FLORIDA DEPARTMENT OF TRANSPORTATION AVIATION AND SPACEPORT OFFICE

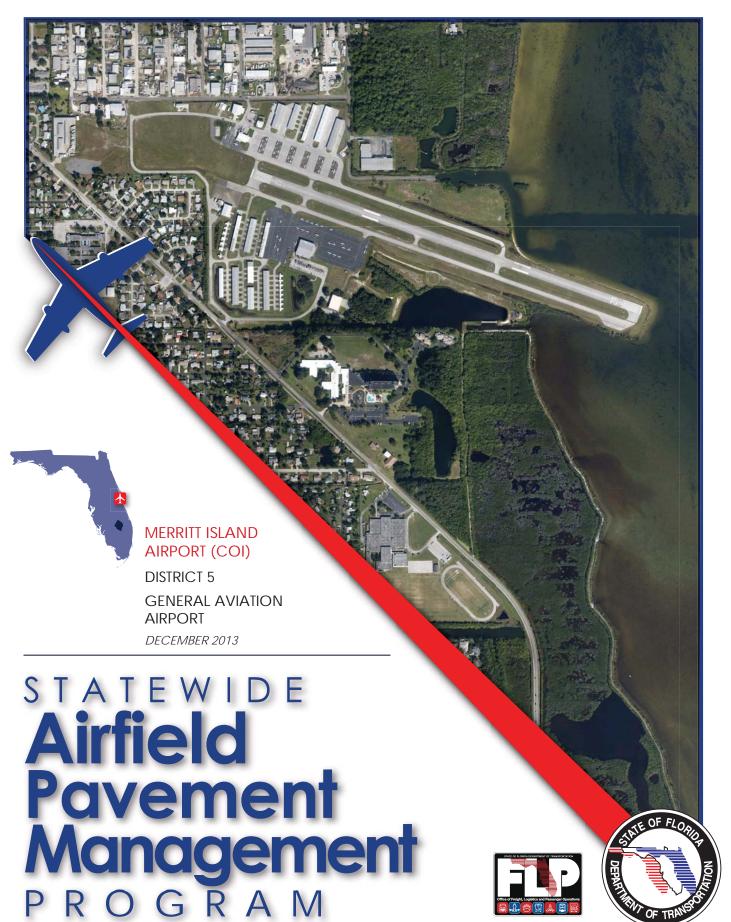


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EXECUTIVE SUMMARY

In 2012, the Florida Department of Transportation (FDOT) Aviation and Spaceport Office selected a team lead by Kimley-Horn and Associates, Inc. and including their subconsultants Peneul Consulting, LLC, Roy D. McQueen & Associates, LTD, and All About Pavements, Inc., to provide services in support of FDOT in the continued efforts of updating the existing Statewide Airfield Pavement Management Program (SAPMP). This work is to be completed over the fiscal years of 2013 and 2014.

The tasks required to achieve this objective at each participating airport specifically included the following:

- Obtain recent construction history from the airport to update the Pavement Network Definition Exhibits using CADD from the previous SAPMP update.
- Update the airport pavement inventory data (construction history, geometry, identification, and classification) based on airport information provided.
- Update the FDOT SAPMP MicroPAVER database files and system tables for the purpose of analyzing field data for Pavement Condition Index (PCI) calculation of current pavement condition
- Development of pavement performance models for the approximation of future pavement performance.
- Development of a maintenance and repair plan, and a 10-year major rehabilitation program to address the pavement needs based on condition.
- Development of planning level opinions of probable costs for pavement preservation and rehabilitation.

In AUGUST 2013, a PCI survey inspection was performed at Merritt Island Airport. The results of the inspection indicate that, based on ASTM D 5340-11, the airport's airfield pavement facilities had an overall area-weighted average PCI of 61, representing a FAIR overall network condition. Table I summarizes the overall condition summary by network level branch in comparison to the FDOT recommended minimum service level.

Table I: Condition Summary by Branch

Branch Name	Area Weighted PCI	PCI Range	Average Condition Rating	FDOT Minimum Service Level	MicroPAVER Minimum PCI	Action Required
NORTH APRON	71	25 - 99	SATISFACTORY	60	65	Х
RUN-UP APRON AT RW 29	82	82	SATISFACTORY	60	65	
SOUTH APRON	25	20 - 28	SERIOUS	60	65	Х
SW APRON	88	85 - 89	GOOD	60	65	
RUNWAY 11-29	69	69	FAIR	75	65	Х
TAXIWAY A	WAY A 78 78 - 79 S.		SATISFACTORY	65	65	
TAXIWAY A1	65	65	FAIR	65	65	Х
TAXIWAY A2	82	82	SATISFACTORY	65	65	
TAXIWAY A3	80	80	SATISFACTORY	65	65	
TAXIWAY A4	83	83	SATISFACTORY	65	65	
TAXIWAY B	74	65 - 98	SATISFACTORY	65	65	Χ
TAXIWAY B1	70 70		FAIR	65	65	
TAXIWAY B2 78 78		SATISFACTORY	65	65		
TAXIWAY B4	75	75	SATISFACTORY	65	65	

For project level planning and inspection development; the airfield pavement facilities have been divided at the branch level based on facility use and designation, and at the section level based on pavement construction history, composition (e.g. asphalt versus concrete), aircraft traffic operations, and pavement surface conditions. Table II provides the overall area weighted condition of the pavement based on facility branch use.

Table II: Condition Summary by Pavement Facility Use

Use	Average Area- Weighted PCI	Condition Rating			
Runway	69	FAIR			
Taxiway	76	SATISFACTORY			
Apron	53	POOR			

Based on the inspection performed at the airport for this SAPMP update; the current conditions were determined using the collected PCI distress data. PCI values were computed and used to identify pavement facilities that were below the defined critical PCI as sections that would benefit from immediate major rehabilitation activity. These pavement sections that were determined to be below the critical PCI would most likely benefit from long-term major rehabilitative construction activity rather than localized, short-term maintenance and repairs.

The Year-1 Major Rehabilitation Needs, or projects that are recommended to be completed because the pavement is below the critical PCI, were developed on the assumption that there is an unlimited repair budget. These projects include:

- Apron North Section 4205
 - Reconstruction attributed to distresses related to climate and age of pavement.
- Apron North Section 4203
 - PCC Restoration attributed to distresses related to loading and construction quality.
- Apron South Sections 4115, 4111, 4110, 4106, and 4105
 - Reconstruction attributed to distresses related to subgrade quality, climate, and age of pavement.
- Taxiway A1 Sections 305
 - Mill and Overlay attributed to distresses related to subgrade quality, climate, and age of pavement.
- Taxiway B Sections 205
 - Mill and Overlay attributed to distresses related to climate and age of pavement.

The section level projects that were identified as Year-1 Major Rehabilitation Needs are in Table III.

Table III: Year-1 Major Rehabilitation Needs for Merritt Island Airport

Branch ID	Section ID	Major Rehabilitation Costs	PCI Before M&R	Rehabilitation Activity	PCI After M&R
AP N	4205	\$372,903.54	25	Reconstruction	100
AP N	4203	\$22,015.00	58	PCC Restoration	100
AP S	4115	\$1,340,938.37	24	Reconstruction	100
AP S	4111	\$202,050.05	24	Reconstruction	100
AP S	4110	\$947,993.02	24	Reconstruction	100
AP S	4106	\$299,400.07	19	Reconstruction	100
AP S	4105	\$1,463,994.35	27	Reconstruction	100
TW A1	305	\$107,387.10	65	Mill and Overlay	100
TW B 205		\$127,499.99	65	Mill and Overlay	100
	Total =	\$4,884,181.49			

The SAPMP uses historic pavement condition data from the previous inspections to develop pavement performance models. These pavement performance models are used to create PCI prediction curves to estimate future pavement conditions based on the historic trends. The section areas, prediction curves, and current condition data were used to develop a 10-year major rehabilitation program. Major rehabilitation costs for each year of the 10-year program are based on general unit costs for pavement repairs and not detailed cost estimates that are typically prepared for a construction set of bid documents. Additionally, preventative maintenance level repair budgets were estimated for a 10-year duration. Table IV provides an annual summary of the 10-year Preventative Maintenance and Major Rehabilitation planning level cost opinions for the airfield pavement facilities at the airport. Refer to Section 6 of this report for additional information.

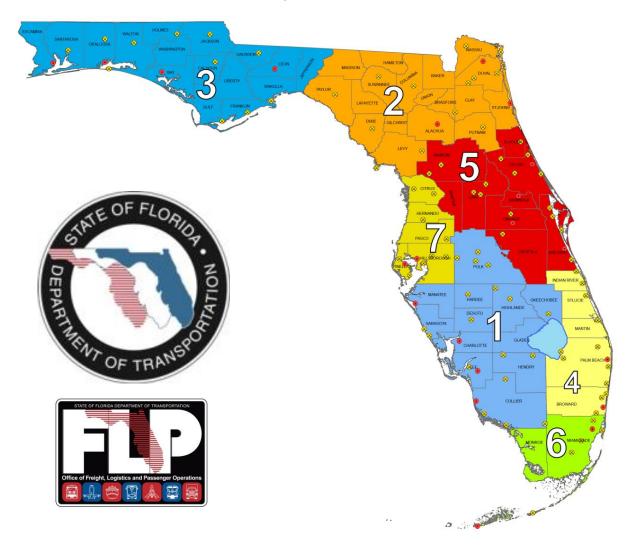
Table IV: 10-Year Preventative Maintenance and Major Rehabilitation

Year	Pı	reventative	Major M&R	To	otal Year Cost
2014	\$	255,943.68	\$ 4,884,181.48	\$	5,140,125.16
2015	\$	280,866.11	\$ -	\$	280,866.11
2016	\$	304,423.62	\$ -	\$	304,423.62
2017	\$	215,184.25	\$ 2,952,821.40	\$	3,168,005.65
2018	\$	255,210.22	\$ -	\$	255,210.22
2019	\$	293,952.76	\$ 46,907.59	\$	340,860.35
2020	\$	245,114.08	\$ 2,164,953.43	\$	2,410,067.51
2021	\$	287,890.81	\$ -	\$	287,890.81
2022	\$	306,868.20	\$ 619,133.85	\$	926,002.05
2023	\$	323,692.32	\$ 745,677.84	\$	1,069,370.16
Total		\$2,769,146.05	\$11,413,675.59	\$	14,182,821.64

The success of the repair program for your airport depends on the timely implementation of preservation, localized maintenance and repairs, and major rehabilitation work activities. If work is completed as scheduled, your airport will probably experience an improvement to the overall area-weighted average PCI. Though this analysis was performed with the assumption of an "unlimited budget", the purpose has been to identify specific projects over the course of 10-years for each pavement section where the condition is projected to fall below the critical PCI. The costs depicted in this study are intended to aid the airports in planning level budgets. Prior to construction work, it is recommended that the airport perform additional investigation at the design level to better estimate costs associated with the maintenance, repair, and major rehabilitation activity discussed.

1. INTRODUCTION

The State of Florida has more than 100 public airports that are vital to the Florida economy as well as the economy of the United States. The aviation system in Florida allows the State to capitalize on an increasingly global marketplace. Florida's system of commercial service and general aviation 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.

The Florida Department of Transportation (FDOT) Aviation and Spaceport Office implemented the Statewide Airfield Pavement Management Program (SAPMP) in 1992. In 2012, the FDOT Aviation and Spaceport Office selected a team led by Kimley-Horn and Associates, Inc. and including Peneul Consulting, LLC, Roy D. McQueen & Associates, LTD, and All About Pavements, Inc., to provide services in support of the Aviation and Spaceport Office Program Manager. The continued evaluation and update of the existing SAPMP is to be completed over fiscal years 2013 and 2014.

This 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 planning associated with the SAPMP 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.

1.1 Purpose of Pavement Evaluation Report

The purpose of this Airfield Pavement Evaluation Report is to:

- Describe, briefly, the SAPMP goals, procedures, and responsibilities of the program's participants.
- Provide a brief technical explanation on pavement management principles, standard practices, objectives, and benefits of implementation.
- Outline procedures used to coordinate, collect, evaluate and report pavement inspection results at this airport.
- Analyze and utilize condition results for the development of maintenance, repair, and major rehabilitation based on pavement performance trends.

