS-PC FDOT - JOINT SEAL - PCC FI 65 Medium JT SEAL DMG FDOT-JS-PC FDOT - JOINT SEAL - PCC FI 65 High JT SEAL DMG FDOT-JS-PC FDOT - JOINT SEAL - PCC FI 66 Low SMALL PATCH FDOT-MO-PV FDOT - MONITOR N/A 66 High SMALL PATCH FDOT-PA-PP FDOT - PATCHING - PCC PARTIAL DEPTH SqFI 67 Low LARGE PATCH FDOT-PA-PP FDOT - PATCHING - PCC FULL DEPTH SqFI 67 High LARGE PATCH FDOT-PA-PP FDOT - PATCHING - PCC FULL DEPTH SqFI 67 High LARGE PATCH FDOT-PA-PP FDOT - PATCHING - PCC FULL DEPTH SqFI 67 High LARGE PATCH FDOT-PA-PP FDOT - PATCHING - PCC FULL DEPTH SqFI 67 High LARGE PATCH FDOT-PA-PP FDOT - PATCHING - PCC FULL DEPTH SqFI <tr< th=""><th>64</th><th>Low</th><th>DURABIL. CR</th><th>FDOT-MO-PV</th><th>FDOT - MONITOR</th><th>N/A</th></tr<>	64	Low	DURABIL. CR	FDOT-MO-PV	FDOT - MONITOR	N/A
665 Low JT SEAL DMG FDOT-JS-PC FDOT - JOINT SEAL - PCC F1 65 Medium JT SEAL DMG FDOT-JS-PC FDOT - JOINT SEAL - PCC F1 65 High JT SEAL DMG FDOT-JS-PC FDOT - JOINT SEAL - PCC F1 66 Low SMALL PATCH FDOT-MO-PV FDOT - MONITOR N/A 66 High 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 - PATCHING - PCC FULL DEPTH SqFt 67 High LARGE PATCH FDOT-PA-PP FDOT - PATCHING - PCC FULL DEPTH SqFt 67 High LARGE PATCH FDOT-PA-PP FDOT - PATCHING - PCC FULL DEPTH SqFt 67 High LARGE PATCH FDOT-PA-PP FDOT - PATCHING - PCC FULL DEPTH SqFt 68 N/A POPOUTS FDOT-PA-PP FDOT - PATCHING - PCC FULL DEPTH SqFt <	64	Medium	DURABIL. CR	FDOT-PA-PF	FDOT - PATCHING - PCC FULL DEPTH	SqFt
665 Medium JT SEAL DMG FDOT-JS-PC FDOT - JOINT SEAL - PCC F1 665 High JT SEAL DMG FDOT-JOINT SEAL - PCC F1 666 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-PA-PP FDOT - PATCHING - PCC PARTIAL DEPTH SqFt 67 High 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-PA-PF FDOT - PATCHING - PCC FULL DEPTH SqFt 69 N/A PUMPINIG FDOT-SL-PC FDOT - SLAB STABILIZATION - PCC SqFt 70 Low SCALING FDOT-MO-PV FDOT - MONITOR N/A 70 High	64	High	DURABIL. CR	FDOT-SL-PC	FDOT - SLAB REPLACEMENT - PCC	SqFt
65 High JT SEAL DMG FDOT-JS-PC FDOT -JOINT SEAL - PCC FI 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-PA-PF FDOT - MONITOR N/A 67 High LARGE PATCH FDOT-PA-PF FDOT - PATCHING - PCC FULL DEPTH SqFt 67 High 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-PA-PF FDOT - PATCHING - PCC FULL DEPTH SqFt 69 N/A PUMPINIS FDOT-SL-PC FDOT - MONITOR N/A 70 Low SCALING FDOT-MO-PV FDOT - MONITOR N/A 70 High	65	Low	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-PA-PP FDOT - MONITOR N/A 67 High LARGE PATCH FDOT-PA-PP FDOT - PATCHING - PCC FULL DEPTH SqFt 67 High LARGE PATCH FDOT-PA-PP FDOT - PATCHING - PCC FULL DEPTH SqFt 67 High LARGE PATCH FDOT-PA-PP FDOT - PATCHING - PCC FULL DEPTH SqFt 68 N/A POPOUTS FDOT-PA-PP FDOT - SLAB STABILIZATION - PCC SqFt 69 N/A PUMPING FDOT-SB-PC FDOT - SLAB STABILIZATION - PCC SqFt 70 Low SCALING FDOT-MO-PV FDOT - MONITOR N/A 70 High SCALING FDOT-SL-PP FDOT - SLAB REPLACEMENT - PCC SqFt 71	65	Medium	JT SEAL DMG	FDOT-JS-PC	FDOT - JOINT SEAL - PCC	Ft
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 67 High LARGE PATCH FDOT-PA-PF FDOT - PATCHING - PCC FULL DEPTH SqFt 68 N/A POPOUTS FDOT-PA-PF FDOT - SLAB STABILIZATION - PCC SqFt 69 N/A PUMPING FDOT-SB-PC FDOT - SLAB STABILIZATION - PCC SqFt 70 Low SCALING FDOT-MO-PV FDOT - MONITOR N/A 70 High SCALING FDOT-SL-PC FDOT - SLAB REPLACEMENT - PCC SqFt 71 Low FAULTING FDOT-GR-PP FDOT - GRINDING (LOCALIZED) Ft <	65	High	JT SEAL DMG	FDOT-JS-PC	FDOT - JOINT SEAL - PCC	Ft
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 67 High LARGE PATCH FDOT-PA-PF FDOT - PATCHING - PCC FULL DEPTH SqFt 68 N/A POPOUTS FDOT-PA-PF FDOT - PATCHING - PCC FULL DEPTH SqFt 69 N/A POPOUTS FDOT-SC-PC FDOT - PATCHING - PCC FULL DEPTH SqFt 70 Low SCALING FDOT-SC-PC FDOT - MONITOR N/A 70 Medium SCALING FDOT-SL-PC FDOT - SLAB REPLACEMENT - PCC SqFt 71 Low FAULTING FDOT-GR-PP FDOT - GRINDING (LOCALIZED) Ft 71 High FAULTING FDOT-GR-PP FDOT - GRINDING (LOCALIZED) Ft 72	66	Low	SMALL PATCH	FDOT-MO-PV	FDOT - MONITOR	N/A
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 - PATCHING - PCC FULL DEPTH 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-SL-PC FDOT - CRACK SEALING - PCC FT 73 Medium SHAT. SLAB FDOT-SL-PC FDOT - SLAB REPLACEMENT - PCC SqFt 74 Medium SHAT. SLAB FDOT-SL-PC FDOT - SLAB REPLACEMENT - PCC SqFt 75 N/A SHRINKAGE CR FDOT-MO-PV FDOT - MONITOR N/A 76 Medium ASR FDOT-S-PC FDOT - CRACK SEALING - PCC FT 77 Medium JOINT SPALL FDOT-S-PC FDOT - CRACK SEALING - PCC FT 78 Medium JOINT SPALL FDOT-S-PC FDOT - CRACK SEALING - PCC FT 79 Medium JOINT SPALL FDOT-S-PC FDOT - CRACK SEALING - PCC FT 70 Medium JOINT SPALL FDOT-S-PC FDOT - PATCHING - PCC PARTIAL DEPTH SqFt 75 Medium CORNER SPALL FDOT-S-PC FDOT - CRACK SEALING - PCC FT 76 Medium ASR FDOT-MO-PV FDOT - PATCHING - PCC PARTIAL DEPTH SqFt 77 Medium CORNER SPALL FDOT-PA-PP FDOT - PATCHING - PCC PARTIAL DEPTH SqFt 78 Medium CORNER SPALL FDOT-PA-PP FDOT - PATCHING - PCC PARTIAL DEPTH SqFt 79 Medium CORNER SPALL FDOT-PA-PP FDOT - PATCHING - PCC PARTIAL DEPTH SqFt 79 Medium CORNER SPALL FDOT-PA-PP FDOT - PATCHING - PCC PARTIAL DEPTH SqFt 70 Medium ASR FDOT-PA-PP FDOT - PATCHING - PCC PARTIAL DEPTH SqFt 71 Medium ASR FDOT-PA-PP FDOT - PATCHING - PCC PARTIAL DEPTH SqFt 70 Medium ASR FDOT-PA-PP FDOT - PATCHING - PCC FULL DEPTH SqFt 70 Medium ASR FDOT-PA-PP FDOT - PATCHING - PCC FULL DEPTH SqFt 71 Medium ASR FDOT-PA-PP FDOT - PATCHING - PCC FULL DEPTH SqFt 71 Medium LARGE PATCH SqFT 72 MEDIA PATCH SQFT 7	66	Medium	SMALL PATCH	FDOT-PA-PP	FDOT - PATCHING - PCC PARTIAL DEPTH	SqFt
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 - PATCHING - PCC FULL DEPTH 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-SL-PC 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-GR-PP FDOT - GRINDING (LOCALIZED) Ft 72 Hi	66	High	SMALL PATCH	FDOT-PA-PP	FDOT - PATCHING - PCC PARTIAL 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 73 N/A SHRINKAGE CR FDOT-MO-PV FDOT - MONITOR N/A 74 Low JOINT SPALL FDOT-SL-PC FDOT - SLAB REPLACEMENT - PCC SqFt 75 Medium JOINT SPALL FDOT-CS-PC FDOT - CRACK SEALING - PCC Ft 76 Medium CORNER SPALL FDOT-PA-PP FDOT - PATCHING - PCC PARTIAL DEPTH SqFt 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 77 Medium ASR FDOT-PA-PP FDOT - PATCHING - PCC PARTIAL DEPTH SqFt 76 Low ASR FDOT-MO-PV FDOT - MONITOR N/A	67	Low	LARGE PATCH	FDOT-MO-PV	FDOT - MONITOR	N/A
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 - SLAB REPLACEMENT - PCC SqFt 71 High FAULTING FDOT-GR-PP FDOT - GRINDING (LOCALIZED) Ft 71 High FAULTING FDOT-GR-PP FDOT - GRINDING (LOCALIZED) Ft 72 Low SHAT. SLAB FDOT-GR-PP FDOT - CRACK SEALING - PCC Ft 72 Medium SHAT. SLAB FDOT-SL-PC FDOT - SLAB REPLACEMENT - PCC SqFt 73 N/A SHRINKAGE CR FDOT-SL-PC FDOT - SLAB REPLACEMENT - PCC SqFt 73 N/A	67	Medium	LARGE PATCH	FDOT-PA-PF	FDOT - PATCHING - PCC FULL DEPTH	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-GR-PP FDOT - GRINDING (LOCALIZED) Ft 72 Medium SHAT. SLAB FDOT-SL-PC FDOT - GRINDING (LOCALIZED) Ft 72 Medium SHAT. SLAB FDOT-SL-PC FDOT - SLAB REPLACEMENT - PCC SqFt 73 N/A SHATINIAGE CR FDOT-SL-PC FDOT - SLAB REPLACEMENT - PCC SqFt 73 N/A	67	High	LARGE PATCH	FDOT-PA-PF	FDOT - PATCHING - PCC FULL DEPTH	SqFt
TO LOW SCALING FDOT-MO-PV FDOT - MONITOR N/A TO Medium SCALING FDOT-PA-PP FDOT - PATCHING - PCC PARTIAL DEPTH SqFt TO High SCALING FDOT-SL-PC FDOT - SLAB REPLACEMENT - PCC SqFt T1 Low FAULTING FDOT-MO-PV FDOT - MONITOR N/A T1 Medium FAULTING FDOT-GR-PP FDOT - GRINDING (LOCALIZED) Ft T1 High FAULTING FDOT-GR-PP FDOT - GRINDING (LOCALIZED) Ft T2 Low SHAT. SLAB FDOT-CS-PC FDOT - CRACK SEALING - PCC Ft T2 Medium SHAT. SLAB FDOT-SL-PC FDOT - SLAB REPLACEMENT - PCC SqFt T2 High SHAT. SLAB FDOT-SL-PC FDOT - SLAB REPLACEMENT - PCC SqFt T3 N/A SHRINKAGE CR FDOT-MO-PV FDOT - MONITOR N/A T4 Low JOINT SPALL FDOT-CS-PC FDOT - CRACK SEALING - PCC Ft T4 Medium JOINT SPALL FDOT-PA-PP FDOT - PATCHING - PCC PARTIAL DEPTH SqFt T5 Low CORNER SPALL FDOT-PA-PP FDOT - PATCHING - PCC PARTIAL DEPTH SqFt T5 Medium CORNER SPALL FDOT-PA-PP FDOT - PATCHING - PCC PARTIAL DEPTH SqFt T5 High CORNER SPALL FDOT-PA-PP FDOT - PATCHING - PCC PARTIAL DEPTH SqFt T6 Low ASR FDOT-MO-PV FDOT - MONITOR N/A T6 Medium ASR FDOT-PA-PP FDOT - PATCHING - PCC PARTIAL DEPTH SqFt T6 Low ASR FDOT-MO-PV FDOT - PATCHING - PCC PARTIAL DEPTH SqFt T6 Medium ASR FDOT-PA-PP FDOT - PATCHING - PCC PARTIAL DEPTH SqFt T6 Medium ASR FDOT-PA-PP FDOT - PATCHING - PCC PARTIAL DEPTH SqFt T6 Low ASR FDOT-MO-PV FDOT - MONITOR N/A T6 Medium ASR FDOT-PA-PP FDOT - PATCHING - PCC FULL DEPTH SqFt	68	N/A	POPOUTS	FDOT-PO-FL	FDOT - POPOUT FILLER	SqFt
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 73 Medium SHAT. SLAB FDOT-SL-PC FDOT - SLAB REPLACEMENT - PCC SqFt 74 High SHAT. SLAB FDOT-SL-PC FDOT - SLAB REPLACEMENT - PCC SqFt 75 N/A SHRINKAGE CR FDOT-MO-PV FDOT - MONITOR N/A 76 Medium CORNER SPALL FDOT-PA-PP FDOT - PATCHING - PCC PARTIAL DEPTH SqFt 77 Medium CORNER SPALL FDOT-PA-PP FDOT - CRACK SEALING - PCC Ft 78 Medium CORNER SPALL FDOT-PA-PP FDOT - PATCHING - PCC PARTIAL DEPTH SqFt 79 High CORNER SPALL FDOT-PA-PP FDOT - PATCHING - PCC PARTIAL DEPTH SqFt 70 Medium CORNER SPALL FDOT-PA-PP FDOT - PATCHING - PCC PARTIAL DEPTH SqFt 71 High 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 - PATCHING - PCC PARTIAL DEPTH SqFt 77 Medium ASR FDOT-PA-PP FDOT - PATCHING - PCC PARTIAL DEPTH SqFt 78 Medium ASR FDOT-PA-PP FDOT - PATCHING - PCC PARTIAL DEPTH SqFt 79 Medium ASR FDOT-PA-PP FDOT - PATCHING - PCC PARTIAL DEPTH SqFt 70 Medium ASR FDOT-PA-PP FDOT - PATCHING - PCC PARTIAL DEPTH SqFt 71 Medium ASR FDOT-PA-PP FDOT - PATCHING - PCC FULL DEPTH SqFt 71 Medium ASR FDOT-PA-PP FDOT - PATCHING - PCC FULL DEPTH SqFt	69	N/A	PUMPING	FDOT-SB-PC	FDOT – SLAB STABILIZATION - PCC	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 73 Medium SHAT. SLAB FDOT-SL-PC FDOT - SLAB REPLACEMENT - PCC SqFt 74 High SHAT. SLAB FDOT-SL-PC FDOT - MONITOR N/A 75 Low JOINT SPALL FDOT-CS-PC FDOT - CRACK SEALING - PCC Ft 76 Medium JOINT SPALL FDOT-PA-PP FDOT - PATCHING - PCC PARTIAL DEPTH SqFt 77 Medium CORNER SPALL FDOT-PA-PP FDOT - PATCHING - PCC PARTIAL DEPTH SqFt 78 Medium CORNER SPALL FDOT-PA-PP FDOT - PATCHING - PCC PARTIAL DEPTH SqFt 79 High CORNER SPALL FDOT-PA-PP FDOT - PATCHING - PCC PARTIAL DEPTH SqFt 70 Medium ASR FDOT-MO-PV FDOT - MONITOR N/A 71 N/A SqFt SqFt 72 Medium CORNER SPALL FDOT-PA-PP FDOT - PATCHING - PCC PARTIAL DEPTH SqFt 75 Medium CORNER SPALL FDOT-PA-PP FDOT - PATCHING - PCC PARTIAL DEPTH SqFt 76 Low ASR FDOT-MO-PV FDOT - MONITOR N/A 77 Medium ASR FDOT-MO-PV FDOT - MONITOR N/A 78 Medium ASR FDOT-MO-PV FDOT - PATCHING - PCC FULL DEPTH SqFt 79 Medium ASR FDOT-MO-PV FDOT - PATCHING - PCC FULL DEPTH SqFt 76 Medium ASR FDOT-PA-PP FDOT - PATCHING - PCC FULL DEPTH SqFt	70	Low	SCALING	FDOT-MO-PV	FDOT - MONITOR	N/A
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 73 Medium SHAT. SLAB FDOT-SL-PC FDOT - SLAB REPLACEMENT - PCC SqFt 74 High SHAT. SLAB FDOT-SL-PC FDOT - SLAB REPLACEMENT - PCC SqFt 75 N/A SHRINKAGE CR FDOT-MO-PV FDOT - MONITOR N/A 76 Medium CORNER SPALL FDOT-PA-PP FDOT - PATCHING - PCC PARTIAL DEPTH SqFt 77 Medium CORNER SPALL FDOT-PA-PP FDOT - PATCHING - PCC PARTIAL DEPTH SqFt 78 Medium ASR FDOT-MO-PV FDOT - PATCHING - PCC PARTIAL DEPTH SqFt 79 Medium CORNER SPALL FDOT-PA-PP FDOT - PATCHING - PCC PARTIAL DEPTH SqFt 70 Medium ASR FDOT-MO-PV FDOT - PATCHING - PCC PARTIAL DEPTH SqFt 71 Medium ASR FDOT-MO-PV FDOT - PATCHING - PCC PARTIAL DEPTH SqFt 71 Medium ASR FDOT-MO-PV FDOT - PATCHING - PCC PARTIAL DEPTH SqFt 71 Medium ASR FDOT-MO-PV FDOT - PATCHING - PCC PARTIAL DEPTH SqFt 72 Medium ASR FDOT-MO-PV FDOT - PATCHING - PCC PARTIAL DEPTH SqFt 73 Medium ASR FDOT-MO-PV FDOT - PATCHING - PCC PARTIAL DEPTH SqFt 74 Medium ASR FDOT-MO-PV FDOT - PATCHING - PCC PARTIAL DEPTH SqFt 75 Medium ASR FDOT-MO-PV FDOT - PATCHING - PCC PARTIAL DEPTH SqFt 75 Medium ASR FDOT-MO-PV FDOT - PATCHING - PCC PARTIAL DEPTH SqFt 75 Medium ASR FDOT-MO-PV FDOT - PATCHING - PCC PARTIAL DEPTH SqFt 76 Medium ASR FDOT-PA-PP FDOT - PATCHING - PCC FULL DEPTH SqFt	70	Medium	SCALING	FDOT-PA-PP	FDOT - PATCHING - PCC PARTIAL DEPTH	SqFt
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 73 Medium SHAT. SLAB FDOT-SL-PC FDOT - SLAB REPLACEMENT - PCC SqFt 74 High SHAT. SLAB FDOT-SL-PC FDOT - SLAB REPLACEMENT - PCC SqFt 75 N/A SHRINKAGE CR FDOT-MO-PV FDOT - MONITOR N/A 74 Low JOINT SPALL FDOT-CS-PC FDOT - CRACK SEALING - PCC Ft 75 Medium JOINT SPALL FDOT-PA-PP FDOT - PATCHING - PCC PARTIAL DEPTH SqFt 76 Low ASR FDOT-MO-PV FDOT - PATCHING - PCC PARTIAL DEPTH SqFt 77 Medium ASR FDOT-MO-PV FDOT - PATCHING - PCC PARTIAL DEPTH SqFt 78 Medium CORNER SPALL FDOT-PA-PP FDOT - PATCHING - PCC PARTIAL DEPTH SqFt 79 Medium CORNER SPALL FDOT-PA-PP FDOT - PATCHING - PCC PARTIAL DEPTH SqFt 77 Medium CORNER SPALL FDOT-PA-PP FDOT - PATCHING - PCC PARTIAL DEPTH SqFt 78 Low ASR FDOT-MO-PV FDOT - PATCHING - PCC PARTIAL DEPTH SqFt 79 Medium ASR FDOT-MO-PV FDOT - MONITOR N/A	70	High	SCALING	FDOT-SL-PC	FDOT - SLAB REPLACEMENT - PCC	SqFt
71 High FAULTING FDOT-GR-PP FDOT - GRINDING (LOCALIZED) Ft 72 Low SHAT. SLAB FDOT-CS-PC FDOT - CRACK SEALING - PCC Ft 73 Medium SHAT. SLAB FDOT-SL-PC FDOT - SLAB REPLACEMENT - PCC SqFt 74 High SHAT. SLAB FDOT-SL-PC FDOT - SLAB REPLACEMENT - PCC SqFt 75 N/A SHRINKAGE CR FDOT-MO-PV FDOT - MONITOR N/A 76 Low JOINT SPALL FDOT-PA-PP FDOT - PATCHING - PCC PARTIAL DEPTH SqFt 77 Medium CORNER SPALL FDOT-PA-PP FDOT - PATCHING - PCC PARTIAL DEPTH SqFt 78 Medium CORNER SPALL FDOT-PA-PP FDOT - PATCHING - PCC PARTIAL DEPTH SqFt 79 Medium CORNER SPALL FDOT-PA-PP FDOT - PATCHING - PCC PARTIAL DEPTH SqFt 70 Low CORNER SPALL FDOT-PA-PP FDOT - PATCHING - PCC PARTIAL DEPTH SqFt 71 Medium CORNER SPALL FDOT-PA-PP FDOT - PATCHING - PCC PARTIAL DEPTH SqFt 75 Medium CORNER SPALL FDOT-PA-PP FDOT - PATCHING - PCC PARTIAL DEPTH SqFt 76 Low ASR FDOT-MO-PV FDOT - MONITOR N/A 77 Medium ASR FDOT-PA-PF FDOT - PATCHING - PCC FULL DEPTH SqFt	71	Low	FAULTING	FDOT-MO-PV	FDOT - MONITOR	N/A
T2 Low SHAT. SLAB FDOT-CS-PC FDOT - CRACK SEALING - PCC Ft T2 Medium SHAT. SLAB FDOT-SL-PC FDOT - SLAB REPLACEMENT - PCC SqFt T3 N/A SHRINKAGE CR FDOT-MO-PV FDOT - MONITOR N/A T4 Low JOINT SPALL FDOT-CS-PC FDOT - CRACK SEALING - PCC Ft T4 Medium JOINT SPALL FDOT-PA-PP FDOT - PATCHING - PCC PARTIAL DEPTH SqFt T5 Low CORNER SPALL FDOT-CS-PC FDOT - CRACK SEALING - PCC Ft T6 Medium CORNER SPALL FDOT-PA-PP FDOT - PATCHING - PCC PARTIAL DEPTH SqFt T5 High CORNER SPALL FDOT-PA-PP FDOT - PATCHING - PCC PARTIAL DEPTH SqFt T6 Low ASR FDOT-MO-PV FDOT - PATCHING - PCC PARTIAL DEPTH SqFt T6 Medium ASR FDOT-PA-PP FDOT - PATCHING - PCC PARTIAL DEPTH SqFt T6 Medium ASR FDOT-PA-PP FDOT - PATCHING - PCC PARTIAL DEPTH SqFt T6 Medium ASR FDOT-PA-PP FDOT - PATCHING - PCC PARTIAL DEPTH SqFt T6 Medium ASR FDOT-PA-PP FDOT - PATCHING - PCC FULL DEPTH SqFt	71	Medium	FAULTING	FDOT-GR-PP	FDOT - GRINDING (LOCALIZED)	Ft
72MediumSHAT. SLABFDOT-SL-PCFDOT - SLAB REPLACEMENT - PCCSqFt72HighSHAT. SLABFDOT-SL-PCFDOT - SLAB REPLACEMENT - PCCSqFt73N/ASHRINKAGE CRFDOT-MO-PVFDOT - MONITORN/A74LowJOINT SPALLFDOT-CS-PCFDOT - CRACK SEALING - PCCFt74MediumJOINT SPALLFDOT-PA-PPFDOT - PATCHING - PCC PARTIAL DEPTHSqFt74HighJOINT SPALLFDOT-PA-PPFDOT - PATCHING - PCC PARTIAL DEPTHSqFt75LowCORNER SPALLFDOT-CS-PCFDOT - CRACK SEALING - PCCFt75MediumCORNER SPALLFDOT-PA-PPFDOT - PATCHING - PCC PARTIAL DEPTHSqFt75HighCORNER SPALLFDOT-PA-PPFDOT - PATCHING - PCC PARTIAL DEPTHSqFt76LowASRFDOT-MO-PVFDOT - MONITORN/A76MediumASRFDOT-PA-PFFDOT - PATCHING - PCC FULL DEPTHSqFt	71	High	FAULTING	FDOT-GR-PP	FDOT - GRINDING (LOCALIZED)	Ft
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 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 - PATCHING - PCC PARTIAL DEPTH SqFt 76 Medium ASR FDOT-PA-PP FDOT - PATCHING - PCC PARTIAL DEPTH SqFt 77 Medium ASR FDOT-PA-PP FDOT - PATCHING - PCC PARTIAL DEPTH SqFt 78 Medium ASR FDOT-MO-PV FDOT - MONITOR N/A 79 Medium ASR FDOT-PA-PF FDOT - PATCHING - PCC FULL DEPTH SqFt	72	Low	SHAT. SLAB	FDOT-CS-PC	FDOT - CRACK SEALING - PCC	Ft
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	72	Medium	SHAT. SLAB	FDOT-SL-PC	FDOT - SLAB REPLACEMENT - PCC	SqFt
74LowJOINT SPALLFDOT-CS-PCFDOT - CRACK SEALING - PCCFt74MediumJOINT SPALLFDOT-PA-PPFDOT - PATCHING - PCC PARTIAL DEPTHSqFt74HighJOINT SPALLFDOT-PA-PPFDOT - PATCHING - PCC PARTIAL DEPTHSqFt75LowCORNER SPALLFDOT-CS-PCFDOT - CRACK SEALING - PCCFt75MediumCORNER SPALLFDOT-PA-PPFDOT - PATCHING - PCC PARTIAL DEPTHSqFt75HighCORNER SPALLFDOT-PA-PPFDOT - PATCHING - PCC PARTIAL DEPTHSqFt76LowASRFDOT-MO-PVFDOT - MONITORN/A76MediumASRFDOT-PA-PFFDOT - PATCHING - PCC FULL DEPTHSqFt	72	High	SHAT. SLAB	FDOT-SL-PC	FDOT - SLAB REPLACEMENT - PCC	SqFt
74MediumJOINT SPALLFDOT-PA-PPFDOT - PATCHING - PCC PARTIAL DEPTHSqFt74HighJOINT SPALLFDOT-PA-PPFDOT - PATCHING - PCC PARTIAL DEPTHSqFt75LowCORNER SPALLFDOT-CS-PCFDOT - CRACK SEALING - PCCFt75MediumCORNER SPALLFDOT-PA-PPFDOT - PATCHING - PCC PARTIAL DEPTHSqFt75HighCORNER SPALLFDOT-PA-PPFDOT - PATCHING - PCC PARTIAL DEPTHSqFt76LowASRFDOT-MO-PVFDOT - MONITORN/A76MediumASRFDOT-PA-PFFDOT - PATCHING - PCC FULL DEPTHSqFt	73	N/A	SHRINKAGE CR	FDOT-MO-PV	FDOT - MONITOR	N/A
74HighJOINT SPALLFDOT-PA-PPFDOT - PATCHING - PCC PARTIAL DEPTHSqFt75LowCORNER SPALLFDOT-CS-PCFDOT - CRACK SEALING - PCCFt75MediumCORNER SPALLFDOT-PA-PPFDOT - PATCHING - PCC PARTIAL DEPTHSqFt75HighCORNER SPALLFDOT-PA-PPFDOT - PATCHING - PCC PARTIAL DEPTHSqFt76LowASRFDOT-MO-PVFDOT - MONITORN/A76MediumASRFDOT-PA-PFFDOT - PATCHING - PCC FULL DEPTHSqFt	74	Low	JOINT SPALL	FDOT-CS-PC	FDOT - CRACK SEALING - PCC	Ft
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	74	Medium	JOINT SPALL	FDOT-PA-PP	FDOT - PATCHING - PCC PARTIAL DEPTH	SqFt
75MediumCORNER SPALLFDOT-PA-PPFDOT - PATCHING - PCC PARTIAL DEPTHSqFt75HighCORNER SPALLFDOT-PA-PPFDOT - PATCHING - PCC PARTIAL DEPTHSqFt76LowASRFDOT-MO-PVFDOT - MONITORN/A76MediumASRFDOT-PA-PFFDOT - PATCHING - PCC FULL DEPTHSqFt	74	High	JOINT 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	75	Low	CORNER SPALL	FDOT-CS-PC	FDOT - CRACK SEALING - PCC	Ft
76 Low ASR FDOT-MO-PV FDOT - MONITOR N/A 76 Medium ASR FDOT-PA-PF FDOT - PATCHING - PCC FULL DEPTH SqFt	75	Medium	CORNER SPALL	FDOT-PA-PP	FDOT - PATCHING - PCC PARTIAL DEPTH	SqFt
76 Medium ASR FDOT-PA-PF FDOT - PATCHING - PCC FULL 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 High ASR FDOT-SL-PC FDOT - SLAB REPLACEMENT - PCC SqFt	76	Medium	ASR	FDOT-PA-PF	FDOT - PATCHING - PCC FULL DEPTH	SqFt
	76	High	ASR	FDOT-SL-PC	FDOT - SLAB REPLACEMENT - PCC	SqFt

