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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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
X51	RUNWAY 18-36	RUNWAY	6102	9,000	100	Good
X51	RUNWAY 18-36	RUNWAY	6105	191,000	88	Good
X51	RUNWAY 18-36	RUNWAY	6110	183,750	54	Poor
X51	RUNWAY 18-36	RUNWAY	6112	7,250	81	Satisfactory
X51	RUNWAY 18-36	RUNWAY	6115	9,200	100	Good
X51	RUNWAY 10-28	RUNWAY	6205	224,925	67	Fair
X51	TAXIWAY A1	TAXIWAY	230	6,237	51	Poor
X51	TAXIWAY A1	TAXIWAY	235	2,971	62	Fair
X51	TAXIWAY A2	TAXIWAY	240	11,520	44	Poor
X51	TAXIWAY A3	TAXIWAY	250	6,135	49	Poor
X51	TAXIWAY A3	TAXIWAY	255	2,869	76	Satisfactory
X51	TAXIWAY ALPHA	TAXIWAY	160	14,699	56	Fair
X51	TAXIWAY ALPHA	TAXIWAY	205	13,738	45	Poor
X51	TAXIWAY ALPHA	TAXIWAY	210	5,600	73	Satisfactory
X51	TAXIWAY ALPHA	TAXIWAY	215	121,199	66	Fair
X51	TAXIWAY ALPHA	TAXIWAY	220	6,000	75	Satisfactory
X51	TAXIWAY ALPHA	TAXIWAY	260	5,369	47	Poor
X51	TAXIWAY ALPHA	TAXIWAY	270	5,369	48	Poor
X51	TAXIWAY ALPHA	TAXIWAY	280	4,273	55	Poor
X51	TAXIWAY ALPHA	TAXIWAY	290	4,069	59	Fair
X51	TAXIWAY ALPHA	TAXIWAY	295	4,189	51	Poor
X51	TAXIWAY B1	TAXIWAY	110	20,223	70	Fair
X51	TAXIWAY B2	TAXIWAY	120	21,223	49	Poor
X51	TAXIWAY B3	TAXIWAY	130	12,237	43	Poor
X51	TAXIWAY B4	TAXIWAY	140	15,569	49	Poor
X51	TAXIWAY B5	TAXIWAY	150	6,211	56	Fair
X51	TAXIWAY B5	TAXIWAY	155	10,114	91	Good
X51	TAXIWAY BRAVO	TAXIWAY	105	192,408	61	Fair
X51	TAXIWAY BRAVO	TAXIWAY	180	13,513	49	Poor
X51	TAXIWAY C	TAXIWAY	400	24,975	49	Poor
X51	TAXIWAY TO APRON	TAXIWAY	305	10,104	43	Poor
X51	NW APRON	APRON	4105	255,472	58	Fair
X51	NW APRON	APRON	4110	11,958	72	Satisfactory
X51	NORTH APRON	APRON	4205	85,048	65	Fair
X51	NE APRON	APRON	4305	109,902	78	Satisfactory
	I.					





Forecasted Pavement Condition Index 2018-2027

Table E-2 Pavement Condition Index Forecast 2018-2027

N. C. LID	D	0	L BOL				ا	Forecas	sted PC	I			
Network ID	Branch ID	Section ID	Last PCI	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
X51	AP N	4205	65	63	62	60	59	57	55	54	52	51	49
X51	AP NE	4305	78	76	75	73	72	70	68	67	65	64	62
X51	AP NW	4105	58	56	55	53	52	50	48	47	45	44	42
X51	AP NW	4110	72	70	69	67	66	64	62	61	59	58	56
X51	RW 10-28	6205	67	65	64	63	62	61	61	60	60	60	60
X51	RW 18-36	6102	100	94	92	90	88	85	83	80	78	75	73
X51	RW 18-36	6105	88	86	83	81	78	76	74	71	69	67	66
X51	RW 18-36	6110	54	52	51	49	47	46	44	43	41	39	38
X51	RW 18-36	6112	81	79	76	74	72	69	67	66	64	63	62
X51	RW 18-36	6115	100	94	92	90	88	85	83	80	78	75	73
X51	TW A	160	56	55	53	52	50	49	47	45	44	42	40
X51	TW A	205	45	43	42	40	39	37	36	35	33	32	31
X51	TW A	210	73	72	71	70	69	68	67	66	65	64	63
X51	TW A	215	66	65	64	63	62	61	60	59	58	57	56
X51	TW A	220	75	74	73	72	71	70	69	68	67	66	65
X51	TW A	260	47	45	44	42	41	39	38	36	35	34	33
X51	TW A	270	48	46	45	43	41	40	38	37	36	34	33
X51	TW A	280	55	53	52	51	49	47	46	44	42	41	39
X51	TW A	290	59	58	56	55	54	52	51	49	48	46	44
X51	TW A	295	51	49	48	46	45	43	41	40	38	37	36
X51	TW A1	230	51	49	48	46	45	43	41	40	38	37	36
X51	TW A1	235	62	60	59	57	55	54	52	50	49	47	46
X51	TW A2	240	44	42	41	39	38	36	35	34	33	32	31
X51	TW A3	250	49	47	46	44	42	41	39	38	36	35	34
X51	TW A3	255	76	75	73	72	72	71	70	69	68	67	66
X51	TW AP	305	43	42	40	38	34	29	25	21	17	14	10
X51	TW B	105	61	60	59	58	56	55	54	52	51	49	48
X51	TW B	180	49	47	46	44	42	41	39	38	36	35	34
X51	TW B1	110	70	69	68	67	66	65	63	62	60	59	57
X51	TW B2	120	49	47	46	44	42	41	39	38	36	35	34
X51	TW B3	130	43	41	40	38	37	36	34	33	32	31	30
X51	TW B4	140	49	47	46	44	42	41	39	38	36	35	34
X51	TW B5	150	56	55	53	52	50	49	47	45	44	42	40
X51	TW B5	155	91	88	86	83	81	79	77	76	74	73	72
X51	TW C	400	49	47	46	44	42	41	39	38	36	35	34





Major Rehabilitation Planning 2018-2027

Table E-3 Major Rehabilitation Planning 2018-2027

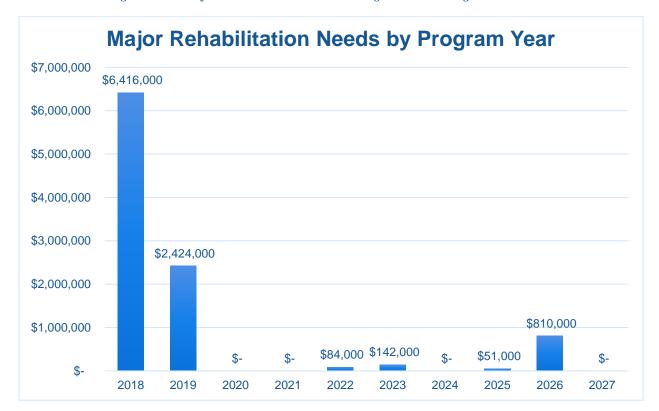
Program Year	Network ID	Branch ID	Section ID	Surface	Area (SF)	PCI Before	Rehabilitation Type	Planning Cost
2018	X51	AP N	4205	AC	85,048	63	AC Restoration	\$ 596,000.00
2018	X51	AP NW	4105	AC	255,472	56	AC Restoration	\$ 1,789,000.00
2018	X51	RW 18-36	6110	AC	183,750	52	AC Restoration	\$ 1,287,000.00
2018	X51	TW A	160	AC	14,699	55	AC Restoration	\$ 103,000.00
2018	X51	TW A	205	AC	13,738	43	AC Restoration	\$ 114,000.00
2018	X51	TW A	260	AC	5,369	45	AC Restoration	\$ 43,000.00
2018	X51	TW A	270	AC	5,369	46	AC Restoration	\$ 41,000.00
2018	X51	TW A	280	AC	4,273	53	AC Restoration	\$ 30,000.00
2018	X51	TW A	290	AC	4,069	58	AC Restoration	\$ 29,000.00
2018	X51	TW A	295	AC	4,189	49	AC Restoration	\$ 30,000.00
2018	X51	TW A1	230	AC	6,237	49	AC Restoration	\$ 44,000.00
2018	X51	TW A1	235	AAC	2,971	60	AC Restoration	\$ 21,000.00
2018	X51	TW A2	240	AC	11,520	42	AC Restoration	\$ 98,000.00
2018	X51	TW A3	250	AC	6,135	47	AC Restoration	\$ 46,000.00
2018	X51	TW AP	305	AAC	10,104	42	AC Restoration	\$ 87,000.00
2018	X51	TW B	105	AC	192,408	60	AC Restoration	\$ 1,347,000.00
2018	X51	TW B	180	AC	13,513	47	AC Restoration	\$ 101,000.00
2018	X51	TW B2	120	AC	21,223	47	AC Restoration	\$ 158,000.00
2018	X51	TW B3	130	AC	12,237	41	AC Restoration	\$ 106,000.00
2018	X51	TW B4	140	AC	15,569	47	AC Restoration	\$ 116,000.00
2018	X51	TW B5	150	AC	6,211	55	AC Restoration	\$ 44,000.00
2018	X51	TW C	400	AC	24,975	47	AC Restoration	\$ 186,000.00
2019	X51	RW 10-28	6205	AAC	224,925	64	AC Restoration	\$ 1,575,000.00
2019	X51	TW A	215	AC	121,199	64	AC Restoration	\$ 849,000.00
2022	X51	AP NW	4110	AC	11,958	64	AC Restoration	\$ 84,000.00
2023	X51	TW B1	110	AAC	20,223	63	AC Restoration	\$ 142,000.00
2025	X51	RW 18-36	6112	AAC	7,250	64	AC Restoration	\$ 51,000.00
2026	X51	AP NE	4305	AC	109,902	64	AC Restoration	\$ 770,000.00
2026	X51	TW A	210	AAC	5,600	64	AC Restoration	\$ 40,000.00

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





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









Summary of Miami Homestead General Aviation Airport

Miami Homestead General Aviation Airport was inspected in April 2017 - the overall weighted PCI value was 65, a condition rating of Fair. The results of the maintenance, repair, and major rehabilitation analysis identified \$917,070 in localized M&R needs based on current conditions and a 10-Year major rehabilitation need of \$9,927,000 based on forecasted conditions. The current major rehabilitation needs based on the latest inspection consist of \$6,416,000 for pavements below critical condition.

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







Chapter 1 – Introduction

1.1 Background

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

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

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

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

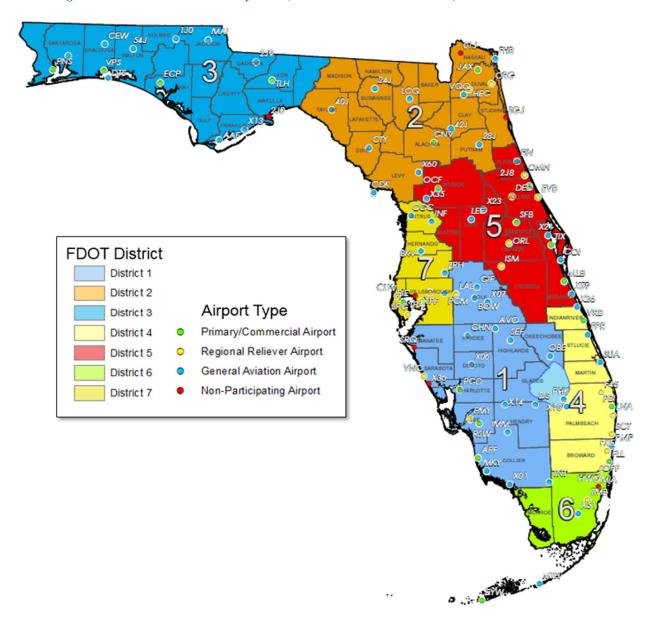
1.2 Statewide Airfield Pavement Management Program (SAPMP) Update 2016-2017

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





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



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





1.3 Organization

1.3.1 Florida Department of Transportation Aviation and Spaceports Office Program Manager

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

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

1.3.2 Participating Florida Public-Use and Publicly Owned Airports

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

1.3.3 Florida Department of Transportation District Offices

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

1.3.4 Consultant

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

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





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

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





1.4 Purpose of Airport Pavement Evaluation Report

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

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

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

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

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

1.5 History of the Program

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





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

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

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

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

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





1.6 Federal Aviation Administration (FAA)

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

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

1.7 FDOT SAPMP Objectives and Components

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

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

1.7.1 Program Objectives

- 1 A systematic means for collecting and storing information regarding existing pavement structure and condition.
- An objective and repeatable system for evaluating pavement condition.
- 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

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- 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.

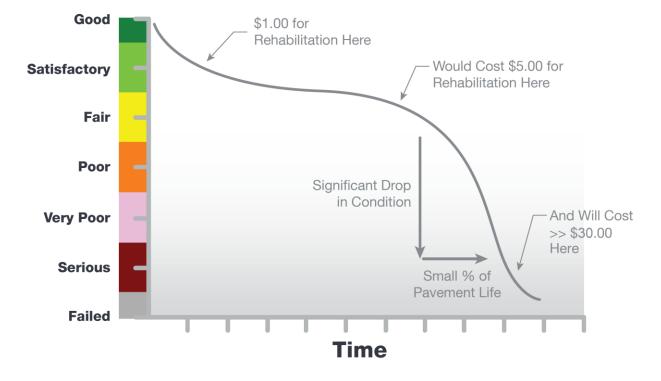


Figure 1.7-1 Typical Pavement Condition Life Cycle

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

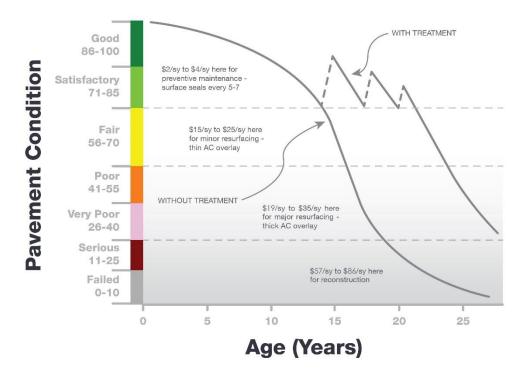
Figure 1.7-2 General Pavement Treatments by Condition Range depicts generic flexible asphalt concrete (AC) pavement treatments that are effective at specific condition ranges. This graphic is a general concept and will vary based on pavement surface type and overall





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

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.

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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.

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

The SAPMP System Update consisted of the conversion of the previous database from a PAVERTM 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 Airfields

	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		

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

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

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

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



2.6.3 PCI Survey Inspection Procedures

Inspection Sampling Rate

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

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

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



Chapter 3





Chapter 3 – Airfield Pavement System Inventory

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

3.1 Airfield Pavement Network Information

3.1.1 Previous and/or Anticipated Airfield Pavement Construction

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

Table 3.1.1 Previous and/or Anticipated Airfield Pavement Construction

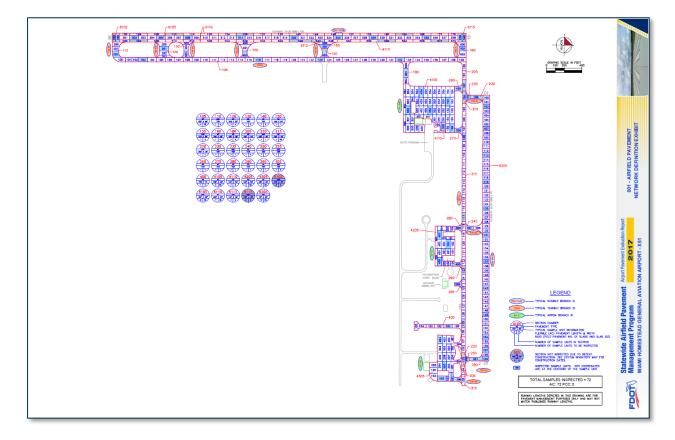
Year		General Work Description
2015	RW 18-36 - Mill and Overlay	

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

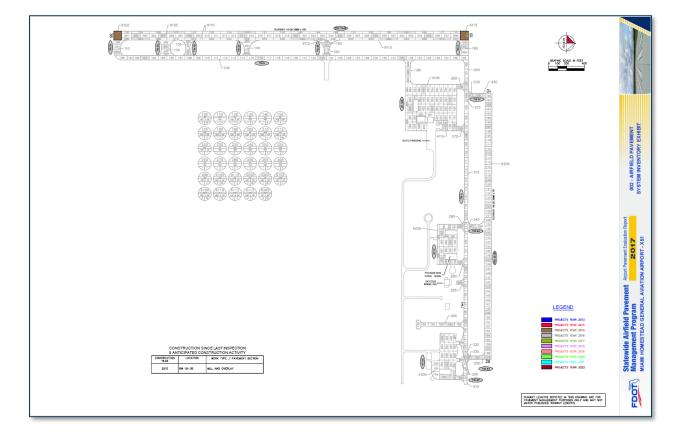


The Airfield Pavement Network Definition Exhibit provides details to the PCI Survey inspection efforts. The exhibit identifies the pavement facilities, surface type, section definition, and sample unit delineation.





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.

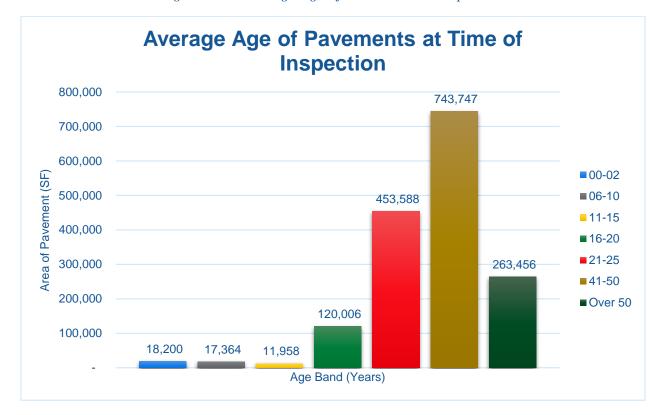
Airport Pavement

Evaluation 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.

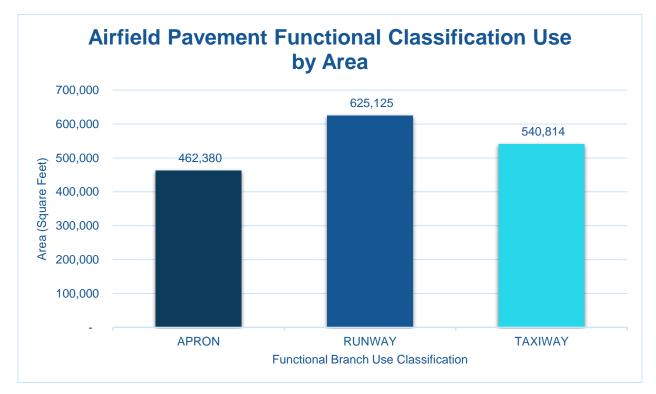




3.1.3 Functional Use Classification

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.

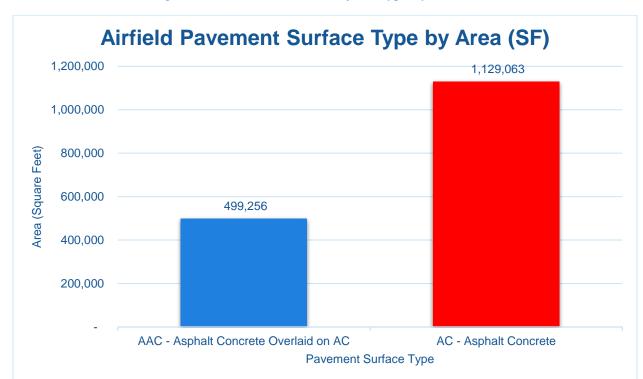
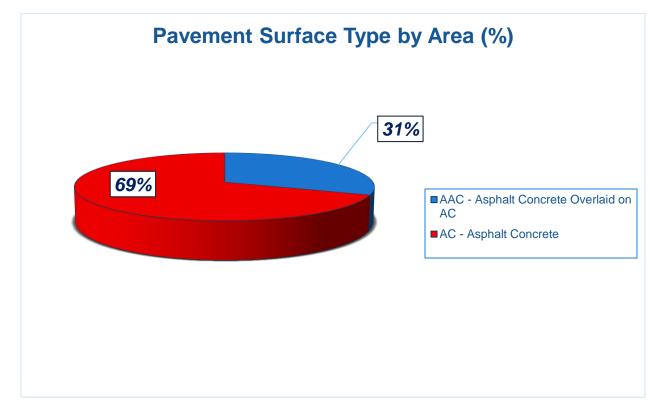


Figure 3.1.4 (a) Pavement Surface Type by Area (SF)





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
X51	NORTH APRON	AP N	APRON	4205	425	200	85,048	AC	1/1/1962
X51	NE APRON	AP NE	APRON	4305	600	180	109,902	AC	1/1/1999
X51	NW APRON	AP NW	APRON	4105	600	470	255,472	AC	1/1/1967
X51	NW APRON	AP NW	APRON	4110	130	118	11,958	AC	1/1/2005
X51	RUNWAY 10-28	RW 10-28	RUNWAY	6205	2999	75	224,925	AAC	1/1/1994
X51	RUNWAY 18-36	RW 18-36	RUNWAY	6102	90	100	9,000	AAC	6/1/2015
X51	RUNWAY 18-36	RW 18-36	RUNWAY	6105	3820	50	191,000	AAC	1/1/1993
X51	RUNWAY 18-36	RW 18-36	RUNWAY	6110	7350	25	183,750	AC	1/1/1967
X51	RUNWAY 18-36	RW 18-36	RUNWAY	6112	290	25	7,250	AAC	1/1/2009
X51	RUNWAY 18-36	RW 18-36	RUNWAY	6115	92	100	9,200	AAC	6/1/2015
X51	TAXIWAY ALPHA	TW A	TAXIWAY	160	195	75	14,699	AC	1/1/1967
X51	TAXIWAY ALPHA	TW A	TAXIWAY	205	340	40	13,738	AC	1/1/1967
X51	TAXIWAY ALPHA	TW A	TAXIWAY	210	170	40	5,600	AAC	1/1/1994
X51	TAXIWAY ALPHA	TW A	TAXIWAY	215	3000	40	121,199	AC	1/1/1962
X51	TAXIWAY ALPHA	TW A	TAXIWAY	220	150	40	6,000	AAC	1/1/1994
X51	TAXIWAY ALPHA	TW A	TAXIWAY	260	100	50	5,369	AC	1/1/1967
X51	TAXIWAY ALPHA	TW A	TAXIWAY	270	100	50	5,369	AC	1/1/1967
X51	TAXIWAY ALPHA	TW A	TAXIWAY	280	80	50	4,273	AC	1/1/1962
X51	TAXIWAY ALPHA	TW A	TAXIWAY	290	80	50	4,069	AC	1/1/1962
X51	TAXIWAY ALPHA	TW A	TAXIWAY	295	80	50	4,189	AC	1/1/1970
X51	TAXIWAY A1	TW A1	TAXIWAY	230	150	40	6,237	AC	1/1/1962
X51	TAXIWAY A1	TW A1	TAXIWAY	235	50	50	2,971	AAC	1/1/1994
X51	TAXIWAY A2	TW A2	TAXIWAY	240	250	40	11,520	AC	1/1/1962
X51	TAXIWAY A3	TW A3	TAXIWAY	250	150	40	6,135	AC	1/1/1962
X51	TAXIWAY A3	TW A3	TAXIWAY	255	50	50	2,869	AAC	1/1/1994





Network ID	Branch Name	Branch ID	Branch Use	Section ID	Length (FT)	Width (FT)	Area (SF)	Surface Type	Est. Last Construction Date
X51	TAXIWAY TO APRON	TW AP	TAXIWAY	305	150	40	10,104	AAC	1/1/2001
X51	TAXIWAY BRAVO	TW B	TAXIWAY	105	3848	50	192,408	AC	1/1/1967
X51	TAXIWAY BRAVO	TW B	TAXIWAY	180	240	50	13,513	AC	1/1/1967
X51	TAXIWAY B1	TW B1	TAXIWAY	110	260	75	20,223	AAC	1/1/1994
X51	TAXIWAY B2	TW B2	TAXIWAY	120	200	100	21,223	AC	1/1/1967
X51	TAXIWAY B3	TW B3	TAXIWAY	130	240	50	12,237	AC	1/1/1967
X51	TAXIWAY B4	TW B4	TAXIWAY	140	250	50	15,569	AC	1/1/1967
X51	TAXIWAY B5	TW B5	TAXIWAY	150	100	50	6,211	AC	1/1/1967
X51	TAXIWAY B5	TW B5	TAXIWAY	155	100	100	10,114	AAC	1/1/2009
X51	TAXIWAY C	TW C	TAXIWAY	400	535	40	24,975	AC	1/1/1957





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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.

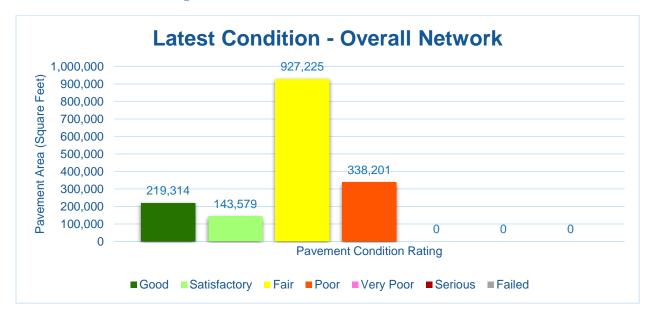


Figure 4.1.1 Latest Condition - Overall Network

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.