1.2 FDOT Statewide Airfield Pavement Management Program

In 1992, the FDOT implemented the SAPMP to improve the knowledge of pavement conditions at public airports in the Florida Airports System, identify maintenance and rehabilitation needs at each airport, automate pavement infrastructure information management, and establish standards to address future 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 implementations and again during the 1998-1999 updates; the SAPMP performed the development of 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 (M&R) policies, M&R budget costs, and the development of recommendations for performing routine pavement preservation 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 update included the review of the AIRPAV software compared to other industry available non-proprietary software packages. As a result of this review, MicroPAVER was selected for implementation of the system update. MicroPAVER was developed by the U.S. Army Corps of Engineers Construction Engineering Research Laboratory for the purpose of 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 facility, classification, type, history, geometry, 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 2006-2008, 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 2010-2012, the SAPMP was updated using new GPS integrated technology to digitally collect pavement distress data. Interactive GIS map files were developed from updated Airfield Pavement Network Definition Maps 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.

Currently, airports participating in the Airport Improvement Program (AIP) Grant Program are required by the Federal Aviation Administration (FAA) to develop and implement a pavement maintenance program to be eligible for funding (FAA Advisory Circular 150/5380-6B Guidelines and Procedures for Maintenance of Airport Pavements). This program requires detailed inspection of airfield pavement conditions by trained personnel. The inspections are required to be performed at least once a year or every three years, if the pavement is inspected in accordance to the PCI survey procedure (such as ASTM International D 5340 Standard Test Method for Airport Pavement Condition Index Surveys). The previous 2010-2012 SAPMP update utilized the ASTM D 5340-04 released in 2004, in lieu of the 2010/2011 edition, in order to maintain consistent database integrity and benefit of pavement performance models from previous inspections.

1.3 Organization

FDOT Aviation and Spaceport Office Program Manager

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

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

Consultant

The Consultant, Kimley-Horn and Associates, Inc. and their team consisting of Peneul Consulting, LLC, Roy D. McQueen & Associates, LTD, and All About Pavements, Inc. provide technical and administrative assistance to the AO-PM during the execution of the update to the SAPMP. The efforts include updating the airport pavement inventory data, performing the condition survey inspections, evaluating the airfield pavement conditions and updating the SAPMP based upon procedures outlined in the FAA Advisory Circular 150/5380-6B Guidelines and Procedures for Maintenance of Airport Pavements and ASTM D 5340.

Airport Role

The airports are the ultimate client for each condition survey inspection performed at their respective airfields as part of the SAPMP. The individual airports will be provided final deliverables prepared by the Consultant that have been reviewed and approved by the AO-PM. The airport should provide a current Airport Layout Plan (ALP) to the Consultant and, if they participated in the previous SAPMP, indicate any construction activity that has been performed since the previous inspections.

FDOT District Offices

The seven FDOT District Offices, specifically the Aviation Representatives, provide vital support to the SAPMP update and the AO-PM. Each District supports the SAPMP's on-going efforts of provided representative construction trend costs and practices through the Florida Airports System. Each District Office receives copies of individual Airfield Pavement Evaluation Reports for the airport facilities located within their respective districts.

1.4 Introduction to Pavement Types and Pavement Management

Pavement Basics

A pavement is a prepared surface designed to provide a continuous smooth ride at all taxi, takeoff, and landing speeds and to support an estimated amount of traffic loading for a certain number of years. Pavements are composed of a combination of constructed layers of subgrade soils, subbases, base course material, and surface level courses. There are mainly two types of pavements:

- Flexible Pavement, a composition of bituminous asphalt concrete (AC) surface, base, and subbase layers.
- Rigid Pavement, a composition of Portland Cement Concrete (PCC) surface, base, and subbase layers.

Both pavement types use a combination of layered materials and thicknesses in order to support the traffic loads (both magnitude and repeated application) and protect the underlying subgrade soil. Flexible pavements dissipate applied loads from layer to layer until the load magnitude is small enough to be supported by the subgrade soil. In rigid pavements, the PCC layer supports the majority of the structural load applied, and the base or subbase layer is constructed to provide a smooth, level, and continuous platform that provides uniform support for PCC slabs.

A small percentage of airfield pavements within the Florida Airports System are composed of hybrid 'composite pavement' sections that may include both AC pavement and PCC pavement. The two known composite pavements are AC surface over PCC (APC) and PCC over AC (White Topping).

Due to the different nature of the pavement types, construction, and their materials; flexible and rigid pavements have different modes of failure and fatigue. This results in varying deterioration and distress development. Understanding the mechanics and modes of failure of the pavement types will assist the engineers in making timely, adequate, consistent, and economical maintenance repairs and major rehabilitation to the pavement structures at each airfield.

The Concept of an Airfield Pavement Management System

The SAPMP is a program that provides the Florida Airports System an opportunity to implement and/or maintain a proactive Airfield Pavement Management System (APMS) in a consistent manner at a regular schedule. The SAPMP Airfield Pavement Management System consists of pavement inventory, pavement construction and history, condition survey inspections, pavement performance modeling, maintenance recommendations, and major rehabilitation planning. The various elements of the APMS are used by experienced engineers to identify critical pavement preservation pavements, make or rehabilitation recommendations, and approximate pavement performance. The APMS as a whole is used by an airport's stakeholders, managing agencies, engineers, and planners as a tool in decision making for future project planning, budgeting, and scheduling of activities for its airfield pavement infrastructure.

A benefit of an active APMS is it provides an understanding of an airport's pavement performance trends for the purpose of project planning. Based on the performance trend of their pavements, an airport can schedule pavement maintenance and rehabilitation prior to when the pavement section has deteriorated to a condition that would require reconstruction. The use of pavement performance trends will help airports plan M&R and Rehabilitation projects in a manner and sequence that maximizes benefit and minimizes costs. Figure 1-1, which is based upon the FAA Advisory Circular 150 5380-7A Airport Pavement Management Program, illustrates how pavement generally deteriorates over time and the relative cost of rehabilitation and reconstruction throughout its life.



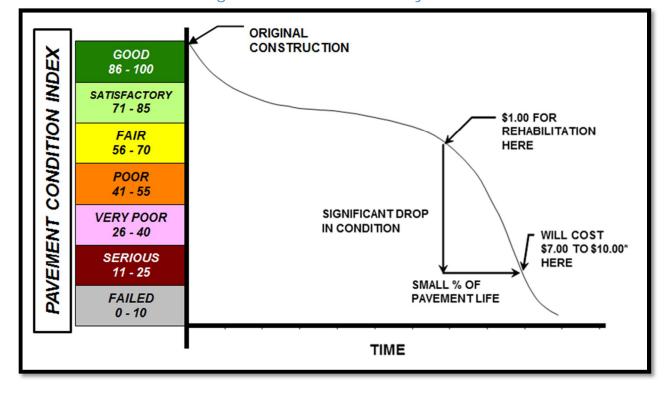


Figure 1-1: Pavement Life Cycle

Source: FAA Advisory Circular 150 5380-7A Airport Pavement Management Program

Note that during approximately the first 75% of a pavement's life, it performs relatively well. After that, however, it begins to deteriorate rapidly. The number of years a pavement stays in 'Good' and 'Satisfactory' conditions depends on how well it is proactively maintained. As the Figure 1-1 demonstrates, the cost of maintaining the pavement above critical condition before rapid deterioration occurs is much less compared to maintaining pavements after substantial deterioration has occurred.

Pavements tend to deteriorate at an accelerated rate when actual traffic loading exceeds the original design assumptions and when limited resources are available for maintenance and repair (M&R) efforts. Planned maintenance and rehabilitation, essentially preserving pavements and delaying condition deterioration, help airport (managers, agencies, and engineers) maximize the use of their budgets and prolong the life of their pavements. An APMS provides a tool to schedule planned maintenance and major rehabilitation efforts based on a consistent methodology of condition assessment. This consistent methodology of pavement condition assessment allows for the development of pavement performance models to help forecast future pavement conditions.

Part of the implementation of the APMS is the clear identification and inventorying of pavement infrastructure that needs to be managed specifically within the airport (owner, manager, and agencies) responsibility. Another aspect of the APMS is development of maintenance, repair, and major rehabilitation policies that align with the expectations of pavement performance and are based on ability to fund the types of work identified. Once there is an understanding of the cause and extent of pavement distresses, appropriate maintenance and rehabilitation can be planned. By using representative construction costs based on historic bid trends; planning level budget costs can be developed on a multiyear duration.

Airfield Pavement Inspection Methodology for the SAPMP

Pavement condition assessment requires the application of professional judgments regarding the condition of the pavement. The SAPMP airfield pavement condition survey inspections assess pavement, comparing it to a set of standards in ASTM D 5340-11. As part of this update, SAPMP has adopted the changes made in updates to ASTM D 5340-11. These include the separation of Weathering and Raveling into two distinct flexible pavement distresses, and the addition of the Alkali-Silica Reactivity distress for rigid pavement distresses. The change in distress classification, as described in ASTM D 5340-11, may result in small variances in the PCI values from the previous inspection analysis.

The pavement condition surveys assess the functional condition of the pavement surface based on surface distresses as defined by the ASTM D 5340-11. Typically, deficiencies within a pavement structure will eventually reflect to the pavement surface as distresses described within ASTM D 5340-11. The SAPMP is specifically a visual evaluation and analysis based on the ASTM D 5340-11. The structural condition and relative support of the pavement layers can be directly quantified using non-destructive deflection testing (NDT) as well as other indepth engineering evaluation or sampling and testing methods.

For the SAPMP update, only visual surveys were performed. Further structural and geotechnical testing should be conducted to determine design level rehabilitation and/or reconstruction needs should the airport proceed to the design process.

In preparation for the PCI survey inspections, the airfield pavements for each airport are divided into branches, sections, and sample units as established by FAA Advisory Circular 150/5380-6B and ASTM D 5340. Further discussion of the process of inventorying and categorizing pavement facilities by use,

composition, and history can be found in SECTION 2 AIRFIELD PAVEMENT NETWORK DEFINITION and PAVEMENT INVENTORY.

Sample units are uniformly divided areas of pavement that are defined for inspection. Sample unit sizes are approximately $5,000 \pm 2,000$ square feet for flexible AC pavements and 20 ± 8 slabs for rigid PCC pavements. Prior to conducting the field condition survey inspections, the sampling plan was developed for the airfield pavements based on updates to the previous inspection sampling based on the available knowledge of construction updates. The sample rate adopted for the SAPMP is depicted on Table 1-1.

Table 1-1: Sampling Rate Schedule for SAPMP PCI Survey Inspections

Flexible Pavements Asphalt Concrete						
Number of Sample Units in Section	Number of Sample Units to Inspect Runway Aprons, 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	20% but ≤ 20	10% but ≤ 10				

Rigid Pavements Portland Cement Concrete					
	Number of Sai	mple Units to Inspect			
Number of Sample Units in Section	Runway	Taxiways, Aprons, 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	20% but ≤ 20	10% but ≤ 10			

The sample units to be inspected were determined through a systematic random sampling technique to provide an unbiased representation of sample units for each pavement facility. The sample unit locations had been determined in such a way that they are distributed evenly throughout each defined pavement section area. In certain cases when no representative distresses are observed in the field, additional sample units were added.

The distress quantities and severity levels from each inspected sample unit are used to compute the PCI value and rating for each Section using the ASTM D 5340-11 and MicroPAVER software. Figures 1-2 and 1-3 depict graphical representations of the color ranges associated with PCI values and ranges with

a photograph of airfield pavement that exhibited the conditions for both flexible and rigid pavements respectively.

REPRESENTATIVE PAVEMENT SURFACE REPAIR PCI PCI **ACTIVITIES** ROUTINE MAINTENANCE Pavements with PCI indexes above 85, or 'Good' may require periodic 86 - 100 90 joint/crack sealing and local patching. PAVEMENT PRESERVATION Pavements with PCI conditions ranging from 'Satisfactory' to 'Good' 70 65 - 85 may require surface treatments (seal coat), thin overlays, and/or joint/crack sealing. MAJOR REHABILITATION Pavements that have deteriorated below a PCI 64, or within the range 40 40 - 64 of 'Poor' to 'Fair' conditions may require major rehabilitation such as pavement mill and overlay or PCC restoration activity. MAJOR REHABILITATION 15 may require major reconstruction.