Airport Pavement

Evaluation Report





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	Planni	ing Material Cost
FDOT - PATCHING - AC PARTIAL DEPTH	PREVENTIVE	640	SqFt	\$	1,910.00
FDOT - SURFACE SEAL	PREVENTIVE	32,245	SqFt	\$	17,740.00
FDOT - PATCHING - AC FULL DEPTH	PREVENTIVE	80	SqFt	\$	460.00
FDOT - PATCHING - AC PARTIAL DEPTH	STOPGAP	153,865	SqFt	\$	461,590.00
FDOT - SURFACE SEAL	STOPGAP	419,135	SqFt	\$	230,530.00
FDOT - PATCHING - AC FULL DEPTH	STOPGAP	1,130	SqFt	\$	6,790.00
FDOT - CRACK SEALING - AC	STOPGAP	1,930	Ft	\$	5,790.00





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
X07	AP	4105	108,406	42	62	\$ 246,790.00
X07	AP	4110	27,382	48	75	\$ 26,970.00
X07	AP	4115	18,790	84	83	\$ 460.00
X07	AP	4205	37,971	85	92	\$ 860.00
X07	RW 17-35	6205	290,145	58	75	\$ 207,540.00
X07	RW 17-35	6206	3,155	62	81	\$ 2,230.00
X07	RW 6-24	6105	400,000	100	100	\$ -
X07	TW A	105	85,999	41	61	\$ 148,300.00
X07	TW A	110	3,314	20	57	\$ 10,300.00
X07	TW A	115	1,989	60	77	\$ 1,850.00
X07	TW A	120	2,159	62	75	\$ 2,200.00
X07	TW A	125	10,727	47	67	\$ 16,040.00
X07	TW A	130	57,272	94	94	\$ -
X07	TW A1	500	12,935	94	94	\$ -
X07	TW B	205	14,037	55	70	\$ 18,910.00
X07	TW B	207	8,945	62	77	\$ 6,840.00
X07	TW B	210	18,096	63	80	\$ 14,680.00
X07	TW B	215	2,166	62	75	\$ 2,180.00
X07	TW C	305	32,049	66	89	\$ 18,790.00





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	\$ 20,110.00
Stopgap	\$ 704,700.00
Planning-Level Localized M&R Needs =	\$ 724,810.00









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

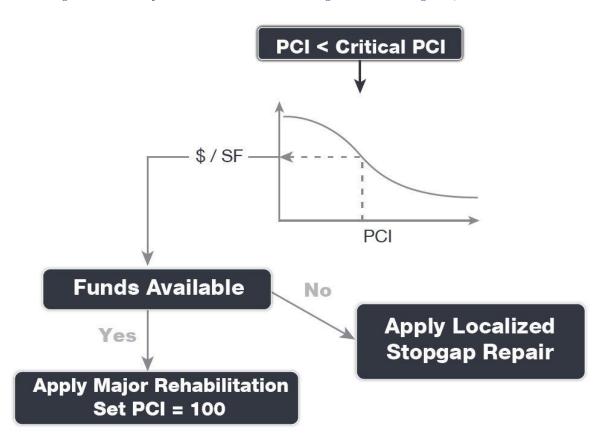
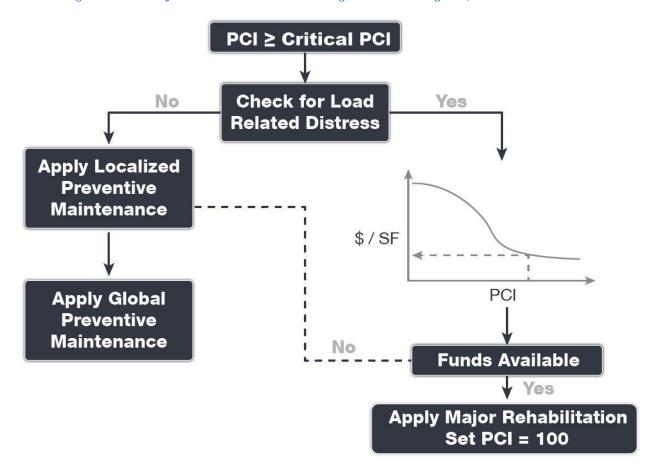






Figure 6.1-2 Major Rehabilitation Planning Decision Diagram, PCI > Critical PCI





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 Combination of asphalt pavement milling and overlay with 25% of the areas subject to full-depth reconstruction.	75% Mill and Overlay P-101 AC Milling (2") 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 Full-depth asphalt pavement section 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")
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





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	X07	AP	4105	AC	108,406	40	AC Restoration	\$ 961,000.00
2018	X07	AP	4110	AC	27,382	46	AC Restoration	\$ 210,000.00
2018	X07	RW 17-35	6205	AAC	290,145	56	AC Restoration	\$ 2,032,000.00
2018	X07	RW 17-35	6206	AAC	3,155	61	AC Restoration	\$ 23,000.00
2018	X07	TW A	105	AC	85,999	39	AC Restoration	\$ 775,000.00
2018	X07	TW A	110	AC	3,314	17	AC Reconstruction	\$ 30,000.00
2018	X07	TW A	115	AAC	1,989	58	AC Restoration	\$ 14,000.00
2018	X07	TW A	120	AAC	2,159	60	AC Restoration	\$ 16,000.00
2018	X07	TW A	125	AC	10,727	45	AC Restoration	\$ 85,000.00
2018	X07	TW B	205	AC	14,037	53	AC Restoration	\$ 99,000.00
2018	X07	TW B	207	AAC	8,945	60	AC Restoration	\$ 63,000.00
2018	X07	TW B	210	AAC	18,096	61	AC Restoration	\$ 127,000.00
2018	X07	TW B	215	AAC	2,166	60	AC Restoration	\$ 16,000.00
2018	X07	TW C	305	AAC	32,049	65	AC Restoration	\$ 225,000.00

^{*}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

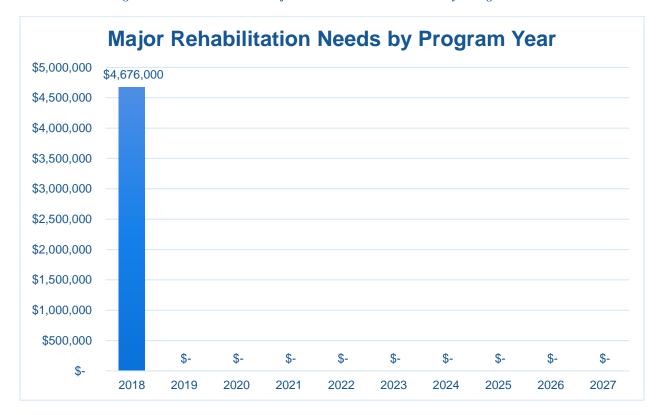
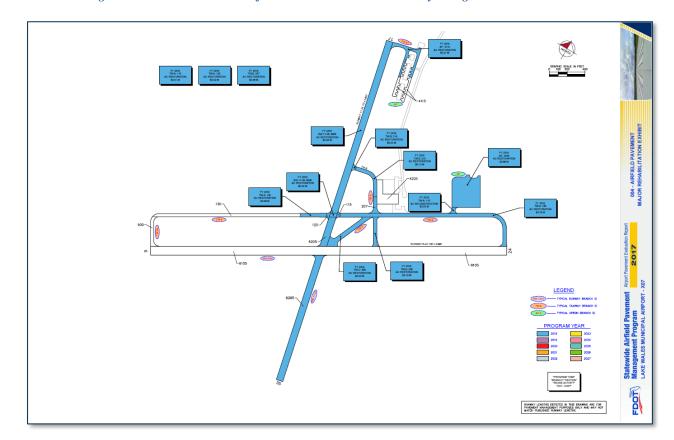






Figure 6.3.1-2 10-Year Major Rehabilitation Needs by Program Year Exhibit





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.