Airport Pavement





Figure 4.1.2 (a) Latest Condition - Runway Pavements

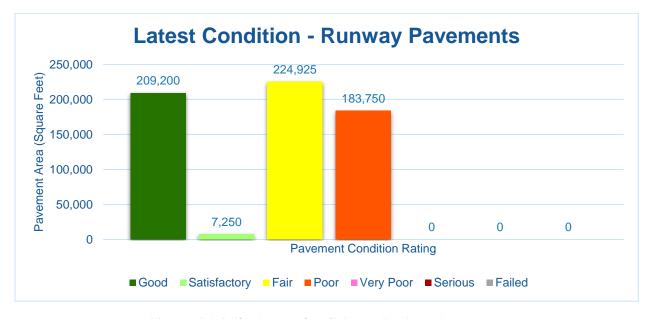


Figure 4.1.2 (b) Latest Condition - Taxiway Pavements

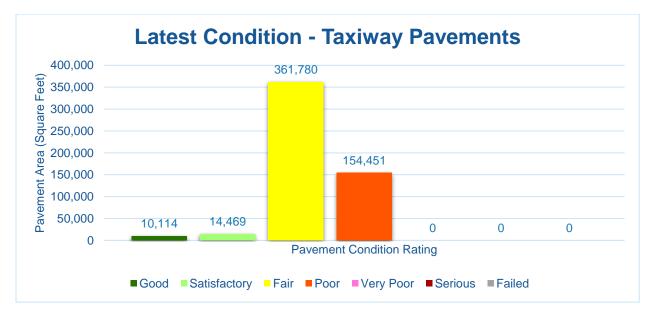






Figure 4.1.2 (c) Latest Condition - Apron Pavements







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.

2017





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
X51	AP N	NORTH APRON	APRON	4205	85,048	AC	65	Fair	100%	0%	0%	3	20
X51	AP NE	NE APRON	APRON	4305	109,902	AC	78	Satisfactory	98%	0%	2%	4	22
X51	AP NW	NW APRON	APRON	4105	255,472	AC	58	Fair	93%	0%	7%	5	50
X51	AP NW	NW APRON	APRON	4110	11,958	AC	72	Satisfactory	52%	0%	48%	1	2
X51	RW 10-28	RUNWAY 10-28	RUNWAY	6205	224,925	AAC	67	Fair	97%	0%	3%	12	60
X51	RW 18-36	RUNWAY 18-36	RUNWAY	6102	9,000	AAC	100	Good	0%	0%	0%	0	2
X51	RW 18-36	RUNWAY 18-36	RUNWAY	6105	191,000	AAC	88	Good	100%	0%	0%	8	38
X51	RW 18-36	RUNWAY 18-36	RUNWAY	6110	183,750	AC	54	Poor	100%	0%	0%	7	38
X51	RW 18-36	RUNWAY 18-36	RUNWAY	6112	7,250	AAC	81	Satisfactory	100%	0%	0%	1	2
X51	RW 18-36	RUNWAY 18-36	RUNWAY	6115	9,200	AAC	100	Good	0%	0%	0%	0	2
X51	TW A	TAXIWAY ALPHA	TAXIWAY	160	14,699	AC	56	Fair	100%	0%	0%	1	3
X51	TW A	TAXIWAY ALPHA	TAXIWAY	205	13,738	AC	45	Poor	100%	0%	0%	1	3
X51	TW A	TAXIWAY ALPHA	TAXIWAY	210	5,600	AAC	73	Satisfactory	100%	0%	0%	1	1
X51	TW A	TAXIWAY ALPHA	TAXIWAY	215	121,199	AC	66	Fair	100%	0%	0%	4	30
X51	TW A	TAXIWAY ALPHA	TAXIWAY	220	6,000	AAC	75	Satisfactory	100%	0%	0%	1	1
X51	TW A	TAXIWAY ALPHA	TAXIWAY	260	5,369	AC	47	Poor	86%	0%	14%	1	1
X51	TW A	TAXIWAY ALPHA	TAXIWAY	270	5,369	AC	48	Poor	100%	0%	0%	1	1
X51	TW A	TAXIWAY ALPHA	TAXIWAY	280	4,273	AC	55	Poor	100%	0%	0%	1	1
X51	TW A	TAXIWAY ALPHA	TAXIWAY	290	4,069	AC	59	Fair	100%	0%	0%	1	1
X51	TW A	TAXIWAY ALPHA	TAXIWAY	295	4,189	AC	51	Poor	91%	0%	9%	1	1
X51	TW A1	TAXIWAY A1	TAXIWAY	230	6,237	AC	51	Poor	85%	15%	0%	1	1
X51	TW A1	TAXIWAY A1	TAXIWAY	235	2,971	AAC	62	Fair	71%	0%	29%	1	1
X51	TW A2	TAXIWAY A2	TAXIWAY	240	11,520	AC	44	Poor	89%	0%	11%	1	2
X51	TW A3	TAXIWAY A3	TAXIWAY	250	6,135	AC	49	Poor	68%	32%	0%	1	1
X51	TW A3	TAXIWAY A3	TAXIWAY	255	2,869	AAC	76	Satisfactory	100%	0%	0%	1	1
X51	TW AP	TAXIWAY TO APRON	TAXIWAY	305	10,104	AAC	43	Poor	100%	0%	0%	1	3
X51	TW B	TAXIWAY BRAVO	TAXIWAY	105	192,408	AC	61	Fair	100%	0%	0%	4	39
X51	TW B	TAXIWAY BRAVO	TAXIWAY	180	13,513	AC	49	Poor	100%	0%	0%	1	3
X51	TW B1	TAXIWAY B1	TAXIWAY	110	20,223	AAC	70	Fair	100%	0%	0%	1	4
X51	TW B2	TAXIWAY B2	TAXIWAY	120	21,223	AC	49	Poor	100%	0%	0%	1	4
X51	TW B3	TAXIWAY B3	TAXIWAY	130	12,237	AC	43	Poor	87%	0%	13%	1	3
X51	TW B4	TAXIWAY B4	TAXIWAY	140	15,569	AC	49	Poor	100%	0%	0%	1	3
X51	TW B5	TAXIWAY B5	TAXIWAY	150	6,211	AC	56	Fair	100%	0%	0%	1	1
X51	TW B5	TAXIWAY B5	TAXIWAY	155	10,114	AAC	91	Good	100%	0%	0%	1	2
X51	TW C	TAXIWAY C	TAXIWAY	400	24,975	AC	49	Poor	100%	0%	0%	1	6

Airport Pavement

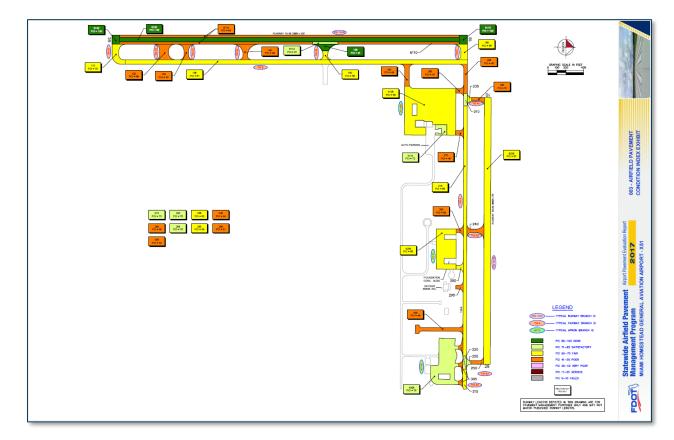
Evaluation Report





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 Miami Homestead General Aviation Airport (X51) started on 04/11/2017 and was completed on 04/12/2017. The resulting overall average area-weighted PCI value was 65 representing a condition rating of Fair. Miami Homestead General Aviation Airport is serviced by two asphalt runways and one turf runway; the turf Runway 09U-27U is 150-ft wide and 2,500-ft long, Runway 10-28 is 75-ft wide and 3,000-ft long, and Runway 18-36 is 100-ft wide and 3,999-ft long. Sections 6102 and 6115 were not inspected due to recent construction, the PCI for these sections were set to 100 and a condition rating of Good. Runway 9U-27U was not included as part of this inspection.

Based on the FAA 5010 Report as of 07/28/2017 the Airport has reported 76,617 operations for 12 months ending 05/25/2016.

4.2.2 Branch-Level Observations

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

Runway 10-28

Runway 10-28 consists of 1 section constructed of AAC. The last construction year for Runway 10-28 was 1994. The average area-weighted PCI for Runway 10-28 is 67 representing a Fair condition rating. The pavement distresses observed were related to Climate and Other distress classifications. Distresses observed in Runway 10-28 consist of Longitudinal & Transverse Cracking, Patching, Raveling, Swelling, and Weathering.

Runway 18-36

Runway 18-36 consists of 5 sections constructed of AC and AAC. The last construction years range from 1967 to 2015. The average area-weighted PCI for Runway 18-36 is 72 representing a Satisfactory condition rating. The pavement distresses observed were related to Climate distress classifications. Distresses observed in Runway 18-36 consist of Longitudinal & Transverse Cracking, Patching, Raveling, and Weathering.

Taxiway A1

Taxiway A1 consists of 2 sections constructed of AC and AAC. The last construction years range from 1962 to 1994. The average area-weighted PCI for Taxiway A1 is 54 representing a Poor condition rating. The pavement distresses observed were related to Climate, Load, and Other distress classifications. Distresses observed in Taxiway A1 consist of Alligator Cracking, Depression, Longitudinal & Transverse Cracking, Patching, Raveling, Swelling, and Weathering.

Taxiway A3

Taxiway A3 consists of 2 sections constructed of AC and AAC. The last construction years range from 1962 to 1994. The average area-weighted PCI for Taxiway A3 is 57 representing a Fair condition rating. The pavement distresses observed were related to Climate and Load

Airport Pavement

Evaluation Report





distress classifications. Distresses observed in Taxiway A3 consist of Alligator Cracking, Block Cracking, Longitudinal & Transverse Cracking, Patching, Raveling, and Weathering.

NE Apron

The NE Apron consists of 1 section constructed of AC. The last construction year for NE Apron was 1999. The average area-weighted PCI for NE Apron is 78 representing a Satisfactory condition rating. The pavement distresses observed were related to Climate and Other distress classifications. Distresses observed in NE Apron consist of Depression, Longitudinal & Transverse Cracking, Raveling, and Weathering.

NW Apron

The NW Apron consists of 2 sections constructed of AC. The last construction years range from 1967 to 2005. The average area-weighted PCI for NW Apron is 58 representing a Fair condition rating. The pavement distresses observed were related to Climate and Other distress classifications. Distresses observed in NW Apron consist of Block Cracking, Depression, Longitudinal & Transverse Cracking, Patching, Raveling, and Weathering.

North Apron

The North Apron consists of 1 section constructed of AC. The last construction year for North Apron was 1962. The average area-weighted PCI for North Apron is 65 representing a Fair condition rating. The pavement distresses observed were related to Climate distress classifications. Distresses observed in North Apron consist of Block Cracking, Longitudinal & Transverse Cracking, Patching, and Raveling.

Figure 4.2.2 Pavement Condition Summary by Facility Use

Facility Use	Average Area-Weighted PCI	Condition Rating
Runway	70	Fair
Taxiway	59	Fair
Apron	64	Fair





4.3 Forecasted Pavement Conditions

4.3.1 Performance Models and Prediction Curves

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

4.3.2 Branch-Level Pavement Condition Forecast

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

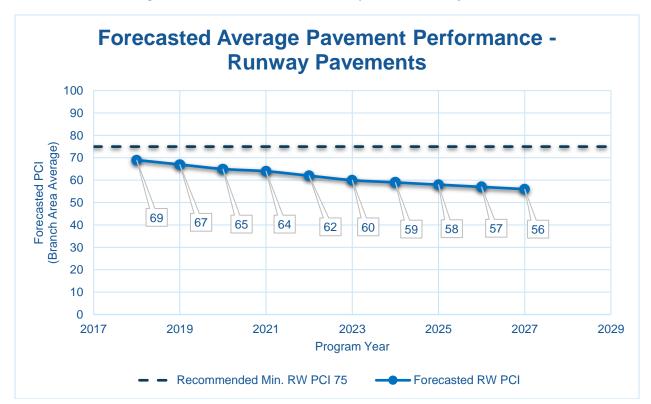


Figure 4.3.2 (a) Forecasted Runway Pavement Performance





Figure 4.3.2 (b) Forecasted Taxiway Pavement Performance

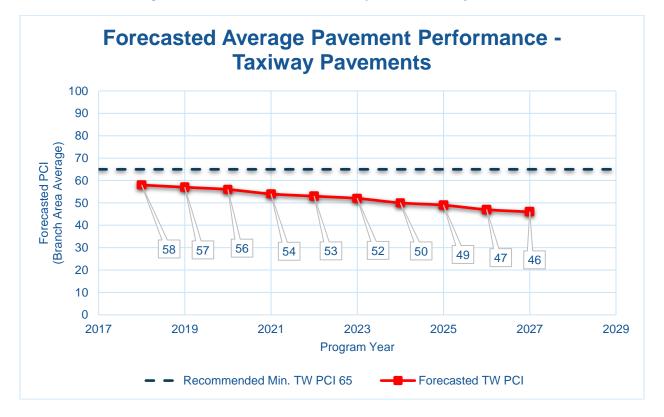
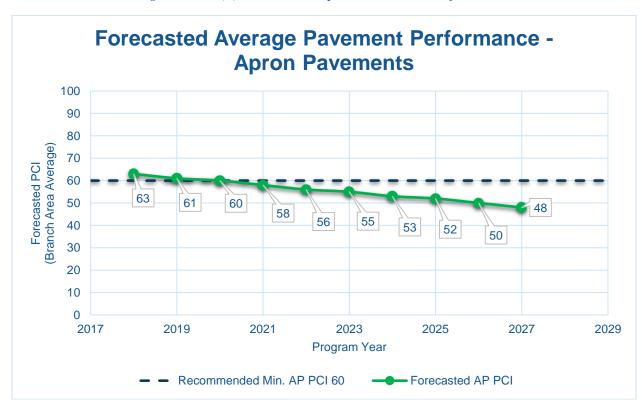


Figure 4.3.2 (c) Forecasted Apron Pavement Performance







4.3.3 Section-Level Pavement Condition Forecast

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





Table 4.3.3 Forecasted PCI 2018-2027

Notwork ID	Branch ID	Section ID	Forecasted PCI										
Network ID			Last PCI	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
X51	AP N	4205	65	63	62	60	59	57	55	54	52	51	49
X51	AP NE	4305	78	76	75	73	72	70	68	67	65	64	62
X51	AP NW	4105	58	56	55	53	52	50	48	47	45	44	42
X51	AP NW	4110	72	70	69	67	66	64	62	61	59	58	56
X51	RW 10-28	6205	67	65	64	63	62	61	61	60	60	60	60
X51	RW 18-36	6102	100	94	92	90	88	85	83	80	78	75	73
X51	RW 18-36	6105	88	86	83	81	78	76	74	71	69	67	66
X51	RW 18-36	6110	54	52	51	49	47	46	44	43	41	39	38
X51	RW 18-36	6112	81	79	76	74	72	69	67	66	64	63	62
X51	RW 18-36	6115	100	94	92	90	88	85	83	80	78	75	73
X51	TW A	160	56	55	53	52	50	49	47	45	44	42	40
X51	TW A	205	45	43	42	40	39	37	36	35	33	32	31
X51	TW A	210	73	72	71	70	69	68	67	66	65	64	63
X51	TW A	215	66	65	64	63	62	61	60	59	58	57	56
X51	TW A	220	75	74	73	72	71	70	69	68	67	66	65
X51	TW A	260	47	45	44	42	41	39	38	36	35	34	33
X51	TW A	270	48	46	45	43	41	40	38	37	36	34	33
X51	TW A	280	55	53	52	51	49	47	46	44	42	41	39
X51	TW A	290	59	58	56	55	54	52	51	49	48	46	44
X51	TW A	295	51	49	48	46	45	43	41	40	38	37	36
X51	TW A1	230	51	49	48	46	45	43	41	40	38	37	36
X51	TW A1	235	62	60	59	57	55	54	52	50	49	47	46
X51	TW A2	240	44	42	41	39	38	36	35	34	33	32	31
X51	TW A3	250	49	47	46	44	42	41	39	38	36	35	34
X51	TW A3	255	76	75	73	72	72	71	70	69	68	67	66





Notwork ID	Branch ID	Section ID	Loot DCI	Forecasted PCI										
Network ID			Last PCI	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	
X51	TW AP	305	43	42	40	38	34	29	25	21	17	14	10	
X51	TW B	105	61	60	59	58	56	55	54	52	51	49	48	
X51	TW B	180	49	47	46	44	42	41	39	38	36	35	34	
X51	TW B1	110	70	69	68	67	66	65	63	62	60	59	57	
X51	TW B2	120	49	47	46	44	42	41	39	38	36	35	34	
X51	TW B3	130	43	41	40	38	37	36	34	33	32	31	30	
X51	TW B4	140	49	47	46	44	42	41	39	38	36	35	34	
X51	TW B5	150	56	55	53	52	50	49	47	45	44	42	40	
X51	TW B5	155	91	88	86	83	81	79	77	76	74	73	72	
X51	TW C	400	49	47	46	44	42	41	39	38	36	35	34	





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

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

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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	PA-AF FDOT - PATCHING - AC FULL DEPTH		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		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	Planning Material Cost
FDOT - SURFACE SEAL	PREVENTIVE	251,835	SqFt	\$ 138,510.00
FDOT - PATCHING - AC PARTIAL DEPTH	PREVENTIVE	4,705	SqFt	\$ 14,110.00
FDOT - PATCHING - AC FULL DEPTH	PREVENTIVE	715	SqFt	\$ 4,290.00
FDOT - PATCHING - AC PARTIAL DEPTH	STOPGAP	119,695	SqFt	\$ 359,090.00
FDOT - PATCHING - AC FULL DEPTH	STOPGAP	4,630	SqFt	\$ 27,760.00
FDOT - SURFACE SEAL	STOPGAP	671,070	SqFt	\$ 369,100.00
FDOT - CRACK SEALING - AC	STOPGAP	1,405	Ft	\$ 4,210.00





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
X51	AP N	4205	85,048	65	79	\$ 46,620.00
X51	AP NE	4305	109,902	78	88	\$ 8,960.00
X51	AP NW	4105	255,472	58	68	\$ 180,800.00
X51	AP NW	4110	11,958	72	84	\$ 3,390.00
X51	RW 10-28	6205	224,925	67	77	\$ 72,590.00
X51	RW 18-36	6102	9,000	100	100	\$ -
X51	RW 18-36	6105	191,000	88	89	\$ 180.00
X51	RW 18-36	6110	183,750	54	73	\$ 188,120.00
X51	RW 18-36	6112	7,250	81	86	\$ 220.00
X51	RW 18-36	6115	9,200	100	100	\$ -
X51	TW A	160	14,699	56	74	\$ 12,270.00
X51	TW A	205	13,738	45	64	\$ 26,980.00
X51	TW A	210	5,600	73	78	\$ 310.00
X51	TW A	215	121,199	66	83	\$ 69,920.00
X51	TW A	220	6,000	75	87	\$ 780.00
X51	TW A	260	5,369	47	69	\$ 7,310.00
X51	TW A	270	5,369	48	72	\$ 5,670.00
X51	TW A	280	4,273	55	73	\$ 3,040.00
X51	TW A	290	4,069	59	71	\$ 2,350.00
X51	TW A	295	4,189	51	74	\$ 3,960.00
X51	TW A1	230	6,237	51	73	\$ 6,630.00
X51	TW A1	235	2,971	62	67	\$ 710.00
X51	TW A2	240	11,520	44	73	\$ 9,220.00
X51	TW A3	250	6,135	49	70	\$ 1,930.00
X51	TW A3	255	2,869	76	82	\$ 350.00
X51	TW AP	305	10,104	43	61	\$ 11,750.00
X51	TW B	105	192,408	61	78	\$ 162,400.00
X51	TW B	180	13,513	49	65	\$ 14,060.00
X51	TW B1	110	20,223	70	74	\$ 220.00
X51	TW B2	120	21,223	49	59	\$ 16,880.00
X51	TW B3	130	12,237	43	66	\$ 14,700.00
X51	TW B4	140	15,569	49	65	\$ 15,460.00
X51	TW B5	150	6,211	56	73	\$ 6,240.00





Network ID	Branch ID	Section ID	Area (SF)	Start Condition	End Condition	Cost
X51	TW B5	155	10,114	91	94	\$ 60.00
X51	TW C	400	24,975	49	67	\$ 23,270.00

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	\$ 156,910.00
Stopgap	\$ 760,160.00
Planning-Level Localized M&R Needs =	\$ 917,070.00









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

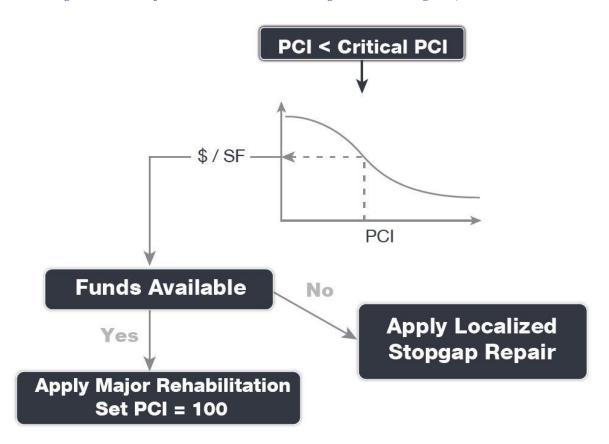
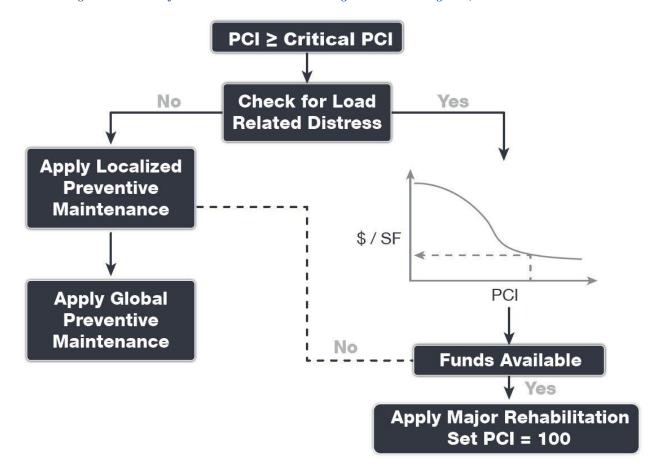




Figure 6.1-2 Major Rehabilitation Planning Decision Diagram, PCI > Critical PCI







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

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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	X51	AP N	4205	AC	85,048	63	AC Restoration	\$ 596,000.00
2018	X51	AP NW	4105	AC	255,472	56	AC Restoration	\$ 1,789,000.00
2018	X51	RW 18-36	6110	AC	183,750	52	AC Restoration	\$ 1,287,000.00
2018	X51	TW A	160	AC	14,699	55	AC Restoration	\$ 103,000.00
2018	X51	TW A	205	AC	13,738	43	AC Restoration	\$ 114,000.00
2018	X51	TW A	260	AC	5,369	45	AC Restoration	\$ 43,000.00
2018	X51	TW A	270	AC	5,369	46	AC Restoration	\$ 41,000.00
2018	X51	TW A	280	AC	4,273	53	AC Restoration	\$ 30,000.00
2018	X51	TW A	290	AC	4,069	58	AC Restoration	\$ 29,000.00
2018	X51	TW A	295	AC	4,189	49	AC Restoration	\$ 30,000.00
2018	X51	TW A1	230	AC	6,237	49	AC Restoration	\$ 44,000.00
2018	X51	TW A1	235	AAC	2,971	60	AC Restoration	\$ 21,000.00
2018	X51	TW A2	240	AC	11,520	42	AC Restoration	\$ 98,000.00
2018	X51	TW A3	250	AC	6,135	47	AC Restoration	\$ 46,000.00
2018	X51	TW AP	305	AAC	10,104	42	AC Restoration	\$ 87,000.00
2018	X51	TW B	105	AC	192,408	60	AC Restoration	\$ 1,347,000.00
2018	X51	TW B	180	AC	13,513	47	AC Restoration	\$ 101,000.00
2018	X51	TW B2	120	AC	21,223	47	AC Restoration	\$ 158,000.00
2018	X51	TW B3	130	AC	12,237	41	AC Restoration	\$ 106,000.00
2018	X51	TW B4	140	AC	15,569	47	AC Restoration	\$ 116,000.00
2018	X51	TW B5	150	AC	6,211	55	AC Restoration	\$ 44,000.00
2018	X51	TW C	400	AC	24,975	47	AC Restoration	\$ 186,000.00
2019	X51	RW 10-28	6205	AAC	224,925	64	AC Restoration	\$ 1,575,000.00
2019	X51	TW A	215	AC	121,199	64	AC Restoration	\$ 849,000.00
2022	X51	AP NW	4110	AC	11,958	64	AC Restoration	\$ 84,000.00
2023	X51	TW B1	110	AAC	20,223	63	AC Restoration	\$ 142,000.00
2025	X51	RW 18-36	6112	AAC	7,250	64	AC Restoration	\$ 51,000.00
2026	X51	AP NE	4305	AC	109,902	64	AC Restoration	\$ 770,000.00
2026	X51	TW A	210	AAC	5,600	64	AC Restoration	\$ 40,000.00

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

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





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

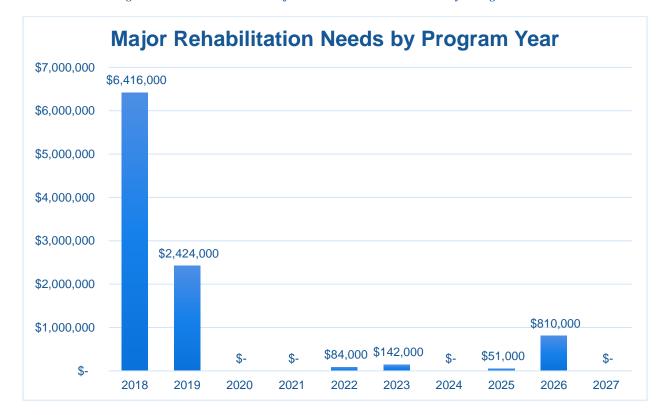
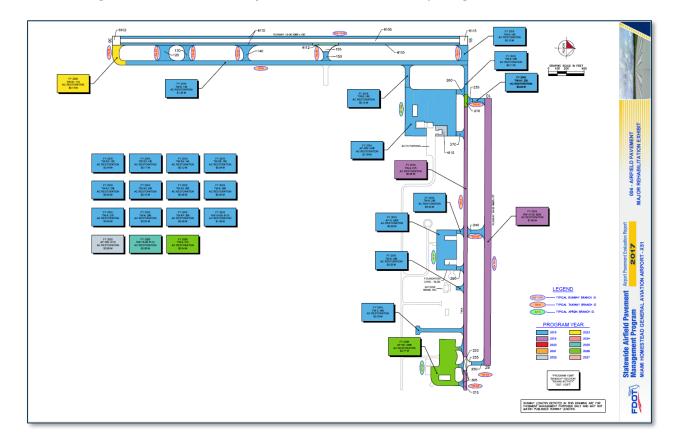