Figure 1-2: Flexible Pavement, Asphalt Concrete

REPRESENTATIVE PAVEMENT SURFACE REPAIR PCI PCI **ACTIVITIES** ROUTINE MAINTENANCE Pavements with PCI indexes above 85, or 'Good' may require periodic 90 86 - 100 joint/crack sealing and local patching. PAVEMENT PRESERVATION Pavements with PCI conditions ranging from 'Satisfactory' to 'Good' 65 - 85 70 may require surface treatments, patches, and/or joint/crack sealing. MAJOR REHABILITATION Pavements that have deteriorated below a PCI 64, or within the range 40 40 - 64 of 'Poor' to 'Fair' conditions may require major rehabilitation such as Slab replacement and PCC restoration activity. MAJOR REHABILITATION 15

Figure 1-3: Rigid Pavement, Portland Cement Concrete

Using the ASTM D 5340-11 standard seven qualitative ranges, the SAPMP provides a PCI value and a standard qualitative condition rating for the pavement facilities inspected.

AIRFIELD PAVEMENT NETWORK DEFINITION AND PAVEMENT INVENTORY

Merritt Island Airport (COI) is located in Merritt Island, Florida, in Brevard County. It is owned and operated by the Titusville-Cocoa Airport Authority. The Airport is solely served by Runway 11-29, which is 75-ft wide by 3,601-ft long. The runway is served by parallel Taxiways Alpha and Bravo. Aprons are located on the northwest and southwest areas of the property. The Airport features aircraft charter services, banner towing, flight training, aircraft avionics service and aircraft maintenance and sales. It is designated a General Aviation airport and is located in District 5 of the Florida Department of Transportation.

It is important to note that the aforementioned runway data in addition to the remaining airfield pavement facilities geometric attributes may vary slightly from the geometry used in the condition exhibit in Appendix B and the major rehabilitation exhibit in Appendix F based on field measurements.

Merritt Island Airport was established in the early 1940's as the Central Brevard Airport by the Brevard County Mosquito Control District. The district later deeded the Airport to the Titusville-Cocoa Airport Authority. Central Brevard Airport was later renamed Merritt Island Airport and became a public general aviation facility.

2.1 Network Definition

The airfield pavements within each airport network are separated into manageable units within the FDOT SAPMP MicroPAVER database system, organizing pavement data by similar use and constructive history.

Branch and Section Identification

Each airport's airfield pavement network is generally subdivided into separate Branches (runways, taxiways, aprons/ramps, or others) that have distinctly different functional identifications and uses. Each Branch is further subdivided into Sections as defined by pavement location, composition, and construction history. A Section is typically understood to be a project level subdivision within a Branch feature. Sections are manageable units to organize data collection and are treated individually during the maintenance and major rehabilitation planning process. A pavement rank (primary, secondary, or tertiary) is assigned to each Section based on its importance and type of use to airport operations. The pavement rankings designated for each section at this airport were defined

by the previous SAPMP, unless changes were communicated by the airport. These Sections are further subdivided into condition survey sample units based on the methodology described in ASTM D 5340.

Airfield Pavement System Inventory and Network Definition Update

The Airfield Pavement System Inventory and Airfield Pavement Network Definition Exhibits are developed individually for each participating airport. Based on information requested of and provided by the airport, the airfield pavements are evaluated on designation updates, and recent or anticipated pavement construction activity. As mentioned previously, a Section is defined partially by its construction history; this variable that factored in the performance and condition of the pavement section.

The Airfield Pavement System Inventory Exhibit, Figure A-2 in Appendix A, is a snapshot of recent and anticipated airfield pavement construction activity communicated by the airport since the last SAPMP update. Construction identified include maintenance activities and repair activity, rehabilitation, and airfield pavement expansion efforts. Maintenance and repair activity may include; surface treatments, crack sealing, patching, slab replacement, and others. Both maintenance and rehabilitation activities are identified at the pavement section level. This type of work may result in an increase in overall Section PCI since the last inspection. Major rehabilitation efforts may include; asphalt milling and overlay, and full depth pavement reconstruction. This type of effort will result in a resetting of the pavement section PCI value to 100 due to the nature of the work. Lastly, airfield pavement expansions are accounted for as new inventory and assigned a section PCI of 100. Typically the new pavement sections are not inspected due to its condition; however these pavements are incorporated into the SAPMP pavement database. When possible, these changes are reflected in the Airfield Pavement Network Definition Exhibit, in Appendix A, prior to the field inspection. The updates are typically discussed and confirmed with airport personnel at the beginning and end of condition survey inspections to ensure accuracy.

The Airfield Pavement Network Definition Exhibit depicts the airport's pavement limits with Branch and Section delineations. This exhibit also includes the subdivision on Section areas into sample units and is used to identify those sample units that are to be inspected. The previous SAPMP Airfield Pavement Network Definition Exhibits were used as a base. Updates and information provided by each airport was reviewed and the exhibits were revised

appropriately. Characteristics that are considered include; airfield configuration, branch designations (magnetic declination, Airport Layout Plan updates) and pavement composition. The exhibit serves not only as a primary guide for the airfield inspectors but also allows specific distresses found in the re-inspection report to be geographically located.

Due to recent and anticipated construction efforts; pavement area sections may have been consolidated and created which will affect the total number of sample units to be inspected based upon the methods described in ASTM D 5340 and from the sampling rate schedule. Table 2-1 summarizes the recent and anticipated airfield pavement construction efforts communicated by the airport.

Table 2-1: Recent and/or Anticipated Airfield Pavement Construction

Construction Year	Section Location	Work Type/Pavement Section
2011	NORTH APRON	NEW ASPHALT PAVEMENT / NEW PORTLAND CEMENT CONCRETE PAVEMENT

Airfield Pavement Network Definition & Geographic Information System (GIS)

As part of this SAPMP update, geographic information system (GIS), global positioning system (GPS), and digital data collection were integrated into the Pavement Inspection Methodology at each airport. Using AutoCAD Civil 3D, ArcMap, ArcPad, and FDOT Survey and Mapping Office Aerial Photography; digital navigation maps have been developed for each airport to represent the SAPMP pavement inventory attributes. These navigation maps were used with field data tablets to assist survey teams as they performed condition inspections by navigating pavement infrastructure and collecting distress data.

2.2 Pavement Inventory

The detailed pavement inventory database was updated to reflect the Airfield Pavement Network Definition Exhibit, in Appendix A, updates and field inspection results. Table 2-2 and Figure 2-1 provides a summary of the pavement inventory attributes at Merritt Island Airport-(COI) for this SAPMP update.

Table 2-2: Pavement Inventory Summary

Airfield Pavement Network Definition						
Number of Branches	14					
Number of Sections		29				
Sample Units		58				
Airfield	Pavement l	Jse				
Use	Area (SF)	Relative Area (%)				
Runway	270,225	23%				
Taxiway	252,812	21%				
Apron	665,866	56%				
Total =	1,188,903	100%				
Airfield I	Pavement T	ype				
Туре	Area (SF)	Relative Area (%)				
Asphalt Concrete (AC)	63,072	5%				
Asphalt Overlay (AAC)	1,120,607	94%				
Portland Cement Concrete (PCC)	5,225	1%				
AC over PCC (APC)	0	0%				



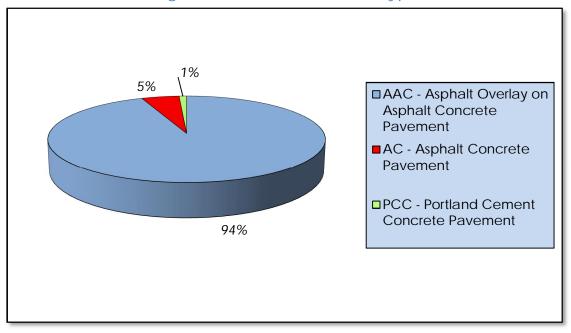


Figure 2-1: Airfield Pavement Type

Specific details to each Branch and Section such as; name, geometry, age, rank, surface type, and construction history are provided in Table 2-3.

Branch Name	Branch ID	Section ID	True Area (SF)	Section Rank	Surface Type	Last Const. Date	Total Samples Inspected	Total Samples
RUNWAY 11-29	RW 11-29	6105	270,225	Р	AAC	1/1/2002	15	72
RUN-UP APRON AT RW 29	AP RU RW29	5105	14,226	Р	AAC	1/1/2002	1	3
SW APRON	AP SW	4310	10,214	Р	AC	1/1/2003	1	2
SW APRON	AP SW	4305	37,682	Р	AC	1/1/2003	1	7
NORTH APRON	AP N	4230	42,203	Р	AAC	1/1/2005	1	7
NORTH APRON	AP N	4225	26,238	Р	AAC	1/1/2005	1	4
NORTH APRON	AP N	4220	33,609	Р	AAC	1/1/2005	1	6
NORTH APRON	AP N	4218	48,875	Р	AAC	1/1/2005	2	12
NORTH APRON	AP N	4215	139,109	Р	AAC	1/1/2005	4	34
NORTH APRON	AP N	4205	24,860	Р	AAC	1/1/2005	1	8
NORTH APRON	AP N	4203	2,202	Р	PCC	1/1/1990	1	1
NORTH APRON	AP N	4202	3,023	Р	PCC	1/1/2011	1	1
SOUTH APRON	AP S	4115	89,396	Р	AAC	1/1/1996	3	19
SOUTH APRON	AP S	4111	13,470	Р	AAC	1/1/1996	1	2

Branch Name	Branch ID	Section ID	True Area (SF)	Section Rank	Surface Type	Last Const. Date	Total Samples Inspected	Total Samples
SOUTH APRON	AP S	4110	63,200	Р	AAC	1/1/1996	2	14
SOUTH APRON	AP S	4106	19,960	Р	AAC	1/1/1996	1	4
SOUTH APRON	AP S	4105	97,600	Р	AAC	1/1/1996	3	21
TAXIWAY A4	TW A4	605	5,387	Р	AC	1/1/2002	1	1
TAXIWAY A3	TW A3	505	4,513	Р	AAC	1/1/2002	1	1
TAXIWAY B2	TW B2	410	4,298	Р	AAC	1/1/2005	1	1
TAXIWAY A2	TW A2	405	4,513	Р	AAC	1/1/2002	1	1
TAXIWAY B1	TW B1	315	4,046	Р	AAC	1/1/2005	1	1
TAXIWAY A1	TW A1	305	10,739	Р	AAC	1/1/2002	1	2
TAXIWAY B4	TW B4	216	5,450	Р	AAC	1/1/2005	1	2
TAXIWAY B	TW B	210	57,150	Р	AAC	1/1/2005	3	19
TAXIWAY B	TW B	205	12,750	Р	AAC	1/1/2005	1	4
TAXIWAY B	TW B	203	9,788	Р	AC	1/1/2011	1	3
TAXIWAY A	TW A	110	9,043	Р	AAC	1/1/2002	1	2
TAXIWAY A	TW A	105	125,133	Р	AAC	1/1/2002	5	36

Note: If new construction, then survey date = last construction date and PCI is set to 100 by MicroPAVER.

* Sections not surveyed due to reasons such as re-sectioning, no escort, not accessible at the time of survey.

3. AIRFIELD PAVEMENT CONDITION

Airfield pavement distresses and condition were surveyed in accordance with the methods outlined in FAA Advisory Circular 150/5380-6B and ASTM D 5340-11. 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.

The program has been updated from ASTM D 5340-04, released in 2004, to ASTM D 5340-11, released in 2011, for this SAPMP update. The primary updates include the separation of certain distress types and the addition of new types with corresponding changes to PCI calculation. These changes in distress classification may result in small variances in the PCI values from the previous inspection analyses.

3.1 Inspection Methodology

A pavement condition survey inspection is performed by measuring the amount and severity of defined pavement distresses observed within the boundaries of sample units. These distresses, as defined by ASTM D 5340, are generally caused by traffic fatigue loading, exposure to climate and elements, and other airfield specific factors. This data is collected by field personnel experienced in pavement condition survey inspection. Data collection is then transferred into the FDOT MicroPAVER database system. MicroPAVER is used to calculate PCI values using the methodology described in ASTM D 5340-11. The values are calculated for each sample and extrapolated on a Section level to determine an area-weighted PCI value ranging from 0 to 100 and one of seven condition ratings. Tables 3-1 and 3-2 describe the distresses as defined by the ASTM D 5340-11 and adopted for the SAPMP procedures.