Statewide Airfield Pavement Management Program

Airport Pavement **Evaluation Report**

2017

Lake Wales Municipal Airport (X07)





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

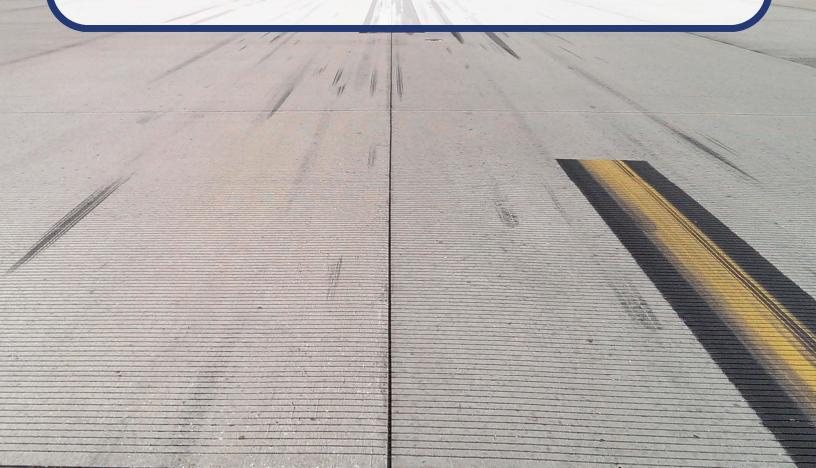






Table A-1 Pavement System Inventory Details

Network ID	Branch Name	Branch ID	Branch Use	Section ID	Length (FT)	Width (FT)	Area (SF)	Surface Type	Est. Last Construction Date
X07	APRON	AP	APRON	4105	340	320	108,406	AC	1/1/1988
X07	APRON	AP	APRON	4110	990	32	27,382	AC	1/1/2000
X07	APRON	AP	APRON	4115	480	32	18,790	AC	7/31/2008
X07	APRON	AP	APRON	4205	240	154	37,971	AC	7/31/2008
X07	RUNWAY 17-35	RW 17-35	RUNWAY	6205	3853	75	290,145	AAC	1/1/1997
X07	RUNWAY 17-35	RW 17-35	RUNWAY	6206	79	42	3,155	AAC	1/1/1997
X07	RUNWAY 6-24	RW 6-24	RUNWAY	6105	4000	100	400,000	AAC	6/1/2017
X07	TAXIWAY A	TW A	TAXIWAY	105	2100	40	85,999	AC	1/1/1978
X07	TAXIWAY A	TW A	TAXIWAY	110	65	35	3,314	AC	1/1/1988
X07	TAXIWAY A	TW A	TAXIWAY	115	66	40	1,989	AAC	1/1/1997
X07	TAXIWAY A	TW A	TAXIWAY	120	48	40	2,159	AAC	1/1/1997
X07	TAXIWAY A	TW A	TAXIWAY	125	275	40	10,727	AC	1/1/1978
X07	TAXIWAY A	TW A	TAXIWAY	130	1600	35	57,272	AC	9/1/2014
X07	TAXIWAY A1	TW A1	TAXIWAY	500	350	35	12,935	AC	9/1/2014
X07	TAXIWAY B	TW B	TAXIWAY	205	330	40	14,037	AC	1/1/1978
X07	TAXIWAY B	TW B	TAXIWAY	207	185	40	8,945	AAC	1/1/2004
X07	TAXIWAY B	TW B	TAXIWAY	210	400	40	18,096	AAC	1/1/2004
X07	TAXIWAY B	TW B	TAXIWAY	215	100	40	2,166	AAC	1/1/1997
X07	TAXIWAY C	TW C	TAXIWAY	305	550	50	32,049	AAC	1/1/2004





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

Network ID	Branch Name	Branch Use	Section ID	Area (SF)	PCI	Condition Rating
X07	RUNWAY 6-24	RUNWAY	6105	400,000	100	Good
X07	RUNWAY 17-35	RUNWAY	6205	290,145	58	Fair
X07	RUNWAY 17-35	RUNWAY	6206	3,155	62	Fair
X07	TAXIWAY A	TAXIWAY	105	85,999	41	Poor
X07	TAXIWAY A	TAXIWAY	110	3,314	20	Serious
X07	TAXIWAY A	TAXIWAY	115	1,989	60	Fair
X07	TAXIWAY A	TAXIWAY	120	2,159	62	Fair
X07	TAXIWAY A	TAXIWAY	125	10,727	47	Poor
X07	TAXIWAY A	TAXIWAY	130	57,272	94	Good
X07	TAXIWAY A1	TAXIWAY	500	12,935	94	Good
X07	TAXIWAY B	TAXIWAY	205	14,037	55	Poor
X07	TAXIWAY B	TAXIWAY	207	8,945	62	Fair
X07	TAXIWAY B	TAXIWAY	210	18,096	63	Fair
X07	TAXIWAY B	TAXIWAY	215	2,166	62	Fair
X07	TAXIWAY C	TAXIWAY	305	32,049	66	Fair
X07	APRON	APRON	4105	108,406	42	Poor
X07	APRON	APRON	4110	27,382	48	Poor
X07	APRON	APRON	4115	18,790	84	Satisfactory
X07	APRON	APRON	4205	37,971	85	Satisfactory





Table A-3 Forecasted PCI 2018-2027

Network ID	Propob ID	Section ID	Loct BCL					Forecas	sted PC	I			
Network ID	Branch ID	Section ID	Last PCI	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
X07	AP	4105	42	40	39	37	35	34	32	31	29	28	26
X07	AP	4110	48	46	45	43	41	40	38	37	35	34	32
X07	AP	4115	84	82	81	79	77	76	74	73	71	70	68
X07	AP	4205	85	83	82	80	78	77	75	74	72	71	69
X07	RW 17-35	6205	58	56	55	52	50	47	44	41	37	34	32
X07	RW 17-35	6206	62	61	61	60	60	60	60	60	60	60	59
X07	RW 6-24	6105	100	98	96	94	92	90	88	85	83	80	78
X07	TW A	105	41	39	38	36	35	34	33	32	31	30	29
X07	TW A	110	20	17	14	11	9	6	3	1	0	0	0
X07	TW A	115	60	58	56	55	53	51	50	48	47	46	45
X07	TW A	120	62	60	59	57	55	54	52	50	49	47	46
X07	TW A	125	47	45	44	42	40	39	37	36	35	34	33
X07	TW A	130	94	91	89	86	84	82	79	77	76	74	72
X07	TW A1	500	94	91	89	86	84	82	79	77	76	74	72
X07	TW B	205	55	53	52	50	49	47	46	44	42	41	39
X07	TW B	207	62	60	59	57	55	54	52	50	49	47	46
X07	TW B	210	63	61	60	58	56	55	53	51	50	48	47
X07	TW B	215	62	60	59	57	55	54	52	50	49	47	46
X07	TW C	305	66	65	63	62	60	59	57	55	53	52	50

7/6/2017	Work History Report	Page 1 of 4
	Payament Database, FDOT	

		Pavem	ent Database	e: F	FDOT				
Network:	LAKE WA	ALES MUN	Branch: AP		APRO	N	Section:	4105	Surface: AC
L.C.D.: 1/1/1	988 Us	se: APRON	Rank: P	Ler	ngth: 340	.00 (Ft) Wi	dth: 320.	00 (Ft) True Area:	108,406.00 (SqFt)
Work Date	Work Code	Work I	Description		Cost	Thickness (in)	Major M&R	Comi	ments
1/1/1988	IMPORT ED	BUILT			0.00	1.25	>		OT TYPE S-1 ON 6"
1/1/1988		OVERLAY			0.00	0.00	>	LIME ROCK BASE SOIL: SP-SM	ON 12 COMPAC
Network:	LAKE WA	ALES MUN	Branch: AP		APRO	N	Section:	4110	Surface: AC
L.C.D.: 1/1/2		se: APRON	Rank: T	Ler				00 (Ft) True Area:	
Work Date	Work Code		Description		Cost	Thickness (in)	Major M&R	Comi	
1/1/2000	NU-IN	New Construc	tion - Initial		0.00	0.00	V		
Network: L.C.D.: 7/31/		ALES MUN	Branch: AP Rank: T	I.er	APRO		Section:	4115 00 (Ft) True Area:	Surface: AC
Work Date	Work Code		Description		Cost	Thickness (in)	Major M&R	Com	
7/31/2008	NU-IN	New Construc	tion - Initial		0.00	0.00	V		
Network: L.C.D.: 7/31/		ALES MUN se: APRON	Branch: AP Rank: T	Ler	APRO		Section:	4205 00 (Ft) True Area:	Surface: AC 37,971.00 (SqFt)
		se: APRON		Ler					37,971.00 (SqFt)
L.C.D.: 7/31/	2008 Us Work	se: APRON	Rank: T Description	Ler	ngth: 240	.00 (Ft) Wi	dth: 154. Major	00 (Ft) True Area:	37,971.00 (SqFt)
L.C.D.: 7/31/ Work Date 7/31/2008	Work Code NU-IN	se: APRON Work I	Rank: T Description etion - Initial Branch: RW	17-3	Cost 0.00	Thickness (in) 0.00 VAY 17-35	Major M&R	00 (Ft) True Area:	37,971.00 (SqFt) ments Surface: AAC
L.C.D.: 7/31/ Work Date 7/31/2008 Network:	Work Code NU-IN	Work I New Construct ALES MUN se: RUNWAY	Rank: T Description etion - Initial Branch: RW	17-3	Cost 0.00 85 RUNW	Thickness (in) 0.00 VAY 17-35	Major M&R	Comm	37,971.00 (SqFt) ments Surface: AAC 290,145.00 (SqFt)
L.C.D.: 7/31/ Work Date 7/31/2008 Network: L.C.D.: 1/1/1	Work Code NU-IN LAKE WA 997 Us Work Code IMPORT	Work I New Construct ALES MUN se: RUNWAY Work I	Rank: T Description tion - Initial Branch: RW Rank: S	17-3	Cost 0.00 55 RUNW ngth: 3,853	.00 (Ft) Wi Thickness (in) 0.00 VAY 17-35 .00 (Ft) Wi Thickness	Major M&R Section: dth: 75.4	00 (Ft) True Area: Com 6205 00 (Ft) True Area:	37,971.00 (SqFt) ments Surface: AAC 290,145.00 (SqFt) ments
L.C.D.: 7/31/ Work Date 7/31/2008 Network: L.C.D.: 1/1/1 Work Date	2008 Us Work Code NU-IN LAKE WA 997 Us Work Code IMPORT ED	Work I New Construct ALES MUN se: RUNWAY Work I	Rank: T Description tion - Initial Branch: RW Rank: S	17-3	Cost 0.00 55 RUNW ngth: 3,853 Cost	7.00 (Ft) Wirthickness (in) 0.00 VAY 17-35 .00 (Ft) Wirthickness (in)	Major M&R Section: dth: 75.0 Major M&R	00 (Ft) True Area: Comm 6205 00 (Ft) True Area: Comm	37,971.00 (SqFt) ments Surface: AAC 290,145.00 (SqFt) ments
L.C.D.: 7/31/ Work Date 7/31/2008 Network: L.C.D.: 1/1/1 Work Date 1/1/1997	Work Code NU-IN LAKE WA 997 Us Work Code IMPORT ED IMPORT	Work I New Construct ALES MUN Se: RUNWAY Work I BUILT	Rank: T Description tion - Initial Branch: RW Rank: S	17-3	Cost 0.00 Cost	.00 (Ft) Wi Thickness (in) 0.00 VAY 17-35 .00 (Ft) Wi Thickness (in) 0.00	Major M&R Section: dth: 75.0 Major M&R	Comi 6205 00 (Ft) True Area: Comi 1997 AC OVERLAY ESTIMATE 1942 A	37,971.00 (SqFt) ments Surface: AAC 290,145.00 (SqFt) ments
L.C.D.: 7/31/ Work Date 7/31/2008 Network: L.C.D.: 1/1/1 Work Date 1/1/1997 1/1/1942	Work Code NU-IN LAKE WA 997 Us Work Code IMPORT ED IMPORT ED	Work I New Construct ALES MUN Se: RUNWAY Work I BUILT	Rank: T Description tion - Initial Branch: RW Rank: S	17-3 Ler	Cost 0.00 Cost 0.00 S RUNW ngth: 3,853 Cost 0.00 0.00	.00 (Ft) Wi Thickness (in) 0.00 VAY 17-35 .00 (Ft) Wi Thickness (in) 0.00	Major M&R Section: dth: 75.0 Major M&R	Comm 6205 00 (Ft) True Area: Comm 1997 AC OVERLAY ESTIMATE 1942 AG BASE	37,971.00 (SqFt) ments Surface: AAC 290,145.00 (SqFt) ments
L.C.D.: 7/31/ Work Date 7/31/2008 Network: L.C.D.: 1/1/1 Work Date 1/1/1997 1/1/1942	Work Code NU-IN LAKE WA 997 Us Work Code IMPORT ED IMPORT ED LAKE WA 997 Us	Work I New Construct ALES MUN See: RUNWAY Work I BUILT OVERLAY	Rank: T Description tion - Initial Branch: RW Rank: S Description Branch: RW	17-3 Ler	Cost 0.00 Cost	700 (Ft) Wind Thickness (in) 0.00 WAY 17-35 0.00 (Ft) Wind Thickness (in) 0.00 WAY 17-35 0.00 (Ft) Wind Thickness (in) 0.00	Major M&R Section: dth: 75.0 Major M&R V Section: dth: 42.0	Comm 6205 00 (Ft) True Area: Comm 1997 AC OVERLAY ESTIMATE 1942 AG BASE	37,971.00 (SqFt) ments Surface: AAC 290,145.00 (SqFt) ments Y C ON LIMEROCK Surface: AAC
L.C.D.: 7/31/ Work Date 7/31/2008 Network: L.C.D.: 1/1/1 Work Date 1/1/1997 1/1/1942 Network:	Work Code NU-IN LAKE WA 997 Us Work Code IMPORT ED IMPORT ED LAKE WA	Work I New Construct ALES MUN Se: RUNWAY WORK I OVERLAY ALES MUN Se: RUNWAY WORK I WORK I	Rank: T Description tion - Initial Branch: RW Rank: S Description Branch: RW	17-3 Ler	Cost 0.00 Cost	7AY 17-35 00 (Ft) Wi Thickness (in) 0.00 VAY 17-35 00 (Ft) Wi Thickness (in) 0.00 0.00	Major M&R Section: dth: 75.0 Major M&R V Section:	Comm 6205 00 (Ft) True Area: Comm 1997 AC OVERLAY ESTIMATE 1942 AG BASE	37,971.00 (SqFt) ments Surface: AAC 290,145.00 (SqFt) ments Y C ON LIMEROCK Surface: AAC 3,155.00 (SqFt) ments

Pavement Management System PAVER 7.0 TM

0.00

V

0.00

ESTIMATE 1978 AC PAVEMENT

IMPORT OVERLAY ED

1/1/1978

Work History Report Pavement Database: FDOT

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		Pavement Database:	FDOT							
- 10011101111		ALES MUN Branch: RW 6-2		VAY 6-24			Surface: AAC			
L.C.D.: 6/1/2	1	se: RUNWAY Rank: P L	ength: 4,000			00 (Ft) True Area:	400,000.00 (SqFt)			
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comm	nents			
6/1/2017	ML-OV	MILL and OVERLAY	0.00	0.00	~	1" Mill; 3" P-401				
1/1/1978	IMPORT ED	OVERLAY	0.00	0.00	>	1978: AC OVERLA' UNKNOWN)	Y (THICKNESS			
1/1/1940	IMPORT	BUILT	0.00	1.25	V	1940'S: 1.25" AC SU	JRFACE ON 6"			
	ED		l			BASE COURSE				
Notwork	IAKEWA	ALES MUN Branch: TW A	TAYI	WAY A	Section:	105	Surface: AC			
L.C.D.: 1/1/1						00 (Ft) True Area:				
	Work			Thickness	Major					
Work Date	Code	Work Description	Cost	(in)	M&R	Comm				
1/1/1978	IMPORT ED	BUILT	0.00	0.00	>	ESTIMATE: 1978 A	C PAVEMENT			
Network:	LAKE WA	ALES MUN Branch: TW A	TAXI	WAY A	Section:	110	Surface: AC			
L.C.D.: 1/1/1	988 Us	se: TAXIWAY Rank: P L	ength: 65	.00 (Ft) Wid	dth: 35.0	00 (Ft) True Area:	3,314.00 (SqFt)			
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comm	nents			
1/1/1988	IMPORT ED	OVERLAY	0.00	0.00	\	SOIL: SP-SM				
1/1/1988	IMPORT	BUILT	0.00	1.25	>	1988: 1.25" AC - DC				
	ED		ı			LIME ROCK BASE	ON 12" COMPAC			
Network:	LAKE WA	ALES MUN Branch: TW A	TAXIV	WAY A	Section:	115	Surface: AAC			
L.C.D.: 1/1/1						00 (Ft) True Area:				
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comr	-			
1/1/1997	IMPORT	OVERLAY	0.00	()	V	1997 AC OVERLAY				
1/1/1942	ED IMPORT	BUILT	0.00	0.00	V	1942 AC ON LIMER	ROCK			
1, 1, 1, 12	ED	20121	0.00	0.00	<u> </u>	i i i i i i i i i i i i i i i i i i i				
		ALES MUN Branch: TW A		WAY A		120	Surface: AAC			
L.C.D.: 1/1/1	ı	se: TAXIWAY Rank: P L	ength: 48			00 (Ft) True Area:	2,159.00 (SqFt)			
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comm	nents			
1/1/1997	IMPORT ED	OVERLAY	0.00	0.00	\	1997 AC OVERLAY	7			
1/1/1942	IMPORT	BUILT	0.00	0.00	V	1942 AC ON LIMER	ROCK			
	ED		l							
Not	IAVEWA	JECMIN P TWA	TT A 3213	MAN A	Castin	125	Samfons AC			
Network: L.C.D.: 1/1/1	Network: LAKE WALES MUN Branch: TW A TAXIWAY A Section: 125 Surface: AC L.C.D.: 1/1/1978 Use: TAXIWAY Rank: P Length: 275.00 (Ft) Width: 40.00 (Ft) True Area: 10,727.00 (SqFt)									
	Work			Thickness	Major					
Work Date	Code	Work Description	Cost	(in)	M&R	Comr				
1/1/1978	IMPORT ED	BUILT	0.00	0.00	~	ESTIMATE 1978 A	C PAVEMENT			
	1									