Figure 6.3.1-2 10-Year Major Rehabilitation Needs by Program Year Exhibit





Chapter 7





Chapter 7 – Conclusion

7.1 Recommendations

7.1.1 Continued PCI Survey Inspections

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

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

7.1.2 Localized Maintenance and Repair

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

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

7.1.3 Major Rehabilitation

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

7.1.4 Pavement Management System

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

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





7.2 Supporting Documents

001 - Airfield Pavement Network Definition Exhibit

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

002 - Airfield Pavement System Inventory Exhibit

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

003 - Airfield Pavement Condition Index Exhibit

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

004 - Airfield Pavement Major Rehabilitation Exhibit

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

Inspection Photograph Documentation

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





7.3 Conclusion

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



Appendix A

Airfield Pavement Analysis Tables

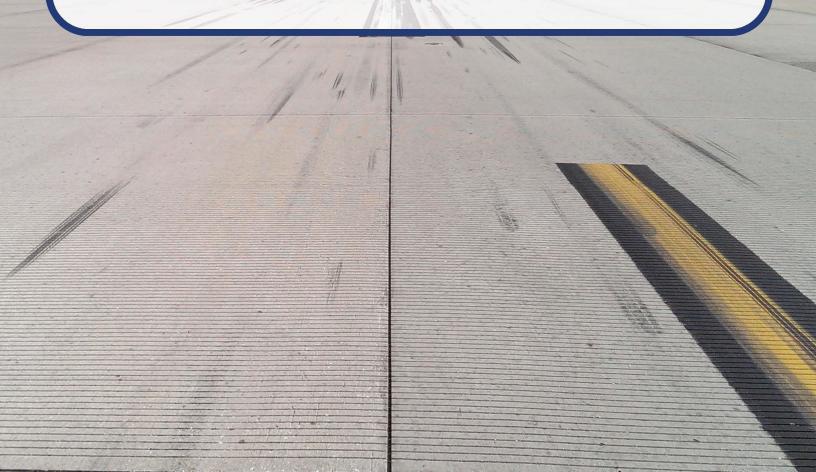






Table A-1 Pavement System Inventory Details

Network ID	Branch Name	Branch ID	Branch Use	Section ID	Length (FT)	Width (FT)	Area (SF)	Surface Type	Est. Last Construction Date
X51	NORTH APRON	AP N	APRON	4205	425	200	85,048	AC	1/1/1962
X51	NE APRON	AP NE	APRON	4305	600	180	109,902	AC	1/1/1999
X51	NW APRON	AP NW	APRON	4105	600	470	255,472	AC	1/1/1967
X51	NW APRON	AP NW	APRON	4110	130	118	11,958	AC	1/1/2005
X51	RUNWAY 10-28	RW 10-28	RUNWAY	6205	2999	75	224,925	AAC	1/1/1994
X51	RUNWAY 18-36	RW 18-36	RUNWAY	6102	90	100	9,000	AAC	6/1/2015
X51	RUNWAY 18-36	RW 18-36	RUNWAY	6105	3820	50	191,000	AAC	1/1/1993
X51	RUNWAY 18-36	RW 18-36	RUNWAY	6110	7350	25	183,750	AC	1/1/1967
X51	RUNWAY 18-36	RW 18-36	RUNWAY	6112	290	25	7,250	AAC	1/1/2009
X51	RUNWAY 18-36	RW 18-36	RUNWAY	6115	92	100	9,200	AAC	6/1/2015
X51	TAXIWAY ALPHA	TW A	TAXIWAY	160	195	75	14,699	AC	1/1/1967
X51	TAXIWAY ALPHA	TW A	TAXIWAY	205	340	40	13,738	AC	1/1/1967
X51	TAXIWAY ALPHA	TW A	TAXIWAY	210	170	40	5,600	AAC	1/1/1994
X51	TAXIWAY ALPHA	TW A	TAXIWAY	215	3000	40	121,199	AC	1/1/1962
X51	TAXIWAY ALPHA	TW A	TAXIWAY	220	150	40	6,000	AAC	1/1/1994
X51	TAXIWAY ALPHA	TW A	TAXIWAY	260	100	50	5,369	AC	1/1/1967
X51	TAXIWAY ALPHA	TW A	TAXIWAY	270	100	50	5,369	AC	1/1/1967
X51	TAXIWAY ALPHA	TW A	TAXIWAY	280	80	50	4,273	AC	1/1/1962
X51	TAXIWAY ALPHA	TW A	TAXIWAY	290	80	50	4,069	AC	1/1/1962
X51	TAXIWAY ALPHA	TW A	TAXIWAY	295	80	50	4,189	AC	1/1/1970
X51	TAXIWAY A1	TW A1	TAXIWAY	230	150	40	6,237	AC	1/1/1962
X51	TAXIWAY A1	TW A1	TAXIWAY	235	50	50	2,971	AAC	1/1/1994
X51	TAXIWAY A2	TW A2	TAXIWAY	240	250	40	11,520	AC	1/1/1962
X51	TAXIWAY A3	TW A3	TAXIWAY	250	150	40	6,135	AC	1/1/1962
X51	TAXIWAY A3	TW A3	TAXIWAY	255	50	50	2,869	AAC	1/1/1994
X51	TAXIWAY TO APRON	TW AP	TAXIWAY	305	150	40	10,104	AAC	1/1/2001
X51	TAXIWAY BRAVO	TW B	TAXIWAY	105	3848.16	50	192,408	AC	1/1/1967
X51	TAXIWAY BRAVO	TW B	TAXIWAY	180	240	50	13,513	AC	1/1/1967
X51	TAXIWAY B1	TW B1	TAXIWAY	110	260	75	20,223	AAC	1/1/1994
X51	TAXIWAY B2	TW B2	TAXIWAY	120	200	100	21,223	AC	1/1/1967
X51	TAXIWAY B3	TW B3	TAXIWAY	130	240	50	12,237	AC	1/1/1967
X51	TAXIWAY B4	TW B4	TAXIWAY	140	250	50	15,569	AC	1/1/1967
X51	TAXIWAY B5	TW B5	TAXIWAY	150	100	50	6,211	AC	1/1/1967
X51	TAXIWAY B5	TW B5	TAXIWAY	155	100	100	10,114	AAC	1/1/2009
X51	TAXIWAY C	TW C	TAXIWAY	400	535	40	24,975	AC	1/1/1957





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

Network ID	Branch Name	Branch Use	Section ID	Area (SF)	PCI	Condition Rating
X51	RUNWAY 18-36	RUNWAY	6102	9,000	100	Good
X51	RUNWAY 18-36	RUNWAY	6105	191,000	88	Good
X51	RUNWAY 18-36	RUNWAY	6110	183,750	54	Poor
X51	RUNWAY 18-36	RUNWAY	6112	7,250	81	Satisfactory
X51	RUNWAY 18-36	RUNWAY	6115	9,200	100	Good
X51	RUNWAY 10-28	RUNWAY	6205	224,925	67	Fair
X51	TAXIWAY A1	TAXIWAY	230	6,237	51	Poor
X51	TAXIWAY A1	TAXIWAY	235	2,971	62	Fair
X51	TAXIWAY A2	TAXIWAY	240	11,520	44	Poor
X51	TAXIWAY A3	TAXIWAY	250	6,135	49	Poor
X51	TAXIWAY A3	TAXIWAY	255	2,869	76	Satisfactory
X51	TAXIWAY ALPHA	TAXIWAY	160	14,699	56	Fair
X51	TAXIWAY ALPHA	TAXIWAY	205	13,738	45	Poor
X51	TAXIWAY ALPHA	TAXIWAY	210	5,600	73	Satisfactory
X51	TAXIWAY ALPHA	TAXIWAY	215	121,199	66	Fair
X51	TAXIWAY ALPHA	TAXIWAY	220	6,000	75	Satisfactory
X51	TAXIWAY ALPHA	TAXIWAY	260	5,369	47	Poor
X51	TAXIWAY ALPHA	TAXIWAY	270	5,369	48	Poor
X51	TAXIWAY ALPHA	TAXIWAY	280	4,273	55	Poor
X51	TAXIWAY ALPHA	TAXIWAY	290	4,069	59	Fair
X51	TAXIWAY ALPHA	TAXIWAY	295	4,189	51	Poor
X51	TAXIWAY B1	TAXIWAY	110	20,223	70	Fair
X51	TAXIWAY B2	TAXIWAY	120	21,223	49	Poor
X51	TAXIWAY B3	TAXIWAY	130	12,237	43	Poor
X51	TAXIWAY B4	TAXIWAY	140	15,569	49	Poor
X51	TAXIWAY B5	TAXIWAY	150	6,211	56	Fair
X51	TAXIWAY B5	TAXIWAY	155	10,114	91	Good
X51	TAXIWAY BRAVO	TAXIWAY	105	192,408	61	Fair
X51	TAXIWAY BRAVO	TAXIWAY	180	13,513	49	Poor
X51	TAXIWAY C	TAXIWAY	400	24,975	49	Poor
X51	TAXIWAY TO APRON	TAXIWAY	305	10,104	43	Poor
X51	NW APRON	APRON	4105	255,472	58	Fair
X51	NW APRON	APRON	4110	11,958	72	Satisfactory
X51	NORTH APRON	APRON	4205	85,048	65	Fair
X51	NE APRON	APRON	4305	109,902	78	Satisfactory

2017





Table A-3 Forecasted PCI 2018-2027

								Forecas	sted PC	I			
Network ID	Branch ID	Section ID	Last PCI	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
X51	AP N	4205	65	63	62	60	59	57	55	54	52	51	49
X51	AP NE	4305	78	76	75	73	72	70	68	67	65	64	62
X51	AP NW	4105	58	56	55	53	52	50	48	47	45	44	42
X51	AP NW	4110	72	70	69	67	66	64	62	61	59	58	56
X51	RW 10-28	6205	67	65	64	63	62	61	61	60	60	60	60
X51	RW 18-36	6102	100	94	92	90	88	85	83	80	78	75	73
X51	RW 18-36	6105	88	86	83	81	78	76	74	71	69	67	66
X51	RW 18-36	6110	54	52	51	49	47	46	44	43	41	39	38
X51	RW 18-36	6112	81	79	76	74	72	69	67	66	64	63	62
X51	RW 18-36	6115	100	94	92	90	88	85	83	80	78	75	73
X51	TW A	160	56	55	53	52	50	49	47	45	44	42	40
X51	TW A	205	45	43	42	40	39	37	36	35	33	32	31
X51	TW A	210	73	72	71	70	69	68	67	66	65	64	63
X51	TW A	215	66	65	64	63	62	61	60	59	58	57	56
X51	TW A	220	75	74	73	72	71	70	69	68	67	66	65
X51	TW A	260	47	45	44	42	41	39	38	36	35	34	33
X51	TW A	270	48	46	45	43	41	40	38	37	36	34	33
X51	TW A	280	55	53	52	51	49	47	46	44	42	41	39
X51	TW A	290	59	58	56	55	54	52	51	49	48	46	44
X51	TW A	295	51	49	48	46	45	43	41	40	38	37	36
X51	TW A1	230	51	49	48	46	45	43	41	40	38	37	36
X51	TW A1	235	62	60	59	57	55	54	52	50	49	47	46
X51	TW A2	240	44	42	41	39	38	36	35	34	33	32	31
X51	TW A3	250	49	47	46	44	42	41	39	38	36	35	34
X51	TW A3	255	76	75	73	72	72	71	70	69	68	67	66
X51	TW AP	305	43	42	40	38	34	29	25	21	17	14	10
X51	TW B	105	61	60	59	58	56	55	54	52	51	49	48
X51	TW B	180	49	47	46	44	42	41	39	38	36	35	34
X51	TW B1	110	70	69	68	67	66	65	63	62	60	59	57
X51	TW B2	120	49	47	46	44	42	41	39	38	36	35	34
X51	TW B3	130	43	41	40	38	37	36	34	33	32	31	30
X51	TW B4	140	49	47	46	44	42	41	39	38	36	35	34
X51	TW B5	150	56	55	53	52	50	49	47	45	44	42	40
X51	TW B5	155	91	88	86	83	81	79	77	76	74	73	72
X51	TW C	400	49	47	46	44	42	41	39	38	36	35	34

Work History Report Pavement Database: FDOT

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Network:	MIAMI H	OMESTEA Branch: AP I	N	NORTI	H APRON	Section:	4205	Surface: AC
L.C.D.: 1/1/1	962 Us	se: APRON Rank: P	Length:	425.	00 (Ft) W	Vidth: 200.	00 (Ft) True A	Area: 85,048.00 (SqFt)
Work Date	Work Code	Work Description	C	ost	Thickness (in)	Major M&R		Comments
1/1/2001	SS-RE	Surface Seal - Rejuvenating		0.00	0.00	0		
1/1/1994	IMPORT ED	REPAIR		0.00	0.00	0	THIS APRON	HAS A NEW EAL (APPROX. 1994)
1/1/1962	IMPORT	BUILT		0.00	1.00	0	1962: 1" P-401	· · · · · · · · · · · · · · · · · · ·
	ED							
Network:	MIAMI H	OMESTEA Branch: AP l	NE	NE AP	RON	Section:	4305	Surface: AC
L.C.D.: 1/1/1	999 Us	se: APRON Rank: P	Length:	600.	00 (Ft) W	Vidth: 180.	00 (Ft) True A	Area: 109,902.00 (SqFt)
Work Date	Work Code	Work Description		ost	Thickness (in)	Major M&R		Comments
1/1/1999	NU-IN	New Construction - Initial		0.00	0.00		ESTIMATED (CONSTRUCTION
	I							
Network:	MIAMI H	OMESTEA Branch: AP 1	NW	NW AF	PRON	Section:	4105	Surface: AC
L.C.D.: 1/1/1	967 Us	se: APRON Rank: P	Length:	600.	00 (Ft) W	Vidth: 470.	00 (Ft) True A	Area: 255,472.00 (SqFt)
Work Date	Work Code	Work Description	C	ost	Thickness (in)	Major M&R		Comments
1/1/2001	SS-RE	Surface Seal - Rejuvenating		0.00	0.00	0		
1/1/1967		OVERLAY		0.00	0.00	0		AREA SHOWN
1/1/1967	ED IMPORT	BUILT		0.00	1.50	0		S NON-FENCED AREA. P-401 ON 7" P-211
	ED	•	•					
Network:	MIAMI H	OMESTEA Branch: AP 1	NW	NW AF	PRON	Section:	4110	Surface: AC
L.C.D.: 1/1/2	.005 Us	se: APRON Rank: P	Length:	130.	00 (Ft) W	Vidth: 118.	00 (Ft) True A	Area: 11,958.00 (SqFt)
Work Date	Work Code	Work Description	C	ost	Thickness (in)	Major M&R		Comments
1/1/2005	NU-IN	New Construction - Initial		0.00	0.00		Estimated Con	struction
	ı							
Network:	MIAMI H	OMESTEA Branch: RW	10-28	RUNW	'AY 10-28	Section:	6205	Surface: AAC
L.C.D.: 1/1/1	994 Us	se: RUNWAY Rank: P	Length:	2,999.	00 (Ft) W	Vidth: 75.	00 (Ft) True A	Area: 224,925.00 (SqFt)
Work Date	Work Code	Work Description	C	ost	Thickness (in)	Major M&R		Comments
1/1/1994	IMPORT ED	REPAIR		0.00	0.00	0	THIS FEATUREMULSION S	RE HAS A NEW (1994) EAL
1/1/1994	OL-AT	Overlay - AC Thin		0.00	0.00	0	Estimated Con	struction Date
1/1/1962	IMPORT ED	BUILT		0.00	1.00	0	1962: 1" P-401	ON 6" P-211
	1 25							
Network:	MIAMI H	OMESTEA Branch: RW	18-36	RUNW	'AY 18-36	Section:	6102	Surface: AAC
L.C.D.: 6/1/2	015 Us	se: RUNWAY Rank: P	Length:	90.	00 (Ft) W	Vidth: 100.	00 (Ft) True A	Area: 9,000.00 (SqFt)
Work Date	Work Code	Work Description	C	ost	Thickness (in)	Major M&R		Comments
6/1/2015	ML-OV	MILL and OVERLAY		0.00	0.00	0		
6/1/2015 1/1/1967		MILL and OVERLAY New Construction - AC		0.00	· · · ·			

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Pavement Database: FDOT

Network:	MIAMI HO	OMESTEA Branch: RW 18	-36 RUNV	VAY 18-36	Section:	6105 Surface: AAC
L.C.D.: 1/1/19	993 Us	se: RUNWAY Rank: P L	ength: 3,820	.00 (Ft) Wi	dth: 50.	00 (Ft) True Area: 191,000.00 (SqFt)
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
1/1/2001	SS-RE	Surface Seal - Rejuvenating	0.00	0.00		
1/1/1993	IMPORT ED	OVERLAY	0.00	2.00		1993 AC OVERLAY (2" AT CENTERLINE TO A 1" MINIMUM)
1/1/1967	IMPORT ED	OVERLAY	0.00	1.50		1967: 1.5" - 2" P-401 ON 7" P-211
1/1/1967	IMPORT ED	BUILT	0.00	2.00		1967 2" P401 ON 7" P211
Network:	MIAMI HO	OMESTEA Branch: RW 18	-36 RUNV	VAY 18-36	Section:	6110 Surface: AC
L.C.D.: 1/1/1	967 Us	se: RUNWAY Rank: P L	ength: 7,350	.00 (Ft) Wi	dth: 25.	00 (Ft) True Area: 183,750.00 (SqFt)
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
1/1/2001	SS-RE	Surface Seal - Rejuvenating	0.00	0.00		
1/1/1967	IMPORT ED	BUILT	0.00	1.50		1967: 1.5" - 2" P-401 ON 7" P-211
		OMESTEA Branch: RW 18		VAY 18-36	Section:	6112 Surface: AAC
L.C.D.: 1/1/2	009 Us	se: RUNWAY Rank: P L	ength: 290	.00 (Ft) Wi	dth: 25.	00 (Ft) True Area: 7,250.00 (SqFt)
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
1/1/2009		MILL and OVERLAY	0.00	0.00	V	
1/1/2001		Surface Seal - Rejuvenating	0.00	0.00		
1/1/1967	IMPORT ED	BUILT	0.00	1.50	~	1967: 1.5" - 2" P-401 ON 7" P-211
Network:	MIAMI HO	OMESTEA Branch: RW 18	-36 RUNV	VAY 18-36	Section:	6115 Surface: AAC
L.C.D.: 6/1/20	015 Us	se: RUNWAY Rank: P L	ength: 92	.00 (Ft) Wi	dth: 100.	00 (Ft) True Area: 9,200.00 (SqFt)
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
6/1/2015	ML-OV	MILL and OVERLAY	0.00	0.00	V	
1/1/1967	NC-AC	New Construction - AC	0.00	0.00		
		OMESTEA Branch: TW A1		WAY A1	Section:	
L.C.D.: 1/1/1	i e	se: TAXIWAY Rank: P L	ength: 150	. ,		00 (Ft) True Area: 6,237.00 (SqFt)
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
1/1/1962	NU-IN	New Construction - Initial	0.00	1.00	V	1962: 1" P-401 ON 6" P-211
Network:	MIAMI HO	OMESTEA Branch: TW A1	TAXIV	WAY A1	Section:	
L.C.D.: 1/1/1		se: TAXIWAY Rank: P L	ength: 50	. ,		00 (Ft) True Area: 2,971.00 (SqFt)
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
1/1/1994	ML-OL	Mill and Overlay	0.00	1.00	V	1994 1" AC OVERLAY
1/1/1962	NU-IN	New Construction - Initial	0.00	1.00		1962: 1" P-401 ON 6" P-211

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Pavement Database: FDOT

		Pavement Database:	TDOI			
Network:	MIAMI HO	OMESTEA Branch: TW A	TAXIV	WAY ALPH	Section:	160 Surface: AC
L.C.D.: 1/1/1	967 Us	e: TAXIWAY Rank: P L	ength: 195	.00 (Ft) Wi	dth: 75.	00 (Ft) True Area: 14,699.00 (SqFt)
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
1/1/2001	SS-RE	Surface Seal - Rejuvenating	0.00	0.00		
1/1/1967	NU-IN	New Construction - Initial	0.00	1.50		1967: 1.5"-2" P-401 ON 7" P-211
Network:	MIAMI HO	OMESTEA Branch: TW A	TAXIV	WAY ALPH	Section:	205 Surface: AC
L.C.D.: 1/1/1	967 Us	e: TAXIWAY Rank: P L	ength: 340	.00 (Ft) Wi	dth: 40.	00 (Ft) True Area: 13,738.00 (SqFt)
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
1/1/1967	IMPORT ED	BUILT	0.00	1.50	V	1967: 1.5" - 2" P-401 ON 7" P-211
		OMESTEA Branch: TW A		WAY ALPH	Section:	
L.C.D.: 1/1/1		e: TAXIWAY Rank: P L	ength: 170			00 (Ft) True Area: 5,600.00 (SqFt)
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
1/1/1994	IMPORT ED	OVERLAY	0.00	1.00	~	1994 1" AC OVERLAY
1/1/1962	IMPORT ED	BUILT	0.00	1.00		1962 1" P401 ON 6" P211
	LD					
Network:	MIAMI HO	OMESTEA Branch: TW A	TAXIV	WAY ALPH	Section:	215 Surface: AC
L.C.D.: 1/1/1	962 Us	e: TAXIWAY Rank: P L	ength: 3,000	.00 (Ft) Wi	dth: 40.	00 (Ft) True Area: 121,199.00 (SqFt)
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
1/1/1962	IMPORT ED	BUILT	0.00	1.00	~	1962: 1" P-401 ON 6" P-211
Network:	MIAMI HO	OMESTEA Branch: TW A	TAXIV	WAY ALPH	Section:	Surface: AAC
L.C.D.: 1/1/1		e: TAXIWAY Rank: P L	ength: 150	` ′		00 (Ft) True Area: 6,000.00 (SqFt)
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
1/1/1994	IMPORT ED	OVERLAY	0.00	1.00	V	1994 1" AC OVERLAY
1/1/1962	IMPORT ED	BUILT	0.00	1.00		1962 1" P401 ON 6" P211
	ED					
Network:	MIAMI HO	OMESTEA Branch: TW A2	TAXIV	WAY A2	Section:	Surface: AC
L.C.D.: 1/1/1	962 Us	e: TAXIWAY Rank: P L	ength: 250	.00 (Ft) Wi	dth: 40.	00 (Ft) True Area: 11,520.00 (SqFt)
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
1/1/1962	NU-IN	New Construction - Initial	0.00	1.00	V	1962: 1" P-401 ON 6" P-211
Network:	МІАМІ Н	OMESTEA Branch: TW A	TAXIV	WAY ALPH	Section:	260 Surface: AC
L.C.D.: 1/1/1						00 (Ft) True Area: 5,369.00 (SqFt)
Work Date	Work Code	Work Description	Cost	Thickness	Major M&R	Comments
1/1/2001		Surface Seal - Rejuvenating	0.00	(in) 0.00	NICK	
1/1/1967	IMPORT ED	BUILT	0.00	1.50	~	1967: 1.5" - 2" P-401 ON 7" P-211
	رات ا					

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Pavement Database: FDOT

Network:	MIAMI H	OMESTEA Branch: TW A	TAXI	WAY ALPH	Section:	270	Surface: AC
L.C.D.: 1/1/1	967 Us	se: TAXIWAY Rank: P	ength: 100	.00 (Ft) Wi	dth: 50.0	00 (Ft) True Area:	5,369.00 (SqFt)
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comm	nents
1/1/2001	SS-RE	Surface Seal - Rejuvenating	0.00	0.00			
1/1/1967	IMPORT ED	BUILT	0.00	1.50	V	1967: 1.5" - 2" P-401	ON 7" P-211
Network:	MIAMI H	OMESTEA Branch: TW A	TAXI	WAY ALPH	Section:	280	Surface: AC
L.C.D.: 1/1/1	962 Us	se: TAXIWAY Rank: P I	ength: 80	.00 (Ft) Wi	dth: 50.0	00 (Ft) True Area:	4,273.00 (SqFt)
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comn	nents
1/1/2001	SS-RE	Surface Seal - Rejuvenating	0.00	0.00			
1/1/1962	IMPORT ED	BUILT	0.00	1.00		1962: 1" P-401 ON 6	" P-211
			T + X///		a	200	a
11001101111		OMESTEA Branch: TW A		WAY ALPH	Section:		Surface: AC
L.C.D.: 1/1/1		se: TAXIWAY Rank: P I	ength: 80	. ,		00 (Ft) True Area:	4,069.00 (SqFt)
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comm	nents
1/1/2001	SS-RE	Surface Seal - Rejuvenating	0.00	0.00			
1/1/1962	IMPORT	BUILT	0.00	1.00		1962: 1" P-401 ON 6	i" P-211
	ED						
Network:	MIAMI H	OMESTEA Branch: TW A	TAXIV	WAY ALPH	Section:	295	Surface: AC
L.C.D.: 1/1/1	970 Us	se: TAXIWAY Rank: P I	ength: 80	.00 (Ft) Wi	dth: 50.0	00 (Ft) True Area:	4,189.00 (SqFt)
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comm	
1/1/1970	IMPORT	BUILT	0.00	0.00	V	ESTIMATE 1970 AG	C PAVEMENT
	ED		1				
Notwork	MIAMIH	OMESTEA Branch: TW A3	2 TAYII	WAY A3	Section:	250	Surface: AC
L.C.D.: 1/1/1						00 (Ft) True Area:	6,135.00 (SqFt)
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comm	-
1/1/1962		New Construction - Initial	0.00	` /	V	1962: 1" P-401 ON 6	i" P-211
Network:	MIAMI H	OMESTEA Branch: TW A3	3 TAXI	WAY A3	Section:	255	Surface: AAC
L.C.D.: 1/1/1	994 U s	se: TAXIWAY Rank: P	ength: 50	.00 (Ft) Wi	dth: 50.0	00 (Ft) True Area:	2,869.00 (SqFt)
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comm	nents
1/1/1994	ML-OL	Mill and Overlay	0.00	1.00	>	1994 1" AC OVERL	
1/1/1962	NU-IN	New Construction - Initial	0.00	1.00		1962 1" P401 ON 6	" P211