Table 3-1: Airfield Pavement Distresses for Asphalt Concrete

Code	Distress	Primary Mechanisms	
41	Alligator Cracking	Load / Fatigue Failure	
42	Bleeding	Construction Quality/ Mix Design	
43	Block Cracking	Climate / Age	
44	Corrugation	Load / Construction Quality	
45	Depression	Subgrade Quality	
46	Jet Blast	Aircraft	
47	Joint Reflection - Cracking	Climate / Prior Pavement	
48	Longitudinal/Transverse Cracking	Climate / Age	
49	Oil Spillage	Aircraft / Vehicle	
50	Patching	Utility / Pavement Repair	
51	Polished Aggregate	Repeated Traffic Loading	
52	Raveling	Climate / Load	
53	Rutting	Repeated Traffic Loading	
54	Shoving	PCC Pavement Growth / Movement	
55	Slippage Cracking	Load / Pavement Bond	
56	Swelling	Climate / Subgrade Quality	
57	Weathering	Climate	

Source: U.S. Army CERL, FDOT Airfield Inspection Reference Manual

Table 3-2: Airfield Pavement Distresses for Portland Cement Concrete

Code	Distress	Primary Mechanisms		
61	Blow-up	Climate / Alkali Silica Reaction		
62	Corner Break	Load Repetition / Curling Stresses		
63	Linear Cracking	Load Repetition / Curling Stresses / Shrinkage Stresses		
64	Durability Cracking	Freeze-Thaw Cycling		
65	Joint Seal Damage	Material Deterioration / Construction Quality		
66	Small Patch	Pavement Repair		
67	Large Patch/Utility Cut	Utility / Pavement Repair		
68	Popout	Freeze-Thaw Cycling		
69	Pumping	Load Repetition / Poor Joint Sealant		
70	Scaling/Crazing	Construction Quality / Freeze- Thaw Cycling		
71	Faulting	Load Repetition / Subgrade Quality		
72	Shattered Slab	Overloading		
73	Shrinkage Cracking	Construction Quality / Load		
74	Joint Spalling	Load Repetition / Infiltration of Incompressible Material		
75	Corner Spalling	Load Repetition / Infiltration of Incompressible Material		
76	Alkali-Silica Reaction	Construction Quality / Climate		

Source: U.S. Army CERL, FDOT Airfield Inspection Reference Manual

3.2 Airfield Pavement Condition Index Rating Results

From the condition survey inspection performed in 2013 at Merritt Island Airport, the overall weighted average PCI value is 61 representing a condition rating of FAIR.

The airport's airfield pavements exhibited distresses typically associated with climate, age, and subgrade quality based distresses. The predominant AC and AAC pavement distresses observed include: weathering, raveling, longitudinal/transverse cracking, block cracking, and depression. Predominant PCC distresses include longitudinal/transverse/diagonal cracking, map cracking, and joint spalling.

Runway 11-29 exhibited a pavement condition index of 69. Generally, the pavements are in Fair condition. Pavements on Runway 11-29 exhibited low severity longitudinal/transverse cracking, low severity raveling, and low severity weathering. These are climate and age based distresses.

The remaining taxiways and aprons exhibited a range of conditions. The South Aprons exhibited pavement condition indices ranging from 20-28. The application of a slurry seal in the recent past has exacerbated existing block cracking and raveling. The North Apron and parallel taxiways are generally in Satisfactory condition. Distresses on the parallel taxiways include low severity longitudinal/transverse cracking; low and medium severity raveling, low severity weathering, and low severity depression. These are age, climate, and subgrade quality related distresses.

Appendix B contains Table B-1 and an Airfield Pavement Condition Index Rating Exhibit, Figure B-1, which depicts the PCI results by Section, and Appendix C contains MicroPAVER reports of PCI results by Branch and Section. Appendix H includes detailed distress data generated by MicroPAVER for each inspected sample unit.

The pavement condition at Merritt Island Airport is represented in Figure 3-1 in accordance with the condition categories and PCI scale referenced in ASTM D 5340. Further detail is provided in Table 3-3 which describes the breakdown of the airport's airfield conditions according to area and use.

Appendix B contains Table B-1 summarizes the Section Condition values and the Airfield Pavement Condition Index Rating Exhibit, Figure B-1, that depicts the PCI results by Section. Appendix H is dedicated to the reporting of the specific airfield pavement distress data collected at the time of the inspection for this update.

Figure 3-1: Airfield Pavement Condition Index Rating Summary

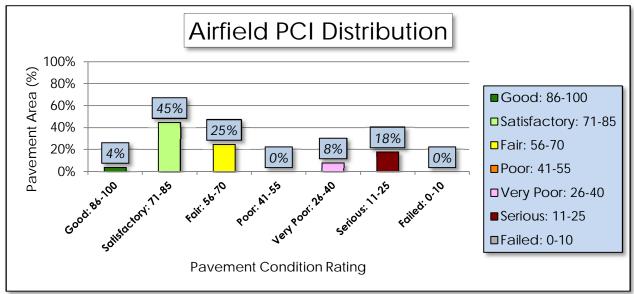


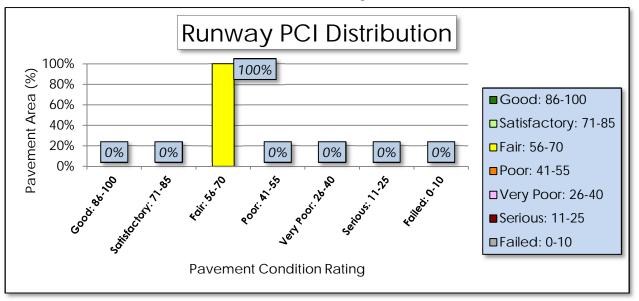
Table 3-3: Pavement Condition Index Rating Summary

Airfield Pavement Use						
Use	Average Area- Weighted PCI	Condition Rating				
Runway	69	FAIR				
Taxiway	76	SATISFACTORY				
Apron	53	POOR				
Condition Area						
Condition Rating	Area (SF)	Relative Area (%)				
Good	50,494	4%				
Satisfactory	529,963	45%				
Fair	299,962	25%				
Poor	-	0%				
Very Poor	97,600	8%				
Serious	210,886	18%				
Failed	-	0%				

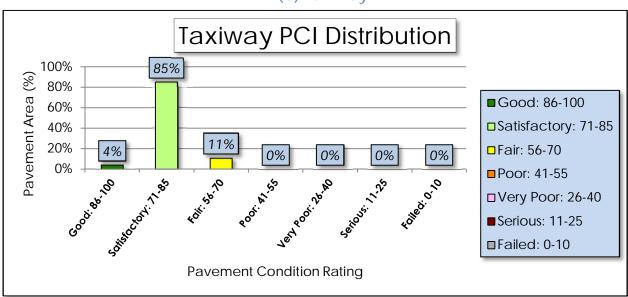
Approximately 49% of the airfield network is in Good and Satisfactory condition; while 26% of the network is in a Poor to Serious condition. Table 3-3 provides a breakdown of total area for each pavement by condition rating. Figures 3.2 a, b, c depict the condition rating of the airfield pavement by Branch Use. Photographs taken during the condition survey inspection are included in Appendix G. The photographs included are intended to be representative of the distress observed.

Figure 3-2: Percentage of Pavement Area by Condition Rating by Use

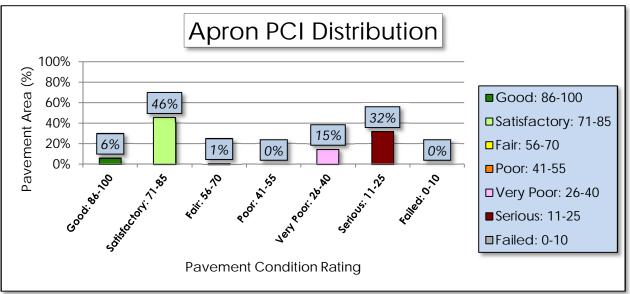
(a) Runway



(b) Taxiway



(c) Apron



PAVEMENT PERFORMANCE

Pavement performance models are developed from the distress data collected for the SAPMP for the Florida Airports System. This data is consolidated in a database and organized by inspection date, pavement type, age, pavement use, and airport category. The pavement performance models are used to develop broad prediction models, also known as pavement condition deterioration curves.

The consolidation of the Florida Airports System's pavement infrastructure within the FDOT SAPMP is based on data that have been collected in a consistent method of measurement. The historic pavement condition, or performance trend, has been compiled throughout the system with data from the inception of the SAPMP. This data is processed into models that have been analyzed and developed into prediction curves based upon pavement characteristics. These characteristics include; climate, construction material, and operations. Each model has been developed based on the following criteria:

AIRPORT TYPE (Primary, Regional Reliever, or General Aviation)

>FACILITY USE (Runway, Taxiway, or Apron)

>>FACILITY SURFACE TYPE (AC, AAC, APC, or PCC)

The historic trends of pavement performance at Florida airport facilities for all performance models are consolidated within the program database. This information is utilized in the prediction of pavement performance based on the current PCI determined from the inspections that took place between 2013 and 2014. Major rehabilitation is planned based on the predicted PCI. The intent of this is for both the individual airport and the FDOT District personnel to be aware of anticipated major rehabilitation work based on condition.

Each airport's airfield pavement section condition, for a given inspection year, is one data point that was used as the basis of each performance trend using a performance model based on pavements of similar background. Figures 4-1, 4-2, and 4-3 represent the pavement performance prediction at Merritt Island Airport based on pavement use. Each figure depicts the FDOT recommended Minimum Service Level PCI value for each pavement type.

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Figure 4-1: Runway Pavement Performance Prediction Summary

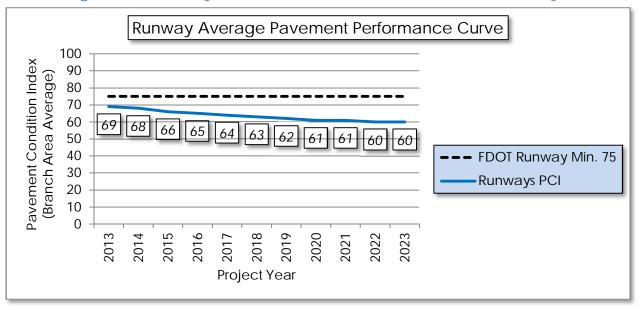
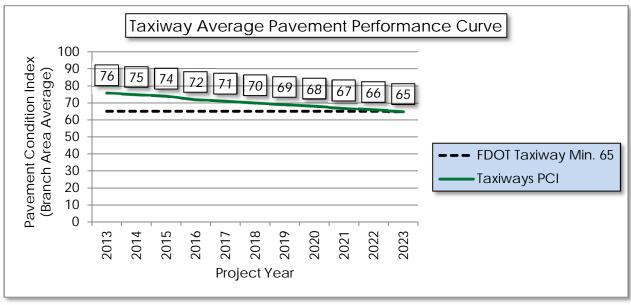


Figure 4-2: Taxiway Pavement Performance Prediction Summary





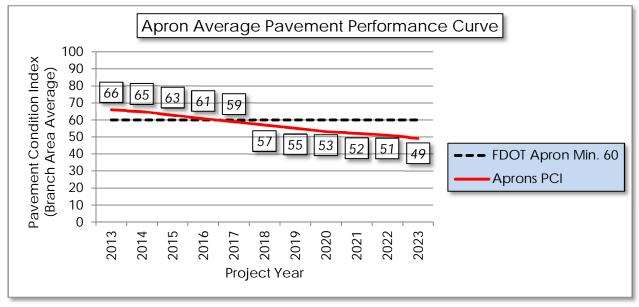


Figure 4-3: Apron Pavement Performance Prediction Summary

Pavement performance modeling to predict the future PCI is primarily done to predict PCI at the Section level for the purpose of planning Major Rehabilitation work. In Appendix D, Table D-1 represents the predicted area-weighted PCI by Section for the airport's airfield pavement infrastructure.