Work History Report

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Pavement Database: FDOT

	Favement Database: FDO1											
Network:	LAKE WA	ALES MUN Branch: TW A	TAXI	WAY A	Section:	130 Surface: AC						
L.C.D.: 9/1/2			ength: 1,600	.00 (Ft) Wi		00 (Ft) True Area: 57,272.00 (SqFt)						
Work Date	Work	Work Description	Cost	Thickness	Major	Comments						
9/1/2014	Code NC-AC	New Construction - AC	0.00	(in) 0.00	M&R ✓	4" P-401; 6" P-211; 12" P-152						
<i>)</i> /1/2014	ne ne	New Construction The	0.00	0.00	<u>V</u> .	+ 1 +01, 0 1 211, 12 1 132						
Network:	LAKE WA	ALES MUN Branch: TW A	1 TAXI	WAY A1	Section:	500 Surface: AC						
L.C.D.: 9/1/2	014 Us	se: TAXIWAY Rank: P	ength: 350	.00 (Ft) Wi	dth: 35.0	00 (Ft) True Area: 12,935.00 (SqFt)						
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments						
9/1/2014		New Construction - AC	0.00	0.00	V	4" P-401; 6" P-211; 12" P-152						
	I											
Network:	LAKE WA	ALES MUN Branch: TW B	TAXI	WAY B	Section:	205 Surface: AC						
L.C.D.: 1/1/1	978 Us	se: TAXIWAY Rank: P I	ength: 330	.00 (Ft) Wi	dth: 40.	00 (Ft) True Area: 14,037.00 (SqFt)						
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments						
1/1/1978	IMPORT	BUILT	0.00	0.00	V	ESTIMATE 1978 AC PAVEMENT						
	ED											
Network:	LAKE WA	ALES MUN Branch: TW B	TAXI	WAY B	Section:	207 Surface: AAC						
L.C.D.: 1/1/2						00 (Ft) True Area: 8,945.00 (SqFt)						
Work Date	Work		Cost	Thickness	Major	Comments						
	Code OL-AT	Work Description		(in)	M&R	Comments						
1/1/2004 1/1/1968	IMPORT	Overlay - AC Thin BUILT	0.00	2.00 0.00	ント	ESTIMATE 1968 AC PAVEMENT						
-, -, -, -,	ED				<u>.</u>							
N	LAKEWA	TECHUNI D. I. WILL	T 4 X X X	WAY D	g	210						
Network: L.C.D.: 1/1/2		ALES MUN Branch: TW B se: TAXIWAY Rank: P I		WAY B .00 (Ft) Wi o	Section:	210 Surface: AAC 00 (Ft) True Area: 18,096.00 (SqFt)						
	Work			Thickness	Major							
Work Date	Code	Work Description	Cost	(in)	M&R	Comments						
1/1/2004		Overlay - AC Thin	0.00	2.00	>	EGEN (ATE 1055 A C DAVENENT						
1/1/1955	IMPORT ED	BUILT	0.00	0.00	>	ESTIMATE 1955 AC PAVEMENT						
Network:	LAKE WA	ALES MUN Branch: TW B	TAXIV	WAY B	Section:	215 Surface: AAC						
L.C.D.: 1/1/1		se: TAXIWAY Rank: P I	ength: 100	. ,		00 (Ft) True Area: 2,166.00 (SqFt)						
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments						
1/1/1997	IMPORT	OVERLAY	0.00	0.00	V	1997 AC OVERLAY						
1/1/1942	ED IMPORT	BUILT	0.00	0.00	V :	1942 AC ON LIMEROCK						
5,1,17,12	ED		1 0.50	0.00		J. J. T. O. C. Dividication						
	T A 77 TO TO T	TEGNUM -			G	205						
		ALES MUN Branch: TW C		WAY C	Section:							
L.C.D.: 1/1/2	Work			.00 (Ft) Wie	dth: 50.0 Major	00 (Ft) True Area: 32,049.00 (SqFt)						
Work Date	Code	Work Description	Cost	(in)	M&R	Comments						
1/1/2004	OL-AT	Overlay - AC Thin	0.00	2.00		ECOND (A TIP 10 CO A C D A VID) (D)						
1/1/1968	IMPORT ED	BUILT	0.00	0.00	>	ESTIMATE 1968 AC PAVEMENT						

Work History Report

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Pavement Database: FDOT

Summary:

Work Description	Section Count	Area Total (SqFt)	Thickness Avg (in)	Thickness STD (in)
BUILT	14	981,187.00	0.27	0.51
MILL and OVERLAY	1	400,000.00	0.00	0.00
New Construction - AC	2	70,207.00	0.00	0.00
New Construction - Initial	3	84,143.00	0.00	0.00
OVERLAY	8	811,334.00	0.00	0.00
Overlay - AC Thin	3	59,090.00	2.00	0.00

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	4	2,050.00	134.50	192,549.00	APRON	64.75	19.87	55.43
RW 17-35	2	3,932.00	58.50	293,300.00	RUNWAY	60.00	2.00	58.04
RW 6-24	1	4,000.00	100.00	400,000.00	RUNWAY	100.00	0.00	100.00
TW A	6	4,154.00	38.33	161,460.00	TAXIWAY	54.00	22.63	60.28
TW A1	1	350.00	35.00	12,935.00	TAXIWAY	94.00	0.00	94.00
TW B	4	1,015.00	40.00	43,244.00	TAXIWAY	60.50	3.20	60.15
TW C	1	550.00	50.00	32,049.00	TAXIWAY	66.00	0.00	66.00

7/6/2017	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	4	192549.000058858	64.75	19.87	55.43
RUNWAY	3	693300.000210961	73.33	18.93	82.25
TAXIWAY	12	249688.000075716	60.50	19.41	62.74
ALL	19	1135537.00034554	63.42	19.97	73.41

Pavement Database: FDOT

NetworkId: X07

i avemeni Daia	0430.1201		Networkia. Auf							
Branch ID	Section ID	Last Const. Date	Surface	Use	Rank	Lanes	True Area (SqFt)	Last Inspection Date	Age At Inspec tion	
AP	4105	1/1/1988	AC	APRON	Р	0	108,406.00	3/9/2017	29	42
AP	4110	1/1/2000	AC	APRON	Т	0	27,382.00	3/9/2017	17	48
AP	4115	7/31/2008	AC	APRON	Т	0	18,790.00	3/9/2017	9	84
AP	4205	7/31/2008	AC	APRON	Т	0	37,971.00	3/9/2017	9	85
RW 17-35	6205	1/1/1997	AAC	RUNWAY	S	0	290,145.00	3/9/2017	20	58
RW 17-35	6206	1/1/1997	AAC	RUNWAY	S	0	3,155.00	3/9/2017	20	62
RW 6-24	6105	6/1/2017	AAC	RUNWAY	Р	0	400,000.00	6/1/2017	0	100
TW A	105	1/1/1978	AC	TAXIWAY	Р	0	85,999.00	3/9/2017	39	41
TW A	110	1/1/1988	AC	TAXIWAY	Р	0	3,314.00	3/9/2017	29	20
TW A	115	1/1/1997	AAC	TAXIWAY	Р	0	1,989.00	3/9/2017	20	60
TW A	120	1/1/1997	AAC	TAXIWAY	Р	0	2,159.00	3/9/2017	20	62
TW A	125	1/1/1978	AC	TAXIWAY	Р	0	10,727.00	3/9/2017	39	47
TW A	130	9/1/2014	AC	TAXIWAY	Р	0	57,272.00	3/9/2017	3	94
TW A1	500	9/1/2014	AC	TAXIWAY	Р	0	12,935.00	3/9/2017	3	94
TW B	205	1/1/1978	AC	TAXIWAY	Р	0	14,037.00	3/9/2017	39	55
TW B	207	1/1/2004	AAC	TAXIWAY	Р	0	8,945.00	3/9/2017	13	62
TW B	210	1/1/2004	AAC	TAXIWAY	Р	0	18,096.00	3/9/2017	13	63
TW B	215	1/1/1997	AAC	TAXIWAY	Р	0	2,166.00	3/9/2017	20	62
TW C	305	1/1/2004	AAC	TAXIWAY	Р	0	32,049.00	3/9/2017	13	66

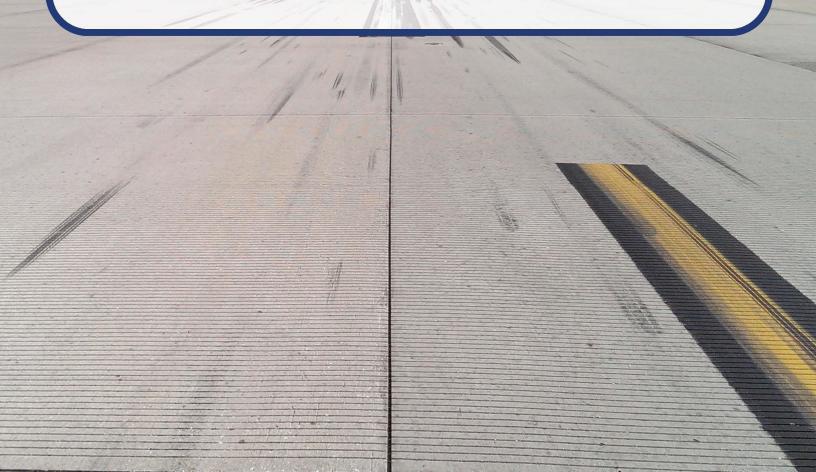
7/6/2017	Section Condition Report (Summary)	Page 2 of 2
	Pavement Database: FDOT	

Age Category	Average Age at Inspection	Total Area (SqFt)	Number of Sections	Arithmetic Average PCI	Standard Deviation PCI	Weighted Average PCI
00-02		400,000.00	1	100.00	0.00	100.00
03-05	3	70,207.00	2	94.00	0.00	94.00
06-10	9	56,761.00	2	84.50	0.50	84.67
11-15	13	59,090.00	3	63.67	1.70	64.48
16-20	20	326,996.00	6	58.67	4.99	57.27
26-30	29	111,720.00	2	31.00	11.00	41.35
36-40	39	110,763.00	3	47.67	5.73	43.36
ALL	19	1,135,537.00	19	63.42	19.97	73.41



Appendix B

Airfield Pavement Localized Maintenance and Repair and Major Rehabilitation



2017





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
X07	AP	4105	45	DEPRESSION	Low	151.77	SqFt	0.1%	FDOT - PATCHING - AC FULL DEPTH	205.59	SqFt	\$ 6.00	\$ 1,240.00
X07	AP	4105	52	RAVELING	Low	32521.76	SqFt	30.0%	FDOT - SURFACE SEAL	32522.08	SqFt	\$ 0.55	\$ 17,890.00
X07	AP	4105	52	RAVELING	Medium	75884.17	SqFt	70.0%	FDOT - PATCHING - AC PARTIAL DEPTH	75884.49	SqFt	\$ 3.00	\$ 227,660.00
X07	AP	4110	41	ALLIGATOR CR	Low	414.84	SqFt	1.5%	FDOT - PATCHING - AC FULL DEPTH	500.52	SqFt	\$ 6.00	\$ 3,010.00
X07	AP	4110	52	RAVELING	Low	21388.43	SqFt	78.1%	FDOT - SURFACE SEAL	21387.89	SqFt	\$ 0.55	\$ 11,770.00
X07	AP	4110	52	RAVELING	Medium	3657.36	SqFt	13.4%	FDOT - PATCHING - AC PARTIAL DEPTH	3657.58	SqFt	\$ 3.00	\$ 10,980.00
X07	AP	4110	52	RAVELING	High	402.79	SqFt	1.5%	FDOT - PATCHING - AC PARTIAL DEPTH	402.57	SqFt	\$ 3.00	\$ 1,210.00
X07	AP	4115	45	DEPRESSION	Low	44.35	SqFt	0.2%	FDOT - PATCHING - AC FULL DEPTH	75.35	SqFt	\$ 6.00	\$ 460.00
X07	AP	4205	49	OIL SPILLAGE	N/A	25.08	SqFt	0.1%	FDOT - PATCHING - AC PARTIAL DEPTH	49.51	SqFt	\$ 3.00	\$ 150.00
X07	AP	4205	52	RAVELING	Low	664.13	SqFt	1.8%	FDOT - SURFACE SEAL	664.13	SqFt	\$ 0.55	\$ 370.00
X07	AP	4205	52	RAVELING	High	112.81	SqFt	0.3%	FDOT - PATCHING - AC PARTIAL DEPTH	113.02	SqFt	\$ 3.00	\$ 340.00
X07	RW 17-35	6205	48	L&TCR	Medium	1378.18	Ft	0.5%	FDOT - CRACK SEALING - AC	1378.28	Ft	\$ 3.00	\$ 4,140.00
X07	RW 17-35	6205	52	RAVELING	Low	272252.77	SqFt	93.8%	FDOT - SURFACE SEAL	272252.7	SqFt	\$ 0.55	\$ 149,750.00
X07	RW 17-35	6205	52	RAVELING	Medium	17882.62	SqFt	6.2%	FDOT - PATCHING - AC PARTIAL DEPTH	17882.08	SqFt	\$ 3.00	\$ 53,650.00
X07	RW 17-35	6206	52	RAVELING	Low	2955.02	SqFt	93.7%	FDOT - SURFACE SEAL	2954.69	SqFt	\$ 0.55	\$ 1,630.00
X07	RW 17-35	6206	52	RAVELING	Medium	199.99	SqFt	6.3%	FDOT - PATCHING - AC PARTIAL DEPTH	200.21	SqFt	\$ 3.00	\$ 600.00
X07	TW A	105	41	ALLIGATOR CR	Low	279.22	SqFt	0.3%	FDOT - PATCHING - AC FULL DEPTH	350.9	SqFt	\$ 6.00	\$ 2,110.00
X07	TW A	105	45	DEPRESSION	Low	42.95	SqFt	0.1%	FDOT - PATCHING - AC FULL DEPTH	73.19	SqFt	\$ 6.00	\$ 440.00
X07	TW A	105	48	L&TCR	Medium	429.56	Ft	0.5%	FDOT - CRACK SEALING - AC	429.46	Ft	\$ 3.00	\$ 1,290.00
X07	TW A	105	52	RAVELING	Low	44711.24	SqFt	52.0%	FDOT - SURFACE SEAL	44711.13	SqFt	\$ 0.55	\$ 24,600.00
X07	TW A	105	52	RAVELING	Medium	39951.87	SqFt	46.5%	FDOT - PATCHING - AC PARTIAL DEPTH	39952.41	SqFt	\$ 3.00	\$ 119,860.00
X07	TW A	110	48	L&TCR	Medium	110.01	Ft	3.3%	FDOT - CRACK SEALING - AC	109.91	Ft	\$ 3.00	\$ 330.00
X07	TW A	110	48	L&TCR	High	6	Ft	0.2%	FDOT - CRACK SEALING - AC	5.91	Ft	\$ 3.00	\$ 20.00
X07	TW A	110	52	RAVELING	Medium	2500.03	SqFt	75.4%	FDOT - PATCHING - AC PARTIAL DEPTH	2500.46	SqFt	\$ 3.00	\$ 7,500.00
X07	TW A	110	52	RAVELING	High	813.97	SqFt	24.6%	FDOT - PATCHING - AC PARTIAL DEPTH	813.75	SqFt	\$ 3.00	\$ 2,450.00
X07	TW A	115	48	L&TCR	Medium	4.99	Ft	0.3%	FDOT - CRACK SEALING - AC	4.92	Ft	\$ 3.00	\$ 20.00
X07	TW A	115	52	RAVELING	Low	1688.97	SqFt	84.9%	FDOT - SURFACE SEAL	1688.86	SqFt	\$ 0.55	\$ 930.00
X07	TW A	115	52	RAVELING	Medium	299.99	SqFt	15.1%	FDOT - PATCHING - AC PARTIAL DEPTH	300.31	SqFt	\$ 3.00	\$ 900.00
X07	TW A	120	52	RAVELING	Low	1750	SqFt	81.1%	FDOT - SURFACE SEAL	1750.21	SqFt	\$ 0.55	\$ 970.00
X07	TW A	120	52	RAVELING	Medium	409.03	SqFt	18.9%	FDOT - PATCHING - AC PARTIAL DEPTH	409.03	SqFt	\$ 3.00	\$ 1,230.00
X07	TW A	125	52	RAVELING	Low	6289.14	SqFt	58.6%	FDOT - SURFACE SEAL	6289.35	SqFt	\$ 0.55	\$ 3,460.00
X07	TW A	125	52	RAVELING	Medium	4192.76	SqFt	39.1%	FDOT - PATCHING - AC PARTIAL DEPTH	4192.54	SqFt	\$ 3.00	\$ 12,580.00
X07	TW B	205	52	RAVELING	Low	9474.93	SqFt	67.5%	FDOT - SURFACE SEAL	9475.47	SqFt	\$ 0.55	\$ 5,220.00
X07	TW B	205	52	RAVELING	Medium	4562.07	SqFt	32.5%	FDOT - PATCHING - AC PARTIAL DEPTH	4561.75	SqFt	\$ 3.00	\$ 13,690.00
X07	TW B	207	52	RAVELING	Low	8162.27	SqFt	91.3%	FDOT - SURFACE SEAL	8162.27	SqFt	\$ 0.55	\$ 4,490.00
X07	TW B	207	52	RAVELING	Medium	782.64	SqFt	8.8%	FDOT - PATCHING - AC PARTIAL DEPTH	782.54	SqFt	\$ 3.00	\$ 2,350.00
X07	TW B	210	52	RAVELING	Low	16171.91	SqFt	89.4%	FDOT - SURFACE SEAL	16171.7	SqFt	\$ 0.55	\$ 8,900.00
X07	TW B	210	52	RAVELING	Medium	1924.05	SqFt	10.6%	FDOT - PATCHING - AC PARTIAL DEPTH	1924.59	SqFt	\$ 3.00	\$ 5,780.00