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Pavement Database: FDOT

Network:	MIAMI H	OMESTEA Branch: TW A	٩P	TAXIV	VAY TO A	Section:	305	Surface: AAC
L.C.D.: 1/1/2	001 Us	se: TAXIWAY Rank: P	Lei	ngth: 150.	.00 (Ft) Wi	dth: 40.	00 (Ft) True Area:	10,104.00 (SqFt)
Work Date	Work Code	Work Description		Cost	Thickness (in)	Major M&R	Comr	nents
1/1/2001	ML-OV	MILL and OVERLAY		0.00	0.00	V		
1/1/1994	OL-MR	Overlay		0.00	0.00		1994 1" AC OVERL	
1/1/1962	NU-IN	New Construction - Initial		0.00	0.00	V	1962 1" P401 ON 6"	P211
Network:	MIAMI H	OMESTEA Branch: TW E	3	TAXIV	VAY BRAV	Section:	105	Surface: AC
L.C.D.: 1/1/1	967 Us	se: TAXIWAY Rank: P	Lei	ngth: 3,848.	.16 (Ft) Wi	dth: 50.	00 (Ft) True Area:	192,408.00 (SqFt)
Work Date	Work Code	Work Description		Cost	Thickness (in)	Major M&R	Comr	nents
1/1/2001	SS-RE	Surface Seal - Rejuvenating		0.00	0.00			
1/1/1967	IMPORT ED	BUILT		0.00	1.50	V	1967: 1.5" - 2" P-401	1 ON 7" P-211
		OMEGINE A TOTAL TO				g ::	110	G 0
		OMESTEA Branch: TW F			VAY B1	Section:		Surface: AAC
L.C.D.: 1/1/1		se: TAXIWAY Rank: P	Lei	ngth: 260.	` ′		00 (Ft) True Area:	20,223.00 (SqFt)
Work Date	Work Code	Work Description		Cost	Thickness (in)	Major M&R	Comr	ments
1/1/2001	SS-RE	Surface Seal - Rejuvenating		0.00	0.00			
1/1/1994	ML-OL	Mill and Overlay		0.00	1.00		1994 1" AC OVERL	
1/1/1967	NU-IN	New Construction - Initial		0.00	2.00	V	1967 2" P401 ON 7	" P211
Notwork	MIAMIH	OMESTEA Branch: TW F	2	TAXIV	VAY BRAV	Section:	180	Surface: AC
L.C.D.: 1/1/1							00 (Ft) True Area:	
Work Date	Work Code	Work Description		Cost	Thickness (in)	Major M&R	Comr	
1/1/2001	SS-RE	Surface Seal - Rejuvenating		0.00	0.00			
1/1/1967	IMPORT ED	BUILT		0.00	1.50		1967: 1.5" - 2" P-401	1 ON 7" P-211
Natarak	MIAMITI	OMECTEA D. TWI	22	TAVIN	VAY B2	G - 4	120	C
Network: L.C.D.: 1/1/1		OMESTEA Branch: TW E se: TAXIWAY Rank: P				Section: dth: 100	00 (Ft) True Area:	Surface: AC 21,223.00 (SqFt)
Work Date	Work Code	Work Description		Cost	Thickness (in)	Major M&R	Comr	
1/1/2001	SS-RE	Surface Seal - Rejuvenating		0.00	0.00			
1/1/1967	NU-IN	New Construction - Initial		0.00	1.50	V	1967: 1.5" - 2" P-401	1 ON 7" P-211
Network:	MIAMI H	OMESTEA Branch: TW E	33	TAXIV	VAY B3	Section:	130	Surface: AC
L.C.D.: 1/1/1	967 Us	se: TAXIWAY Rank: P	Lei	ngth: 240.	.00 (Ft) Wi	dth: 50.	00 (Ft) True Area:	12,237.00 (SqFt)
Work Date	Work Code	Work Description		Cost	Thickness (in)	Major M&R	Comr	nents
1/1/2001	SS-RE	Surface Seal - Rejuvenating		0.00	0.00			
1/1/1967	NU-IN	New Construction - Initial		0.00	1.50	V	1967: 1.5" - 2" P-401	1 ON 7" P-211
		·			•			

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	Payement Database: FDOT	

Network:	MIAMI H	OMESTEA	Branch: TW	B4	TAXIV	WAY B4	Section	140		Surface: AC
L.C.D.: 1/1/1	967 Us	se: TAXIWAY	Rank: P	Leng	1930 1930 1930 1930	.00 (Ft) Wi	dth: 50.	00 (Ft)	True Area:	15,569.00 (SqFt)
Work Date	Work Code	Work Do	escription		Cost	Thickness (in)	Major M&R		Comn	nents
1/1/1967	NU-IN	New Constructi	on - Initial		0.00	0.00	>			
Network: L.C.D.: 1/1/1		OMESTEA	Branch: TW	B5		WAY B5 .00 (Ft) Wi	Section:		True Area:	Surface: AC 6,211.00 (SqFt)
Work Date	Work Code	Work Do	escription		Cost	Thickness (in)	Major M&R		Comn	nents
1/1/2001	SS-RE	Surface Seal - F	Rejuvenating		0.00	0.00				
1/1/1967	NU-IN	New Constructi	on - Initial		0.00	1.50	V	1967: 1	1.5" - 2" P-401	ON 7" P-211
3, 3, 2, 0,	MIAMI H		Branch: TW		TAXIV	WAY B5	Section:	155		ON 7" P-211 Surface: AAC 10,114.00 (SqFt)
Network:	MIAMI H	OMESTEA se: TAXIWAY	Branch: TW		TAXIV	WAY B5	Section:	155		Surface: AAC 10,114.00 (SqFt)
Network: L.C.D.: 1/1/2	MIAMI HO	OMESTEA se: TAXIWAY	Branch: TW Rank: P escription		TAXIV	WAY B5 .00 (Ft) Wi	Section: dth: 100. Major	155	True Area:	Surface: AAC 10,114.00 (SqFt)
Network: L.C.D.: 1/1/2 Work Date	MIAMI HO	OMESTEA se: TAXIWAY Work Do	Branch: TW Rank: P escription		TAXIV	WAY B5 .00 (Ft) Wi Thickness (in)	Section: dth: 100. Major M&R	155	True Area:	Surface: AAC 10,114.00 (SqFt)
Network: L.C.D.: 1/1/2 Work Date 1/1/2009	MIAMI HO 009 Us Work Code ML-OL	OMESTEA se: TAXIWAY Work Do Mill and Overla	Branch: TW Rank: P escription by Rejuvenating		TAXIV ngth: 100. Cost 0.00	WAY B5 .00 (Ft) Wi Thickness (in) 0.00	Section: dth: 100. Major M&R	155 00 (Ft)	True Area:	Surface: AAC 10,114.00 (SqFt) ments
Network: L.C.D.: 1/1/2 Work Date 1/1/2009 1/1/2001 1/1/1967	MIAMI HO 0009 Us Work Code ML-OL SS-RE NU-IN	OMESTEA se: TAXIWAY Work Do Mill and Overla Surface Seal - F New Constructi	Branch: TW Rank: P escription By Rejuvenating on - Initial Branch: TW	Leng	TAXIV ngth: 100. Cost 0.00 0.00 0.00 TAXIV	WAY B5 .00 (Ft) Wi Thickness (in) 0.00 0.00 1.50	Section: dth: 100. Major M&R V Section:	155 00 (Ft) 1967: 1	True Area:	Surface: AAC 10,114.00 (SqFt) nents ON 7" P-211 Surface: AC
Network: L.C.D.: 1/1/2 Work Date 1/1/2009 1/1/2001 1/1/1967 Network:	MIAMI HO 0009 Us Work Code ML-OL SS-RE NU-IN	OMESTEA se: TAXIWAY Work Do Mill and Overla Surface Seal - F New Constructi OMESTEA se: TAXIWAY	Branch: TW Rank: P escription By Rejuvenating on - Initial Branch: TW	Leng	TAXIV ngth: 100. Cost 0.00 0.00 0.00 TAXIV	WAY B5 .00 (Ft) Wi Thickness (in) 0.00 0.00 1.50	Section: dth: 100. Major M&R V Section:	155 00 (Ft) 1967: 1	True Area: Comn 1.5" - 2" P-401	Surface: AAC 10,114.00 (SqFt) nents ON 7" P-211 Surface: AC 24,975.00 (SqFt)

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Pavement Database: FDOT

Summary:

Work Description	Section Count	Area Total (SqFt)	Thickness Avg (in)	Thickness STD (in)
BUILT	17	1,323,172.00	1.24	0.42
MILL and OVERLAY	8	71,731.00	0.38	0.48
New Construction - AC	2	18,200.00	0.00	0.00
New Construction - Initial	16	286,947.00	0.91	0.67
OVERLAY	6	659,176.00	0.92	0.73
Overlay - AC Thin	1	224,925.00	0.00	0.00
REPAIR	2	309,973.00	0.00	0.00
Surface Seal - Rejuvenating	17	1,032,228.00	0.00	0.00

Branch Condition Report

Page 1 of 2

Pavement Database: FDOT

Branch ID	Number of Sections	Sum Section Length (Ft)	Avg Section Width (Ft)	True Area (SqFt)	Use	Average PCI	Standard Deviation PCI	Weighted Average PCI
AP N	1	425.00	200.00	85,048.00	APRON	65.00	0.00	65.00
AP NE	1	600.00	180.00	109,902.00	APRON	78.00	0.00	78.00
AP NW	2	730.00	294.00	267,430.00	APRON	65.00	7.00	58.63
RW 10-28	1	2,999.00	75.00	224,925.00	RUNWAY	67.00	0.00	67.00
RW 18-36	5	11,642.00	60.00	400,200.00	RUNWAY	84.60	16.94	72.81
TW A	10	4,295.00	48.50	184,505.00	TAXIWAY	57.50	10.14	62.32
TW A1	2	200.00	45.00	9,208.00	TAXIWAY	56.50	5.50	54.55
TW A2	1	250.00	40.00	11,520.00	TAXIWAY	44.00	0.00	44.00
TW A3	2	200.00	45.00	9,004.00	TAXIWAY	62.50	13.50	57.60
TW AP	1	150.00	40.00	10,104.00	TAXIWAY	43.00	0.00	43.00
TW B	2	4,088.16	50.00	205,921.00	TAXIWAY	55.00	6.00	60.21
TW B1	1	260.00	75.00	20,223.00	TAXIWAY	70.00	0.00	70.00
TW B2	1	200.00	100.00	21,223.00	TAXIWAY	49.00	0.00	49.00
TW B3	1	240.00	50.00	12,237.00	TAXIWAY	43.00	0.00	43.00
TW B4	1	250.00	50.00	15,569.00	TAXIWAY	49.00	0.00	49.00
TW B5	2	200.00	75.00	16,325.00	TAXIWAY	73.50	17.50	77.68
TW C	1	535.00	40.00	24,975.00	TAXIWAY	49.00	0.00	49.00

8/3/2017	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	462380.000060257	68.25	7.50	64.40
RUNWAY	6	625125.000192886	81.67	16.80	70.72
TAXIWAY	25	540814.000150288	56.68	12.12	59.35
ALL	35	1628319.00040343	62.29	15.83	65.15

Pavement Database: FDOT

NetworkId: X51

Branch ID Section ID Last Const. Date Date Surface Use Rank Lanes True Area (SqFt) Inspection Inspec	
AP NE	PCI
AP NW 4105	65
AP NW	78
RW 10-28 6205 1/1/1994 AAC RUNWAY P 0 224,925.00 4/11/2017 23 RW 18-36 6102 6/1/2015 AAC RUNWAY P 0 9,000.00 6/1/2015 0 RW 18-36 6105 1/1/1993 AAC RUNWAY P 0 191,000.00 4/11/2017 24 RW 18-36 6110 1/1/1967 AC RUNWAY P 0 183,750.00 4/11/2017 50 RW 18-36 6112 1/1/2009 AAC RUNWAY P 0 7,250.00 4/11/2017 8 RW 18-36 6115 6/1/2015 AAC RUNWAY P 0 7,250.00 4/11/2017 8 RW 18-36 6115 6/1/2015 AAC RUNWAY P 0 7,250.00 4/11/2017 50 TW A 160 1/1/1967 AC TAXIWAY P 0 14,699.00 4/11/2017 50 TW A 210	58
RW 18-36	72
RW 18-36 6105 1/1/1993 AAC RUNWAY P 0 191,000.00 4/11/2017 24 RW 18-36 6110 1/1/1967 AC RUNWAY P 0 183,750.00 4/11/2017 50 RW 18-36 6112 1/1/2009 AAC RUNWAY P 0 7,250.00 4/11/2017 8 RW 18-36 6115 6/1/2015 AAC RUNWAY P 0 7,250.00 4/11/2017 8 RW 18-36 6115 6/1/2015 AAC RUNWAY P 0 9,200.00 6/1/2015 0 TW A 160 1/1/1967 AC TAXIWAY P 0 14,699.00 4/11/2017 50 TW A 205 1/1/1967 AC TAXIWAY P 0 13,738.00 4/11/2017 50 TW A 210 1/1/1994 AAC TAXIWAY P 0 5,600.00 4/11/2017 50 TW A 215 1/1/1994 AAC TAXIWAY P 0 6,000.00 4/11/2017 55	67
RW 18-36 6110 1/1/1967 AC RUNWAY P 0 183,750.00 4/11/2017 50 RW 18-36 6112 1/1/2009 AAC RUNWAY P 0 7,250.00 4/11/2017 8 RW 18-36 6115 6/1/2015 AAC RUNWAY P 0 9,200.00 6/1/2015 0 TW A 160 1/1/1967 AC TAXIWAY P 0 13,738.00 4/11/2017 50 TW A 210 1/1/1994 AAC TAXIWAY P 0 1,600.00 4/11/2017 23 TW A 215 1/1/1962 AC TAXIWAY P 0 121,199.00 4/11/2017 55 TW A 220 1/1/1994 AAC TAXIWAY P 0 6,000.00 4/11/2017 23 TW A 220 1/1/1994 AAC TAXIWAY P 0 6,000.00 4/11/2017 55 TW A 260 1/1/1967 AC TAXIWAY P 0 5,369.00 4/11/2017 50 TW A 270 1/1/1967 AC TAXIWAY P 0 5,369.00 4/11/2017 50 TW A 280 1/1/1962 AC TAXIWAY P 0 5,369.00 4/11/2017 55 TW A 290 1/1/1962 AC TAXIWAY P 0 4,069.00 4/11/2017 55 TW A 290 1/1/1962 AC TAXIWAY P 0 4,069.00 4/11/2017 55 TW A 295 1/1/1962 AC TAXIWAY P 0 4,069.00 4/11/2017 55 TW A 295 1/1/1962 AC TAXIWAY P 0 4,189.00 4/11/2017 55 TW A 295 1/1/1962 AC TAXIWAY P 0 4,189.00 4/11/2017 55 TW A 295 1/1/1962 AC TAXIWAY P 0 4,189.00 4/11/2017 55 TW A 295 1/1/1962 AC TAXIWAY P 0 6,237.00 4/11/	100
RW 18-36 6112 1/1/2009 AAC RUNWAY P 0 7,250.00 4/11/2017 8 RW 18-36 6115 6/1/2015 AAC RUNWAY P 0 7,250.00 4/11/2017 0 TW A 160 1/1/1967 AC TAXIWAY P 0 14,699.00 4/11/2017 50 TW A 205 1/1/1967 AC TAXIWAY P 0 13,738.00 4/11/2017 50 TW A 210 1/1/1994 AAC TAXIWAY P 0 5,600.00 4/11/2017 23 TW A 215 1/1/1962 AC TAXIWAY P 0 6,000.00 4/11/2017 55 TW A 220 1/1/1967 AC TAXIWAY P 0 6,000.00 4/11/2017 55 TW A 260 1/1/1967 AC TAXIWAY P 0 5,369.00 4/11/2017 50 TW A 280 1/1/1962	88
RW 18-36 6115 6/1/2015 AAC RUNWAY P 0 9,200.00 6/1/2015 0 TW A 160 1/1/1967 AC TAXIWAY P 0 14,699.00 4/11/2017 50 TW A 205 1/1/1967 AC TAXIWAY P 0 13,738.00 4/11/2017 50 TW A 210 1/1/1994 AAC TAXIWAY P 0 5,600.00 4/11/2017 23 TW A 215 1/1/1962 AC TAXIWAY P 0 121,199.00 4/11/2017 55 TW A 220 1/1/1994 AAC TAXIWAY P 0 6,000.00 4/11/2017 55 TW A 260 1/1/1967 AC TAXIWAY P 0 5,369.00 4/11/2017 50 TW A 270 1/1/1967 AC TAXIWAY P 0 5,369.00 4/11/2017 55 TW A 280 1/1/1962	54
TW A 160 1/1/1967 AC TAXIWAY P 0 14,699.00 4/11/2017 50 TW A 205 1/1/1962 AC TAXIWAY P 0 5,600.00 4/11/2017 23 TW A 220 1/1/1994 AAC TAXIWAY P 0 121,199.00 4/11/2017 55 TW A 220 1/1/1994 AAC TAXIWAY P 0 6,000.00 4/11/2017 23 TW A 220 1/1/1994 AAC TAXIWAY P 0 6,000.00 4/11/2017 55 TW A 220 1/1/1967 AC TAXIWAY P 0 5,369.00 4/11/2017 23 TW A 260 1/1/1967 AC TAXIWAY P 0 5,369.00 4/11/2017 50 TW A 270 1/1/1962 AC TAXIWAY P 0 5,369.00 4/11/2017 50 TW A 280 1/1/1962 AC TAXIWAY P 0 4,273.00 4/11/2017 55 TW A 290 1/1/1962 AC TAXIWAY P 0 4,069.00 4/11/2017 55 TW A 295 1/1/1962 AC TAXIWAY P 0 4,069.00 4/11/2017 55 TW A 295 1/1/1962 AC TAXIWAY P 0 6,237.00 4/11/2017 55 TW A 295 1/1/1962 AC TAXIWAY P 0 6,237.00 4/11/2017 55 TW A 295 1/1/1962 AC TAXIWAY P 0 6,237.00 4/11/2017 55	81
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TW A 215 1/1/1962 AC TAXIWAY P 0 121,199.00 4/11/2017 55 TW A 220 1/1/1994 AAC TAXIWAY P 0 6,000.00 4/11/2017 23 TW A 260 1/1/1967 AC TAXIWAY P 0 5,369.00 4/11/2017 50 TW A 270 1/1/1967 AC TAXIWAY P 0 5,369.00 4/11/2017 50 TW A 280 1/1/1962 AC TAXIWAY P 0 4,273.00 4/11/2017 55 TW A 290 1/1/1962 AC TAXIWAY P 0 4,069.00 4/11/2017 55 TW A 295 1/1/1962 AC TAXIWAY P 0 6,237.00 4/11/2017 55 TW A1 230 1/1/1962 AC TAXIWAY P 0 6,237.00 4/11/2017 55	45
TW A 220 1/1/1994 AAC TAXIWAY P 0 6,000.00 4/11/2017 23 TW A 260 1/1/1967 AC TAXIWAY P 0 5,369.00 4/11/2017 50 TW A 270 1/1/1967 AC TAXIWAY P 0 5,369.00 4/11/2017 50 TW A 280 1/1/1962 AC TAXIWAY P 0 4,273.00 4/11/2017 55 TW A 290 1/1/1962 AC TAXIWAY P 0 4,069.00 4/11/2017 55 TW A 295 1/1/1970 AC TAXIWAY P 0 6,237.00 4/11/2017 55 TW A1 230 1/1/1962 AC TAXIWAY P 0 6,237.00 4/11/2017 55	73
TW A 260 1/1/1967 AC TAXIWAY P 0 5,369.00 4/11/2017 50 TW A 270 1/1/1967 AC TAXIWAY P 0 5,369.00 4/11/2017 50 TW A 280 1/1/1962 AC TAXIWAY P 0 4,273.00 4/11/2017 55 TW A 290 1/1/1962 AC TAXIWAY P 0 4,069.00 4/11/2017 55 TW A 295 1/1/1962 AC TAXIWAY P 0 6,237.00 4/11/2017 55 TW A1 230 1/1/1962 AC TAXIWAY P 0 6,237.00 4/11/2017 55	66
TW A 270 1/1/1967 AC TAXIWAY P 0 5,369.00 4/11/2017 50 TW A 280 1/1/1962 AC TAXIWAY P 0 4,273.00 4/11/2017 55 TW A 290 1/1/1962 AC TAXIWAY P 0 4,069.00 4/11/2017 55 TW A 295 1/1/1970 AC TAXIWAY P 0 4,189.00 4/11/2017 47 TW A1 230 1/1/1962 AC TAXIWAY P 0 6,237.00 4/11/2017 55	75
TW A 280 1/1/1962 AC TAXIWAY P 0 4,273.00 4/11/2017 55 TW A 290 1/1/1962 AC TAXIWAY P 0 4,069.00 4/11/2017 55 TW A 295 1/1/1970 AC TAXIWAY P 0 4,189.00 4/11/2017 47 TW A1 230 1/1/1962 AC TAXIWAY P 0 6,237.00 4/11/2017 55	47
TW A 290 1/1/1962 AC TAXIWAY P 0 4,069.00 4/11/2017 55 TW A 295 1/1/1970 AC TAXIWAY P 0 4,189.00 4/11/2017 47 TW A1 230 1/1/1962 AC TAXIWAY P 0 6,237.00 4/11/2017 55	48
TW A 295 1/1/1970 AC TAXIWAY P 0 4,189.00 4/11/2017 47 TW A1 230 1/1/1962 AC TAXIWAY P 0 6,237.00 4/11/2017 55	55
TW A1 230 1/1/1962 AC TAXIWAY P 0 6,237.00 4/11/2017 55	59
	51
TW A1 235 1/1/1994 AAC TAXIWAY P 0 2.971.00 4/11/2017 23	51
20 2,3	62
TW A2 240 1/1/1962 AC TAXIWAY P 0 11,520.00 4/11/2017 55	44
TW A3 250 1/1/1962 AC TAXIWAY P 0 6,135.00 4/11/2017 55	49
TW A3 255 1/1/1994 AAC TAXIWAY P 0 2,869.00 4/11/2017 23	76
TW AP 305 1/1/2001 AAC TAXIWAY P 0 10,104.00 4/11/2017 16	43
TW B 105 1/1/1967 AC TAXIWAY P 0 192,408.00 4/11/2017 50	61
TW B 180 1/1/1967 AC TAXIWAY P 0 13,513.00 4/11/2017 50	49
TW B1 110 1/1/1994 AAC TAXIWAY P 0 20,223.00 4/11/2017 23	70
TW B2 120 1/1/1967 AC TAXIWAY P 0 21,223.00 4/11/2017 50	49
TW B3 130 1/1/1967 AC TAXIWAY P 0 12,237.00 4/11/2017 50	43
TW B4 140 1/1/1967 AC TAXIWAY P 0 15,569.00 4/11/2017 50	49
TW B5 150 1/1/1967 AC TAXIWAY P 0 6,211.00 4/11/2017 50	56
TW B5 155 1/1/2009 AAC TAXIWAY P 0 10,114.00 4/11/2017 8	91
TW C 400 1/1/1957 AC TAXIWAY P 0 24,975.00 4/11/2017 60	49

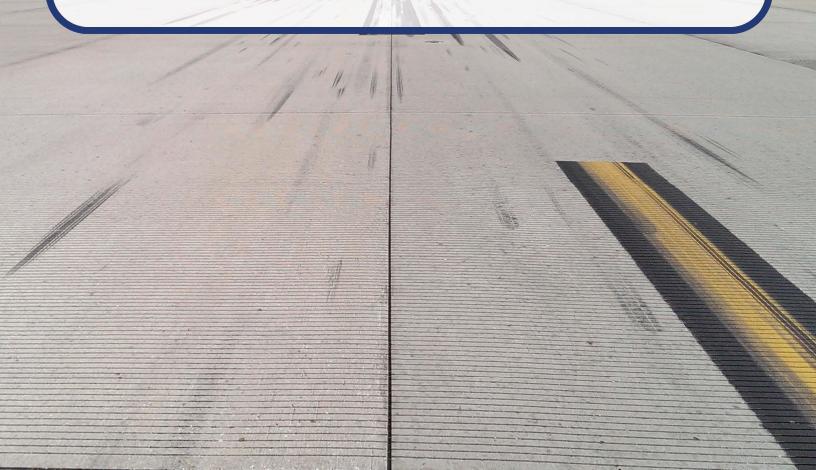
8/3/2017	Section Condition Report (Summary)	Page 2 of 2
	Pavement Database: FDOT	

Age Category	Average Age at Inspection	Total Area (SqFt)	Number of Sections	Arithmetic Average PCI	Standard Deviation PCI	Weighted Average PCI
00-02		18,200.00	2	100.00	0.00	100.00
06-10	8	17,364.00	2	86.00	5.00	86.82
11-15	12	11,958.00	1	72.00	0.00	72.00
16-20	17	120,006.00	2	60.50	17.50	75.05
21-25	23	453,588.00	7	73.00	7.60	76.18
41-50	50	743,747.00	13	51.23	5.15	56.44
ALL	38	1,628,319.00	35	62.29	15.83	65.15
Over 50	56	263,456.00	8	54.75	7.46	62.07