5. AIRFIELD PAVEMENT MAINTENANCE POLICIES AND COSTS

5.1 Policies

Airfield Pavement Maintenance policies are guidance on pavement construction methods used to develop, maintain, repair, and rehabilitate pavement infrastructure based on distresses encountered during the condition surveys.

Maintenance refers to the repair and preservation-type activities that are applied locally to specific distress types on the pavement. These activities for the SAPMP are considered preventative and corrective in nature and are highly recommended to help improve pavement performance and extend pavement life. The SAPMP maintenance policies are based on the FAA Advisory Circular 150/5380-6B and guidance provided in the FDOT Airfield Pavement Repair Manual.

For the purpose of the SAPMP; the maintenance repair needs that are identified and quantified are based solely on the pavement distresses observed and recorded at the time of the inspection. Based on a specific distress type and severity observed, a particular repair work type is recommended and quantified based on the extrapolated section distresses. The repair program identified is specific to the current distresses. Future maintenance planning budgets are based on this initial determination. Tables 5-1 and 5-2 provide the list of maintenance activities incorporated into the SAPMP MicroPAVER database to treat specific distress types and severities.

Table 5-1: Recommended AC, AAC, and APC Maintenance and Repair Policy

Surface Type	Distress Code	Distress Name	Severity	Maintenance Work Type	Work Unit	
	41	Alligator Cracking	L, M, H	Full Depth Pavement Patch	Square Feet	
	42	Bleeding	N/A	Partial Depth Pavement Patch	Square Feet	
	43	Block Cracking	L	Seal Coat Treatment	Square Feet	
	43	Block Cracking	M, H	Full Depth Pavement Patch	Square Feet	
	44	Corrugation	L, M, H	Full Depth Pavement Patch	Square Feet	
	45	Depression	L, M, H	Full Depth Pavement Patch	Square Feet	
	46	Jet Blast Erosion	L, M, H	Full Depth Pavement Patch	Square Feet	
	47	Joint Reflection Cracking	L	Crack Sealing	Linear Feet	
Φ	47	Joint Reflection Cracking	M, H	M, H Full Depth Pavement Patch		
ncret C)	48	Longitudinal/Transverse Cracking	L, M, H	Crack Sealing	Linear Feet	
Flexible Asphalt Concrete (AC, AAC, APC)	49	Oil Spillage	L, M	Seal Coat Treatment	Square Feet	
Asph. C, AA	49	Oil Spillage	Н	Full Depth Pavement Patch	Square Feet	
exible (A	50	Patch and Utility Patching	М	Crack Sealing	Linear Feet	
FI ₆	50	Patch and Utility Patching	H Full Depth Pavement Pate		Square Feet	
	51	Polished Aggregate	L, M, H	Slurry Seal Coat Treatment	Square Feet	
	52	Raveling	L, M	Slurry Seal Coat Treatment	Square Feet	
	52	Raveling	Н	Partial Depth Pavement Patch	Square Feet	
	53	Rutting	L, M, H	Full Depth Pavement Patch	Square Feet	
	54	Shoving	L, M, H	Grinding / Removal	Square Feet	
	55	Slippage Cracking	L, M, H	Full Depth Pavement Patch	Square Feet	
	56	Swelling	M, H	Full Depth Pavement Patch	Square Feet	
	57	Weathering	M, H	Seal Coat Treatment	Square Feet	

Table 5-2: Recommended PCC Maintenance and Repair Policy

Surface Type	Distress Code	Distress Name	Severity	Maintenance Work Type	Work Unit
	61	Blowup	L, M, H	Slab Replacement / Full Depth Patch	Square Feet
	62	Corner Break	L, M, H	Partial Patch - PCC	Square Feet
	63	Longitudinal/Transverse/Diagonal Cracking	Н	Crack Sealing - PCC	Linear Feet
	64	Durability Cracking	M, H	Slab Replacement / Full Depth Patch	Square Feet
	65	Joint Seal Damage	L, M, H	Joint Seal Repair (Local)	Linear Feet
	66	Patching, Small	M, H	Slab Replacement / Full Depth Patch	Square Feet
Rigid Pavement (PCC)	67	Patching, Large	M, H Slab Replacemer / Full Depth Patch		Square Feet
igid P.	68	Popouts	L	Crack Sealing - PCC	Linear Feet
α.	69	Pumping	L, M, H	Slab Stabilization / Slab Jacking	Square Feet
	70	Scaling/Map Cracking/Crazing	L, M	Micro-mill and Seal - PCC	Square Feet
	70	Scaling/Map Cracking/Crazing	Н	Slab Replacement / Full Depth Patch	Square Feet
	71	Settlement / Faulting	L	Micro-mill and Seal - PCC	Square Feet
	71	Settlement / Faulting	M, H	Slab Stabilization / Slab Jacking	Square Feet
	72	Shattered Slab	L, M, H	Slab Replacement / Full Depth Patch	Square Feet

Surface Type	Distress Code	Distress Name	Severity	Maintenance Work Type	Work Unit
	73	Shrinkage Cracks	N/A	Crack Sealing - PCC	Linear Feet
	74	Longitudinal/Transverse Joint Spalling	L, M, H	Partial Patch - PCC	Square Feet
	75	Corner Spalling	L, M, H	Partial Patch - PCC	Square Feet
	76	Alkali-Silica Reaction	L	Seal Coat Treatment	Square Feet
	76	Alkali-Silica Reaction	M	Micro-mill and Seal - PCC	Square Feet
	76	Alkali-Silica Reaction	Н	Slab Replacement / Full Depth Patch	Square Feet

Though proactive pavement maintenance and preservation is highly recommended in an APMS; it is recognized that pavement that has deteriorated below a certain PCI will require a major rehabilitation rather than localized maintenance and repair work. Major rehabilitation is recommended when the pavement condition decreases below a critical point such that the deterioration is extensive or the rate of deterioration is so great that maintenance repair efforts are no longer cost-efficient. This critical point is called "Critical PCI". The critical PCI levels for different pavement and branch types were established by the FDOT and were used in this update to develop a maintenance and major rehabilitation plan for the airport. Sections that are above the "Critical PCI" levels will be recommended for maintenance, repair, and preservation treatments, assuming there are no significant load-related distresses. For those Sections below the Critical PCI, the recommended action will consist of major rehabilitation work. This approach is used for the current Section's PCI value and the predicted PCI value for future rehabilitation.

The FDOT has recommended minimum service level PCI for airports based on pavement facility use, airport type, and expected loading frequency. This minimum service level PCI is recommended to ensure the pavement provides a safe operational surface and efficiently uses maintenance and rehabilitation budgets. Separately, the Critical PCI is a value based on historic pavement performance trends and costs. It is at a PCI value of 65, for most airports, at which major rehabilitation is recommended over maintenance level efforts.



Table 5-3 identifies the FDOT recommended PCI by use and the critical PCI value for the most important pavements at the airport. This is due to the condition of the pavement and the cost effectiveness of the work. A very important concept of a good pavement management system is the proactive preservation of pavements that are above Critical PCI condition. Conversely, allowing pavement to deteriorate beyond maintenance and performing "worst first" major rehabilitation may cost much more over the life of a pavement.

Table 5-3: Critical and Minimum Service Level PCI for General Aviation Airports

Use	FDOT Recommended PCI	Critical PCI
Runway	75	65
Taxiway	65	65
Apron	60	65

Based on historic trends of pavement performance and industry standard practices in pavement maintenance and rehabilitation, the SAPMP included general guidance on construction activity based on condition PCI, as shown on Table 5-4. It is recommended that further investigation of underlying pavement conditions is performed at the design phase.

Table 5-4: Maintenance and Major Rehabilitation Activity Based on PCI

Category	Activity	PCI Range
Maintenance	 Crack Sealing (AC/PCC) Partial Depth Patching (AC) Full Depth Patching (AC/PCC) Surface Treatment (AC) 	75 - 90
Rehabilitation	Mill and Overlay (AC)Concrete Pavement Restoration (PCC)	40 - 74
	Full Depth Pavement Reconstruction	0 - 39

The PCI standard scale ranges from a value of 0, typically representing a pavement in a failed condition, to a value of 100 which typically represents a pavement in new or good condition. Generally, airfield pavement sections with

a PCI of 75 or higher that are not exhibiting distresses due to aircraft loading will benefit from maintenance activities such as crack sealing, patching, and surface treatments. Pavement sections with PCI values within the range of 40 to 74 may require major rehabilitation, such as a mill and overlay. Lastly, pavement sections with a PCI value of 40 or less are recommended to undergo pavement reconstruction. Generally pavement reconstruction is the only practical means of restoration due to the substantial distresses observed in the pavement structure. Since PCI values are based solely on the visual determination of pavement distresses and deterioration, this method does not provide a direct measure of structural integrity.

5.2 Unit Costs

The FDOT SAPMP developed and updated the maintenance and major rehabilitation costs based on public cost databases for airport and highway pavement construction. Additionally, cost data collected from FDOT and FAA sponsored projects in the Florida Airports System were utilized to identify construction cost trends across the state.

The maintenance, repair, and preservation activity costs have been updated and developed using readily available construction cost data at the time of this update. The costs depicted in this report for both maintenance and major rehabilitation are intended for planning purposes.

5.3 Maintenance, Repair, and Major Rehabilitation

FDOT recognizes that although pavement mill and overlay is recommended for flexible asphalt concrete pavement within a PCI range from 40 to 74, it is conceivable that airports may not have adequate funding to perform this type of major rehabilitation. A comprehensive surface treatment; such as GSB-88 and Microsurfacing, as a maintenance rehabilitation activity, can be used in lieu of asphalt concrete pavement mill and overlay. However, it should be understood that these measures provide only a short term extension of pavement life. While the cost of surface treatments are significantly lower than that of pavement mill and overlay, it is not intended or implied to be a full rehabilitative measure for long term benefit. Table 5-5 and Table 5-6 provide budget costs associated with the work types shown in the table.

Table 5-5: AC Maintenance Unit Costs

Surface Type	Maintenance Work Type	Cost	Work Unit
4)	Full Depth Pavement Patch	\$5.00	Square Feet
. Concrete APC)	Partial Depth Pavement Patch	\$3.00	Square Feet
alt Co C, APC	Seal Coat Treatment	\$0.55	Square Feet
Asph .C, AA	Crack Sealing	\$2.75	Linear Feet
Flexible Asphalt (AC, AAC,)	Slurry Seal Coat Treatment	\$0.55	Square Feet
	Grinding / Removal	\$2.10	Square Feet

Table 5-6: PCC Maintenance Unit Costs

Surface Type	Maintenance Work Type	Cost	Work Unit
	Slab Replacement / Full Depth Patch	\$45.00	Square Feet
	Partial Patch - PCC	\$19.10	Square Feet
ment	Crack Sealing - PCC	\$4.25	Linear Feet
Rigid Pavement (PCC)	Joint Seal Repair (Local)	\$3.00	Linear Feet
Rigid	Slab Stabilization / Slab Jacking	\$45.00	Square Feet
	Micro-mill and Seal - PCC	\$1.00	Square Feet
	Seal Coat Treatment	\$1.00	Square Feet

As part of the SAPMP update, the distress data observed at each airport during the inspection is extrapolated on a section basis to make maintenance recommendations. These recommendations are a direct result of the distress types, severities, and quantities observed at the time of inspection. The

maintenance recommendations and planning costs are correlated with the airport's airfield pavement network's overall area weighted PCI and used to plan future maintenance costs. Future maintenance costs are planning budgets that are not specific to a pavement section, but are estimates for the entire airfield. Table 5-7 provides budget costs associated with the rehabilitation activities.

Table 5-7: Rehabilitation Activities and Unit Costs by Condition for General Aviation Airports

Category	Activity	PCI Range	Cost/SqFt
Rehabilitation	Mill and Overlay (AC)	40. 74	\$8.00
	 Concrete Pavement Restoration (PCC) 	40 - 74	\$10.00
	• Full Depth Pavement Reconstruction	0 - 39	\$15.00

A cost scale has been developed based on PCI to develop planning level budgets for the airfield pavements. The cost scale is adjusted by project year based on an assumed inflation rate of 3%. In Appendix E, Table E-1 summarizes the Year-1 maintenance and repair recommendations based on the most recent inspection. The summary in Table E-1 does not take into account any rehabilitation activities, but rather summarizes preventative activities for all PCI ranges, including below critical PCI sections.