Statewide Airfield Pavement Management Program Airport Pavement Evaluation Report

2017

Lake Wales Municipal Airport (X07)





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
X07	TW B	215	52	RAVELING	Low	1766.03	SqFt	81.5%	FDOT - SURFACE SEAL	1766.36	SqFt	\$ 0.55	\$ 980.00
X07	TW B	215	52	RAVELING	Medium	399.99	SqFt	18.5%	FDOT - PATCHING - AC PARTIAL DEPTH	400.42	SqFt	\$ 3.00	\$ 1,200.00
X07	TW C	305	52	RAVELING	Low	31575.82	SqFt	98.5%	FDOT - SURFACE SEAL	31575.93	SqFt	\$ 0.55	\$ 17,370.00
X07	TW C	305	52	RAVELING	Medium	473.18	SqFt	1.5%	FDOT - PATCHING - AC PARTIAL DEPTH	473.61	SqFt	\$ 3.00	\$ 1,420.00





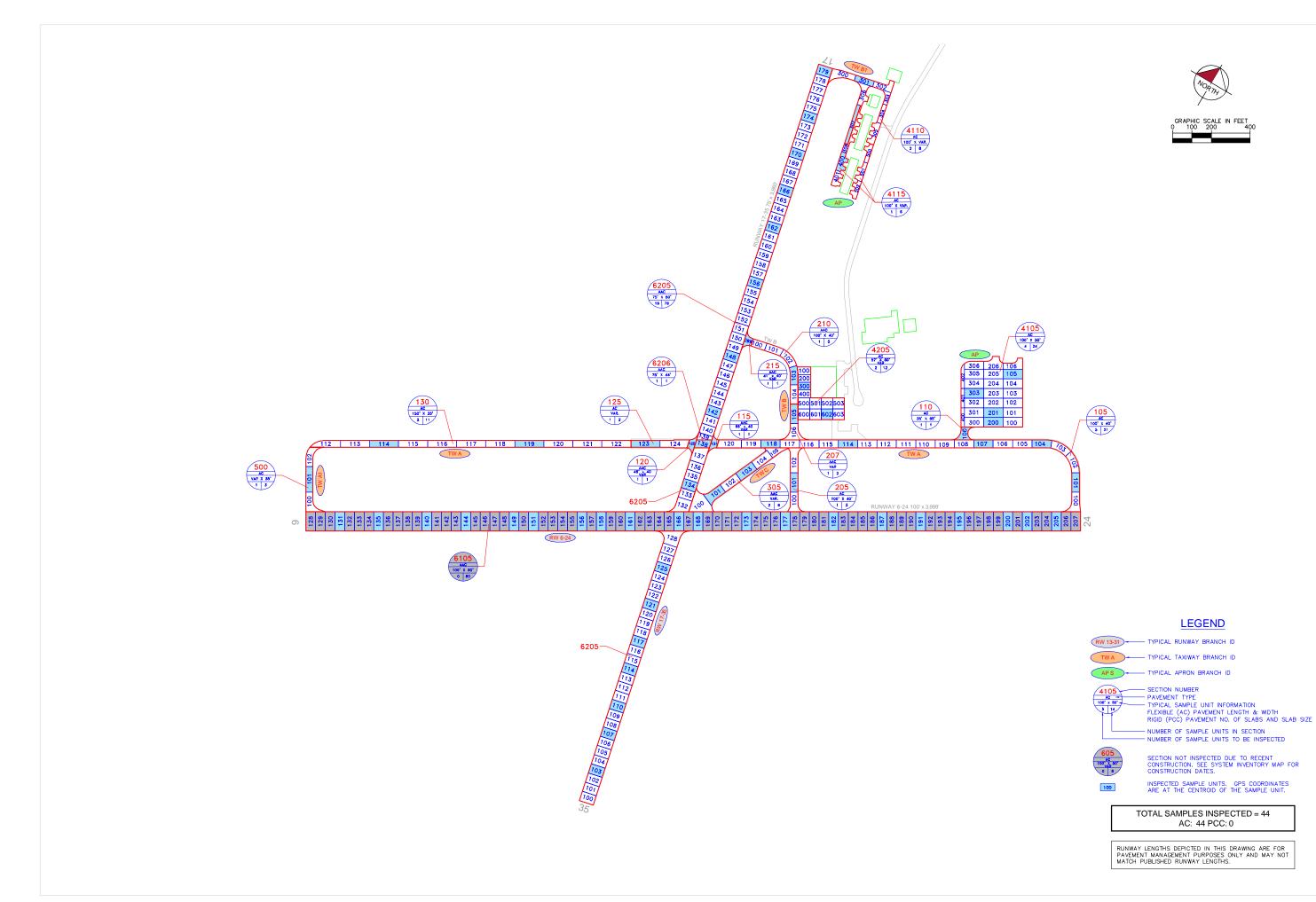
Table B-2 10-Year Major Rehabilitation Planning Needs at Section Level

Program Year	Network ID	Branch ID	Section ID	Surface	Area (SF)	PCI Before	Rehabilitation Type	Planning Cost
2018	X07	AP	4105	AC	108,406	40	AC Restoration	\$ 961,000.00
2018	X07	AP	4110	AC	27,382	46	AC Restoration	\$ 210,000.00
2018	X07	RW 17-35	6205	AAC	290,145	56	AC Restoration	\$ 2,032,000.00
2018	X07	RW 17-35	6206	AAC	3,155	61	AC Restoration	\$ 23,000.00
2018	X07	TW A	105	AC	85,999	39	AC Restoration	\$ 775,000.00
2018	X07	TW A	110	AC	3,314	17	AC Reconstruction	\$ 30,000.00
2018	X07	TW A	115	AAC	1,989	58	AC Restoration	\$ 14,000.00
2018	X07	TW A	120	AAC	2,159	60	AC Restoration	\$ 16,000.00
2018	X07	TW A	125	AC	10,727	45	AC Restoration	\$ 85,000.00
2018	X07	TW B	205	AC	14,037	53	AC Restoration	\$ 99,000.00
2018	X07	TW B	207	AAC	8,945	60	AC Restoration	\$ 63,000.00
2018	X07	TW B	210	AAC	18,096	61	AC Restoration	\$ 127,000.00
2018	X07	TW B	215	AAC	2,166	60	AC Restoration	\$ 16,000.00
2018	X07	TW C	305	AAC	32,049	65	AC Restoration	\$ 225,000.00



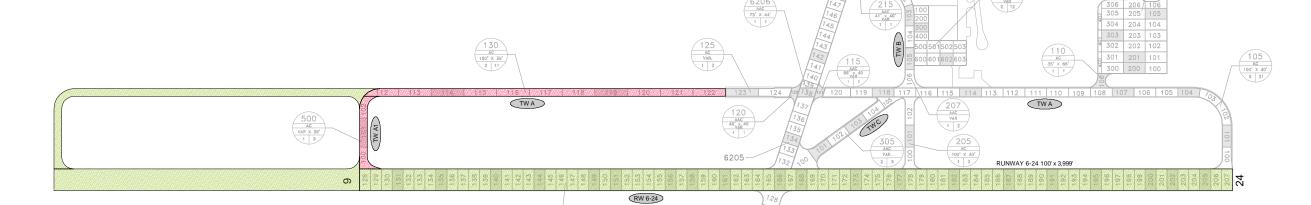
Appendix C

Technical Exhibits



CONSTRUCTION SINCE LAST INSPECTION & ANTICIPATED CONSTRUCTION ACTIVITY

arition riles contented non-rich		
CONSTRUCTION YEAR	LOCATION	WORK TYPE / PAVEMENT SECTION
2014	TW A, TW A1	NEW CONSTRUCTION/ 4" P-401, 6" P-211, 12" P-152
2017	RW 6-24	MILL AND OVERLAY/ 1" MILL, 3" P-401
2017	RW 6-24, TW A	NEW CONSTRUCTION/ 4" P-401, 6" P-211, 12" P-152

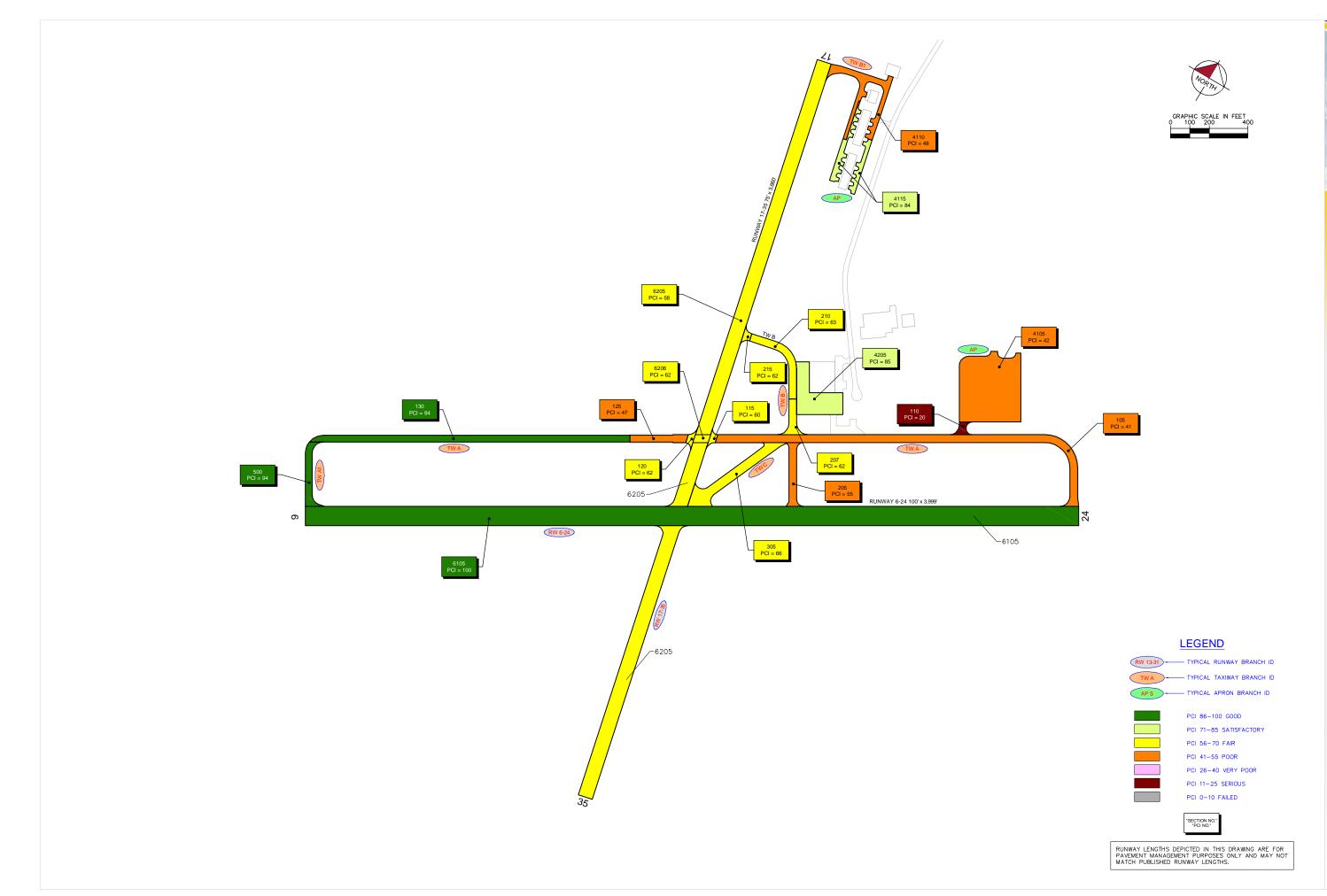


6205-

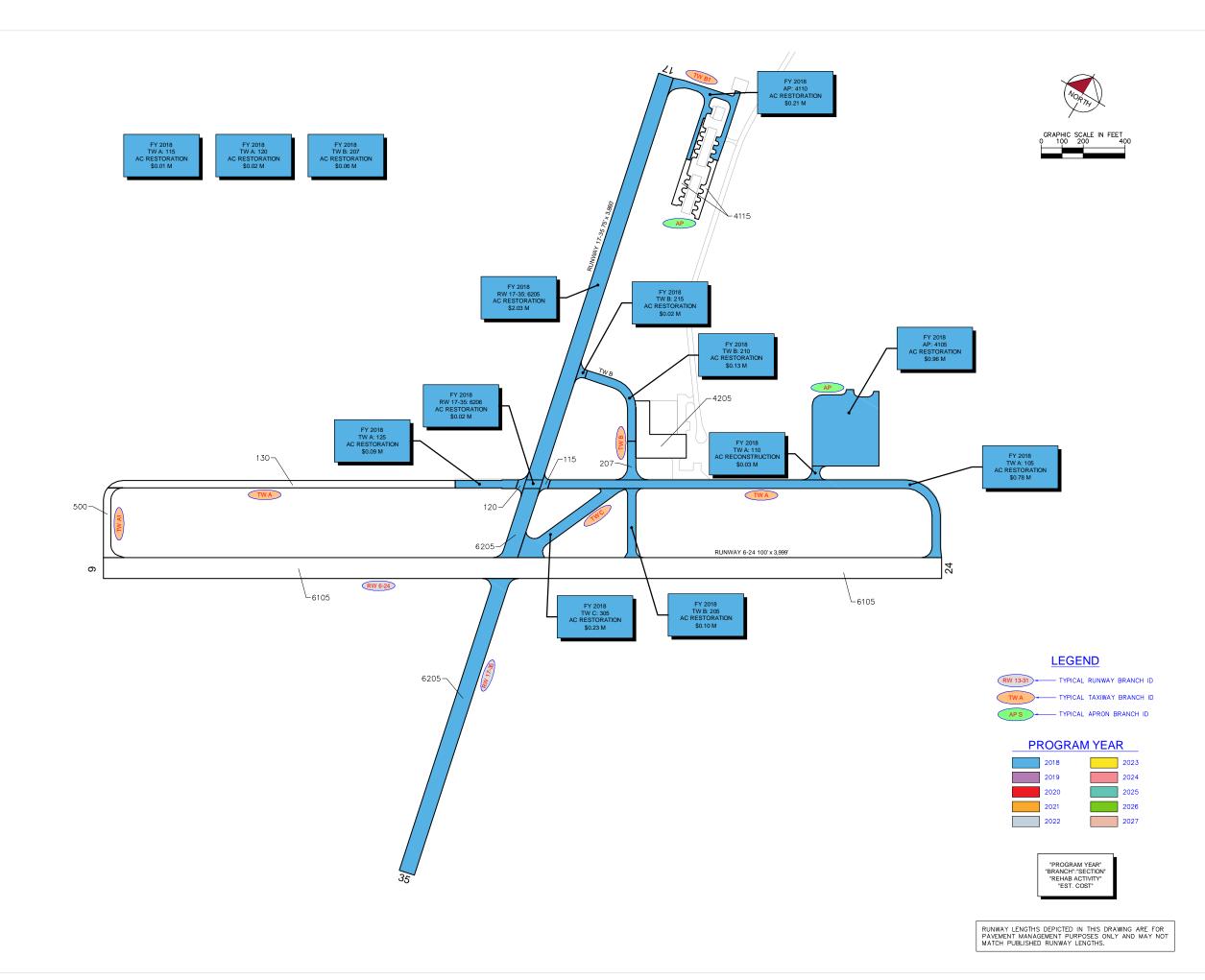
LEGEND



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



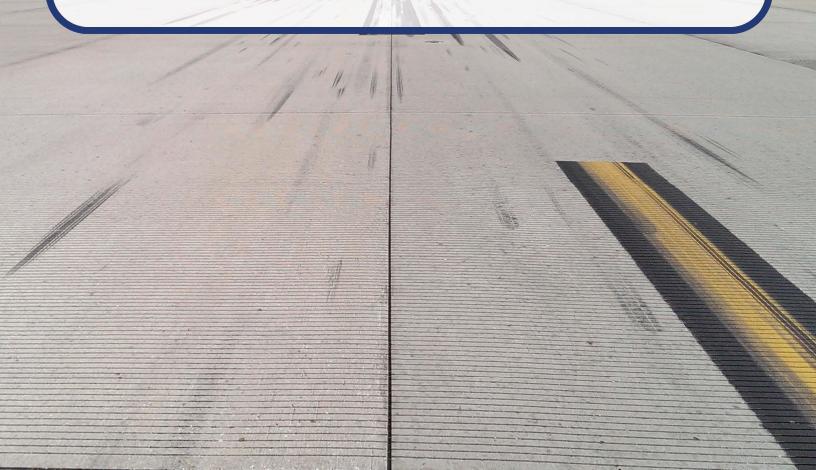






Appendix D

Inspection Photograph Documentation









Runway 17-35, Section 6205, Sample Unit 103 - Low and Medium Severity (48) Longitudinal and Transverse Cracking, Low Severity (52) Raveling



Runway 17-35, Section 6205, Sample Unit 142 - Low and Medium Severity (48) Longitudinal and Transverse Cracking, Low Severity (52) Raveling, Medium Severity (52) Raveling

Airport Pavement

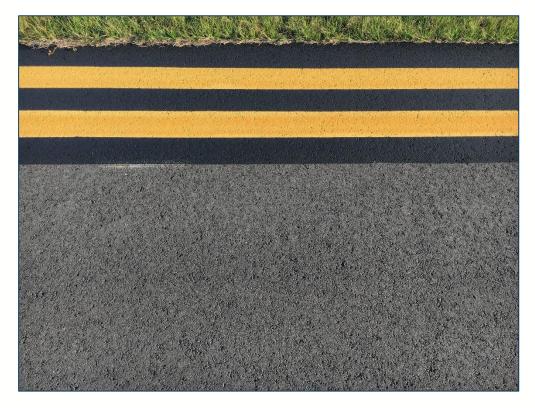
Evaluation Report







Runway 17-35, Section 6205, Sample Unit 179 - Low and Medium Severity (48) Longitudinal and Transverse Cracking, Low Severity (52) Raveling, Medium Severity (52) Raveling