Appendix B

Airfield Pavement Localized Maintenance and Repair and Major Rehabilitation



2017

Miami Homestead General Aviation Airport (X51)





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
X51	AP N	4205	52	RAVELING	Low	84753.2	SqFt	99.7%	FDOT - SURFACE SEAL	84752.88	SqFt	\$ 0.55	\$ 46,620.00
X51	AP NE	4305	45	DEPRESSION	Low	171.04	SqFt	0.2%	FDOT - PATCHING - AC FULL DEPTH	228.19	SqFt	\$ 6.00	\$ 1,370.00
X51	AP NE	4305	52	RAVELING	Low	13784.48	SqFt	12.5%	FDOT - SURFACE SEAL	13784.26	SqFt	\$ 0.55	\$ 7,590.00
X51	AP NW	4105	45	DEPRESSION	Low	3077.4	SqFt	1.2%	FDOT - PATCHING - AC FULL DEPTH	3304.52	SqFt	\$ 6.00	\$ 19,830.00
X51	AP NW	4105	48	L&TCR	Medium	683.86	Ft	0.3%	FDOT - CRACK SEALING - AC	683.73	Ft	\$ 3.00	\$ 2,060.00
X51	AP NW	4105	52	RAVELING	Low	129045.08	SqFt	50.5%	FDOT - SURFACE SEAL	129045.3	SqFt	\$ 0.55	\$ 70,980.00
X51	AP NW	4105	52	RAVELING	Medium	29308.41	SqFt	11.5%	FDOT - PATCHING - AC PARTIAL DEPTH	29307.98	SqFt	\$ 3.00	\$ 87,930.00
X51	AP NW	4110	45	DEPRESSION	Low	401.82	SqFt	3.4%	FDOT - PATCHING - AC FULL DEPTH	486.53	SqFt	\$ 6.00	\$ 2,920.00
X51	AP NW	4110	52	RAVELING	Low	837.11	SqFt	7.0%	FDOT - SURFACE SEAL	837.43	SqFt	\$ 0.55	\$ 470.00
X51	RW 10-28	6205	52	RAVELING	Low	113546.45	SqFt	50.5%	FDOT - SURFACE SEAL	113546.3	SqFt	\$ 0.55	\$ 62,460.00
X51	RW 10-28	6205	52	RAVELING	Medium	3374.49	SqFt	1.5%	FDOT - PATCHING - AC PARTIAL DEPTH	3374.49	SqFt	\$ 3.00	\$ 10,130.00
X51	RW 18-36	6105	52	RAVELING	Low	324.75	SqFt	0.2%	FDOT - SURFACE SEAL	325.07	SqFt	\$ 0.55	\$ 180.00
X51	RW 18-36	6110	50	PATCHING	Medium	30.35	SqFt	0.0%	FDOT - PATCHING - AC FULL DEPTH	57.05	SqFt	\$ 6.00	\$ 340.00
X51	RW 18-36	6110	52	RAVELING	Low	148321.84	SqFt	80.7%	FDOT - SURFACE SEAL	148322.4	SqFt	\$ 0.55	\$ 81,580.00
X51	RW 18-36	6110	52	RAVELING	Medium	35397.77	SqFt	19.3%	FDOT - PATCHING - AC PARTIAL DEPTH	35398.2	SqFt	\$ 3.00	\$ 106,200.00
X51	RW 18-36	6112	52	RAVELING	Low	392.02	SqFt	5.4%	FDOT - SURFACE SEAL	391.81	SqFt	\$ 0.55	\$ 220.00
X51	TW A	160	52	RAVELING	Low	11551.51	SqFt	78.6%	FDOT - SURFACE SEAL	11551.83	SqFt	\$ 0.55	\$ 6,360.00
X51	TW A	160	52	RAVELING	Medium	1967.21	SqFt	13.4%	FDOT - PATCHING - AC PARTIAL DEPTH	1967.64	SqFt	\$ 3.00	\$ 5,910.00
X51	TW A	205	52	RAVELING	Low	5812.19	SqFt	42.3%	FDOT - SURFACE SEAL	5812.51	SqFt	\$ 0.55	\$ 3,200.00
X51	TW A	205	52	RAVELING	Medium	7925.79	SqFt	57.7%	FDOT - PATCHING - AC PARTIAL DEPTH	7925.47	SqFt	\$ 3.00	\$ 23,780.00
X51	TW A	210	52	RAVELING	Low	560.05	SqFt	10.0%	FDOT - SURFACE SEAL	559.72	SqFt	\$ 0.55	\$ 310.00
X51	TW A	215	52	RAVELING	Low	119873.36	SqFt	98.9%	FDOT - SURFACE SEAL	119873.4	SqFt	\$ 0.55	\$ 65,940.00
X51	TW A	215	52	RAVELING	Medium	1325.58	SqFt	1.1%	FDOT - PATCHING - AC PARTIAL DEPTH	1326.11	SqFt	\$ 3.00	\$ 3,980.00
X51	TW A	220	52	RAVELING	Low	1399.95	SqFt	23.3%	FDOT - SURFACE SEAL	1400.38	SqFt	\$ 0.55	\$ 780.00
X51	TW A	260	45	DEPRESSION	Low	126.05	SqFt	2.4%	FDOT - PATCHING - AC FULL DEPTH	175.45	SqFt	\$ 6.00	\$ 1,060.00
X51	TW A	260	52	RAVELING	Low	4026.99	SqFt	75.0%	FDOT - SURFACE SEAL	4026.78	SqFt	\$ 0.55	\$ 2,220.00
X51	TW A	260	52	RAVELING	Medium	1342.04	SqFt	25.0%	FDOT - PATCHING - AC PARTIAL DEPTH	1342.26	SqFt	\$ 3.00	\$ 4,030.00
X51	TW A	270	48	L&TCR	Medium	50	Ft	0.9%	FDOT - CRACK SEALING - AC	49.87	Ft	\$ 3.00	\$ 150.00
X51	TW A	270	52	RAVELING	Low	4220.96	SqFt	78.6%	FDOT - SURFACE SEAL	4220.53	SqFt	\$ 0.55	\$ 2,330.00
X51	TW A	270	52	RAVELING	Medium	1063.04	SqFt	19.8%	FDOT - PATCHING - AC PARTIAL DEPTH	1063.47	SqFt	\$ 3.00	\$ 3,190.00
X51	TW A	280	48	L&TCR	Medium	6.99	Ft	0.2%	FDOT - CRACK SEALING - AC	6.89	Ft	\$ 3.00	\$ 30.00
X51	TW A	280	52	RAVELING	Low	4008.05	SqFt	93.8%	FDOT - SURFACE SEAL	4008.48	SqFt	\$ 0.55	\$ 2,210.00
X51	TW A	280	52	RAVELING	Medium	265.01	SqFt	6.2%	FDOT - PATCHING - AC PARTIAL DEPTH	264.79	SqFt	\$ 3.00	\$ 800.00
X51	TW A	290	52	RAVELING	Low	3830.98	SqFt	94.2%	FDOT - SURFACE SEAL	3830.88	SqFt	\$ 0.55	\$ 2,110.00
X51	TW A	290	52	RAVELING	Medium	78.04	SqFt	1.9%	FDOT - PATCHING - AC PARTIAL DEPTH	77.5	SqFt	\$ 3.00	\$ 240.00
X51	TW A	295	45	DEPRESSION	Low	50.05	SqFt	1.2%	FDOT - PATCHING - AC FULL DEPTH	82.88	SqFt	\$ 6.00	\$ 500.00
X51	TW A	295	50	PATCHING	Medium	3.98	SqFt	0.1%	FDOT - PATCHING - AC FULL DEPTH	16.15	SqFt	\$ 6.00	\$ 100.00
X51	TW A	295	52	RAVELING	Low	3365.01	SqFt	80.3%	FDOT - SURFACE SEAL	3364.8	SqFt	\$ 0.55	\$ 1,860.00

Statewide Airfield Pavement Management Program Airport Pavement Evaluation Report

2017

Miami Homestead General Aviation Airport (X51)





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
X51	TW A	295	52	RAVELING	Medium	499.98	SqFt	11.9%	FDOT - PATCHING - AC PARTIAL DEPTH	500.52	SqFt	\$ 3.00	\$ 1,500.00
X51	TW A1	230	41	ALLIGATOR CR	Low	27.99	SqFt	0.5%	FDOT - PATCHING - AC FULL DEPTH	53.82	SqFt	\$ 6.00	\$ 320.00
X51	TW A1	230	52	RAVELING	Low	4846.34	SqFt	77.7%	FDOT - SURFACE SEAL	4845.91	SqFt	\$ 0.55	\$ 2,670.00
X51	TW A1	230	52	RAVELING	Medium	1211.05	SqFt	19.4%	FDOT - PATCHING - AC PARTIAL DEPTH	1210.94	SqFt	\$ 3.00	\$ 3,640.00
X51	TW A1	235	45	DEPRESSION	Low	62.97	SqFt	2.1%	FDOT - PATCHING - AC FULL DEPTH	99.03	SqFt	\$ 6.00	\$ 600.00
X51	TW A1	235	52	RAVELING	Low	193.97	SqFt	6.5%	FDOT - SURFACE SEAL	193.75	SqFt	\$ 0.55	\$ 110.00
X51	TW A2	240	45	DEPRESSION	Low	207.53	SqFt	1.8%	FDOT - PATCHING - AC FULL DEPTH	269.1	SqFt	\$ 6.00	\$ 1,620.00
X51	TW A2	240	48	L&TCR	Medium	36.19	Ft	0.3%	FDOT - CRACK SEALING - AC	36.09	Ft	\$ 3.00	\$ 110.00
X51	TW A2	240	52	RAVELING	Low	10578.66	SqFt	91.8%	FDOT - SURFACE SEAL	10578.77	SqFt	\$ 0.55	\$ 5,820.00
X51	TW A2	240	52	RAVELING	Medium	555.09	SqFt	4.8%	FDOT - PATCHING - AC PARTIAL DEPTH	555.42	SqFt	\$ 3.00	\$ 1,670.00
X51	TW A3	250	41	ALLIGATOR CR	Low	110.01	SqFt	1.8%	FDOT - PATCHING - AC FULL DEPTH	156.08	SqFt	\$ 6.00	\$ 940.00
X51	TW A3	250	52	RAVELING	Low	1791.01	SqFt	29.2%	FDOT - SURFACE SEAL	1791.11	SqFt	\$ 0.55	\$ 990.00
X51	TW A3	255	52	RAVELING	Low	630.01	SqFt	22.0%	FDOT - SURFACE SEAL	629.69	SqFt	\$ 0.55	\$ 350.00
X51	TW AP	305	52	RAVELING	Low	7570.9	SqFt	74.9%	FDOT - SURFACE SEAL	7571.33	SqFt	\$ 0.55	\$ 4,170.00
X51	TW AP	305	52	RAVELING	Medium	2525.97	SqFt	25.0%	FDOT - PATCHING - AC PARTIAL DEPTH	2526.29	SqFt	\$ 3.00	\$ 7,580.00
X51	TW B	105	52	RAVELING	Low	169319	SqFt	88.0%	FDOT - SURFACE SEAL	169319.5	SqFt	\$ 0.55	\$ 93,130.00
X51	TW B	105	52	RAVELING	Medium	23088.91	SqFt	12.0%	FDOT - PATCHING - AC PARTIAL DEPTH	23088.59	SqFt	\$ 3.00	\$ 69,270.00
X51	TW B	180	52	RAVELING	Low	10810.41	SqFt	80.0%	FDOT - SURFACE SEAL	10810.2	SqFt	\$ 0.55	\$ 5,950.00
X51	TW B	180	52	RAVELING	Medium	2702.6	SqFt	20.0%	FDOT - PATCHING - AC PARTIAL DEPTH	2702.82	SqFt	\$ 3.00	\$ 8,110.00
X51	TW B1	110	52	RAVELING	Low	384.38	SqFt	1.9%	FDOT - SURFACE SEAL	384.27	SqFt	\$ 0.55	\$ 220.00
X51	TW B2	120	52	RAVELING	Low	19099.81	SqFt	90.0%	FDOT - SURFACE SEAL	19099.48	SqFt	\$ 0.55	\$ 10,510.00
X51	TW B2	120	52	RAVELING	Medium	2123.18	SqFt	10.0%	FDOT - PATCHING - AC PARTIAL DEPTH	2122.64	SqFt	\$ 3.00	\$ 6,370.00
X51	TW B3	130	45	DEPRESSION	Low	334.87	SqFt	2.7%	FDOT - PATCHING - AC FULL DEPTH	412.26	SqFt	\$ 6.00	\$ 2,480.00
X51	TW B3	130	52	RAVELING	Low	9382.58	SqFt	76.7%	FDOT - SURFACE SEAL	9382.9	SqFt	\$ 0.55	\$ 5,170.00
X51	TW B3	130	52	RAVELING	Medium	2346.96	SqFt	19.2%	FDOT - PATCHING - AC PARTIAL DEPTH	2346.53	SqFt	\$ 3.00	\$ 7,050.00
X51	TW B4	140	52	RAVELING	Low	11886.37	SqFt	76.4%	FDOT - SURFACE SEAL	11886.59	SqFt	\$ 0.55	\$ 6,540.00
X51	TW B4	140	52	RAVELING	Medium	2971.59	SqFt	19.1%	FDOT - PATCHING - AC PARTIAL DEPTH	2971.92	SqFt	\$ 3.00	\$ 8,920.00
X51	TW B5	150	52	RAVELING	Low	4798.98	SqFt	77.3%	FDOT - SURFACE SEAL	4798.55	SqFt	\$ 0.55	\$ 2,640.00
X51	TW B5	150	52	RAVELING	Medium	1199.96	SqFt	19.3%	FDOT - PATCHING - AC PARTIAL DEPTH	1200.18	SqFt	\$ 3.00	\$ 3,600.00
X51	TW B5	155	52	RAVELING	Low	97.84	SqFt	1.0%	FDOT - SURFACE SEAL	97.95	SqFt	\$ 0.55	\$ 60.00
X51	TW C	400	48	L&TCR	Medium	624.38	Ft	2.5%	FDOT - CRACK SEALING - AC	624.34	Ft	\$ 3.00	\$ 1,880.00
X51	TW C	400	52	RAVELING	Low	21853.11	SqFt	87.5%	FDOT - SURFACE SEAL	21852.89	SqFt	\$ 0.55	\$ 12,020.00
X51	TW C	400	52	RAVELING	Medium	3121.86	SqFt	12.5%	FDOT - PATCHING - AC PARTIAL DEPTH	3121.53	SqFt	\$ 3.00	\$ 9,370.00





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	X51	AP N	4205	AC	85,048	63	AC Restoration	\$ 596,000.00
2018	X51	AP NW	4105	AC	255,472	56	AC Restoration	\$ 1,789,000.00
2018	X51	RW 18-36	6110	AC	183,750	52	AC Restoration	\$ 1,287,000.00
2018	X51	TW A	160	AC	14,699	55	AC Restoration	\$ 103,000.00
2018	X51	TW A	205	AC	13,738	43	AC Restoration	\$ 114,000.00
2018	X51	TW A	260	AC	5,369	45	AC Restoration	\$ 43,000.00
2018	X51	TW A	270	AC	5,369	46	AC Restoration	\$ 41,000.00
2018	X51	TW A	280	AC	4,273	53	AC Restoration	\$ 30,000.00
2018	X51	TW A	290	AC	4,069	58	AC Restoration	\$ 29,000.00
2018	X51	TW A	295	AC	4,189	49	AC Restoration	\$ 30,000.00
2018	X51	TW A1	230	AC	6,237	49	AC Restoration	\$ 44,000.00
2018	X51	TW A1	235	AAC	2,971	60	AC Restoration	\$ 21,000.00
2018	X51	TW A2	240	AC	11,520	42	AC Restoration	\$ 98,000.00
2018	X51	TW A3	250	AC	6,135	47	AC Restoration	\$ 46,000.00
2018	X51	TW AP	305	AAC	10,104	42	AC Restoration	\$ 87,000.00
2018	X51	TW B	105	AC	192,408	60	AC Restoration	\$ 1,347,000.00
2018	X51	TW B	180	AC	13,513	47	AC Restoration	\$ 101,000.00
2018	X51	TW B2	120	AC	21,223	47	AC Restoration	\$ 158,000.00
2018	X51	TW B3	130	AC	12,237	41	AC Restoration	\$ 106,000.00
2018	X51	TW B4	140	AC	15,569	47	AC Restoration	\$ 116,000.00
2018	X51	TW B5	150	AC	6,211	55	AC Restoration	\$ 44,000.00
2018	X51	TW C	400	AC	24,975	47	AC Restoration	\$ 186,000.00
2019	X51	RW 10-28	6205	AAC	224,925	64	AC Restoration	\$ 1,575,000.00
2019	X51	TW A	215	AC	121,199	64	AC Restoration	\$ 849,000.00
2022	X51	AP NW	4110	AC	11,958	64	AC Restoration	\$ 84,000.00
2023	X51	TW B1	110	AAC	20,223	63	AC Restoration	\$ 142,000.00

Statewide Airfield Pavement Management Program Airport Pavement Evaluation Report

2017

Miami Homestead General Aviation Airport (X51)





Program Year	Network ID	Branch ID	Section ID	Surface	Area (SF)	PCI Before	Rehabilitation Type	Planning Cost
2025	X51	RW 18-36	6112	AAC	7,250	64	AC Restoration	\$ 51,000.00
2026	X51	AP NE	4305	AC	109,902	64	AC Restoration	\$ 770,000.00
2026	X51	TW A	210	AAC	5,600	64	AC Restoration	\$ 40,000.00

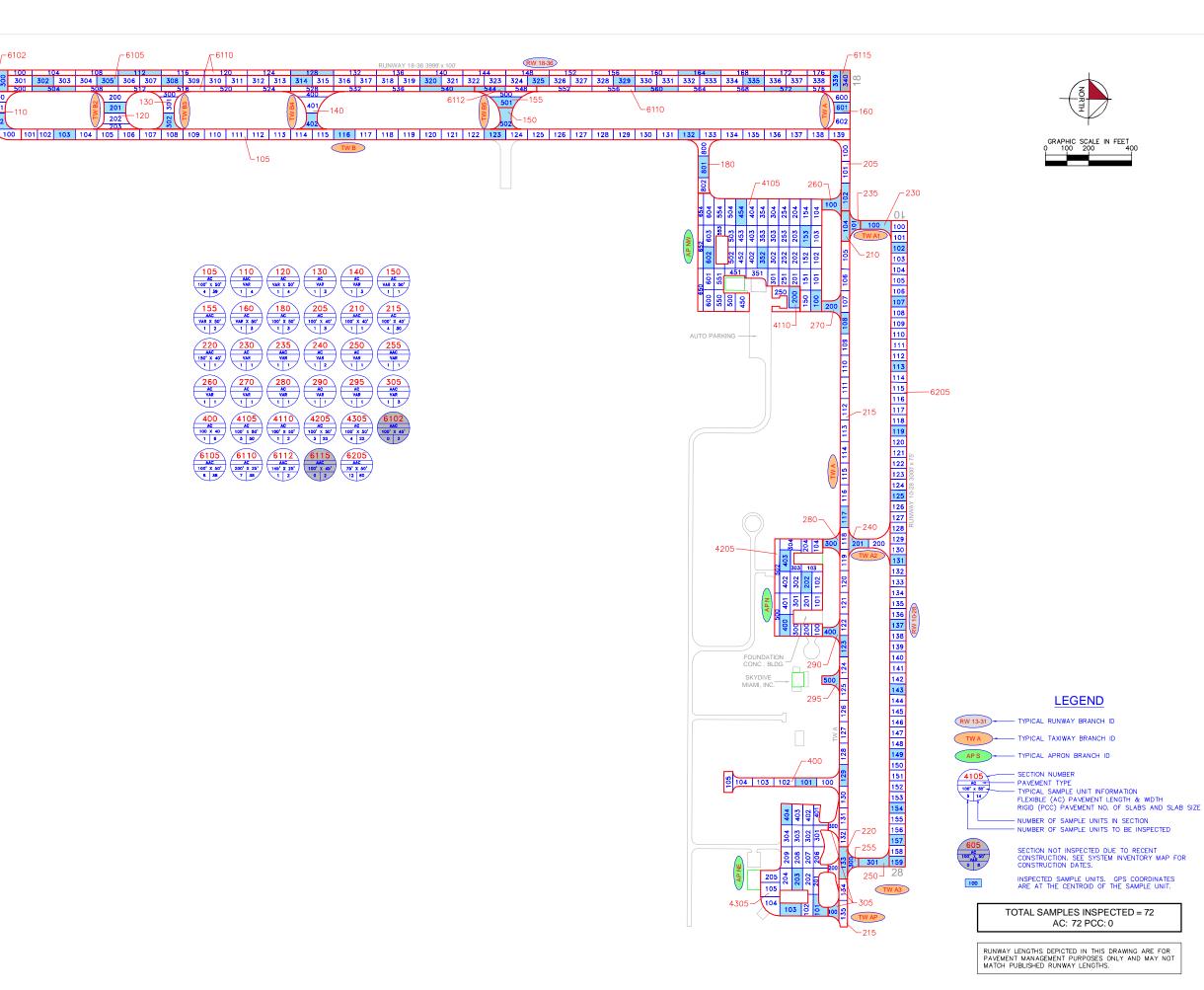


Appendix C

Technical Exhibits







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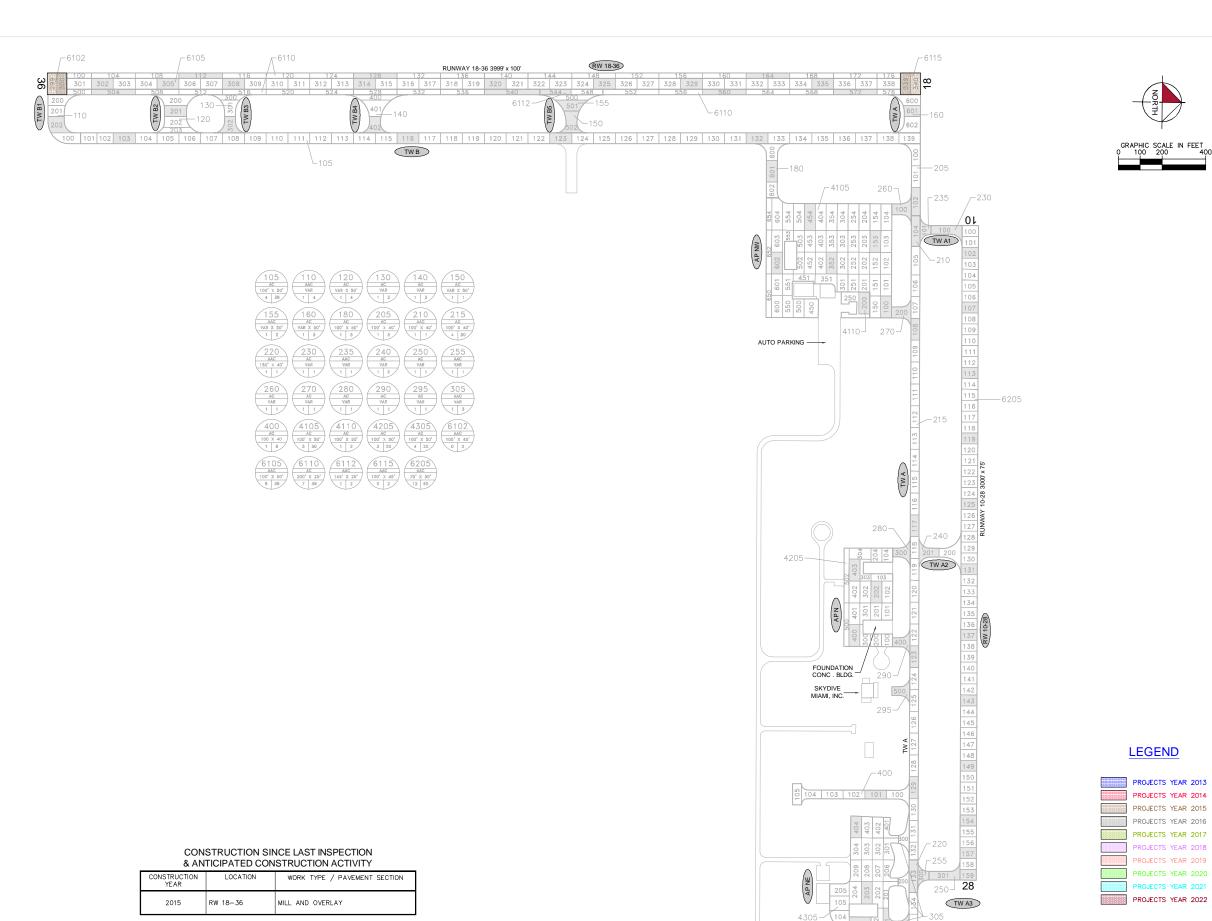
FDOT



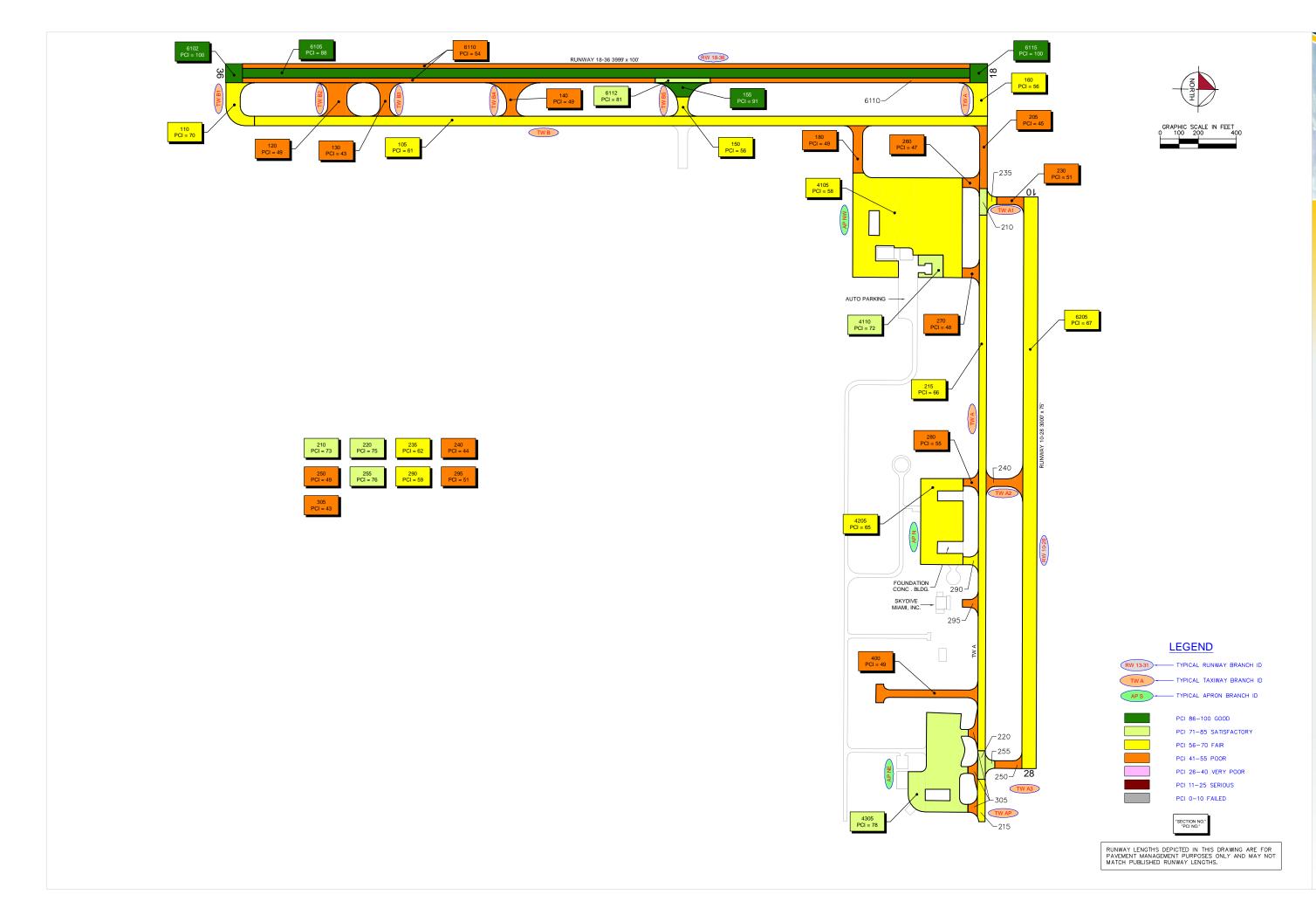


RUNWAY LENGTHS DEPICTED IN THIS DRAWING ARE FOR PAVEMENT MANAGEMENT PURPOSES ONLY AND MAY NOT MATCH PUBLISHED RUNWAY LENGTHS.