6. MAJOR PAVEMENT REHABILITATION NEEDS

As part of the SAPMP, major pavement rehabilitation planning is developed based on current and predicted PCI in comparison with the Critical PCI. The Critical PCI has been determined based on the historic trends of pavement condition relative to the benefit of maintenance and repair activities. Pavement sections determined to have a PCI less than that of the Critical PCI are assumed to have deteriorated to a point at which maintenance and repair level activity would provide little benefit.

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 from a functionality perspective. In addition, major rehabilitation is also recommended when the Section PCI is above the Critical PCI but the Section has load-related PCI distresses. However, most major rehabilitation work is recommended when the Section PCI is below the Critical PCI, which is when maintenance and repair level activities are not considered to be cost effective.

Major rehabilitation is identified within the 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 and re-construction. This analysis was conducted with no constraints to budgets as a means to identify all pavement projects based on Critical PCI for a 10-year duration. It is recommended that the airport use this as a planning tool for future project development and prioritization. Table 6-1 depicts the major rehabilitation work identified on the pavement section level based on current and predicted pavement PCI.

Table 6-1: Summary of Major Rehabilitation

Year	Branch ID	Section ID	Major M&R Costs*	PCI Before M&R	M&R Activity	PCI After M&R
2014	AP N	4205	\$372,903.54	25	Reconstruction	100
2014	AP N	4203	\$22,015.00	58	PCC Restoration	100
2014	AP S	4115	\$1,340,938.37	24	Reconstruction	100
2014	AP S	4111	\$202,050.05	24	Reconstruction	100
2014	AP S	4110	\$947,993.02	24	Reconstruction	100
2014	AP S	4106	\$299,400.07	19	Reconstruction	100
2014	AP S	4105	\$1,463,994.35	27	Reconstruction	100
2014	TW A1	305	\$107,387.10	65	Mill and Overlay	100
2014	TW B	205	\$127,499.99	65	Mill and Overlay	100
2017	RW 11-29	6105	\$2,952,821.40	65	Mill and Overlay	100
2019	TW B1	315	\$46,907.59	65	Mill and Overlay	100
2020	AP N	4230	\$503,924.20	64	Mill and Overlay	100
2020	AP N	4215	\$1,661,029.24	64	Mill and Overlay	100
2022	AP N	4218	\$619,133.85	65	Mill and Overlay	100
2023	TW B	210	\$745,677.84	65	Mill and Overlay	100
		Total =	\$11,413,675.61			

^{*} Costs are adjusted for inflation at 3%



The 10-year major rehabilitation program addresses those pavement sections that have a current or project PCI that is below the Critical PCI of 65 during the 10-year analysis period. The unconstrained or "unlimited budget" Major Rehabilitation Program is compared to a "No Major Rehabilitation Program" scenario in Figure 6-1. As shown, if no major rehabilitation work is completed in the next 10 years at your airport, the average PCI may be 31 points less than a plan that provides timely repairs to the airfield pavements.

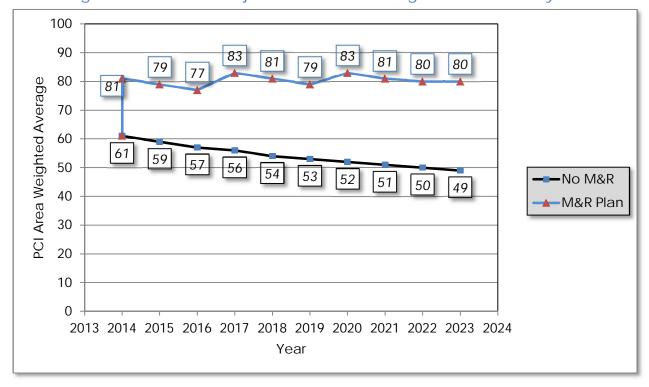


Figure 6-1: 10-Year Major Rehabilitation Budget Scenario Analysis

7. PREVENTATIVE AND MAJOR REHABILITATION PLANNING

The preventative and major rehabilitation results include activities that are based on distresses observed and unconstrained by budget limits. FDOT recognizes that the projects identified as Year-1 needs in 2013, based on condition, may exceed a typical annual budget level. It is recommended that each airport further evaluate each project's feasibility and desirability based on the airport's future development plans and budgeting scenarios.

In an effort to identify appropriate budget levels, the 10-year Preventative and Major Rehabilitation analysis evaluated projected budget needs based on predicted PCI of each pavement section. Table 7-1 and Figure 7-1 provides a summary of the expected preventative and major rehabilitation for each program year.

Table 7-1: 10-Year Preventative and Major Rehabilitation Summary

Program Year	Р	Preventative		Major Rehabilitation		Total Year Costs
2014	\$	255,943.68	\$	4,884,181.48	\$	5,140,125.16
2015	\$	280,866.11	\$	-	\$	280,866.11
2016	\$	304,423.62	\$	-	\$	304,423.62
2017	\$	215,184.25	\$	2,952,821.40	\$	3,168,005.65
2018	\$	255,210.22	\$	-	\$	255,210.22
2019	\$	293,952.76	\$	46,907.59	\$	340,860.35
2020	\$	245,114.08	\$	2,164,953.43	\$	2,410,067.51
2021	\$	287,890.81	\$	-	\$	287,890.81
2022	\$	306,868.20	\$	619,133.85	\$	926,002.05
2023	\$	323,692.32	\$	745,677.84	\$	1,069,370.16
				Total =	\$	14,182,821.64



\$6,000,000.00 \$4,884,181.48 \$5,000,000.00 \$4,000,000.00 \$2,952,821,40 \$3,000,000.00 ■ Major Rehabilitation \$2,164,953.43 ■ Preventative \$2,000,000.00 \$745,677.84 \$1,000,000.00 \$619,133.85 \$46,907.59 \$-2015 2016

Figure 7-1: 10-Year Preventative and Major Rehabilitation Summary

According to the most recent inspections at the time of this update; the following pavement sections were identified as a Year-1 need for major rehabilitation:

- Apron North Section 4205
 - Reconstruction attributed to distresses related to climate and age of pavement.
- Apron North Section 4203
 - PCC Restoration attributed to distresses related to loading and construction quality.
- Apron South Sections 4115, 4111, 4110, 4106, and 4105
 - Reconstruction attributed to distresses related to subgrade quality, climate, and age of pavement.
- Taxiway A1 Sections 305
 - Mill and Overlay attributed to distresses related to subgrade quality, climate, and age of pavement.
- Taxiway B Sections 205
 - Mill and Overlay attributed to distresses related to climate and age of pavement.

Appendix E summarizes the preventative repair recommendations for Year-1 and Appendix F provides an exhibit, Airfield Pavement Major Rehabilitation, that depicts the recommended major rehabilitation on the airfield pavement network according to work type and year.

8. VISUAL AID EXHIBITS

8.1 Airfield Pavement Network Definition Exhibit

The Airfield Pavement Network Definition Exhibit in Appendix A depicts the airfield layout in a manner that defines the airfield pavement infrastructure as branches, sections, and sample units in accordance with the ASTM D 5340-11. The exhibits are prepared and updated with information provided by the airport and from aerial imagery from the FDOT Surveying and Mapping publications.

8.2 Airfield Pavement System Inventory Exhibit

The Airfield Pavement System Inventory Exhibit in Appendix A depicts any recent airfield pavement construction activity reported by the airport. The exhibit is intended to identify pavement sections that may have changed in geometry and pavement composition that would affect the section delineation. The information provided in the Airport Response Form was used as the basis of the changes and confirmed with the airport personnel at the time of inspection.

8.3 Airfield Pavement Condition Index Rating Exhibit

The Airfield Pavement Condition Index Rating Exhibit in Appendix B has been prepared based on the section condition analysis of the distress data collected during the recent condition index rating survey. The exhibit graphically depicts the inventory with associated condition rating colors and PCI values.

8.4 Airfield Pavement Major Rehabilitation Exhibit

The Airfield Pavement Major Rehabilitation Exhibit in Appendix F has been prepared based on the section pavement performance model and major rehabilitation analysis. The exhibit graphically depicts the inventory with associated rehabilitation activity, program year, and the planning level costs.

8.5 Airfield Pavement Condition Survey Inspection Photographs

During the field condition survey inspection; inspectors photographed representative distress types observed. Select photographs are provided in Appendix G to provide visual support to special pavement conditions or distresses observed.

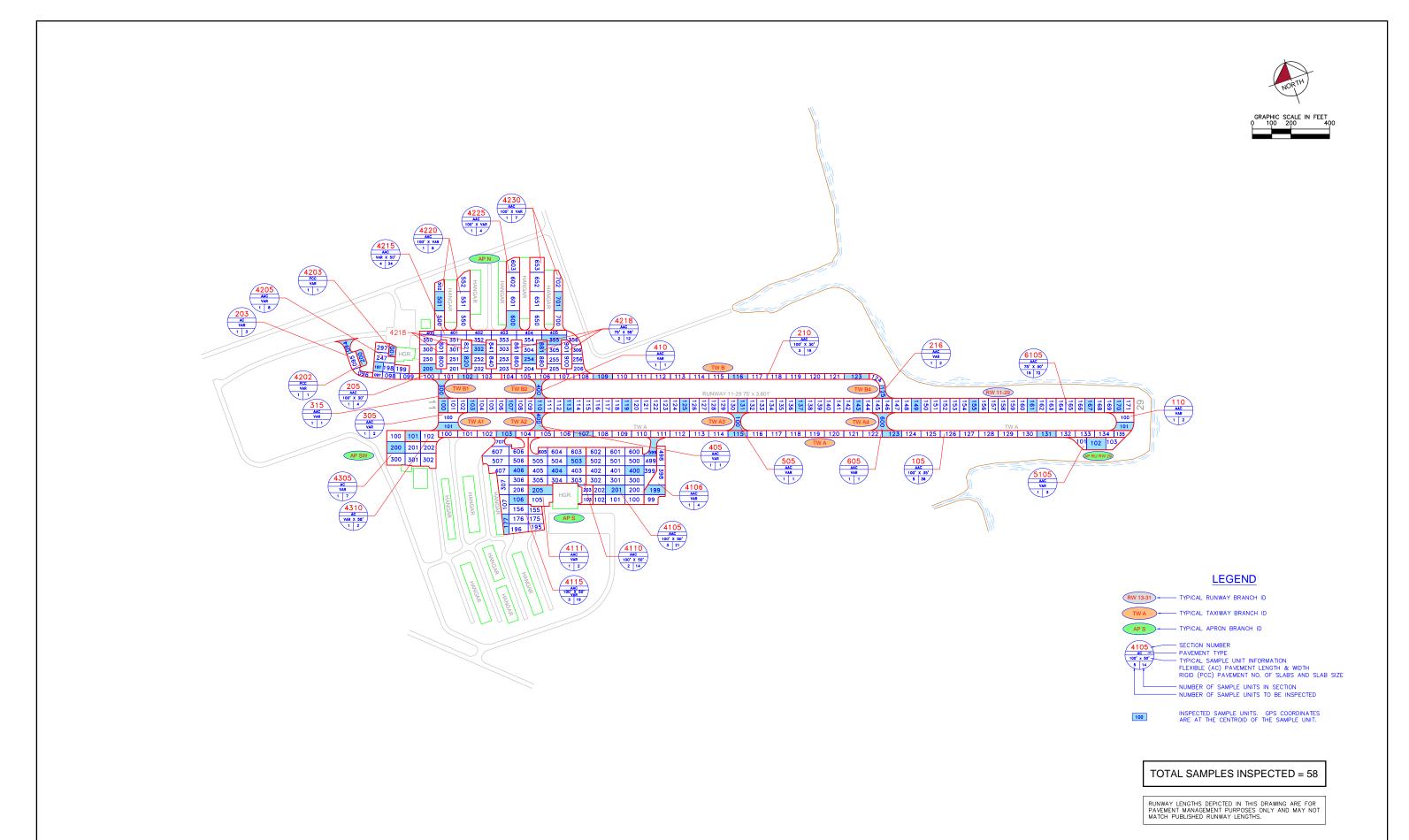
9. RECOMMENDATIONS

The following recommendations were made based on the 2013 condition survey inspection, condition analysis, and maintenance/rehabilitation analysis results:

- North Apron Section 4205
 - Reconstruction attributed to distresses related to climate and age of pavement.
- North Apron Section 4203
 - PCC Restoration attributed to distresses related to loading and construction quality.
- South Apron Sections 4115, 4111, 4110, 4106, and 4105
 - Reconstruction attributed to distresses related to subgrade quality, climate, and age of pavement.
- Taxiway A1 Section 305
 - Mill and Overlay attributed to distresses related to subgrade quality, climate, and age of pavement.
- Taxiway B Sections 205 and 210
 - Mill and Overlay attributed to distresses related to climate and age of pavement.
- Runway 11-29 Section 6105
 - Mill and Overlay attributed to distresses related to climate and age of pavement.
- Taxiway B1 Section 315
 - Mill and Overlay attributed to distresses related to subgrade quality, climate, and age of pavement.
- North Apron Sections 4230, 4215, and 4218
 - Mill and Overlay attributed to distresses related to subgrade quality, climate, and age of pavement.