Taxiway A, Section 130, Sample Unit 114 - Low Severity (57) Weathering







Taxiway A, Section 105, Sample Unit 118 – Low Severity (43) Block Cracking, Low Severity (48) Longitudinal and Transverse Cracking, Low Severity (50) Patching, Low Severity (52) Raveling, Medium Severity (52) Raveling



Taxiway A, Section 105, Sample Unit 104 – Low Severity (41) Alligator Cracking, Low and Medium Severity (48) Longitudinal and Transverse Cracking, Low Severity (52) Raveling, Medium Severity (52) Raveling







Apron, Section 4205, Sample Unit 602 - (49) Oil Spillage



Apron, Section 4105, Sample Unit 105 – Low Severity (45) Depression, Low Severity (48) Longitudinal and Transverse Cracking, Low Severity (52) Raveling, Medium Severity (52) Raveling





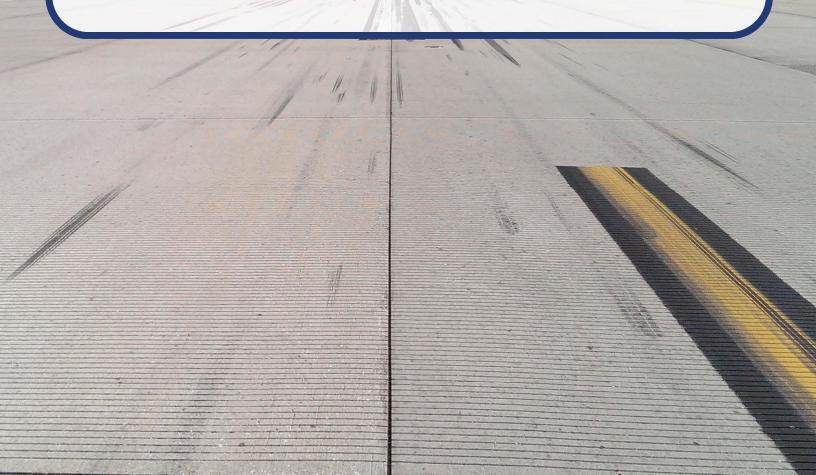


Apron, Section 4110, Sample Unit 301 – Low Severity (41) Alligator Cracking Low Severity (48) Longitudinal and Transverse Cracking, Low Severity (50) Patching, Low Severity (52) Raveling, Medium Severity (52) Raveling, High Severity (52) Raveling



Appendix E

Inspection Distress Details



Re-Inspection Report

FDOT

Page 1 of 24 **Generated Date** 7/6/2017

Gener	rated Date			7/6	5/2017										rage ror
Netwo	ork: X07						Nai	me: LA	KE WALES	MUNICIPAL	AIRPOI	RT			
Branc	ch: AP				Name:	APRO)N		Use:	APRON		Area:	19	2,549 SqFt	
Sectio	on: 4105		O	f 4		From:	-			То: -				Last Const.	: 1/1/1988
Surfa	ce: AC		Family:	C91	N59-GA-A	AP-AC	Zor	ne:		Categor	y:			Rank: P	
Area:		108,40	06 SqFt		Length	:	340	Ft	Width:	320) Ft				
Slabs	:		Slab Lei	ngth:		Ft		Slab Width:		Ft		Joint Le	ngth:		Ft
Shoul	der:		Street T	ype:				Grade: 0				Lanes:	0		
Sectio	on Comments	s:													
Work	Date: 1/1/1	988	W	ork T	ype: OV	ERLAY			-	Code: IMPOF	RTED	Is N	Iajor M	I&R: True	
Work	Date: 1/1/1	988	W	ork T	Type: BU	ILT			-	Code: IMPOF	RTED	Is N	Iajor M	I&R: True	
Last I	Insp. Date:	3/9/2017			Total	Samples:	24		Surve	yed: 4					
Condi	itions: PC	I : 42													
Inspe	ction Comm	ents:													
Samp	le Number:	105	Ty	pe:	R		Area:	500	0.00 SqFt	PC	I : 44				
-	le Comment		•	•					•						
45	DEPRESSI	ON]	L	12.00	SqFt								
48	L & T CR				L	23.00	-								
52	RAVELING	3]	L	2000.00									
52	RAVELING]	M	3000.00	SqFt								
Samp	le Number:	200	Ty	pe:	R	I	Area:	500	0.00 SqFt	PC	I : 40				
Samp	le Comment	s:													
48	L & T CR]	L	15.00	Ft								
52	RAVELING	3]	L	1000.00									
52	RAVELING	3]	M	4000.00	SqFt								
Samp	le Number:	201	Ty	pe:	R	1	Area:	500	0.00 SqFt	PC	I: 43				
Samp	le Comment	s:													
48	L & T CR]	L	13.00	Ft								
52	RAVELING	3]	L	1500.00									
52	RAVELING	3]	M	3500.00	SqFt								
Samp	le Number:	303	Ty	pe:	R		Area:	500	0.00 SqFt	PC	I : 39				
	le Comment														
45	DEPRESSI	ON]	L	16.00	SqFt								
48	L & T CR				L	74.00									
52	RAVELING	3			M	3500.00									
52	RAVELING	3]	L	1500.00	SqFt								

Network:	X07				Na	me: LA	KE WALES	MUNICIPAL .	AIRPORT	Γ				
Branch:	AP		Nan	ne: APRO	ON		Use:	APRON	1	Area:	1	92,549	SqFt	
Section:	4110	C	of 4	From:				To:				Last	Const.:	1/1/2000
Surface:	AC	Family:	C9N59-0	GA-AP-AC	Zo	ne:		Categor	y:			Rank	: T	
Area:		27,382 SqFt	Le	ngth:	990	Ft	Width:	32	Ft					
Slabs:		Slab Lei	ngth:	Ft		Slab Width:		Ft		Joint I	ength:		Ft	
Shoulder:		Street T	ype:			Grade: 0)			Lanes:	0			
Section Co	mments:													
Work Date	: 1/1/2000	W	ork Type:	New Constructi	ion - Ini	itial	C	Code: NU-IN		Is	Major I	M&R:	True	
Last Insp. 1	Date: 3/9/2	2017	7	TotalSamples:	0		Surveye	ed: 2						
				l otaisambies:	8									
Conditions	: PCI:	48		otaisampies:	8		Surveye	-						
	: PCI:	48	,	otaisampies:	8		Surveye	2						
Inspection		48		•	8 Area:	300	00.00 SqFt		I: 28					
Inspection Sample Nu	Comments:	48		•		300			I: 28					
Inspection Sample Nu Sample Co	Comments:	48 : Ty		•	Area:				I: 28					
Inspection Sample Nu Sample Co 41 ALI	Comments:	48 : Ty	pe: F		Area: SqFt				I: 28					
Inspection Sample Nu Sample Co 41 ALI 48 L&	Comments: mber: 301 mments:	48 : Ty	pe: F	103.00	Area: SqFt Ft				I: 28					
Inspection Sample Nu Sample Co 41 ALI 48 L & 50 PAT	Comments: mber: 301 mments: LIGATOR C	48 : Ty	pe: F L L	103.00 231.00	Area: SqFt Ft SqFt				I: 28					
Sample Nu Sample Co 41 ALI 48 L & 50 PAT 52 RAV	Comments: mber: 301 mments: LIGATOR C T CR TCHING	48 : Ty	pe: F L L L	103.00 231.00 480.00	Area: SqFt Ft SqFt SqFt				I: 28					
Sample Nu Sample Co 41 ALI 48 L & 50 PAT 52 RAN	Comments: mber: 301 mments: LIGATOR C T CR TCHING VELING	48 : Ty	pe: F L L L L	103.00 231.00 480.00 1892.00	Area: SqFt Ft SqFt SqFt SqFt SqFt				I: 28					
Sample Nu Sample Co 41 ALI 48 L & 50 PAT 52 RA 52 RA 52 RA	Comments: mber: 301 mments: LIGATOR C T CR TCHING VELING VELING	48 :: 1 Ty	pe: F L L L L M H	103.00 231.00 480.00 1892.00 528.00 100.00	Area: SqFt Ft SqFt SqFt SqFt SqFt			PC	I: 28 I: 65					
Sample Nu Sample Co 41 ALI 48 L & 50 PAT 52 RAY 52 RAY 52 RAY Sample Nu	Comments: mber: 301 mments: LIGATOR C T CR TCHING VELING VELING VELING WELING mber: 307	48 : 1 Ty CR 7 Ty	pe: F	103.00 231.00 480.00 1892.00 528.00 100.00	Area: SqFt Ft SqFt SqFt SqFt SqFt SqFt Area:		00.00 SqFt	PC						
Sample Nu Sample Co 41 ALI 48 L & 50 PAT 52 RA 52 RA 52 RA Sample Nu Sample Co	Comments: mber: 301 mments: LIGATOR C T CR TCHING VELING VELING VELING WELING mber: 307	48 : 1 Ty CR 7 Ty	pe: F	103.00 231.00 480.00 1892.00 528.00 100.00	Area: SqFt Ft SqFt SqFt SqFt SqFt Area:		00.00 SqFt	PC						
Sample Nu Sample Co 41 ALI 48 L & 50 PAT 52 RAY 52 RAY 52 RAY Sample Nu Sample Co 48 L &	Comments: mber: 301 mments: LIGATOR C T CR TCHING VELING VELING VELING VELING mber: 307 mments:	48 : 1 Ty CR 7 Ty	Pe: F L L L L M H Pe: F	103.00 231.00 480.00 1892.00 528.00 100.00	Area: SqFt Ft SqFt SqFt SqFt SqFt Area: n. Ft	379	00.00 SqFt	PC						

Network:	X07			Nan	ne: LAK	E WALES N	MUNICIPAL AI	RPORT	
Branch:	AP		Name:	APRON		Use:	APRON	Area:	192,549 SqFt
Section:	4115	of	4	From: -			То: -		Last Const.: 7/31/2008
Surface:	AC	Family:	C9N59-GA-	AP-AC Zon	e:		Category:		Rank: T
Area:	1	8,790 SqFt	Length	: 480 I	it	Width:	32 F	't	
Slabs:		Slab Len	gth:	Ft	Slab Width:		Ft	Join	t Length: Ft
Shoulder:		Street Ty	pe:		Grade: 0			Land	es: 0
Section Co	mments:								
Work Date	7/31/2008	Wo	ork Type: Ne	w Construction - Init	ial	C	ode: NU-IN]	Is Major M&R: True
Last Insp. l	Date: 3/9/20	017	Total	Samples: 6		Surveye	d: 1		
Conditions	: PCI:	84							
Inspection	Comments:								
Sample Nu	mber: 400	Тур	e: R	Area:	3386.	00 SqFt	PCI:	84	
Sample Co	mments:								
45 DEF	PRESSION		L	8.00 SqFt					
48 L &	T CR		L	94.00 Ft					
57 WE	ATHERING		L	3386.00 SqFt					

Network: X07			Name:	LAKE WALES N	MUNICIPAL AIRPO	RT	
Branch: AP	N	ame: APRC	DN	Use:	APRON	Area:	192,549 SqFt
Section: 4205	of 4	From:	-		То: -		Last Const.: 7/31/2008
Surface: AC	Family: C9N59	9-GA-AP-AC	Zone:		Category:		Rank: T
Area: 37,9	971 SqFt I	Length:	240 Ft	Width:	154 Ft		
Slabs:	Slab Length:	Ft	Slab Widt	th:	Ft	Joint Lengtl	n: Ft
Shoulder:	Street Type:		Grade:	0		Lanes:)
Section Comments:							
Work Date: 7/31/2008	Work Typ	e: New Construction	on - Initial	Co	ode: NU-IN	Is Majo	r M&R: True
Last Insp. Date: 3/9/201	7	TotalSamples:	12	Surveye	d: 2		
Conditions: PCI: 85							
Inspection Comments:							
Sample Number: 300	Type:	R	Area: 2	2640.00 SqFt	PCI: 89		
Sample Comments:							
52 RAVELING	L	106.00	SqFt				
57 WEATHERING	L	2534.00	SqFt				
Sample Number: 602	Type:	R A	Area: 3	3420.00 SqFt	PCI: 82		
Sample Comments:							
52 RAVELING	Н	18.00	SqFt				
57 WEATHERING	L	3402.00	SqFt				
49 OIL SPILLAGE	N	4.00	SqFt				

	: X07						KE WALES			
Branch:	RW 17-35			lame:	RUNWAY	7 17-35	Use:	RUNWAY	Area:	293,300 SqFt
Section:	6205	of	f 2		From: -			To: -		Last Const.: 1/1/1997
Surface:	AAC	Family:	C9N5 APC	9-GA-I	RW-AAC- Z	Zone:		Category:		Rank: S
Area:	290,14	45 SqFt		Length		3 Ft	Width:	75 Ft		
Slabs:		Slab Len	gth:		Ft	Slab Width:		Ft	Joint Length	: Ft
Shoulder	:	Street Ty	ype:			Grade: 0			Lanes: 0	
Section (Comments:									
Work Da	nte: 1/1/1942	Wo	ork Ty	pe: OV	ERLAY		C	Code: IMPORTED	Is Major	M&R: True
Work Da	nte: 1/1/1997	We	ork Ty	pe: BU	ILT		C	code: IMPORTED) Is Major	M&R: True
Last Insp	Date: 3/9/2017			Total	Samples: 76		Surveye	ed: 16		
Conditio	ns: PCI: 58									
Inspectio	on Comments:									
Sample N	Number: 103	Тур	e:	R	Area	: 375	0.00 SqFt	PCI:	60	
Sample (Comments:									
	& T CR		M		50.00 Ft					
	& T CR		L		222.00 Ft	5 .				
	AVELING WELLING		L L		3750.00 Sql 50.00 Sql					
	Number: 107	Тур		R	Area		0.00 SqFt	PCI: 5	50	
_	Comments:	*J P	ж.	IX.	11100	• 3.0	0.00 bqr t	101,	39	
_			M		50.00 Sal	P.				
	AVELING & T CR		M L		50.00 Sql 291.00 Ft	ft				
	AVELING		L		3700.00 Sql	₽t				
	WELLING		L		150.00 Sql					
	Number: 110	Тур		R	Area		0.00 SqFt	PCI:	59	
-	Comments:	√ ±		-		•				
	& T CR		M		50.00 Ft					
	& T CR		L		314.00 Ft					
	AVELLING		L		3750.00 Sql					
	WELLING	TD	L		100.00 Sql		2 00 G F4	DOI:		
_	Number: 114	Тур	e:	R	Area	: 375	0.00 SqFt	PCI:	60	
_	Comments:									
	& T CR		L		210.00 Ft	_				
	AVELING		L		3500.00 Sql					
	WELLING AVELING		L M		60.00 Sql 250.00 Sql					
	Number: 117	Тур		R	Area		0.00 SqFt	PCI:	57	
_	Comments:	1 у р	ж.	K	Aita	. 373	0.00 Bq1 t	101.	<i>51</i>	
48 L	& T CR		L		205.00 Ft					
52 R.	AVELING		L		3000.00 Sql					
	WELLING		L		9.00 Sql					
	AVELING		M		750.00 Sql					
_	Number: 121 Comments:	Тур	e:	R	Area	: 375	0.00 SqFt	PCI: 6	64	
_					220.00 E					
	& T CR AVELING		L L		220.00 Ft 3500.00 Sql	Rt				
	AVELING AVELING		L M		250.00 Sql					
	Number: 125	Тур		R	Area		0.00 SqFt	PCI:	65	
_	Comments:	<i>J</i> P					•			
52 R.	AVELING		L		3000.00 Sql	Ft				
	AVELING		M		750.00 Sql					
										E-5

Samp	ole Number: 134	Type:		R Area:	3750.00 SqFt	PCI: 57
Samp	ole Comments:					
48	L & T CR		L	122.00 Ft		
50	PATCHING		L	12.00 SqFt		
52	RAVELING		L	3700.00 SqFt		
56	SWELLING		L	100.00 SqFt		
52	RAVELING		M	48.00 SqFt		
Samp	ole Number: 142	Type:		R Area:	3750.00 SqFt	PCI: 59
Samp	ole Comments:					
48	L & T CR		M	25.00 Ft		
48	L & T CR		L	147.00 Ft		
52	RAVELING		L	3600.00 SqFt		
52	RAVELING		M	150.00 SqFt		
Sami	ole Number: 148	Type:		R Area:	3750.00 SqFt	PCI: 54
	ole Comments:					
			м	50.00 Ft		
48 48	L & T CR L & T CR		M L	267.00 Ft		
52	RAVELING		L	3500.00 SqFt		
56	SWELLING		L	113.00 SqFt		
52	RAVELING		M	250.00 SqFt		
Samp	ole Number: 156	Type:		R Area:	3750.00 SqFt	PCI: 55
	ole Comments:	• •			•	
48	L & T CR		M	30.00 Ft		
56	SWELLING		L	50.00 SqFt		
48	L & T CR		L	317.00 Ft		
52	RAVELING		L	3500.00 SqFt		
52	RAVELING		M	250.00 SqFt		
Samp	ole Number: 162	Type:		R Area:	3750.00 SqFt	PCI: 54
Samp	ole Comments:					
48	L & T CR		M	12.00 Ft		
48	L & T CR		L	250.00 Ft		
52	RAVELING		L	3500.00 SqFt		
56	SWELLING		L	200.00 SqFt		
52	RAVELING		M	250.00 SqFt		
Samp	ole Number: 166	Type:		R Area:	3750.00 SqFt	PCI: 55
Samp	ole Comments:					
48	L & T CR		M	5.00 Ft		
48	L & T CR		L	215.00 Ft		
52	RAVELING		L	3500.00 SqFt		
56	SWELLING		L	200.00 SqFt		
52	RAVELING		M	250.00 SqFt		
	ole Number: 170	Type:		R Area:	3750.00 SqFt	PCI: 59
Samp	ole Comments:					
48	L & T CR		M	10.00 Ft		
48	L & T CR		L	126.00 Ft		
52	RAVELING		L	3600.00 SqFt		
52	RAVELING		M	150.00 SqFt	2850 00 = =	DOL 50
_	ole Number: 174	Type:		R Area:	3750.00 SqFt	PCI: 58
Samp	ole Comments:					
48	L & T CR		M	3.00 Ft		
56	SWELLING		L	11.00 SqFt		
48	L & T CR		L	150.00 Ft		
52 52	RAVELING RAVELING		L M	3700.00 SqFt 50.00 SqFt		
		Т			2750.00 8-E+	DCI. 57
_	ole Number: 179	Type:		R Area:	3750.00 SqFt	PCI: 57
samp	ole Comments:					
48	L & T CR		M	50.00 Ft		E-6
48	L & T CR		L	295.00 Ft		L-0