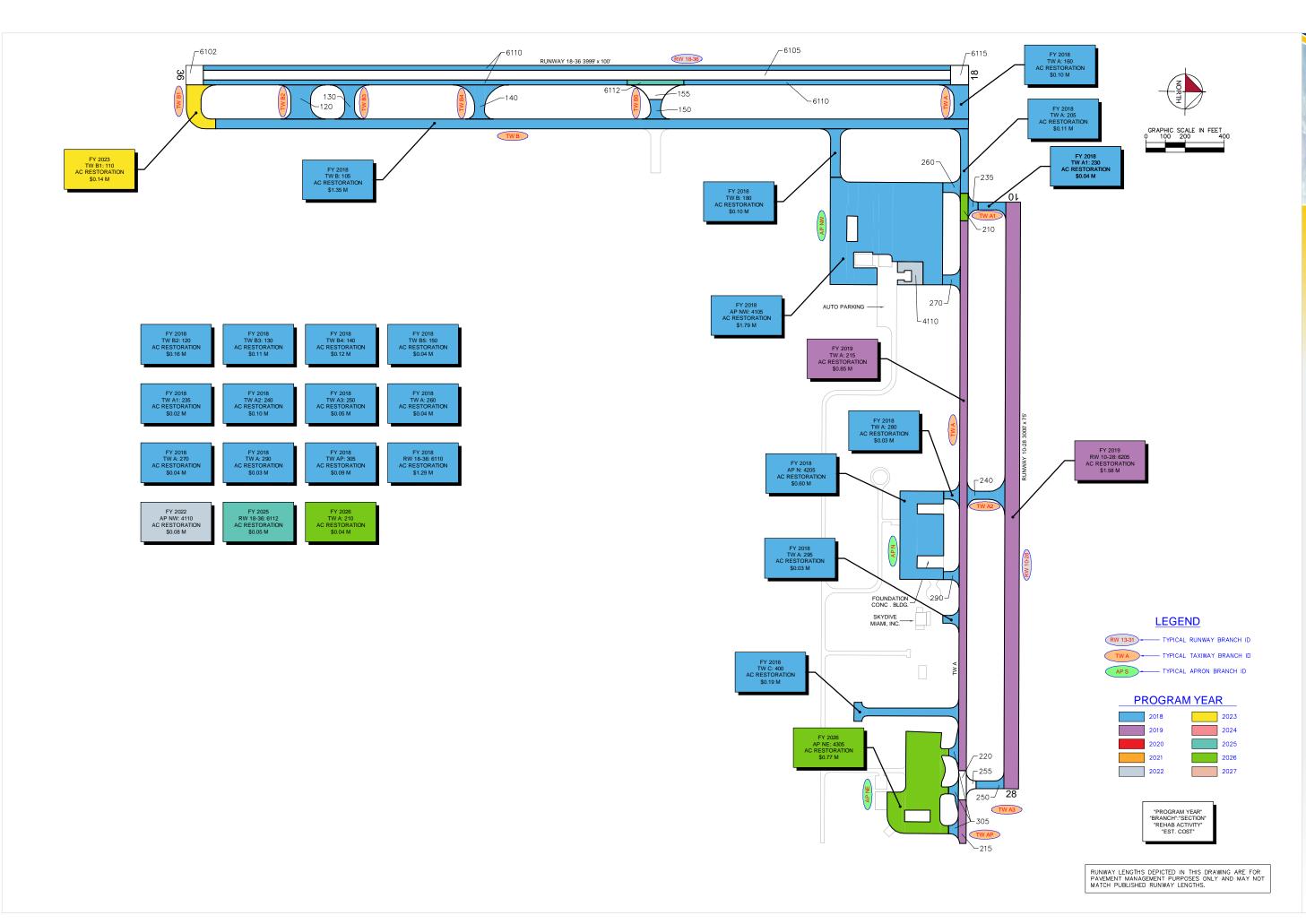
TW AP







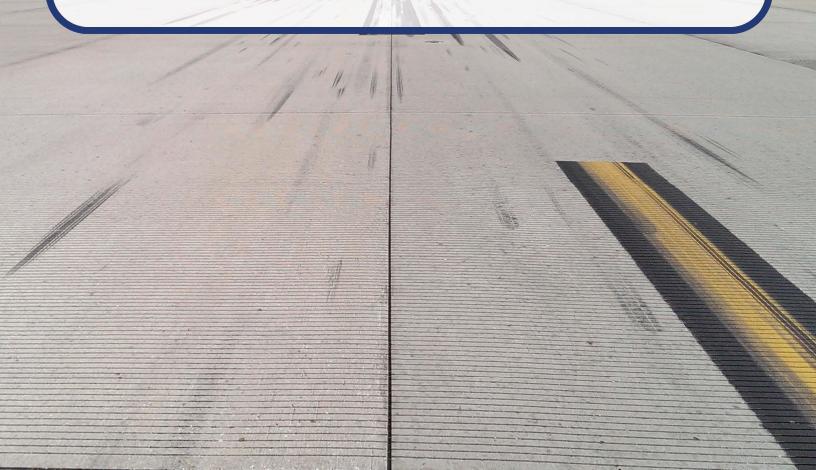






Appendix D

Inspection Photograph Documentation



Airport Pavement

Evaluation Report







Runway 18-36, Section 6105, Sample Unit 305 – Low Severity (48) Longitudinal and Transverse Cracking, Low Severity (52) Raveling, Low Severity (57) Weathering



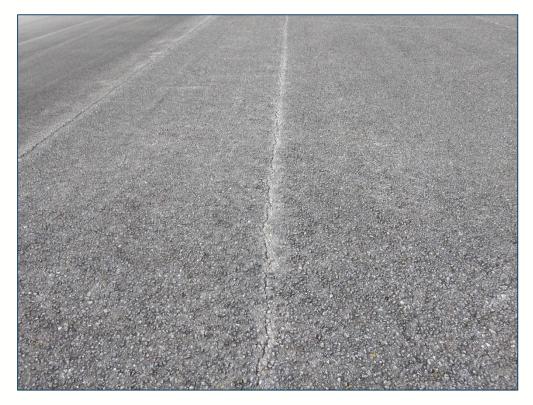
Runway 18-36, Section 6105, Sample Unit 329 - Low Severity (48) Longitudinal and Transverse Cracking, Low Severity (57) Weathering







Runway 18-36, Section 6110, Sample Unit 128 – Low Severity (48) Longitudinal and Transverse Cracking, Low Severity (52) Raveling



Runway 18-36, Section 6110, Sample Unit 572 – Low Severity (48) Longitudinal and Transverse Cracking, Low Severity (52) Raveling

Airport Pavement

Evaluation Report







Runway 10-28, Section 6205, Sample Unit 143 - Low Severity (48) Longitudinal and Transverse Cracking, Low Severity (52) Raveling, Low Severity (57) Weathering



Runway 10-28, Section 6205, Sample Unit 119 - Low Severity (48) Longitudinal and Transverse Cracking, Low Severity (52) Raveling, Low Severity (57) Weathering

Airport Pavement







Taxiway A, Section 215, Sample Unit 117 - Low Severity (43) Block Cracking, Low Severity (48) Longitudinal and Transverse Cracking, Low Severity (52) Raveling



Taxiway A, Section 215, Sample Unit 123 - Low Severity (48) Longitudinal and Transverse Cracking, Low Severity (52) Raveling







Taxiway B, Section 105, Sample Unit 103 - Low Severity (48) Longitudinal and Transverse Cracking, Low Severity (52) Raveling



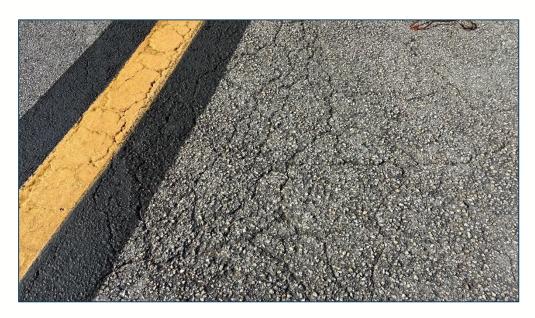
Taxiway B, Section 105, Sample Unit 132 - Low Severity (48) Longitudinal and Transverse Cracking, Low Severity (52) Raveling







Taxiway B3, Section 130, Sample Unit 302 - Low Severity (48) Longitudinal and Transverse Cracking, Low Severity (50) Patching, Low Severity (52) Raveling, Medium Severity (52) Raveling



Taxiway A1, Section 230, Sample Unit 100 - Low Severity (41) Alligator Cracking, Medium Severity (52) Raveling







Taxiway A3, Section 250, Sample Unit 301 - Low Severity (41) Alligator Cracking, Low Severity (52) Raveling, Low Severity (57) Weathering



NW Apron, Section 4105, Sample Unit 100 - Low and Medium Severity (48) Longitudinal and Transverse Cracking, Low Severity (52) Raveling







NW Apron, Section 4105, Sample Unit 454 - Low Severity (48) Longitudinal and Transverse Cracking, Low Severity (50) Patching, Low Severity (52) Raveling

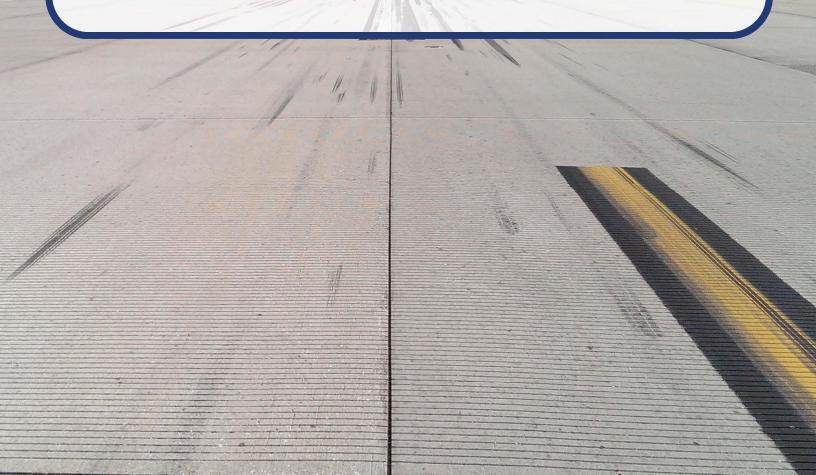


North Apron, Section 4205, Sample Unit 403 - Low Severity (48) Longitudinal and Transverse Cracking, Low Severity (50) Patching, Low Severity (52) Raveling



Appendix E

Inspection Distress Details



Re-Inspection Report

FDOT

Page 1 of 35 **Generated Date** 8/3/2017

Generated Date	8/3/2017						
Network: X51		Name:	MIAMI HOMES AIRPORT	TEAD GENERAL	AVIATION		
Branch: AP N	Name:	NORTH APRON	Use:	APRON	Area:	85,048 SqFt	
Section: 4205	of 1	From: -		То: -		Last Const.:	1/1/1962
Surface: AC	Family: C9N59-GA-A	P-AC Zone:		Category:		Rank: P	
Area: 85,048	SqFt Length:	425 Ft	Width:	200 Ft			
Slabs:	Slab Length:	Ft Slab	Width:	Ft	Joint Len	gth: Ft	
Shoulder:	Street Type:	Gra	de: 0		Lanes:	0	
Section Comments:							
Work Date: 1/1/1962	Work Type: BUII	LT	C	ode: IMPORTED	Is Ma	jor M&R: True	
Work Date: 1/1/1994	Work Type: REP.	AIR	C	ode: IMPORTED	Is Ma	jor M&R: False	
Work Date: 1/1/2001	Work Type: Surfa	ace Seal - Rejuvenating	C	ode: SS-RE	Is Ma	jor M&R: False	
Conditions: PCI: 65	Totals	amples: 20	Surveye	e d: 3			
Conditions: PCI: 65 Inspection Comments:	Type: R	Area:	5000.00 SqFt	PCI: 6	59		
Conditions: PCI: 65 Inspection Comments: Sample Number: 202		-			59		
Last Insp. Date: 4/11/2017 Conditions: PCI: 65 Inspection Comments: Sample Number: 202 Sample Comments: 48 L & T CR 52 RAVELING	Type: R	Area:			59		
Conditions: PCI: 65 Inspection Comments: Sample Number: 202 Sample Comments: 48 L & T CR 52 RAVELING	Type: R	Area:					
Conditions: PCI: 65 Inspection Comments: Sample Number: 202 Sample Comments: 48 L & T CR 52 RAVELING Sample Number: 400	Type: R L L	Area: 164.00 Ft 5000.00 SqFt	5000.00 SqFt	PCI: 6			
Conditions: PCI: 65 Inspection Comments: Sample Number: 202 Sample Comments: 48 L & T CR 52 RAVELING Sample Number: 400 Sample Comments:	Type: R L L	Area: 164.00 Ft 5000.00 SqFt Area:	5000.00 SqFt	PCI: 6			
Conditions: PCI: 65 Inspection Comments: Sample Number: 202 Sample Comments: 48 L & T CR 52 RAVELING Sample Number: 400 Sample Comments: 43 BLOCK CR	Type: R L L Type: R	Area: 164.00 Ft 5000.00 SqFt	5000.00 SqFt	PCI: 6			
Conditions: PCI: 65 Inspection Comments: Sample Number: 202 Sample Comments: 48 L & T CR 52 RAVELING Sample Number: 400 Sample Comments: 43 BLOCK CR 44 L & T CR	Type: R L L Type: R	Area: 164.00 Ft 5000.00 SqFt Area: 381.00 SqFt	5000.00 SqFt	PCI: 6			
Conditions: PCI: 65 Inspection Comments: Sample Number: 202 Sample Comments: 48 L & T CR 52 RAVELING Sample Number: 400 Sample Comments: 43 BLOCK CR 48 L & T CR 52 RAVELING	Type: R L L Type: R	Area: 164.00 Ft 5000.00 SqFt Area: 381.00 SqFt 399.00 Ft	5000.00 SqFt	PCI: 6	52		
Conditions: PCI: 65 Inspection Comments: Sample Number: 202 Sample Comments: 48 L & T CR 52 RAVELING Sample Number: 400 Sample Comments: 43 BLOCK CR 44 L & T CR 52 RAVELING Sample Number: 403	Type: R L L Type: R L L L L	Area: 164.00 Ft 5000.00 SqFt Area: 381.00 SqFt 399.00 Ft 5000.00 SqFt	5000.00 SqFt 5000.00 SqFt	PCI: 6	52		
Conditions: PCI: 65 Inspection Comments: Sample Number: 202 Sample Comments: 48 L & T CR 52 RAVELING Sample Number: 400 Sample Comments: 43 BLOCK CR 44 L & T CR	Type: R L L Type: R L L L L	Area: 164.00 Ft 5000.00 SqFt Area: 381.00 SqFt 399.00 Ft 5000.00 SqFt	5000.00 SqFt 5000.00 SqFt	PCI: 6	52		
Conditions: PCI: 65 Inspection Comments: Sample Number: 202 Sample Comments: 48 L & T CR 52 RAVELING Sample Number: 400 Sample Comments: 43 BLOCK CR 48 L & T CR 52 RAVELING Sample Number: 403 Sample Number: 403 Sample Comments:	Type: R L L Type: R L L L Type: R	Area: 164.00 Ft 5000.00 SqFt Area: 381.00 SqFt 399.00 Ft 5000.00 SqFt Area:	5000.00 SqFt 5000.00 SqFt	PCI: 6	52		

Netw	vork: X51			N		AMI HOMES RPORT	STEAD GENERA	L AVIATIO	N		
Bran	ch: AP NE		Nam	e: NE APRON	1	Use:	APRON	Area:	1	09,902 SqFt	
Section	on: 4305	of 1		From: -			То: -			Last Const.:	1/1/1999
Surfa	ace: AC	Family: C	9N59-G	A-AP-AC Zo	one:		Category:			Rank: P	
Area	: 109,90	02 SqFt	Len	gth: 600) Ft	Width:	180 F	t			
Slabs	s:	Slab Length	:	Ft	Slab Width:		Ft	J	oint Length:	F	t
Shou	lder:	Street Type:	:		Grade: 0			L	anes: 0		
Section	on Comments:										
Worl	k Date: 1/1/1999	Work	Type:	New Construction - In	nitial	C	Code: NU-IN		Is Major I	M&R: True	
Last	Insp. Date: 4/11/201	7	T	otalSamples: 22		Surveye	ed: 4				
Cond	litions: PCI: 78										
Inspe	ection Comments:										
Samp	ple Number: 101	Type:	R	Area:	4453	3.00 SqFt	PCI:	78			
Samp	ple Comments:										
48	L & T CR		L	59.00 Ft							
52	RAVELING		L	668.00 SqF							
57	WEATHERING		L	3785.00 SqF							
Samp	ple Number: 103	Type:	R	Area:	6000	0.00 SqFt	PCI:	79			
Samp	ple Comments:										
48	L & T CR		L	41.00 Ft							
52	RAVELING		L	900.00 SqF							
57	WEATHERING		L	5100.00 SqF							
Samp	ple Number: 203	Type:	R	Area:	5150	0.00 SqFt	PCI:	77			
Samp	ple Comments:										
45	DEPRESSION		L	32.00 SqF	t						
48	L & T CR		L	36.00 Ft							
52	RAVELING		L	515.00 SqF							
57	WEATHERING		L	4635.00 SqF							
Samp	ple Number: 404	Type:	R	Area:	4959	9.00 SqFt	PCI:	80			
Samp	ple Comments:										
48	L & T CR		L	101.00 Ft							
52	RAVELING		L	496.00 SqF	t						
57	WEATHERING		L	4463.00 SqF	t						

Netwo	rk:	X51							Nai	ne:		AMI HOM RPORT	ESTEA	D GENER	AL AV	'IATIC	ON			
Branc	h:	AP I	NW			Na	me:	NW A	PRON			Use	e: Al	PRON		Area:		267,430) SqFt	
Sectio	n:	4105			of 2	;	Fro	m:	-					To: -				Las	t Const.:	1/1/1967
Surfac	ce:	AC		Famil	y: C	9N59	-GA-AP-A	C	Zor	ne:				Category	:			Rar	nk: P	
Area:			255,47	72 SqFt		L	ength:		600	Ft		Width:		470	Ft					
Slabs:				Slab	Length	:		Ft		Slab Wi	dth:			Ft		J	Joint Length	ı :	F	't
Shoul	der:				t Type:					Grade:	0						Lanes: 0			
		mments	:		- J F						Ĭ									
Work	Date	: 1/1/1	967		Work	Тур	e: OVERL	AY					Code:	IMPOR'	ΓED		Is Major	· M&R:	True	
Work	Date	: 1/1/1	967		Work	Тур	e: BUILT						Code:	IMPOR'	ΓED		Is Major	· M&R:	True	
Work	Date	: 1/1/20	001		Work	Тур	e: Surface	Seal - R	Rejuven	ating			Code:	SS-RE			Is Major	· M&R:	False	
Last I	nsp. l	Date:	4/11/201	7			TotalSam	ples:	50			Surve	eyed:	5						
Condi	tions	: PC	I: 58																	
Inspec	ction	Comme	ents:																	
Sampl	le Nu	mber:	100		Type:		R		Area:		5000	0.00 SqFt		PCI	: 34					
-		mments			rype.			-	11		200.	oloo bqr t		101	• 5.					
48	T &	TCR				L		708.00	Et											
48		TCR				M		70.00												
52		VELINO	ì			L	2	2000.00												
52		VELINO				M		8000.00												
45		PRESSI				L		315.00												
Sampl	le Nu	mber:	153		Type:		R		Area:		5000	0.00 SqFt		PCI	: 65					
Sampl	le Co	mments	s :																	
48	L &	TCR				L		632.00	Ft											
52		VELINO	3			L		00.00												
Sampl	le Nu	mber:	352		Type:		R		Area:		5000	0.00 SqFt		PCI	: 77					
		mments			• •							•								
10	т о.	TCR				т		217.00	Et.											
48 52		ET CR VELINO	,			L		750.00												
52 57		ATHER				L L	/	1250.00												
		mber:			Tunas		R				6150	0.00 SqFt		DC1	: 53					
_		mments			Type:		K	1	Area:		0150	0.00 Sqrt		rci	: 33					
43		OCK CR				L	1	450.00	SaFt											
48		T CR				L		575.00	_											
50		CHINC	}			L		633.00												
52		VELINO				L		1965.00												
57		ATHER				L		552.00												
_		mber:			Type:		R		Area:		5000	0.00 SqFt		PCI	: 61					
Sampl	le Co	mments	::																	
48	L &	TCR				L		565.00												
50	PAT	ICHINO	ì			L		72.00	SqFt											
52	RA	VELINO	j			L		494.00												
57	WIT	ATHER	INIC			L	Δ	434.00	SaEt											

MIAMI HOMESTEAD GENERAL AVIATION X51 Network: Name: AIRPORT **Branch:** AP NW Name: NW APRON Use: APRON Area: 267,430 SqFt 4110 To: -**Section:** of 2 From: **Last Const.:** 1/1/2005 AC C9N59-GA-AP-AC Rank: P Surface: Family: Zone: Category: 11,958 SqFt 130 Ft Width: 118 Ft Area: Length: Ft Joint Length: Slabs: Slab Length: Slab Width: Ft Ft Shoulder: **Street Type:** Grade: 0 Lanes: 0 **Section Comments:** Work Type: New Construction - Initial Code: NU-IN Work Date: 1/1/2005 Is Major M&R: True TotalSamples: 2 **Last Insp. Date:** 4/11/2017 Surveyed: 1 **PCI:** 72 **Conditions: Inspection Comments:** Sample Number: 200 Type: R Area: 5000.00 SqFt **PCI:** 72 **Sample Comments:**