APPENDIX A

- AIRFIELD PAVEMENT NETWORK DEFINITION EXHIBIT
- AIRFIELD PAVEMENT SYSTEM INVENTORY EXHIBIT
- PAVEMENT GEOMETRY INVENTORY
- WORK HISTORY REPORT





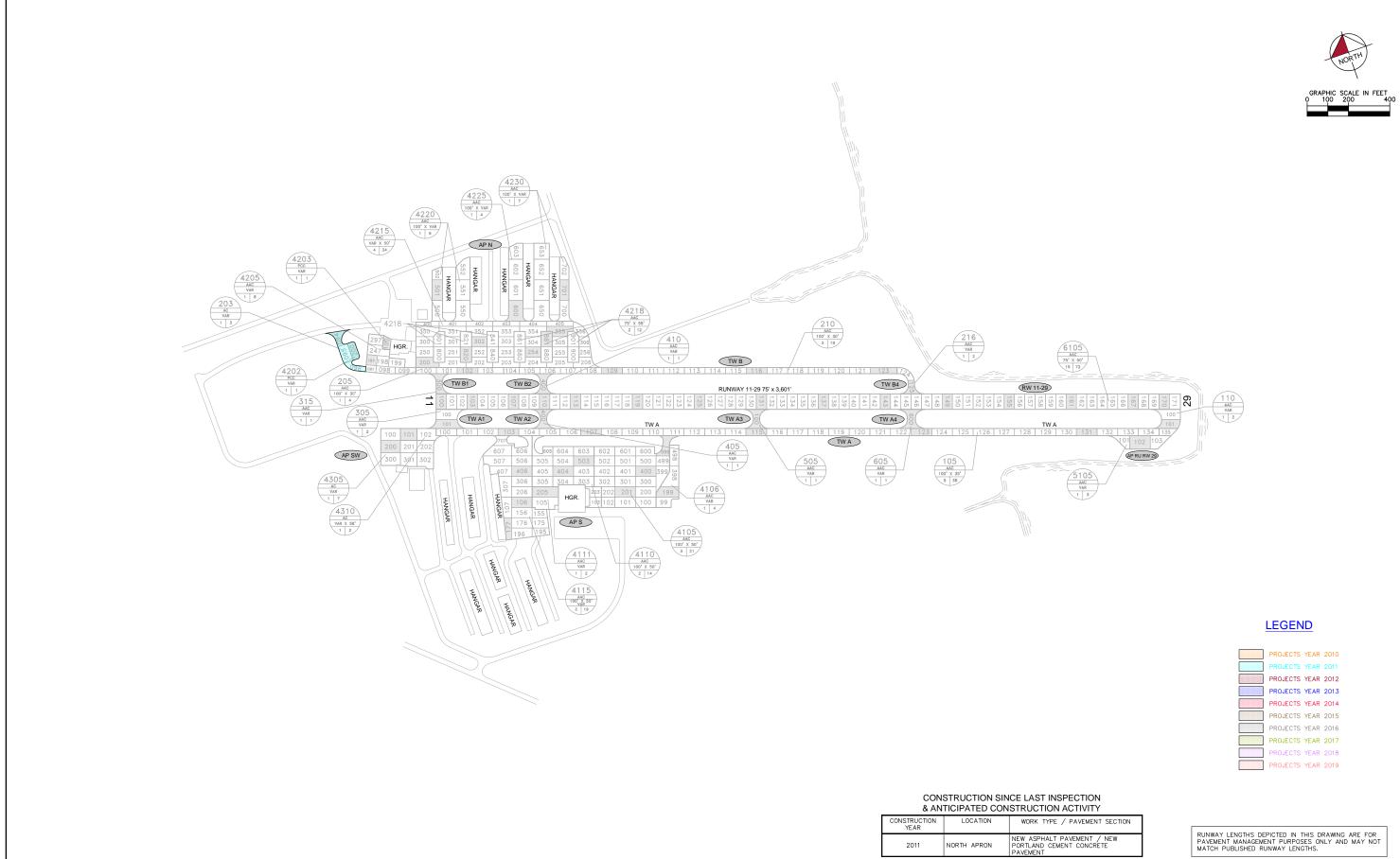




AIRFIELD PAVEMENT NETWORK DEFINITION EXHIBIT MERRITT ISLAND AIRPORT BREVARD COUNTY, FLORIDA

















IC.\UFF_LAVeten\142779222\CALD\FLAKSEETS\DDI - MERETT ISLAND ARPORT\ENHETS\022-COI-HARNTORY.deg FLOTED: November 25, 2013 - 3-42 FM, 871 Hovel, James									
DESIGNED:	KHA	DRAWN:	KHA	CHECKED:	KHA	DATE:	2013		
NUMBER	DATE	REVISIONS							



COI

Table A-1: Pavement Geometry Inventory

Branch Name	Branch ID	Branch Use	Section ID	Length (FT)	Width (FT)	True Area (FT²)	Section Rank	Surface Type	Last Const. Date	Last Insp. Date	Total Samples
RUNWAY 11-29	RW 11-29	RUNWAY	6105	3,600	75	270,225	Р	AAC	1/1/2002	8/20/2013	72
RUN-UP APRON AT RW 29	AP RU RW29	APRON	5105	280	50	14,226	Р	AAC	1/1/2002	8/20/2013	3
SW APRON	AP SW	APRON	4310	50	200	10,214	Р	AC	1/1/2003	8/20/2013	2
SW APRON	AP SW	APRON	4305	376	100	37,682	Р	AC	1/1/2003	8/20/2013	7
NORTH APRON	AP N	APRON	4230	200	200	42,203	Р	AAC	1/1/2005	8/20/2013	7
NORTH APRON	AP N	APRON	4225	340	75	26,238	Р	AAC	1/1/2005	8/20/2013	4
NORTH APRON	AP N	APRON	4220	336	100	33,609	Р	AAC	1/1/2005	8/20/2013	6
NORTH APRON	AP N	APRON	4218	480	100	48,875	Р	AAC	1/1/2005	8/20/2013	12
NORTH APRON	AP N	APRON	4215	1,000	139	139,109	Р	AAC	1/1/2005	8/20/2013	34
NORTH APRON	AP N	APRON	4205	120	200	24,860	Р	AAC	1/1/2005	8/20/2013	8
NORTH APRON	AP N	APRON	4203	50	40	2,202	Р	PCC	1/1/1990	8/20/2013	1
NORTH APRON	AP N	APRON	4202	100	30	3,023	Р	PCC	1/1/2011	8/20/2013	1
SOUTH APRON	AP S	APRON	4115	450	200	89,396	Р	AAC	1/1/1996	8/20/2013	19
SOUTH APRON	AP S	APRON	4111	134	100	13,470	Р	AAC	1/1/1996	8/20/2013	2
SOUTH APRON	AP S	APRON	4110	310	200	63,200	Р	AAC	1/1/1996	8/20/2013	14
SOUTH APRON	AP S	APRON	4106	100	200	19,960	Р	AAC	1/1/1996	8/20/2013	4
SOUTH APRON	AP S	APRON	4105	450	200	97,600	Р	AAC	1/1/1996	8/20/2013	21
TAXIWAY A4	TW A4	TAXIWAY	605	100	40	5,387	Р	AC	1/1/2002	8/20/2013	1
TAXIWAY A3	TW A3	TAXIWAY	505	100	40	4,513	Р	AAC	1/1/2002	8/20/2013	1
TAXIWAY B2	TW B2	TAXIWAY	410	100	40	4,298	Р	AAC	1/1/2005	8/20/2013	1
TAXIWAY A2	TW A2	TAXIWAY	405	100	40	4,513	Р	AAC	1/1/2002	8/20/2013	1
TAXIWAY B1	TW B1	TAXIWAY	315	100	40	4,046	Р	AAC	1/1/2005	8/20/2013	1
TAXIWAY A1	TW A1	TAXIWAY	305	100	100	10,739	Р	AAC	1/1/2002	8/20/2013	2
TAXIWAY B4	TW B4	TAXIWAY	216	150	30	5,450	Р	AAC	1/1/2005	8/20/2013	2
TAXIWAY B	TW B	TAXIWAY	210	1,900	30	57,150	Р	AAC	1/1/2005	8/20/2013	19

Branch Name	Branch ID	Branch Use	Section ID	Length (FT)	Width (FT)	True Area (FT²)	Section Rank	Surface Type	Last Const. Date	Last Insp. Date	Total Samples
TAXIWAY B	TW B	TAXIWAY	205	320	40	12,750	Р	AAC	1/1/2005	8/20/2013	4
TAXIWAY B	TW B	TAXIWAY	203	400	25	9,788	Р	AC	1/1/2011	8/20/2013	3
TAXIWAY A	TW A	TAXIWAY	110	90	100	9,043	Р	AAC	1/1/2002	8/20/2013	2
TAXIWAY A	TW A	TAXIWAY	105	3,570	35	125,133	Р	AAC	1/1/2002	8/20/2013	36

Note: If new construction, then survey date = last construction date and PCI is set to 100 by MicroPAVER.

* Sections not surveyed due to reasons such as re-sectioning, no escort, not accessible at the time of survey.

Date:08/29/2013

Work History Report

1 of 6

Pavement Database:FDOT

 Network:
 COI
 Branch:
 AP N
 (NORTH APRON)
 Section:
 4202
 Surface:
 PCC

 L.C.D.:
 01/01/2011
 Use:
 APRON
 Rank P Length:
 100.00 Ft
 Width:
 30.00 Ft
 True Area:
 3,023.08 SqF

Work Work Work Thickness Major Comments Cost Description Date Code (in) M&R 01/01/2011 INITIAL Initial Construction \$0 0.00 True

 Network:
 COI
 Branch:
 AP N
 (NORTH APRON)
 Section:
 4203
 Surface:
 PCC

 L.C.D.:
 01/01/1990
 Use:
 APRON
 Rank P Length:
 50.00 Ft
 Width:
 40.00 Ft
 True Area:
 2.201.50 SqF

Work Work Work Thickness Major Comments Cost Date Code Description (in) M&R 01/01/1990 BUILT ESTIMATE 1990 PCC PAVEMENT IMPORTED True

 Network:
 COI
 Branch:
 AP N
 (NORTH APRON)
 Section:
 4205
 Surface:
 AC

 L.C.D.:
 01/01/2005
 Use:
 APRON
 Rank P Length:
 120.00 Ft
 Width:
 200.00 Ft
 True Area:
 24,860.23 SqF

Work Work Work Thickness Major Comments Cost Description Date Code M&R (in) 01/01/2005 MI&OV Mill & Overlay \$0 1.50 True 01/01/1990 **IMPORTED REPAIR** False 1990: SEALCOAT - TYPE R 01/01/1980 **IMPORTED BUILT** True 1980: 1.5" P-401 ON 6" LIME ROCK BASE ON 4" STABILIZED SUBBASE

 Network:
 COI
 Branch:
 AP N
 (NORTH APRON)
 Section:
 4215
 Surface:
 AAC

 L.C.D.:
 01/01/2005
 Use:
 APRON
 Rank P Length:
 1,000.00 Ft
 Width:
 139.00 Ft
 True Area:139,108.59 SqF