52	RAVELING	L 3500.00	SqFt
56	SWELLING	L 9.00	SqFt
52	RAVELING	M 250.00	SqFt

Network:	X07				Name:	LAK	E WALES I	MUNICIPA	L AIRPOR	RT		
Branch:	RW 17-35		Name:	RUNW	'AY 17-35		Use:	RUNWA	Υ	Area:	293,300	SqFt
Section:	6206	of	f 2	From: -				To:	-		Last	Const.: 1/1/199
Surface:	AAC	Family:	C9N59-GA-I APC	RW-AAC-	Zone:			Categ	gory:		Rank	:: S
Area:	3	,155 SqFt	Length	:	79 Ft		Width:		42 Ft			
Slabs:		Slab Len	gth:	Ft	Slab V	Width:		Ft		Joint Le	ngth:	Ft
Shoulder:		Street Ty	vpe:		Grade	e: 0				Lanes:	0	
Section Co	omments:											
Work Dat	e: 1/1/1978	W	ork Type: OV	ERLAY			C	ode: IMP	ORTED	Is M	ajor M&R:	True
Work Dat	e: 1/1/1997	W	ork Type: BU	TLT			C	ode: IMP	ORTED	Is M	ajor M&R:	True
Last Insp.	Date: 3/9/20	17	Total	Samples:	<u> </u>		Surveye	ed: 1				
Conditions	s: PCI : 6	2										
Inspection	Comments:											
Sample Nu	ımber: 138	Тур	e: R	A	rea:	3155.	.00 SqFt]	PCI: 62			
Sample Co	omments:											
48 L <i>&</i>	t T CR		L	120.00	Ft							
52 RA	VELING		L	2955.00								
56 SW	ELLING		L	20.00	SqFt							
52 RA	VELING		M	200.00	SqFt							

	r k: X07					Nan	e: LAKE WALES	MUNICIPAL AIRPO	ORT
Branch	RW 6-24		N	ame:	RUNV	WAY 6-2	24 Use	RUNWAY	Area: 400,000 SqFt
ection	: 6105	of	1	F	rom:	-		То: -	Last Const.: 6/1/201
urfac	e: AAC	Family:	C9N5 APC	9-GA-RV	W-AAC-	Zon	e:	Category:	Rank: P
rea:	400,000) SqFt]	Length:		4,000 F	t Width:	100 Ft	
labs:		Slab Leng	gth:		Ft		Slab Width:	Ft	Joint Length: Ft
hould	er:	Street Typ	pe:				Grade: 0		Lanes: 0
Section	Comments:								
Vork 1	Date: 1/1/1940	Wo	rk Tyj	pe: BUIL	LT .			Code: IMPORTED	Is Major M&R: True
Vork l	Date: 1/1/1978	Wo	rk Typ	pe: OVE	RLAY			Code: IMPORTED	Is Major M&R: True
Vork l	Date: 6/1/2017	Wo	rk Typ	pe: MILI	and OVE	RLAY		Code: ML-OV	Is Major M&R: True
ast Ir	sp. Date: 8/15/2013			TotalSa	amples:	80	Surve	yed: 20	
Condit	ions: PCI: 46				NO)TE: **	* Pre-Construction PCI	***	
		Trunc		R		1 200	5000.00 SqFt	PCI: 4	Q
_	e Number: 103 e Comments:	Туре	e:	K	I	Area:	3000.00 SqFt	rci: 4	o
3	BLOCK CRACKING		L		1600.00	SaEt			
	LONGITUDINAL/TR	ANSVERS			393.00	-			
	CRACKING				5 000 00	a =			
52 57	RAVELING WEATHERING		L M		5000.00	-			
8	LONGITUDINAL/TR	ANSVERS			5000.00 22.00	_			
	CRACKING	Town		R			5000 00 SaEt	PCI: 5	2
_	e Number: 107 e Comments:	Туре	e:	K	I	Area:	5000.00 SqFt	PCI; 3.	2
_					1100.00	a =			
	BLOCK CRACKING LONGITUDINAL/TR	ANGVEDC	L		1100.00 297.00	-			
	CRACKING	ANS VERS	E L		297.00	Γl			
	RAVELING		L		5000.00	SqFt			
	WEATHERING		M		5000.00	SqFt			
13	BLOCK CRACKING		L		700.00				
13	BLOCK CRACKING		L		22.00	SqFt			
Sample	Number: 112	Туре	e:	R	I	Area:	5000.00 SqFt	PCI: 4	9
Sample	e Comments:								
	LONGITUDINAL/TR CRACKING	ANSVERS	Е М		50.00	Ft			
18	LONGITUDINAL/TR CRACKING	ANSVERS	E L		340.00	Ft			
	WEATHERING		M		5000.00	SqFt			
52	RAVELING		L		5000.00	SqFt			
13	BLOCK CRACKING		L		1081.00	SqFt			
_	e Number: 116 e Comments:	Туре	e:	R	A	Area:	5000.00 SqFt	PCI: 4	1
18	LONGITUDINAL/TR	ANSVERS	E L		200.00	Ft			
8	CRACKING LONGITUDINAL/TR	ANSVERS	Е М		74.00	Ft			
	CRACKING WEATHERING		M		5000.00	SaFt			
	RAVELING		L		5000.00				
	BLOCK CRACKING		M		204.00	_			
13	BLOCK CRACKING		L		1488.00	_			
		Туре	٠.	R		Area:	5000.00 SqFt	PCI: 5	4
43	Number: 121	- J P	•						
3 Sample	e Number: 121 e Comments:	-7 [•						
43 Sample Sample		-38	L		350.00	SqFt			

43	BLOCK CRACKING	L	3	50.00	SqFt				
57	WEATHERING	M			SqFt				
52	RAVELING	L			SqFt				
43	BLOCK CRACKING	L	4	92.00	SqFt				
Samp	ole Number: 123 Type:		R	A	Area:	5000.00 SqFt	PCI:	45	
_	*-			_		1			
Samp	ole Comments:								
	WE A EUROPAIG		70	00.00	G . E.				
57	WEATHERING	M			SqFt				
52	RAVELING	L			SqFt				
43	BLOCK CRACKING	L	30	00.00	SqFt				
48	LONGITUDINAL/TRANSVERSE	L	1	24.00	Ft				
	CRACKING								
48	LONGITUDINAL/TRANSVERSE	M		66.00	Ft				
	CRACKING								
Samp	ole Number: 128 Type:		R	A	Area:	5000.00 SqFt	PCI:	53	
Samp	ole Comments:								
_									
48	LONGITUDINAL/TRANSVERSE	L	1	00.00	Ft				
	CRACKING								
57	WEATHERING	M	50	00.00	SqFt				
52	RAVELING	L			SqFt				
43	BLOCK CRACKING	L			-				
					SqFt				
43	BLOCK CRACKING	L			SqFt				
43	BLOCK CRACKING	L	2	64.00	SqFt				
Samn	ole Number: 130 Type:		R	A	Area:	5000.00 SqFt	PCI:	46	
_	ole Comments:					•			
~ r									
43	BLOCK CRACKING	L	12	50.00	SqFt				
52	RAVELING	L			SqFt				
57	WEATHERING	M			SqFt				
					-				
48	LONGITUDINAL/TRANSVERSE CRACKING	IVI		46.00	rı				
40				02.00	Т.				
48	LONGITUDINAL/TRANSVERSE CRACKING	L	1	02.00	Ft				
43	BLOCK CRACKING	L	16	00 00	SqFt				
Samp	ole Number: 133 Type:		R	A	Area:	5000.00 SqFt	PCI:	45	
Samn	ole Comments:								
Samp	ne comments.								
43	BLOCK CRACKING	L	26	50.00	SqFt				
48	LONGITUDINAL/TRANSVERSE			71.00	•				
40	CRACKING	L	1	/1.00	1.1				
			~ 0	00.00	a F.				
57	WEATHERING	M			SqFt				
52	RAVELING	L	50	00.00	SqFt				
48	LONGITUDINAL/TRANSVERSE	L	4	56.00	Ft				
	CRACKING								
Same	ole Number: 138 Type:		R		Area:	5000.00 SqFt	PCI:	51	
•	• •		11	F	11 Ca.	5000.00 bq1 t	1 (1.	J1	
Samp	ole Comments:								
		_			_				
48	LONGITUDINAL/TRANSVERSE	L	1	96.00	Ft				
	CRACKING								
57	WEATHERING	M	50	00.00	SqFt				
52	RAVELING	L			SqFt				
43	BLOCK CRACKING	L			SqFt				
						5000 00 C-E4	DOT:	10	
_	ole Number: 140 Type:		R	A	Area:	5000.00 SqFt	PCI:	48	
Samp	ole Comments:								
48				50.00	Et				
40	LONGITUDINAL /TDANGVEDGE	N/I		50.00	1't				
	LONGITUDINAL/TRANSVERSE	M							
48	CRACKING			~ - -	_				
.0	CRACKING LONGITUDINAL/TRANSVERSE		2	87.00	Ft				
	CRACKING LONGITUDINAL/TRANSVERSE CRACKING	L							
57	CRACKING LONGITUDINAL/TRANSVERSE				Ft SqFt				
	CRACKING LONGITUDINAL/TRANSVERSE CRACKING	L	50	00.00					
57	CRACKING LONGITUDINAL/TRANSVERSE CRACKING WEATHERING	L M	50 50	00.00	SqFt				
57 52 43	CRACKING LONGITUDINAL/TRANSVERSE CRACKING WEATHERING RAVELING BLOCK CRACKING	L M L	50 50 15	00.00 00.00 00.00	SqFt SqFt SqFt	5000 00 SaFt	рст.	52	
57 52 43 Samp	CRACKING LONGITUDINAL/TRANSVERSE CRACKING WEATHERING RAVELING BLOCK CRACKING Ole Number: 145 Type:	L M L	50 50	00.00 00.00 00.00	SqFt SqFt	5000.00 SqFt	PCI:	52	
57 52 43 Samp	CRACKING LONGITUDINAL/TRANSVERSE CRACKING WEATHERING RAVELING BLOCK CRACKING	L M L	50 50 15	00.00 00.00 00.00	SqFt SqFt SqFt	5000.00 SqFt	PCI:	52	
57 52 43 Samp	CRACKING LONGITUDINAL/TRANSVERSE CRACKING WEATHERING RAVELING BLOCK CRACKING Ole Number: 145 Type: Ole Comments:	L M L L	50 50 15	00.00 00.00 00.00	SqFt SqFt SqFt Area:	5000.00 SqFt	PCI:	52	
57 52 43 Samp	CRACKING LONGITUDINAL/TRANSVERSE CRACKING WEATHERING RAVELING BLOCK CRACKING Ole Number: 145 Type: Ole Comments: LONGITUDINAL/TRANSVERSE	L M L L	50 50 15	00.00 00.00 00.00	SqFt SqFt SqFt Area:	5000.00 SqFt	PCI:	52	F 40
57 52 43 Samp Samp	CRACKING LONGITUDINAL/TRANSVERSE CRACKING WEATHERING RAVELING BLOCK CRACKING Ole Number: 145 Type: Ole Comments: LONGITUDINAL/TRANSVERSE CRACKING	L M L L	50 50 15 R	00.00 00.00 00.00 A	SqFt SqFt SqFt Area:	5000.00 SqFt	PCI:	52	E-10
57 52 43 Samp	CRACKING LONGITUDINAL/TRANSVERSE CRACKING WEATHERING RAVELING BLOCK CRACKING Ole Number: 145 Type: Ole Comments: LONGITUDINAL/TRANSVERSE	L M L L	50 50 15 R	00.00 00.00 00.00	SqFt SqFt SqFt Area:	5000.00 SqFt	PCI:	52	E-10

	CRACKING							
57	WEATHERING	M		5000.00	SaFt			
52	RAVELING	L		5000.00	_			
43	BLOCK CRACKING	L		1700.00	_			
	e Number: 149 Type:		R		Area:	5000.00 SqFt	PCI:	<u>4</u> 1
_	· -		K	F	ııca.	5000.00 Bq1 t	1 (1.	71
Sampi	e Comments:							
48	LONGITUDINAL/TRANSVERSE CRACKING	M		67.00	Ft			
48	LONGITUDINAL/TRANSVERSE CRACKING	L		200.00	Ft			
48	LONGITUDINAL/TRANSVERSE CRACKING	L		68.00	Ft			
43	BLOCK CRACKING	L		348.00	SqFt			
52	RAVELING	M		276.00	SqFt			
52	RAVELING	L		3902.00	SqFt			
57	WEATHERING	M		3902.00	SqFt			
52	RAVELING	M		822.00	SqFt			
Sampl	e Number: 154 Type:		R	A	Area:	5000.00 SqFt	PCI:	43
Sampl	e Comments:							
50	PATCHING	L		49.00	SaFt			
57	WEATHERING	M		4464.00	_			
52	RAVELING	L		4464.00				
45	DEPRESSION	M		36.00				
45	DEPRESSION	L			SqFt			
50	PATCHING	L		238.00				
50	PATCHING	L			SqFt			
48	LONGITUDINAL/TRANSVERSE			312.00				
	CRACKING BLOCK CRACKING							
43 50	PATCHING	L L		644.00 240.00	_			
		L						
_	e Number: 159 Type:		R	A	Area:	5000.00 SqFt	PCI:	48
Sampl	e Comments:							
48	LONGITUDINAL/TRANSVERSE CRACKING	M		98.00	Ft			
48	LONGITUDINAL/TRANSVERSE CRACKING	L		246.00	Ft			
57	WEATHERING	M		4760.00	SqFt			
52	RAVELING	L		4760.00	SqFt			
43	BLOCK CRACKING	L		266.00	SqFt			
50	PATCHING	L		240.00	SqFt			
Sampl	e Number: 163 Type:		R	A	Area:	5000.00 SqFt	PCI:	42
Sampl	e Comments:							
43	BLOCK CRACKING	L		3000.00	SqFt			
48	LONGITUDINAL/TRANSVERSE CRACKING			441.00	_			
48	LONGITUDINAL/TRANSVERSE CRACKING	M		37.00	Ft			
57	WEATHERING	M		4980.00	SqFt			
52	RAVELING	L		4980.00	-			
50	PATCHING	L		20.00				
Sampl	le Number: 167 Type:		R	A	Area:	5000.00 SqFt	PCI:	47
_	e Comments:							
43	BLOCK CRACKING	L		1350.00	SaFt			
48	LONGITUDINAL/TRANSVERSE CRACKING			106.00	-			
48	LONGITUDINAL/TRANSVERSE CRACKING	L		225.00	Ft			
52	RAVELING	L		5000.00	SaFt			
57	WEATHERING	M		5000.00	-			
43	BLOCK CRACKING	L		200.00				
	e Number: 172 Type:	_	R		Area:	5000.00 SqFt	PCI:	40
_	e Comments:			F	~	2000.00 Bqr t	1 (1)	
50	PATCHING	L		16.00	SqFt			E-11
_ 0		_		10.00	~ 1. '			

48	LONGITUDINAL/TRANSVERSE CRACKING	M	141.00	Ft			
57	WEATHERING	M	4984.00	SqFt			
52	RAVELING	L	4984.00	_			
43	BLOCK CRACKING	L	2318.00	SqFt			
48	LONGITUDINAL/TRANSVERSE CRACKING	L	384.00	Ft			
Samp	ole Number: 174 Type:		R	rea:	5000.00 SqFt	PCI:	39
Samp	ole Comments:						
50	PATCHING	L	99.00	SqFt			
50	PATCHING	L	33.00	SqFt			
45	DEPRESSION	L	54.00	SqFt			
57	WEATHERING	M	4868.00	SqFt			
52	RAVELING	L	4868.00	SqFt			
48	LONGITUDINAL/TRANSVERSE CRACKING	M	91.00	Ft			
48	LONGITUDINAL/TRANSVERSE CRACKING	L	300.00	Ft			
43	BLOCK CRACKING	L	2500.00	SqFt			
Samp	ole Number: 177 Type:		R A	Area:	5000.00 SqFt	PCI:	45
Samp	ole Comments:						
50	PATCHING	L	90.00	SqFt			
50	PATCHING	L	35.00	-			
57	WEATHERING	M	4835.00	SqFt			
52	RAVELING	L	4835.00	SqFt			
48	LONGITUDINAL/TRANSVERSE CRACKING	L	417.00	Ft			
43	BLOCK CRACKING	L	3200.00	SqFt			
50	PATCHING	L	40.00	SqFt			