45

48 52

57

DEPRESSION

L & T CR

RAVELING

WEATHERING

L

L

L

L

168.00 SqFt 8.00 Ft

350.00 SqFt

4650.00 SqFt

Network:	X51				Name:	MIAMI HOM AIRPORT	IESTE <i>i</i>	AD GENERAL A	VIATION	
Branch:	RW 10-28		Nan	ne: RUNV	VAY 10-28	Us	e: R	UNWAY	Area:	224,925 SqFt
Section:	6205	of .	1	From:	-			To: -		Last Const.: 1/1/199
Surface:	AAC	•	9N59-0 PC	GA-RW-AAC-	Zone:			Category:		Rank: P
Area:	224,925	5 SqFt	Lei	ngth:	2,999 Ft	Width:		75 Ft		
Slabs:		Slab Length	ı:	Ft	Slal	Width:		Ft	Joi	int Length: Ft
Shoulder:		Street Type	:		Gra	ide: 0			La	nes: 0
Section Co	mments:									
Work Date	e: 1/1/1962	Work	Type:	BUILT			Code	: IMPORTED		Is Major M&R: True
Work Date	e: 1/1/1994	Work	Туре:	REPAIR			Code	: IMPORTED		Is Major M&R: False
Work Date	e: 1/1/1994	Work	Type:	Overlay - AC TI	nin		Code	: OL-AT		Is Major M&R: True
Last Insp.	Date: 4/11/2017		Т	TotalSamples:	60	Surv	eyed:	12		
Conditions	s: PCI : 67									
Inspection	Comments:									
Sample Nu	imber: 102	Type:	R	R A	rea:	3750.00 SqFt		PCI: 69		
Sample Co	omments:									
48 L&	z T CR		L	204.00	Ft					
52 RA	VELING		L	2250.00						
	EATHERING		L	1500.00						
_	imber: 107	Type:	R	R A	rea:	3750.00 SqFt		PCI: 58		
Sample Co	omments:									
48 L &	T CR		L	370.00	Ft					
	VELING		L	1600.00						
	VELING ELLING		M L	550.00 11.00						
		T				2750 00 5 - 54		DCI. (1		
Sample Nu Sample Co	imber: 113	Type:	R	K A	rea:	3750.00 SqFt		PCI: 61		
-										
	T CR		L	410.00						
	VELING ELLING		L L	2250.00 163.00						
	EATHERING		L	1500.00						
Sample Nu	ımber: 119	Type:	R	R A	rea:	3750.00 SqFt		PCI: 68		
Sample Co	omments:									
48 L&	t T CR		L	267.00	Ft					
	VELING		L	2813.00						
57 WE	EATHERING		L	937.00						
Sample Nu	ımber: 125	Type:	R	R A	rea:	3750.00 SqFt		PCI: 67		
Sample Co	omments:									
48 L&	z T CR		L	185.00	Ft					
	VELING		L	2250.00						
	ELLING		L	16.00						
	EATHERING	T	L	1500.00		2750.00.0.5		DOT: CC		
Sample Nu Sample Co	imber: 131	Type:	R	K F	rea:	3750.00 SqFt		PCI: 66		
_	z T CR		L	217.00	Ft					
	TCHING		L	53.00						
52 RA	VELING		L	1822.00	SqFt					
	VELING		M	54.00						
_	imber: 137	Type:	R	R A	rea:	3750.00 SqFt		PCI: 68		
Sample Co	omments:									
48 L &	z T CR		L	211.00						E-5
52 RA	VELING		L	2208.00	SqFt					

52	RAVELING		M	70.00 SqFt			
Sam	ple Number: 143	Type:	R	Area:	3750.00 SqFt	PCI:	69
Sam	ple Comments:						
48	L & T CR		L	222.00 Ft			
52	RAVELING		L	2250.00 SqFt			
57	WEATHERING		L	1500.00 SqFt			
	ple Number: 149	Type:	R	Area:	3750.00 SqFt	PCI:	68
Sam	ple Comments:						
48	L & T CR		L	243.00 Ft			
52	RAVELING		L	2625.00 SqFt			
57	WEATHERING		L	1125.00 SqFt			
Sam	ple Number: 154	Туре:	R	Area:	3750.00 SqFt	PCI:	73
Sam	ple Comments:						
48	L & T CR		L	224.00 Ft			
52	RAVELING		L	750.00 SqFt			
57	WEATHERING		L	3000.00 SqFt			
Sam	ple Number: 157	Type:	R	Area:	3750.00 SqFt	PCI:	73
Sam	ple Comments:						
48	L & T CR		L	221.00 Ft			
52	RAVELING		L	750.00 SqFt			
57	WEATHERING		L	3000.00 SqFt			
Sam	ple Number: 159	Type:	R	Area:	3675.00 SqFt	PCI:	67
Sam	ple Comments:						
48	L & T CR		L	314.00 Ft			
52	RAVELING		L	1111.00 SqFt			
56	SWELLING		L	6.00 SqFt			
57	WEATHERING		L	2564.00 SqFt			

Network	: X51					Name		MI HOM PORT	ESTEA	D GENERAL A	VIATION	N		
Branch:	RW 18-36		1	Name:	RUN	WAY 18-3	6	Use	e: RU	JNWAY	Area:	400,20	0 SqFt	
Section:	6105	of	5		From:	-				To: -		La	st Const.:	1/1/1993
Surface:	AAC	Family:	C9N APC		RW-AAC-	Zone:				Category:		Ra	nk: P	
Area:	191,00	00 SqFt		Length	:	3,820 Ft		Width:		50 Ft				
Slabs:		Slab Leng	gth:		Ft	S	lab Width:			Ft	Jo	int Length:	Ft	
Shoulder	r :	Street Ty	pe:			(Grade: 0				La	anes: 0		
Section (Comments:													
Work Da	ate: 1/1/1967	Wo	ork Ty	ype: OV	ERLAY				Code:	IMPORTED		Is Major M&R	: True	
Work Da	ate: 1/1/1967	Wo	ork Ty	ype: BU	ILT				Code:	IMPORTED		Is Major M&R	: True	
Work Da	ate: 1/1/1993				ERLAY					IMPORTED		Is Major M&R	: True	
Work Da	ate: 1/1/2001	Wo	ork Ty	ype: Sur	face Seal - F	Rejuvenatir	ng		Code:	SS-RE		Is Major M&R	: False	
	p. Date: 4/11/2017	7		Total	Samples:	38		Surve	eyed:	3				
Conditio														
Inspectio	on Comments:													
Sample I	Number: 302	Тур	e:	R	1	Area:	5000	0.00 SqFt		PCI: 89				
Sample (Comments:													
48 L	& T CR		L		13.00									
	VEATHERING		L		4990.00									
	AVELING		L			SqFt								
_	Number: 305	Тур	e:	R	1	Area:	5000	0.00 SqFt		PCI: 90				
Sample (Comments:													
	& T CR		L		11.00									
	VEATHERING AVELING		L L		4994.00	SqFt SqFt								
	Number: 308	Тур		R		Area:	5000	0.00 SqFt		PCI: 88				
-	Comments:	тур	٠.	K	1	iiva.	5000	.oo bqrt		1 (1, 00				
-			_		٠									
	& T CR		L		51.00									
	VEATHERING AVELING		L L		4990.00 10.00	SqFt SqFt								
	Number: 314	Тур		R		Area:	5000	0.00 SqFt		PCI: 88				
_	Comments:	- J P					2000			1 02. 30				
48 L	& T CR		L		33.00	Ft								
	AVELING		L			SqFt								
	VEATHERING		L		4975.00									
Sample I	Number: 320	Тур	e:	R		Area:	5000	.00 SqFt		PCI: 88				
Sample (Comments:													
	& T CR		L		74.00	Ft								
57 W	VEATHERING		L		4995.00	SqFt								
	AVELING		L			SqFt								
_	Number: 325	Тур	e:	R	1	Area:	5000	0.00 SqFt		PCI: 89				
Sample (Comments:													
	& T CR		L		22.00									
	VEATHERING		L		4997.00									
	AVELING	nn	L			SqFt	5000	100 S=E2		DCI. 00				
_	Number: 329 Comments:	Тур	e:	R	1	Area:	5000	0.00 SqFt		PCI: 88				
_			Y		42.00	Et.								
	& T CR VEATHERING		L L		43.00 4998.00									
	AVELING		L			SqFt							E-7	
						•								

Samp	ole Number: 335	Type:	R	A	rea:	5000.00 SqFt	PCI:	86
Samp	ole Comments:							
48	L & T CR	L		105.00	Ft			
52	RAVELING	L		7.00	SqFt			
57	WEATHERING	L		4993.00	SqFt			

Netwo	ork: X51				Na		IAMI HOMES RPORT	TEAD GENERAL A	AVIATION	1	
Branc	ch: RW 18-36		Na	me: RUN	WAY 1	8-36	Use:	RUNWAY	Area:	400,200	0 SqFt
Sectio	on: 6110	of :	5	From:	-			То: -		Las	st Const.: 1/1/196
Surfa	ce: AC	Family: C	9N59	-GA-RW-AC	Zo	ne:		Category:		Rai	nk: P
Area:	183,7	50 SqFt	L	ength:	7,350	Ft	Width:	25 Ft			
Slabs	:	Slab Length	ı:	Ft		Slab Width	:	Ft	Jo	int Length:	Ft
Shoul		Street Type					0			nes: 0	
	on Comments:	Street Type	•			Grauc.	o .		La	incs.	
				D			~	T. D. COOPEED			
Work	Date: 1/1/1967	Work	Туре	e: BUILT				ode: IMPORTED		Is Major M&R:	: True
Work	Date: 1/1/2001	Work	к Туре	e: Surface Seal - l	Rejuven	ating	C	ode: SS-RE		Is Major M&R:	: False
Last l	Insp. Date: 4/11/201	7		TotalSamples:	38		Surveye	ed: 7			
Cond	itions: PCI: 54										
Inspe	ction Comments:										
		T		R	A roc:	50	00 00 SaEt	DCI. 5	1		
_	le Number: 112	Type:		K	Area:	30	00.00 SqFt	PCI: 54	+		
Samp	le Comments:										
48	L & T CR		L	461.00) Ft						
52	RAVELING		L	4000.00	_						
52	RAVELING		M	1000.00	SqFt						
Samp	le Number: 128	Type:		R	Area:	50	00.00 SqFt	PCI: 53	3		
Samp	le Comments:										
48	L & T CR		L	481.00							
52	RAVELING		L	4000.00							
52	RAVELING		M	1000.00	SqFt						
Samp	le Number: 164	Type:		R	Area:	50	00.00 SqFt	PCI: 5:	5		
Samp	le Comments:										
48	L & T CR		L	422.00) Ft						
52	RAVELING		L	4000.00	SqFt						
52	RAVELING		M	1000.00) SqFt						
Samp	le Number: 504	Type:		R	Area:	50	00.00 SqFt	PCI: 54	4		
Samp	le Comments:										
48	L & T CR		L	458.00) Ft						
52	RAVELING		L	4000.00							
52	RAVELING		M	1000.00	_						
Samp	le Number: 540	Type:		R	Area:	63	37.00 SqFt	PCI: 5:	5		
_	le Comments:						-				
48	L & T CR		L	590.00) Ft						
52	RAVELING		L	5337.00							
52	RAVELING		M	1000.00	_						
Samp	le Number: 560	Type:		R	Area:	50	00.00 SqFt	PCI: 49	9		
_	le Comments:										
48	L & T CR		L	502.00) Ft						
50	PATCHING		M	6.00	SqFt						
52	RAVELING		L	3994.00	_						
52	RAVELING		M	1000.00	SqFt						
Samp	le Number: 572	Type:		R	Area:	50	00.00 SqFt	PCI: 5:	5		
Samp	le Comments: D	ifferent sample	was in	spected due to rec	cent wo	rk at end of Ru	nway.				
52	RAVELING		M	1000.00	SqFt						
48	L & T CR		L	425.00) Ft						
52	RAVELING		L	4000.00) SaFt						

Network:	X51			N	Name:	MIAMI HOM AIRPORT	ESTEA	D GENERAL A	VIATION		
Branch:	RW 18-36	j	Name:	RUNWAY	7 18-36	Use	: RU	JNWAY	Area:	400,2	00 SqFt
Section:	6112	0	f 5	From: -				To: -		La	ast Const.: 1/1/2009
Surface:	AAC	Family:	C9N59-GA-R APC	W-AAC- Z	Zone:			Category:		R	ank: P
Area:		7,250 SqFt	Length:	29	00 Ft	Width:		25 Ft			
Slabs:		Slab Ler	ngth:	Ft	Slab Wi	idth:		Ft	Joint L	ength:	Ft
Shoulder:		Street T	ype:		Grade:	0			Lanes:	0	
Section Co	omments:										
Work Date	e: 1/1/1967	W	ork Type: BUI	LT			Code:	IMPORTED	Is N	Iajor M&I	R: True
Work Date	e: 1/1/2001	W	ork Type: Surf	ace Seal - Rejuv	enating		Code:	SS-RE	Is N	Iajor M&I	R: False
Work Date	e: 1/1/2009	W	ork Type: MIL	L and OVERLA	ΛY		Code:	ML-OV	Is N	Iajor M&I	R: True
Last Insp.	Date: 4/11/2	2017	Totals	Samples: 2		Surve	eyed:	1			
Conditions	s: PCI:	81									
Inspection	Comments:										
Sample Nu	umber: 544	Tyj	pe: R	Area	:	3625.00 SqFt		PCI: 81			
Sample Co	omments:										
48 L&	Ł T CR		L	99.00 Ft							

L L

52

57

RAVELING WEATHERING 196.00 SqFt 3429.00 SqFt

Netwo	rk: X51				Name:	MIAMI AIRPOI		ΓEAD GENERAI	AVIATION		
Brancl	n: TW A		Name:	TAXIWA	Y ALPHA		Use:	TAXIWAY	Area:	184,505 SqF	⁷ t
Section	160	(of 10	From: -				То: -		Last Cor	nst.: 1/1/1967
Surfac	e: AC	Family:	C9N59-GA-7	ΓW-AC	Zone:			Category:		Rank:	P
Area:		14,699 SqFt	Length	: 1	95 Ft	W	idth:	75 Ft			
Slabs:		Slab Le	ngth:	Ft	Slab V	Vidth:		Ft	Joint Le	ngth:	Ft
Should	ler:	Street T	ype:		Grade	: 0			Lanes:	0	
Section	Comments:										
Work	Date: 1/1/196	7 W	ork Type: Nev	w Construction -	Initial		Co	ode: NU-IN	Is M	ajor M&R: Tru	e
Work	Date: 1/1/200	1 W	ork Type: Sur	face Seal - Reju	venating		Co	ode: SS-RE	Is M	ajor M&R: Fals	se
Last Ir	sp. Date: 4/	11/2017	Total	Samples: 3			Surveye	d: 1			
Condi	ions: PCI:	56									
Inspec	tion Commen	ts:									
Sampl	e Number: 6	501 Ty	pe: R	Are	a:	3736.00	SqFt	PCI:	56		
Sampl	e Comments:										
48	L & T CR		L	276.00 Ft							
50	PATCHING		L	300.00 Se	ĮFt						
52	RAVELING		L	2936.00 Se	ηFt						
52	RAVELING		M	500.00 So	-						

MIAMI HOMESTEAD GENERAL AVIATION X51 Network: Name: AIRPORT **Branch:** TW A Name: TAXIWAY ALPHA Use: TAXIWAY Area: 184,505 SqFt of 10 To: -**Section:** 205 From: **Last Const.:** 1/1/1967 AC C9N59-GA-TW-AC Zone: Rank: P Surface: Family: Category: 13,738 SqFt 340 Ft Width: 40 Ft Area: Length: Slab Width: Joint Length: Slabs: Slab Length: Ft Ft Ft Shoulder: **Street Type:** Grade: 0 Lanes: 0 **Section Comments: Work Date:** 1/1/1967 Code: IMPORTED Work Type: BUILT Is Major M&R: True **Last Insp. Date:** 4/11/2017 **TotalSamples:** 3 Surveyed: 1 **PCI:** 45 **Conditions: Inspection Comments: PCI:** 45 Sample Number: 102 Type: R Area: 5200.00 SqFt

Sample Comments:

52 RAVELING L 2200.00 SqFt L & T CR L 526.00 Ft 48 RAVELING 52 M 3000.00 SqFt

Network:	X51				Name:	MIAMI HOME: AIRPORT	STEAD GENER.	AL AVIATION	
Branch:	TW A		Name:	TAXI	WAY ALPHA	Use:	TAXIWAY	Area:	184,505 SqFt
Section:	210	of	10	From:	-		То: -		Last Const.: 1/1/1994
Surface:	AAC	Family:	C9N59-GA- APC	TW-AAC-	Zone:		Category	:	Rank: P
Area:		5,600 SqFt	Length	:	170 Ft	Width:	40 1	Ft	
Slabs:		Slab Len	gth:	Ft	Slab W	idth:	Ft	Joint L	ength: Ft
Shoulder:		Street Ty	pe:		Grade:	0		Lanes:	0
Section Co	omments:								
Work Date	e: 1/1/1962	W	ork Type: BU	JILT		(Code: IMPORT	TED Is I	Major M&R: True
Work Date	e: 1/1/1994	W	ork Type: O\	ERLAY		(Code: IMPORT	TED Is I	Major M&R: True
Last Insp.	Date: 4/11/	/2017	Tota	Samples:	1	Survey	ed: 1		
Conditions	s: PCI:	73							
Inspection	Comments:								
Sample Nu	umber: 104	Тур	e: R	I	Area:	5600.00 SqFt	PCI	: 73	
Sample Co	omments:								

L L L 348.00 Ft

560.00 SqFt 5040.00 SqFt

L & T CR

RAVELING

WEATHERING

48

52

57

Netwo	rk: X51			Na		MI HOMES PORT	TEAD GENERA	L AVIATION	N		
Brancl	n: TW A		Name:	TAXIWAY A	ALPHA	Use:	TAXIWAY	Area:	1	84,505 SqFt	
Section	1: 215	of 1	10	From: -			То: -			Last Const.:	1/1/1962
Surfac	e: AC	Family: C	9N59-GA-7	ΓW-AC Z oi	ne:		Category:			Rank: P	
Area:	121,19	9 SqFt	Length	3,000	Ft	Width:	40 Ft				
Slabs:		Slab Length	ı :	Ft	Slab Width:		Ft	Jo	int Length:	Ft	t
Should	ler:	Street Type:	:		Grade: 0			La	anes: 0		
Section	Comments:										
Work 1	Date: 1/1/1962	Work	Type: BU	ILT		Co	ode: IMPORTE	D	Is Major l	M&R: True	
Last Ir	sp. Date: 4/11/2017	7	Total	Samples: 30		Surveye	d: 4				
Condit	ions: PCI: 66										
Inspec	tion Comments:										
Sample	e Number: 108	Type:	R	Area:	4000	.00 SqFt	PCI:	70			
_	e Comments:										
48	L & T CR		L	20.00 Ft							
52	RAVELING		L	4000.00 SqFt							
Sample	e Number: 117	Type:	R	Area:	4000	.00 SqFt	PCI:	62			
Sample	e Comments:										
42	BLEEDING		N	12.00 SqFt							
43	BLOCK CR		L	1160.00 SqFt							
	L & T CR		L	52.00 Ft							
52	RAVELING		L	4000.00 SqFt							
Sample	e Number: 123	Type:	R	Area:	4000	.00 SqFt	PCI:	64			
Sample	e Comments:										
48	L & T CR		L	232.00 Ft							
52	RAVELING		L	3825.00 SqFt							
52	RAVELING		M	175.00 SqFt							
Sample	e Number: 129	Type:	R	Area:	4000	.00 SqFt	PCI:	69			
Sample	e Comments:										
48	L & T CR		L	116.00 Ft							
52	RAVELING		L	4000.00 SqFt							

Network:	X51				Name:	MIAMI HOMES AIRPORT	STEAD GENERAL A	AVIATION	
Branch:	TW A		Name:	TAXI	WAY ALPHA	Use:	TAXIWAY	Area:	184,505 SqFt
Section:	220	of	10	From:	-		То: -		Last Const.: 1/1/1994
Surface:	AAC	Family:	C9N59-GA-	TW-AAC-	Zone:		Category:		Rank: P
Area:		6,000 SqFt	Length	1:	150 Ft	Width:	40 Ft		
Slabs:		Slab Len	gth:	Ft	Slab Wi	dth:	Ft	Joint Leng	th: Ft
Shoulder:		Street Ty	pe:		Grade:	0		Lanes:	0
Section Co	omments:								
Work Dat	e: 1/1/1962	Wo	ork Type: BU	JILT		C	Code: IMPORTED	Is Maj	or M&R: True
Work Date	e: 1/1/1994	We	ork Type: O\	/ERLAY		C	Code: IMPORTED	Is Majo	or M&R: True
Last Insp.	Date: 4/11	/2017	Tota	lSamples:	1	Surveye	ed: 1		
Conditions	s: PCI:	75							
Inspection	Comments:								
Sample Nu	umber: 133	Тур	e: R	A	Area:	6000.00 SqFt	PCI: 7:	5	
Sample Co	omments:								

124.00 Ft 1400.00 SqFt 4600.00 SqFt

L L L

L & T CR

RAVELING

WEATHERING

48 52

57

MIAMI HOMESTEAD GENERAL AVIATION X51 Network: Name: AIRPORT **Branch:** TW A Name: TAXIWAY ALPHA Use: TAXIWAY Area: 184,505 SqFt **Section:** 260 of 10 From: To: -**Last Const.:** 1/1/1967 C9N59-GA-TW-AC Rank: P Surface: AC Family: Zone: Category: 5,369 SqFt 100 Ft Width: 50 Ft Area: Length: Slabs: Slab Length: Ft Slab Width: Ft Joint Length: Ft Shoulder: **Street Type:** Grade: 0 Lanes: 0 **Section Comments:** Code: IMPORTED Work Date: 1/1/1967 Work Type: BUILT Is Major M&R: True Code: SS-RE Work Type: Surface Seal - Rejuvenating Work Date: 1/1/2001 Is Major M&R: False **Last Insp. Date:** 4/11/2017 TotalSamples: 1 Surveyed: 1 **Conditions:** PCI: **Inspection Comments:** Sample Number: 100 R 5369.00 SqFt **PCI:** 47 Type: Area: **Sample Comments:** 45 **DEPRESSION** L 126.00 SqFt

L & T CR

RAVELING

RAVELING

48 52

52

L

L

M

583.00 Ft

4027.00 SqFt 1342.00 SqFt

MIAMI HOMESTEAD GENERAL AVIATION X51 Network: Name: AIRPORT **Branch:** TW A Name: TAXIWAY ALPHA Use: TAXIWAY Area: 184,505 SqFt **Section:** 270 of 10 From: To: -**Last Const.:** 1/1/1967 C9N59-GA-TW-AC Rank: P Surface: AC Family: Zone: Category: 5,369 SqFt 100 Ft Width: 50 Ft Area: Length: Slabs: Slab Length: Ft Slab Width: Ft Joint Length: Ft Shoulder: **Street Type:** Grade: 0 Lanes: **Section Comments:** Code: IMPORTED Work Date: 1/1/1967 Work Type: BUILT Is Major M&R: True Code: SS-RE Work Type: Surface Seal - Rejuvenating Work Date: 1/1/2001 Is Major M&R: False **Last Insp. Date:** 4/11/2017 TotalSamples: 1 Surveyed: 1 **Conditions:** PCI: **Inspection Comments:** Sample Number: 200 R 5369.00 SqFt **PCI:** 48 Type: Area: **Sample Comments:** 50 PATCHING L 85.00 SqFt L & T CR L 469.00 Ft 48

48

52

52

L & T CR

RAVELING

RAVELING

M

L

M

50.00 Ft

4221.00 SqFt

1063.00 SqFt

Network:	X51			Nan	MIAMI HOMES AIRPORT	STEAD GENERAL A	VIATION	
Branch:	TW A		Name:	TAXIWAY A	LPHA Use:	TAXIWAY	Area:	184,505 SqFt
Section:	280	0	f 10	From: -		То: -		Last Const.: 1/1/1962
Surface:	AC	Family:	C9N59-GA-T	W-AC Zone	e:	Category:		Rank: P
Area:		4,273 SqFt	Length:	80 F	t Width:	50 Ft		
Slabs:		Slab Ler	ngth:	Ft	Slab Width:	Ft	Joint Length	: Ft
Shoulder:		Street T	ype:		Grade: 0		Lanes: 0	
Section Co	omments:							
Work Dat	te: 1/1/1962	W	ork Type: BUI	LT	(Code: IMPORTED	Is Major	M&R: True
Work Dat	te: 1/1/2001	W	ork Type: Surfa	ace Seal - Rejuvena	ting (Code: SS-RE	Is Major	M&R: False
Last Insp.	Date: 4/11	1/2017	TotalS	amples: 1	Survey	ed: 1		
Condition	s: PCI:	55						
Inspection	n Comments	:						
Sample N	umber: 30	0 Ty J	pe: R	Area:	4273.00 SqFt	PCI: 55		
Sample Co	omments:							
43 BL	OCK CR		L	390.00 SqFt				
48 L &	& T CR		L	109.00 Ft				
48 L &	& T CR		M	7.00 Ft				
52 RA	VELING		L	4008.00 SqFt				
	VELING		M	265.00 SqFt				

Networ	k: X51				Name:	MIAMI HOM AIRPORT	ESTEAD	GENERAL A	AVIATION		
Branch	: TW A		Name:	TAXIWA	Y ALPHA	Use	: TAX	IWAY	Area:	184,505 SqFt	
Section	: 290	0	f 10 F	rom: -			T	'o: -		Last Const.:	1/1/1962
Surface	e: AC	Family:	C9N59-GA-TW	-AC	Zone:		C	Category:		Rank: P	
Area:		4,069 SqFt	Length:		80 Ft	Width:		50 Ft			
Slabs:		Slab Ler	ngth:	Ft	Slab W	idth:	F	't	Joint Lengt	th: Ft	
Should	er:	Street T	ype:		Grade	0			Lanes:	0	
Section	Comments:										
Work I	Date: 1/1/1962	W	ork Type: BUIL	Γ			Code:	IMPORTED	Is Majo	or M&R: True	
Work I	Date: 1/1/2001	W	ork Type: Surface	e Seal - Reju	venating		Code:	SS-RE	Is Majo	or M&R: False	
Last In	sp. Date: 4/1	1/2017	TotalSa	mples: 1		Surve	eyed: 1				
Conditi	ions: PCI:	59									
Inspect	ion Comments	s :									
Sample	Number: 40	00 Ty]	pe: R	Are	a:	4069.00 SqFt		PCI: 59)		
Sample	Comments:										
48	L & T CR		L	424.00 Ft							
50	PATCHING		L	160.00 Sc	_l Ft						
	RAVELING		L	3831.00 Sc	-						
52	RAVELING		M	78.00 Sc	_l Ft						

Network:	X51				Name:	MIAMI HOMES AIRPORT	TEAD GENERAL A	VIATION	
Branch:	TW A		Name:	TAXI	WAY ALPHA	Use:	TAXIWAY	Area:	184,505 SqFt
Section:	295	0	f 10	From:	-		То: -		Last Const.: 1/1/1970
Surface:	AC	Family:	C9N59-GA-T	W-AC	Zone:		Category:		Rank: P
Area:		4,189 SqFt	Length:		80 Ft	Width:	50 Ft		
Slabs:		Slab Len	igth:	Ft	Slab '	Width:	Ft	Joint Length	: Ft
Shoulder:	:	Street Ty	ype:		Grad	e: 0		Lanes: 0	
Section C	omments:								
	4 1/1/1070	***	1 m DIII	T T		C	ode: IMPORTED	Ta Maian	: M&R: True
Work Dat	te: 1/1/19/0	VV	ork Type: BUI	LI		C	ode: IMFORTED	is Major	WICK. True
	. Date: 4/11		•••	amples:	1	Surveye		is Major	IVICK, True
Last Insp.	. Date: 4/11		•••		1			is Major	Max. Hue
Last Insp.	. Date: 4/11	/2017 51	•••		1			is Major	Max. Hue
Condition Inspection	. Date: 4/11 ns: PCI:	/2017 51	TotalS	amples:	1			is Major	NACK. Title
Last Insp. Condition Inspection Sample N	. Date: 4/11 ns: PCI: n Comments:	/2017 51 Typ The previous i	Totals De: R Inspection data for transferred into	Samples: Arom the Mot	area:	Surveye	PCI: 51	is Major	NACK. Flue
Last Insp. Condition Inspection Sample N Sample C	. Date: 4/11 ns: PCI: n Comments: (umber: 500	/2017 51 Typ The previous i PAVER when	Totals De: R Inspection data for transferred into	Arom the Mot	area:	Surveye 4189.00 SqFt librated correctly by	PCI: 51	is Major	THE THE
Last Insp. Condition Inspection Sample N Sample C	Date: 4/11 ns: PCI: n Comments: (umber: 500 comments:	/2017 51 Typ The previous i PAVER when	Totals De: R Inspection data for transferred into trect.	Arom the Mot	Area: ion was not ca c. The amount SqFt	Surveye 4189.00 SqFt librated correctly by	PCI: 51	is Major	THE THE
Last Insp. Condition Inspection Sample N Sample C	Date: 4/11 ns: PCI: n Comments: fumber: 500 comments:	/2017 51 Typ The previous i PAVER when	Totals De: R Inspection data fit transferred into trect. M	From the Mot the database 4.00	ion was not ca c. The amount SqFt SqFt	Surveye 4189.00 SqFt librated correctly by	PCI: 51	is Major	NACK. FIGE
Last Insp. Condition Inspection Sample N Sample C 50 PA 45 DE 48 L &	Date: 4/11 ns: PCI: n Comments: (umber: 500 comments: ATCHING EPRESSION	/2017 51 Typ The previous i PAVER when	Totals De: R Inspection data fit transferred into trect. M L	From the Mot the database 4.00 50.00	Area: ion was not ca c. The amount SqFt SqFt Ft	Surveye 4189.00 SqFt librated correctly by	PCI: 51	is Major	NACK. FILE
Last Insp. Condition Inspection Sample N Sample C 50 PA 45 DE 48 L 8 50 PA	Date: 4/11 ns: PCI: n Comments: (umber: 500 comments: ATCHING EPRESSION & T CR	/2017 51 Typ The previous i PAVER when	Totals De: R Inspection data fit transferred into trect. M L L L	From the Motthe database 4.00 50.00 198.00	ion was not ca c. The amount SqFt SqFt Ft SqFt	Surveye 4189.00 SqFt librated correctly by	PCI: 51	IS MIAJOR	YACK. THE

Network:	: X51			Nar		AMI HOMES PORT	TEAD GENERAL	AVIATION	
Branch:	TW A1		Name:	TAXIWAY A	1	Use:	TAXIWAY	Area:	9,208 SqFt
Section:	230	0	f 2	From: -			То: -		Last Const.: 1/1/196
Surface:	AC	Family:	C9N59-GA	-TW-AC Zoi	ie:		Category:		Rank: P
Area:		6,237 SqFt	Lengt	h: 150 l	₹t	Width:	40 Ft		
Slabs:		Slab Ler	ngth:	Ft	Slab Width:		Ft	Joint Length:	Ft
Shoulder	:	Street T	ype:		Grade: 0			Lanes: 0	
Section C	Comments:								
Work Da	ite: 1/1/1962	W	ork Type: N	ew Construction - Ini	ial	C	ode: NU-IN	Is Major	M&R: True
	Date: 4/11/		Tota	alSamples: 1		Surveye	ed: 1		
Condition	ns: PCI:	51							
Inspectio	n Comments:								
Sample N	Number: 100	Tyj	pe: R	Area:	6230	5.50 SqFt	PCI: 5	51	
Sample C	Comments:								
41 Al	LLIGATOR C	R	L	28.00 SqFt					
48 L	& T CR		L	367.00 Ft					
50 PA	ATCHING		L	180.00 SqFt					
52 RA	AVELING		L	4846.00 SqFt					
52 RA	AVELING		M	1211.00 SqFt					

Network:	X51				Nam		AMI HOMES PORT	TEAD GE	NERAL A	VIATION		
Branch:	TW A1		Name:	TAXIV	VAY A	1	Use:	TAXIW	AY	Area:	9,208	SqFt
Section:	235	O	f 2	From: -				To:	-		Last	Const.: 1/1/199
Surface:	AAC	Family:	C9N59-GA-T APC	W-AAC-	Zone	e:		Categ	gory:		Rank	: P
Area:		2,971 SqFt	Length:		50 F	t	Width:		50 Ft			
Slabs:		Slab Len	igth:	Ft		Slab Width:		Ft		Joint Len	gth:	Ft
Shoulder:		Street Ty	ype:			Grade: 0				Lanes:	0	
Section Cor	mments:											
Work Date:	: 1/1/1962	W	ork Type: New	Construction	n - Initi	al	C	ode: NU-	IN	Is Ma	jor M&R:	True
Work Date:	: 1/1/1994	W	ork Type: Mill	and Overlay	7		C	ode: ML-	OL	Is Ma	jor M&R:	True
Last Insp. I	Date: 4/11/	2017	Totals	Samples:	1		Surveye	ed: 1				
Conditions:	: PCI:	62										
Inspection (Comments:											
Sample Nur	mber: 101	Тур	pe: R	A	rea:	2971	.00 SqFt		PCI: 62			
Sample Cor	mments:											
45 DEP	PRESSION		L	63.00	SqFt							
48 L&	T CR		L	249.00	Ft							
52 RAV	VELING		L	194.00	SqFt							
56 SWE	ELLING		L	21.00	SqFt							
	ATHERING		L	2777.00								

MIAMI HOMESTEAD GENERAL AVIATION X51 Network: Name: AIRPORT **Branch:** TW A2 Name: TAXIWAY A2 Use: TAXIWAY Area: 11,520 SqFt **Section:** 240 of 1 From: To: -**Last Const.:** 1/1/1962 C9N59-GA-TW-AC Rank: P Surface: AC Family: Zone: Category: 11,520 SqFt 250 Ft Width: 40 Ft Area: Length: Slabs: Slab Length: Ft Slab Width: Ft Joint Length: Ft Shoulder: **Street Type:** Grade: 0 Lanes: 0 **Section Comments:** Code: NU-IN Work Date: 1/1/1962 Work Type: New Construction - Initial Is Major M&R: True **Last Insp. Date:** 4/11/2017 **TotalSamples:** 2 Surveyed: 1 **Conditions: PCI:** 44 **Inspection Comments:** Sample Number: 201 Type: R Area: 4773.00 SqFt **PCI:** 44 **Sample Comments:** 43 BLOCK CR L 484.00 SqFt DEPRESSION L 86.00 SqFt 45

L & T CR

L & T CR

PATCHING

RAVELING

RAVELING

48

48

50

52

52

L

M

L

L

M

203.00 Ft

15.00 Ft

160.00 SqFt

4383.00 SqFt

230.00 SqFt

MIAMI HOMESTEAD GENERAL AVIATION X51 Network: Name: AIRPORT **Branch:** TW A3 Name: TAXIWAY A3 Use: TAXIWAY Area: 9,004 SqFt **Section:** 250 of 2 From: To: -**Last Const.:** 1/1/1962 C9N59-GA-TW-AC Rank: P Surface: AC Family: Zone: Category: 6,135 SqFt 150 Ft Width: 40 Ft Area: Length: Slabs: Slab Length: Ft Slab Width: Ft Joint Length: Ft Shoulder: **Street Type:** Grade: 0 Lanes: 0 **Section Comments:** Code: NU-IN Work Date: 1/1/1962 Work Type: New Construction - Initial Is Major M&R: True **Last Insp. Date:** 4/11/2017 TotalSamples: 1 Surveyed: 1 **PCI:** 49 **Conditions: Inspection Comments:** Sample Number: 301 Type: R Area: 6135.00 SqFt **PCI:** 49 **Sample Comments:** 43 BLOCK CR L 400.00 SqFt ALLIGATOR CR L 110.00 SqFt 41

L & T CR

PATCHING

RAVELING

WEATHERING

48

50

52

57

L

L

L

L

215.00 Ft

164.00 SqFt

1791.00 SqFt

4180.00 SqFt

Network:	X51			N		AMI HOMES PORT	TEAD GENERAL	AVIATION	
Branch:	TW A3		Name:	TAXIWAY	7 A3	Use:	TAXIWAY	Area:	9,004 SqFt
Section:	255	C	of 2	From: -			То: -		Last Const.: 1/1/1994
Surface:	AAC	Family:	C9N59-GA-T APC	W-AAC- Z	one:		Category:		Rank: P
Area:		2,869 SqFt	Length:	50	0 Ft	Width:	50 Ft		
Slabs:		Slab Le	ngth:	Ft	Slab Width:		Ft	Joint Lengt	th: Ft
Shoulder	:	Street T	ype:		Grade: 0			Lanes:	0
Section C	comments:								
Work Da	te: 1/1/1962	W	ork Type: New	v Construction - I	nitial	C	ode: NU-IN	Is Majo	or M&R: True
Work Da	te: 1/1/1994	W	ork Type: Mill	l and Overlay		C	ode: ML-OL	Is Majo	or M&R: True
Last Insp	Date: 4/11	/2017	Totals	Samples: 1		Surveye	e d: 1		
Condition	ns: PCI:	76							
Inspectio	n Comments:	:							
Sample N	umber: 300	0 Ty	pe: R	Area:	2869	9.00 SqFt	PCI: 7	' 6	
Sample C	Comments:								
48 L	& T CR		L	125.00 Ft					
	AVELING		L	630.00 SqF					
57 W	EATHERING	j	L	2239.00 SqF	² t				

Network:	X51			Na		AMI HOMES' RPORT	ΓEAD GENERAL A	AVIATION	
Branch:	TW AP		Name:	TAXIWAY	TO APRON	Use:	TAXIWAY	Area:	10,104 SqFt
Section:	305	C	of 1	From: -			То: -		Last Const.: 1/1/2001
Surface:	AAC	Family:	C9N59-GA-T APC	W-AAC- Zo	one:		Category:		Rank: P
Area:		10,104 SqFt	Length:	150	Ft	Width:	40 Ft		
Slabs:		Slab Lei	ngth:	Ft	Slab Width:		Ft	Joint Length	: Ft
Shoulder:	:	Street T	ype:		Grade: 0			Lanes: 0	
Section Co	omments:								
Work Dat	te: 1/1/1962	W	Vork Type: New	Construction - Ir	nitial	Co	ode: NU-IN	Is Major	M&R: True
Work Dat	te: 1/1/1994	W	ork Type: Over	·lay		Co	ode: OL-MR	Is Major	M&R: True
Work Dat	te: 1/1/2001	W	Vork Type: MIL	L and OVERLAY	Y	Co	ode: ML-OV	Is Major	M&R: True
_	. Date: 4/1		TotalS	amples: 3		Surveye	d: 1		
Condition Inspection	ns: PCI: n Comments	43 :							
Sample N	umber: 10	0 Ty	pe: R	Area:	284	4.00 SqFt	PCI: 43	3	
Sample C	comments:								
43 BL	LOCK CR		L	1500.00 SqF	t				
48 L &	& T CR		L	99.00 Ft					
50 PA	ATCHING		L	2.00 SqFt	t				
52 RA	AVELING		L	2131.00 SqFt	t				
50 B.	A VET DIC		3.6	711 00 G E					

711.00 SqFt

M

52

RAVELING

Metwi	JIK. 731						1	ame.		PORT	LSTLA	DOLIVLINA	LAVI	ATION				
Branc	ch: TW B				Nam	e: T	AXIWAY	BRAVO		Use	: TA	XIWAY	A	rea:		205,921	SqFt	
Sectio	on: 105			of 2		From:	-					To: -				Last	t Const.:	1/1/1967
Surfa	ce: AC		Family:	C9	N59-G	A-TW-AC	Z	one:				Category:				Ran	k: P	
Area:		192,408	8 SqFt		Len	gth:	3,84	8 Ft		Width:		50 F	t					
Slabs	:		Slab Le	ength:			Ft	Slab W	/idth:			Ft		Join	nt Length	:	Ft	t
Shoul	der:		Street 7	Туре:				Grade:	: 0					Lar	nes: 0			
Section	on Comments:																	
Work	Date: 1/1/1967	7	V	Work '	Туре:	BUILT					Code:	IMPORTI	ED		Is Major	M&R:	True	
Work	Date: 1/1/2001	1	V	Work '	Туре:	Surface Sea	al - Rejuve	enating			Code:	SS-RE			Is Major	M&R:	False	
Last 1	nsp. Date: 4/1	1/2017			To	otalSample	s: 39			Surve	eyed: 4	1						
Cond	itions: PCI:	61																
Inspe	ction Comment	s:																
Samp	le Number: 10	03	T	ype:	R		Area	.	5000	0.00 SqFt		PCI:	58					
Samp	le Comments:																	
52	RAVELING				M	60	0.00 SqF	² t										
48	L & T CR				L		2.00 Ft											
52	RAVELING				L	440	0.00 SqF	łt										
Samp	le Number: 11	16	T	ype:	R		Area		5000	0.00 SqFt		PCI:	62					
Samp	le Comments:																	
52	RAVELING				M	60	0.00 SqF	₹t										
48	L & T CR				L		3.00 Ft											
52	RAVELING				L	440	0.00 SqF	łt										
Samp	le Number: 12	23	T	ype:	R		Area		5000	0.00 SqFt		PCI:	61					
Samp	le Comments:																	
52	RAVELING				M	60	0.00 SqF	-t										
48	L & T CR				L	29	2.00 Ft											
52	RAVELING				L	440	0.00 SqF	łt										
Samp	le Number: 13	32	T	ype:	R		Area		5000	.00 SqFt		PCI:	63					
Samp	le Comments:																	
52	RAVELING				M	60	0.00 SqF	² t										
48	L & T CR				L		2.00 Ft											
52	RAVELING				L	440	0.00 SqF	₹t										

Name:

MIAMI HOMESTEAD GENERAL AVIATION

X51

Network:

MIAMI HOMESTEAD GENERAL AVIATION X51 Network: Name: AIRPORT **Branch:** TW B Name: TAXIWAY BRAVO Use: TAXIWAY Area: 205,921 SqFt **Section:** 180 of 2 From: To: -**Last Const.:** 1/1/1967 AC C9N59-GA-TW-AC Rank: P Surface: Family: Zone: Category: 240 Ft Width: 50 Ft Area: 13,513 SqFt Length: Slabs: Slab Length: Ft Slab Width: Ft Joint Length: Ft Shoulder: **Street Type:** Grade: 0 Lanes: 0 **Section Comments:** Code: IMPORTED Work Date: 1/1/1967 Work Type: BUILT Is Major M&R: True Code: SS-RE Work Type: Surface Seal - Rejuvenating Work Date: 1/1/2001 Is Major M&R: False **Last Insp. Date:** 4/11/2017 **TotalSamples:** 3 Surveyed: 1 **Conditions:** PCI: **Inspection Comments:** Sample Number: 801 R 5000.00 SqFt **PCI:** 49 Type: Area:

Sample Comments:

L & T CR

RAVELING

RAVELING

48

52

52

L 796.00 Ft M 1000.00 SqFt L 4000.00 SqFt

Network:	X51				Name		MI HOME PORT	STEAD	GENERAL A	AVIATION			
Branch:	TW B1		Name:	TAXIW	VAY B1		Use:	TAX	IWAY	Area:	20,22	3 SqFt	
Section:	110	0	f 1 1	From: -				Т	o: -		Las	st Const.:	1/1/1994
Surface:	AAC	Family:	C9N59-GA-TY APC	W-AAC-	Zone:			C	ategory:		Rai	nk: P	
Area:	2	0,223 SqFt	Length:		260 Ft		Width:		75 Ft				
Slabs:		Slab Len	igth:	Ft	5	Slab Width:		F	t	Joint Lei	ngth:	F	₹t
Shoulder:		Street T	ype:		(Grade: 0				Lanes:	0		
Section Co	mments:												
Work Date	e: 1/1/1967	W	ork Type: New	Construction	n - Initia	1	(Code: 1	NU-IN	Is M	ajor M&R	: True	
Work Date	e: 1/1/1994	W	ork Type: Mill	and Overlay			(Code: 1	ML-OL	Is M	ajor M&R	: True	
Work Date	e: 1/1/2001	W	ork Type: Surfa	ice Seal - Re	juvenati	ng	(Code: S	SS-RE	Is M	ajor M&R	: False	
Last Insp.	Date: 4/11/2	2017	TotalS	amples: 4			Survey	ed: 1					
Conditions	s: PCI:	70											
Inspection	Comments:												
Sample Nu	mber: 202	Tyl	pe: R	A	rea:	5945	5.00 SqFt		PCI: 7	0			
Sample Co	omments:												
48 L&	T CR		L	324.00	Ft								
50 PA7	TCHING		L	300.00	SqFt								
52 RA	VELING		L	113.00	SqFt								
57 WE	ATHERING		L	5532.00	SaEt								

Network: X51		Name:	MIAMI HOMEST AIRPORT	ΓEAD GENERAL A	AVIATION	
Branch: TW B2	Name:	TAXIWAY B2	Use:	TAXIWAY	Area:	21,223 SqFt
Section: 120	of 1 I	'rom: -		То: -		Last Const.: 1/1/1967
Surface: AC	Family: C9N59-GA-TV	V-AC Zone:		Category:		Rank: P
Area: 21,22	23 SqFt Length:	200 Ft	Width:	100 Ft		
Slabs:	Slab Length:	Ft Slab V	Vidth:	Ft	Joint Leng	th: Ft
Shoulder:	Street Type:	Grade	e: 0		Lanes:	0
Section Comments:						
Work Date: 1/1/1967	Work Type: New	Construction - Initial	Со	ode: NU-IN	Is Maj	or M&R: True
Work Date: 1/1/2001	Work Type: Surfa	ce Seal - Rejuvenating	Со	ode: SS-RE	Is Maj	or M&R: False
Last Insp. Date: 4/11/2017	TotalS	amples: 4	Surveyed	l: 1		
Conditions: PCI: 49						
Inspection Comments:						
Sample Number: 201	Type: R	Area:	5038.00 SqFt	PCI: 49	9	
Sample Comments:						
43 BLOCK CR	L	5038.00 SqFt				
52 RAVELING	L	4534.00 SqFt				
52 RAVELING	M	504.00 SqFt				

Network:	X51			Name:	MIAMI HOMES AIRPORT	TEAD GENERAL A	AVIATION	
Branch:	TW B3		Name:	TAXIWAY B3	Use:	TAXIWAY	Area:	12,237 SqFt
Section:	130	of	1 1	From: -		То: -		Last Const.: 1/1/1967
Surface:	AC	Family:	C9N59-GA-TV	W-AC Zone:		Category:		Rank: P
Area:	12,23	7 SqFt	Length:	240 Ft	Width:	50 Ft		
Slabs:		Slab Lengt	th:	Ft Slab	Width:	Ft	Joint Length	: Ft
Shoulder:		Street Typ	e:	Grad	e: 0		Lanes: 0	
Section Co	omments:							
Work Date	e: 1/1/1967	Wor	k Type: New	Construction - Initial	C	ode: NU-IN	Is Major	M&R: True
Work Date	e: 1/1/2001	Wor	k Type: Surfa	ace Seal - Rejuvenating	C	ode: SS-RE	Is Major	M&R: False
Last Insp.	Date: 4/11/2017 s: PCI: 43		TotalS	amples: 3	Surveye	ed: 1		
	Comments:							
Sample Nu	imber: 302	Type:	: R	Area:	4823.00 SqFt	PCI: 43	3	
Sample Co	omments:							
43 BL0	OCK CR		L	1300.00 SqFt				
45 DEI	PRESSION		L	132.00 SqFt				
48 L &	t T CR		L	132.00 Ft				
50 PA	TCHING		L	200.00 SqFt				
52 RA	VELING		L	3698.00 SqFt				
52 RA	VELING		M	925.00 SqFt				

MIAMI HOMESTEAD GENERAL AVIATION X51 Network: Name: AIRPORT **Branch:** TW B4 Name: TAXIWAY B4 Use: TAXIWAY Area: 15,569 SqFt 140 **Section:** of 1 From: To: -**Last Const.:** 1/1/1967 AC C9N59-GA-TW-AC Rank: P Surface: Family: Zone: Category: 15,569 SqFt 250 Ft Width: 50 Ft Area: Length: Slabs: Slab Length: Ft Slab Width: Ft Joint Length: Ft Shoulder: **Street Type:** Grade: 0 Lanes: 0 **Section Comments:** Code: NU-IN Work Date: 1/1/1967 Work Type: New Construction - Initial Is Major M&R: True **Last Insp. Date:** 4/11/2017 **TotalSamples:** 3 Surveyed: 1 **PCI:** 49 **Conditions: Inspection Comments:** Sample Number: 402 Type: R Area: 4642.00 SqFt **PCI:** 49

Network:	X51			Nan		AMI HOMES RPORT	TEAD GENERAL	AVIATION	
Branch:	TW B5		Name:	TAXIWAY B	5	Use:	TAXIWAY	Area:	16,325 SqFt
Section:	150	0	f 2	From: -			То: -		Last Const.: 1/1/1967
Surface:	AC	Family:	C9N59-GA-T	W-AC Zon	e:		Category:		Rank: P
Area:		6,211 SqFt	Length:	100 F	't	Width:	50 Ft		
Slabs:		Slab Ler	ngth:	Ft	Slab Width:		Ft	Joint Length	: Ft
Shoulder:		Street T	ype:		Grade: 0			Lanes: 0	
Section Co	mments:								
Work Date	: 1/1/1967	W	ork Type: New	Construction - Init	ial	C	ode: NU-IN	Is Major	M&R: True
Work Date	: 1/1/2001	W	ork Type: Surf	ace Seal - Rejuvena	ting	C	ode: SS-RE	Is Major	M&R: False
Last Insp. I	Date: 4/11	1/2017	Totals	Samples: 1		Surveye	ed: 1		
Conditions	: PCI:	56							
Inspection	Comments	:							
Sample Nu	mber: 50	2 Ty J	pe: R	Area:	621	1.00 SqFt	PCI: 5	56	
Sample Co	mments:								
52 RAV	VELING		L	4799.00 SqFt					
	T CR		L	308.00 Ft					
	CHING		L	212.00 SqFt					
52 RAV	VELING		M	1200.00 SqFt					

Network:	X51				Nan		MIAMI HOMESTEAD GENERAL AVIATION AIRPORT					
Branch:	TW B5		Name: TAX		TIWAY B5		Use:	TA	XIWAY	Area:	16,325 SqFt	
Section:	155	C	of 2	From:	-				То: -		Last	Const.: 1/1/2009
Surface:	AAC	Family:	C9N59-G APC	A-TW-AAC-	Zon	e:			Category:		Ran	k: P
Area:	10,1	114 SqFt	Leng	gth:	100 F	₹t	Width:		100 Ft			
Slabs:		Slab Le	ngth:	Ft		Slab Widt	h:		Ft	Joint Len	igth:	Ft
Shoulder:	ulder: Street Type:					Grade:	0			Lanes:	0	
Section Co	omments:											
Work Date: 1/1/1967 Work Type: N			New Construction - Initial			Code: NU-IN			Is Ma	Is Major M&R: True		
Work Dat	te: 1/1/2001	W	Work Type: Surface Seal - Rejuvenating				•	Code:	SS-RE	Is Major M&R: False		
Work Date	te: 1/1/2009	W	ork Type:	Mill and Overl	ay		•	Code:	ML-OL	Is Ma	ajor M&R:	True
Last Insp.	Date: 4/11/20	17	To	talSamples:	2		Survey	r ed: 1				
Conditions	s: PCI : 91											
Inspection	Comments:											
Sample Nu	umber: 501	Ту	pe: R		Area:	5	169.00 SqFt		PCI: 9	1		
Sample Co	omments:											

L L

52 57 RAVELING WEATHERING 50.00 SqFt 5119.00 SqFt

MIAMI HOMESTEAD GENERAL AVIATION X51 Network: Name: AIRPORT **Branch:** TW C Name: TAXIWAY C Use: TAXIWAY Area: 24,975 SqFt **Section:** 400 of 1 From: To: -**Last Const.:** 1/1/1957 AC C9N59-GA-TW-AC Rank: P Surface: Family: Zone: Category: 24,975 SqFt 535 Ft Width: 40 Ft Area: Length: Slabs: Slab Length: Ft Slab Width: Ft Joint Length: Ft Shoulder: **Street Type:** Grade: 0 Lanes: 0 **Section Comments:** Code: NU-IN Work Date: 1/1/1957 Work Type: New Construction - Initial Is Major M&R: True **Last Insp. Date:** 4/11/2017 **TotalSamples:** 6 Surveyed: 1 **PCI:** 49 **Conditions: Inspection Comments:** Sample Number: 101 Type: R Area: 4000.00 SqFt **PCI:** 49

100.00 Ft

3500.00 SqFt

500.00 SqFt

M

L

M

48

52

52

L & T CR

RAVELING

RAVELING