Netw	ork: X07			Name:	LAKE WALES N	MUNICIPAL AIRPO	RT	
Bran	ch: TW A		Name:	TAXIWAY A	Use:	TAXIWAY	Area: 161,	460 SqFt
Secti	on: 105	of 6	ō	From: -		То: -	I	Last Const.: 1/1/1978
Surfa	nce: AC	Family: C	9N59-GA-	TW-AC Zone:		Category:	I	Rank: P
Area	: 85,999	9 SqFt	Lengtl	2,100 Ft	Width:	40 Ft		
Slabs		Slab Length	_		b Width:	Ft	Joint Length:	Ft
	lder:	Street Type:			ade: 0	1.0	Lanes: 0	
	on Comments:	Street Type.	•	Gia	auc. 0		Lanes. 0	
	x Date: 1/1/1978	Work	Type: BU	III T		ode: IMPORTED	Is Major M&	· D· True
		WOIR					15 Major Ma	True
	Insp. Date: 3/9/2017		Tota	lSamples: 21	Surveye	ed: 5		
Cond	litions: PCI: 41							
Inspe	ection Comments:							
Samp	ole Number: 101	Type:	R	Area:	4000.00 SqFt	PCI: 41		
	ole Comments:				-			
			•	544.00 - 12				
48 52	L & T CR RAVELING		L L	544.00 Ft 1200.00 SqFt				
52 52	RAVELING		M	2800.00 SqFt				
	ole Number: 104	Type:	R	Area:	4021.00 SqFt	PCI: 30		
	ole Comments:	Type.	K	Aita.	4021.00 Sqf t	101. 30		
48	L & T CR		M	50.00 Ft				
41 42	ALLIGATOR CR		L	65.00 SqFt				
13 18	BLOCK CR L & T CR		L L	12.00 SqFt 326.00 Ft				
52	RAVELING		L	2005.00 SqFt				
52	RAVELING		M	2016.00 SqFt				
53	RUTTING		L	40.00 SqFt				
Samp	ole Number: 107	Type:	R	Area:	4000.00 SqFt	PCI: 42		
Samp	ole Comments:							
18	L & T CR		M	50.00 Ft				
48	L & T CR		L	373.00 Ft				
52	RAVELING		L	2500.00 SqFt				
52	RAVELING		M	1500.00 SqFt				
53	RUTTING ble Number: 114	T	L	8.00 SqFt	4000.00 SqFt	DCI. 47		
_	ole Number: 114	Type:	R	Area:	4000.00 Sqrt	PCI: 47		
45	DEPRESSION		L	10.00 SqFt				
48	L & T CR		L	348.00 Ft				
52	RAVELING		L	2200.00 SqFt				
52	RAVELING		M	1800.00 SqFt				
Samp	ole Number: 118	Type:	R	Area:	4000.00 SqFt	PCI: 42		
Samp	ole Comments:							
43	BLOCK CR		L	186.00 SqFt				
48	L & T CR		L	470.00 Ft				
50	PATCHING		L	311.00 SqFt				
52	RAVELING		L	2504.00 SqFt				
52	RAVELING		M	1185.00 SqFt				

Network:	X07			N	ame: LA	KE WALES	MUNICIPAL AIRPO	ORT	
Branch:	TW A		Name:	TAXIWAY	A	Use:	TAXIWAY	Area:	161,460 SqFt
Section:	110	of	f 6	From: -			То: -		Last Const.: 1/1/198
Surface:	AC	Family:	C9N59-GA	-TW-AC Z	one:		Category:		Rank: P
Area:		3,314 SqFt	Lengt	h: 65	Ft	Width:	35 Ft		
Slabs:		Slab Len	gth:	Ft	Slab Width:		Ft	Joint Lengtl	h: Ft
Shoulder:		Street Ty	vpe:		Grade: 0)		Lanes: ()
Section Co	mments:								
Work Date	: 1/1/1988	W	ork Type: O	VERLAY		C	dode: IMPORTED	Is Majo	r M&R: True
Work Date	: 1/1/1988	W	ork Type: B	UILT		C	dode: IMPORTED	Is Majo	r M&R: True
Last Insp. l	Date: 3/9/	/2017	Tota	alSamples: 1		Surveye	e d: 1		
Conditions	: PCI:	20							
Inspection	Comments	:							
Sample Nu	mber: 10	0 Ty r	e: R	Area:	331	4.00 SqFt	PCI: 20	0	
Sample Co	mments:								
48 L&	TCR		M	110.00 Ft					
48 L &	TCR		H	6.00 Ft					
52 RAV	VELING		Н	814.00 SqF	t				
52 RAV	VELING		M	2500.00 SqF	+				

Network:	X07				Nam	e: LAF	KE WALES	MUNICIE	PAL AIR	PORT			
Branch:	TW A		Name	: TAXIV	WAY A		Use:	TAXIV	WAY	Area:	16	61,460 SqFt	
Section:	115	0	f 6	From:	-			To:	-			Last Cons	t.: 1/1/1997
Surface:	AAC	Family:	C9N59-GAPC	A-TW-AAC-	Zone	e:		Cat	tegory:			Rank: P	
Area:		1,989 SqFt	Leng	gth:	66 F	t	Width:		40 Ft				
Slabs:		Slab Ler	ngth:	Ft		Slab Width:		Ft		Joi	nt Length:		Ft
Shoulder:		Street T	ype:			Grade: 0				Laı	nes: 0		
Section Co	omments:												
Work Date	e: 1/1/1942	W	ork Type:	BUILT			C	Code: IM	IPORTEI	D	Is Major N	1&R: True	
Work Date	e: 1/1/1997	W	ork Type: (OVERLAY			C	code: IM	IPORTEI	D	Is Major M	1&R: True	
Last Insp.	Date: 3/9/2	2017	To	talSamples:	1		Surveye	e d: 1					
Conditions	s: PCI:	60											
Inspection	Comments:												
Sample Nu	ımber: 121	Tyj	pe: R	A	rea:	1989	9.00 SqFt		PCI:	60			
Sample Co	omments:												
52 RA	VELING		M	300.00	SqFt								
48 L &	t T CR		M	5.00	Ft								
48 L &	t T CR		L	70.00	Ft								
52 RA	VELING		L	1689.00	SqFt								

Network:	X07				Name	e: LAI	KE WALES I	MUNIC	IPAL AIRPO	RT	
Branch:	TW A		Nan	ne: TAXI	WAY A		Use:	TAX	IWAY	Area:	161,460 SqFt
Section:	120	0	f 6	From:	-			To): -		Last Const.: 1/1/19
Surface:	AAC	Family:	C9N59-0 APC	GA-TW-AAC-	Zone	:		Ca	ategory:		Rank: P
Area:		2,159 SqFt	Lei	ngth:	48 Ft		Width:		40 Ft		
Slabs:		Slab Lei	ngth:	Ft		Slab Width:		Ft		Joint Len	gth: Ft
Shoulder:		Street T	ype:			Grade: 0				Lanes:	0
Section Co	mments:										
Work Date	e: 1/1/1942	W	ork Type:	BUILT			C	ode: I	MPORTED	Is Ma	njor M&R: True
Work Date	e: 1/1/1997	W	ork Type:	OVERLAY			C	ode: I	MPORTED	Is Ma	ajor M&R: True
Last Insp.	Date: 3/9/	2017	Т	otalSamples:	1		Surveye	e d: 1			
Conditions	s: PCI:	62									
Inspection	Comments	:									
Sample Nu	mber: 12	5 Ty]	pe: R	. A	Area:	2159	9.00 SqFt		PCI: 62	<u> </u>	
Sample Co	mments:										
52 RA	VELING		M	409.00	SqFt						
48 L &	T CR		L	52.00							
52 RA	VELING		L	1750.00	SqFt						

Network:	X07			Nai	ne: LAI	KE WALES I	MUNICIPAL AIRPO	ORT	
Branch:	TW A		Name:	TAXIWAY A	1	Use:	TAXIWAY	Area:	161,460 SqFt
Section: 1	125	of	6	From: -			То: -		Last Const.: 1/1/1978
Surface: A	AC	Family:	C9N59-GA-	TW-AC Zor	e:		Category:		Rank: P
Area:	10	,727 SqFt	Length	275 1	-t	Width:	40 Ft		
Slabs:		Slab Len	gth:	Ft	Slab Width:		Ft	Joint Lei	ngth: Ft
Shoulder:		Street Ty	pe:		Grade: 0			Lanes:	0
Section Con	nments:								
Work Date:	1/1/1978	Wo	ork Type: BU	JILT		C	ode: IMPORTED	Is M	ajor M&R: True
Last Insp. D	Date: 3/9/202	17	Tota	ISamples: 2		Surveye	e d: 1		
Conditions:	PCI: 4	7							
Inspection (Comments:								
Sample Nun	nber: 123	Тур	e: R	Area:	5250	0.00 SqFt	PCI: 4	7	
Sample Con	nments:								
48 L&'	T CR		L	130.00 Ft					
50 PAT	CHING		L	120.00 SqFt					
52 RAV	ELING		L	3078.00 SqFt					
52 RAV	ELING		M	2052.00 SqFt					

Network:	X07			Nam	ne: LAK	E WALES 1	MUNICIPAL AIR	PORT		
Branch:	TW A		Name:	TAXIWAY A		Use:	TAXIWAY	Area:	161,460 SqFt	
Section:	130	0	f 6	From: -			То: -		Last Const.:	9/1/2014
Surface:	AC	Family:	C9N59-GA	-TW-AC Zone	e:		Category:		Rank: P	
Area:		57,272 SqFt	Lengt	h: 1,600 F	řt	Width:	35 Ft			
Slabs:		Slab Len	igth:	Ft	Slab Width:		Ft	Joint	t Length:	₹t
Shoulder:		Street Ty	ype:		Grade: 0			Lane	es: 0	
Section Co	omments:									
Work Date	e: 9/1/2014	4 W	ork Type: N	ew Construction - AC		C	ode: NC-AC]	Is Major M&R: True	
Last Insp.	Date: 3/9	0/2017	Tota	alSamples: 11		Surveye	ed: 2			
Condition	s: PCI:	94								
Inspection	Comment	s:								
Sample Nu	umber: 1	14 Ty ı	pe: R	Area:	5250.	00 SqFt	PCI:	94		
Sample Co	omments:									
57 WE	EATHERIN	G	L	5250.00 SqFt						
Sample Nu	umber: 1	19 Ty į	pe: R	Area:	5250.	00 SqFt	PCI:	94		
Sample Co	omments:									
57 WE	EATHERIN	G	L	5250.00 SqFt						

Network:	X07				Name:	LAKE WALES	MUNICIPAL AIR	PORT	
Branch:	TW A1	[Name:	TAXIV	WAY A1	Use:	TAXIWAY	Area:	12,935 SqFt
Section:	500	C	of 1	From:	-		То: -		Last Const.: 9/1/2014
Surface:	AC	Family:	C9N59-GA-	TW-AC	Zone:		Category:		Rank: P
Area:		12,935 SqFt	Length	ı :	350 Ft	Width:	35 Ft		
Slabs:		Slab Le	ngth:	Ft	Slab W	idth:	Ft	Joint Len	gth: Ft
Shoulder:		Street T	ype:		Grade	: 0		Lanes:	0
Section Co	omments:								
Work Dat	te: 9/1/2014	4 W	ork Type: Ne	w Construction	on - AC	C	Code: NC-AC	Is Ma	njor M&R: True
Last Insp.	Date: 3/9	9/2017	Tota	Samples:	3	Surveye	ed: 1		
Condition	s: PCI:	94							
Inspection	n Comment	s:							
Sample N	umber: 10	01 Ty	pe: R	A	rea:	4638.00 SqFt	PCI:	94	
Sample Co	omments:								

WEATHERING

L 4638.00 SqFt

Network:	X07			Nan	e: LAK	E WALES I	MUNICIPAL AIRI	PORT	·
Branch:	TW B		Name:	TAXIWAY B		Use:	TAXIWAY	Area:	43,244 SqFt
Section:	205	of	4	From: -			То: -		Last Const.: 1/1/1978
Surface:	AC	Family:	C9N59-GA-T	TW-AC Zon	e:		Category:		Rank: P
Area:		14,037 SqFt	Length:	330 F	t	Width:	40 Ft		
Slabs:		Slab Leng	gth:	Ft	Slab Width:		Ft	Joint Lengt	h: Ft
Shoulder:		Street Ty	pe:		Grade: 0			Lanes: ()
Section Con	nments:								
Work Date:	: 1/1/1978	Wo	ork Type: BU	ILT		C	ode: IMPORTEI) Is Majo	r M&R: True
Last Insp. I	Date: 3/9/2	2017	Total	Samples: 3		Surveye	ed: 1		
Conditions:	PCI:	55							
Inspection (Comments:	:							
Sample Nur	mber: 101	l Type	e: R	Area:	4000	.00 SqFt	PCI:	55	
Sample Cor	mments:								
48 L &	T CR		L	173.00 Ft					
52 RAV	/ELING		L	2700.00 SqFt					
52 RAV	/ELING		M	1300.00 SqFt					

Network:	X07		·		Naı	ne:	LAKE W	ALES N	MUNICIP	AL AIRPO	ORT				
Branch:	TW B		Name	: TAXI	WAY E	3		Use:	TAXIW	/AY	Area:		43,244	SqFt	
Section:	207	C	of 4	From:	-				To:	-			Last	Const.:	1/1/2004
Surface:	AAC	Family:	C9N59-GA APC	A-TW-AAC-	Zor	ne:			Cate	egory:			Ran	k: P	
Area:		8,945 SqFt	Leng	th:	185 1	Ft	Wie	lth:		40 Ft					
Slabs:		Slab Lei	ngth:	Ft		Slab Wio	dth:		Ft		Join	t Length	:	I	₹t
Shoulder:		Street T	ype:			Grade:	0				Lan	es: 0			
Section Co	mments:														
Work Date	: 1/1/1968	W	ork Type: I	BUILT				Co	ode: IM	PORTED		Is Major	M&R:	True	
Work Date	: 1/1/2004	W	ork Type: (Overlay - AC T	hin			Co	ode: OL	-AT		Is Major	M&R:	True	
Last Insp.	Date: 3/9/2	2017	То	talSamples:	2		;	Surveye	d: 1						
Conditions	: PCI:	62													
Inspection	Comments:														
Sample Nu	mber: 105	5 Ty	pe: R		Area:		4000.00	SqFt		PCI: 62	2				
Sample Co	mments:														
52 RA	VELING		M	350.00	SqFt										
48 L&	T CR		L	256.00											

3650.00 SqFt

L

52

Network:	X07					Nar	ne:	LAKE WAL	ES MU	NICIPAL AI	RPORT	
Branch:	TW B			Name:	TAXI	WAY E	3	U	se: T	AXIWAY	Area:	43,244 SqFt
Section:	210		of 4		From:	-				То: -		Last Const.: 1/1/200
Surface:	AAC	Family:	C9N APO	159-GA-T C	W-AAC-	Zor	ie:			Category:		Rank: P
Area:		18,096 SqFt		Length:		400 1	₹t	Width	:	40 H	₹t	
Slabs:		Slab Le	ngth:		Ft		Slab Wid	th:		Ft	Join	t Length: Ft
Shoulder:		Street	Гуре:				Grade:	0			Lan	es: 0
Section Co	mments:											
Work Date	e: 1/1/1955	5 V	Vork T	ype: BUI	LT				Code	: IMPORT	ED	Is Major M&R: True
Work Date	e: 1/1/2004	ı v	Vork T	ype: Over	rlay - AC Th	nin			Code	: OL-AT		Is Major M&R: True
Last Insp.	Date: 3/9	/2017		TotalS	amples:	5		Sur	veyed:	1		
Conditions	s: PCI:	63										
Inspection	Comments	s:										
Sample Nu	ımber: 10)3 T <u>y</u>	pe:	R	A	rea:		3762.00 SqF	`t	PCI:	63	
Sample Co	omments:											
48 L&	T CR		I	_	200.00	Ft						
	VELING		I		3362.00	_						
52 RA	VELING		ľ	M	400.00	SqFt						

LAKE WALES MUNICIPAL AIRPORT X07 Network: Name: **Branch:** TW B Name: TAXIWAY B Use: TAXIWAY Area: 43,244 SqFt Section: 215 of 4 To: -**Last Const.:** 1/1/1997 From: Surface: AAC Family: C9N59-GA-TW-AAC-Zone: Category: Rank: P APC Width: 40 Ft 2,166 SqFt Length: 100 Ft Area: Slabs: Slab Length: Ft Slab Width: Ft Joint Length: Ft Shoulder: **Street Type:** Grade: 0 Lanes: 0 **Section Comments:** Work Date: 1/1/1942 Work Type: BUILT Code: IMPORTED Is Major M&R: True Work Type: OVERLAY Work Date: 1/1/1997 Code: IMPORTED Is Major M&R: True **Last Insp. Date:** 3/9/2017 TotalSamples: 1 Surveyed: 1 **Conditions:** PCI: Inspection Comments: Updated geometry due to field verification. Sample Number: 99 R 2166.00 SqFt **PCI:** 62 Type: Area: **Sample Comments:**

M

400.00 SqFt

RAVELING

52

Network: X07			Nai	ne: LAK	E WALES I	MUNICIPAL AIRP	ORT		
Branch: TW C		Name:	TAXIWAY (2	Use:	TAXIWAY	Area:	32	,049 SqFt
Section: 305	of	1	From: -			То: -]	Last Const.: 1/1/2004
Surface: AAC	Family:	C9N59-GA- APC	TW-AAC- Zor	ne:		Category:]	Rank: P
Area: 32,	,049 SqFt	Lengtl	h: 550 l	Ft	Width:	50 Ft			
Slabs:	Slab Leng	gth:	Ft	Slab Width:		Ft	Joint	Length:	Ft
Shoulder:	Street Ty	pe:		Grade: 0			Lane	s: 0	
Section Comments:									
Work Date: 1/1/1968	Wo	ork Type: BU	JILT		C	ode: IMPORTED	I	s Major M&	&R: True
Work Date: 1/1/2004	Wo	ork Type: Ov	verlay - AC Thin		C	ode: OL-AT	I	s Major M&	&R: True
								3	
Last Insp. Date: 3/9/201	17	Tota	alSamples: 6		Surveye	ed: 2			
_		Tota	alSamples: 6		Surveye	ed: 2			
Conditions: PCI: 60		Tota	alSamples: 6		Surveye	ed: 2			
Conditions: PCI: 66 Inspection Comments:			alSamples: 6 Area:	5228	Surveye	ed: 2	54		
Conditions: PCI: 66 Inspection Comments: Sample Number: 101	6			5228			64		
Conditions: PCI: 66 Inspection Comments: Sample Number: 101 Sample Comments:	6			5228			54		
Conditions: PCI: 66 Inspection Comments: Sample Number: 101 Sample Comments: 48 L & T CR	6	e: R	Area:	5228			54		
Conditions: PCI: 66 Inspection Comments: Sample Number: 101 Sample Comments: 48 L & T CR 52 RAVELING	6	e: R	Area:	5228			54		
Conditions: PCI: 66 Inspection Comments: Sample Number: 101 Sample Comments: 48 L & T CR 52 RAVELING 52 RAVELING	6	e: R L L M	Area: 112.00 Ft 5077.00 SqFt						
Conditions: PCI: 66 Inspection Comments: Sample Number: 101 Sample Comments: 48 L & T CR 52 RAVELING 52 RAVELING 53 RAVELING 54 RAVELING 55 RAVELING 56 RAVELING	Тур	e: R L L M	Area: 112.00 Ft 5077.00 SqFt 151.00 SqFt		.00 SqFt	PCI: 6			
Sample Number: 101 Sample Comments: 48 L & T CR 52 RAVELING	Тур	e: R L L M	Area: 112.00 Ft 5077.00 SqFt 151.00 SqFt		.00 SqFt	PCI: 6			