Work Work Work Thickness Major Comments Cost Description Date Code (in) M&R 01/01/2005 Mill & Overlay MI&OV \$0 1.50 True 01/01/1990 **IMPORTED BUILT** 1990: SEALCOAT - TYPE R True **OVERLAY** 01/01/1965 **IMPORTED** True SOIL: SP-SC 01/01/1965 **IMPORTED OVERLAY** ESTIMATE 1965 AC PAVEMENT True

 Network:
 COI
 Branch:
 AP N
 (NORTH APRON)
 Section:
 4218
 Surface:
 AAC

 L.C.D.:
 01/01/2005
 Use:
 APRON
 Rank P Length:
 480.00 Ft
 Width:
 100.00 Ft
 True Area:
 48,875.00 SqF

Work Work Work Thickness Major Comments Cost Date Code Description M&R (in) 01/01/2005 ML-OL Mill and Overlay \$0 True 1.50 01/01/1965 INITIAL **Initial Construction** \$0 0.00 True ESTIMATE 1965 AC

 Network:
 COI
 Branch:
 AP N
 (NORTH APRON)
 Section:
 4220
 Surface:
 AC

 L.C.D.:
 01/01/2005
 Use:
 APRON
 Rank P Length:
 336.00 Ft
 Width:
 100.00 Ft
 True Area:
 33,609.36 SqF

Work Work Work Thickness Major Comments Cost Date Code Description M&R (in) 01/01/2005 MI&OV Mill & Overlay \$0 1.50 True 01/01/1990 **IMPORTED REPAIR** False 1990: SEALCOAT - TYPE R 01/01/1974 **IMPORTED OVERLAY** True SOIL: SP-SC 01/01/1974 **IMPORTED BUILT** 4.00 True 1974: 4" SUBGRADE STABILIZED WITH LIME ROCK ON 4" COMPACTED SUBGRADE 1974: P-625 SEAL ON 1.5" P-401 ON 6" 01/01/1974 **IMPORTED OVERLAY** P-211 ON

 Network:
 COI
 Branch:
 AP N
 (NORTH APRON)
 Section:
 4225
 Surface:
 AC

 L.C.D.:
 01/01/2005
 Use:
 APRON
 Rank P Length:
 340.00 Ft
 Width:
 75.00 Ft
 True Area:
 26.238.25 SqF

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
01/01/2005	MI&OV	Mill & Overlay	\$0	1.50	True	
01/01/1990	IMPORTED	REPAIR			False	1990: SEALCOAT - TYPE R

Date:08/	29/2013		istory Re	•	2 of 6
01/01/1975	IMPORTED	BUILT	Databaco.i D	1.50	True 1975: 1.5" P-401 ON 6" P-211 ON 4" COMP. SUBGRADE STAB. W/SHEET MATERI
01/01/1975	IMPORTED	OVERLAY			True SOIL: SP-SC
Network: C0 L.C.D.: 01/01	OI Br a 1/2005 Use: AP	anch: APN (NORTH RON Rank P Length:	•	Width:	Section: 4230 Surface: AAC 200.00 Ft True Area: 42.202.86 SqF
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R Comments
01/01/2005 01/01/1990 01/01/1980 01/01/1980	MI&OV IMPORTED IMPORTED IMPORTED	Mill & Overlay BUILT OVERLAY OVERLAY	\$0	1.50	True True 1990: SEALCOAT - TYPE R True SOIL: SP-SC True ESTIMATE 1980 AC PAVEMENT
Network: Co	OI Bra 1/2002 Use: AP		2 APRON AT RW : 280.00 Ft	29) Width:	Section: 5105 Surface: AAC 50.00 Ft True Area: 14.226.02 SqF
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R Comments
01/01/2002 01/01/1996 01/01/1996	ML-OL IMPORTED IMPORTED	Mill and Overlay OVERLAY BUILT	\$0	0.00 2.00	True EST. CONSTRUCTION BASED ON TW True 1996 2" P401 ON 12" P211
Network: C0 L.C.D.: 01/01	OI Bra 1/1996 Use: AP	anch: APS (SOUTH RON Rank P Length:	-	Width:	Section: 4105 Surface: AAC 200.00 Ft True Area: 97,599.60 SqF
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R Comments
01/01/1996 01/01/1978	IMPORTED IMPORTED	BUILT OVERLAY			True 1996 AC OVERLAY True EMULSION SEAL ON 1978 AC
Network: C0 L.C.D.: 01/01	OI Bra 1/1996 Use: AP	anch: APS (SOUTH RON Rank P Length:	•	Width:	Section: 4106 Surface: AAC 200.00 Ft True Area: 19.960.00 SqF
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R Comments
01/01/1996	IMPORTED	BUILT		2.00	True 1996 2" P401 ON 6" P211
Network: C0 L.C.D.: 01/01	OI Bra 1/1996 Use: AP	anch: APS (SOUTH RON Rank P Length:	•	Width:	Section: 4110 Surface: AAC 200.00 Ft True Area: 63,199.52 SqF
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R Comments
01/01/1996 01/01/1978	IMPORTED IMPORTED	BUILT OVERLAY			True 1996 AC OVERLAY ON True EMULSION SEAL COAT ON 1978 AC PAVEMENT
Network: C0 L.C.D.: 01/01	OI Bra 1/1996 Use: AP	anch: APS (SOUTH RON Rank P Length:		Width:	Section: 4111 Surface: AAC 100.00 Ft True Area: 13,470.00 SqF
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R Comments
01/01/1996 01/01/1970	IMPORTED IMPORTED	OVERLAY BUILT		1.50 1.50	True 1996 1.5" P401 OVERLAY True 1970 1.5" P401 ON 6" P211
Network: C0 L.C.D.: 01/01	OI Bra 1/1996 Use: AP	anch: APS (SOUTH RON Rank P Length:	•	Width:	Section: 4115 Surface: AAC 200.00 Ft True Area: 89,395.87 SqF
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R Comments
01/01/1996 01/01/1975	IMPORTED IMPORTED	BUILT OVERLAY			True 1996 AC OVERLAY True ON EMULSION SEAL ON 1975 AC PAVEMENT

Date:08/29/2013

Work History Report

Pavement Database:FDOT

 Network:
 COI
 Branch:
 AP SW
 (SW APRON)
 Section:
 4305
 Surface:
 AC

 L.C.D.:
 01/01/2003
 Use:
 APRON
 Rank P Length:
 376.00 Ft
 Width:
 100.00 Ft
 True Area:
 37,682.42 SqF

3 of 6

Work Work Work Thickness Major Comments Cost Date Code Description (in) M&R 01/01/2003 CR-AC Complete Reconstruction - AC \$0 2.00 2" AC/ 8" P-211/ 8" Stab Sbgrd True EMULSION SEALCOAT ON THIS 01/01/1970 **IMPORTED BUILT** True PAVEMENT 01/01/1970 **IMPORTED OVERLAY** ESTIMATE 1970 AC PAVEMENT True

 Network:
 COI
 Branch:
 AP SW
 (SW APRON)
 Section:
 4310
 Surface:
 AC

 L.C.D.:
 01/01/2003
 Use:
 APRON
 Rank P Length:
 50.00 Ft
 Width:
 200.00 Ft
 True Area:
 10.214.14
 SqF

Work Work Work Thickness Major Comments Cost Date M&R Code Description (in) 01/01/2003 CR-AC Complete Reconstruction - AC \$0 0.00 True 01/01/1990 **IMPORTED** BUILT 1990 WEDGE OVERLAY ON OLD AC True PAVEMENT

 Network:
 COI
 Branch:
 RW 11-29
 (RUNWAY 11-29)
 Section:
 6105
 Surface:
 AAC

 L.C.D.:
 01/01/2002
 Use:
 RUNWAY
 Rank P Length:
 3,600.00 Ft
 Width:
 75.00 Ft
 True Area;270,225.00 SqF

Work Work Thickness Major Comments Cost Date Code Description (in) M&R 01/01/2002 OV-ME Overlay with Asph Rubber Mei \$0 True 2" AC/ARMI 2.00 **IMPORTED** 1990: MINIMUM 1.5" P-401 ON 01/01/1990 **OVERLAY** 1.50 True MAXIMUM .5" TYPE 2 SAND-ASPHALT SEALCOAT 01/01/1990 **IMPORTED OVERLAY** EXISTING PAVEMENT (NO INFO) True 01/01/1990 **IMPORTED OVERLAY** SOIL: SP-SC True **IMPORTED BUILT** 1974: 1.5" P-401 OVERLAY 01/01/1974 1.50 True

 Network:
 COI
 Branch:
 TW A
 (TAXIWAY A)
 Section:
 105
 Surface:
 AAC

 L.C.D.:
 01/01/2002
 Use:
 TAXIWAY
 Rank P Length:
 3,570.00 Ft
 Width:
 35.00 Ft
 True Area: 125,133.17 SqF

Work Work Work Thickness Major Comments Cost Date Code Description (in) M&R 01/01/2002 OV-ME Overlay with Asph Rubber Mei \$0 2.00 2" AC/ARMI True 01/01/1990 **IMPORTED OVFRIAY** True SOIL: SP-SC 01/01/1990 **IMPORTED OVERLAY** ON EXISTING PAVEMENT (SECTION True JNKNOWN) 01/01/1990 **IMPORTED OVERLAY** 1.50 True 1990: MINIMUM 1.5" P-401 OVERLAY ON MAXIMUM .5" TYPE 2 SAND-ASPHALT SE **IMPORTED BUILT** 1974: 1.5" P-401 OVERLAY 01/01/1974 1.50 True

 Network:
 COI
 Branch:
 TW A
 (TAXIWAY A)
 Section:
 110
 Surface:
 AAC

 L.C.D.:
 01/01/2002
 Use:
 TAXIWAY
 Rank P Length:
 90.00 Ft
 Width:
 100.00 Ft
 True Area:
 9.043.18 SqF

Work Work Work Thickness Major Comments Cost Date Code Description M&R (in) 01/01/2002 OV-ME 2" AC/ARMI Overlay with Asph Rubber Mei \$0 2.00 True 01/01/1990 **IMPORTED OVERLAY** SOIL: SP-SC True 01/01/1990 **IMPORTED OVERLAY** EXISTING PAVEMENT (SECTION True UNKNOWN) **IMPORTED** 1990: MINIMUM 1.5" P-401 ON 01/01/1990 **OVFRIAY** 1.50 True MAXIMUM .5" TYPE 2 SAND-ASPHALT SEAL COAT 1974: 1.5" P-401 OVERLAY 01/01/1974 **IMPORTED BUILT** 1.50 True

 Network:
 COI
 Branch:
 TW A1
 (TAXIWAY ALPHA 1)
 Section:
 305
 Surface:
 AAC

 L.C.D.:
 01/01/2002
 Use:
 TAXIWAY
 Rank P Length:
 100.00 Ft
 Width:
 100.00 Ft
 True Area:
 10,738.71
 SqF

Work Work Work Thickness Major Comments Cost Description M&R Date Code (in) 01/01/2002 ML-OL Mill and Overlay \$0 0.00 True

Date:08/	29/2013		istory Rep		4 of 6
			nt Database:FDC	T	
01/01/1990 01/01/1990 01/01/1990	IMPORTED IMPORTED IMPORTED	OVERLAY OVERLAY OVERLAY		1.50	True EXISTING PAVEMENT (SECTION UNKNOWN) True SOIL: SP-SC True 1990: MINIMUM 1.5" P-401 ON MAXIMUM .5" TYPE 2 SAND-ASPHALT SEALCOAT
01/01/1974	IMPORTED	BUILT		1.50	True 1974 1.5" P-401 OVERLAY
Network : C0 L.C.D. : 01/01	OI Br 1/2002 Use: TA	•	Y ALPHA 2) 100.00 Ft	Width:	Section: 405 Surface: AAC 40.00 Ft True Area: 4,513.27 SqF
Work Date	Work Code	Work Description	Cost	hickness (in)	Major M&R Comments
01/01/2002 01/01/1990 01/01/1990	ML-OL IMPORTED IMPORTED	Mill and Overlay OVERLAY BUILT	\$0	0.00 1.50	True SOIL: SP-SC True 1990: MINIMUM 1.5" P-401 ON MAXIMUM .5" TYPE 2 SAND-ASPHALT SEALCOAT
01/01/1990	IMPORTED	OVERLAY			True EXISTING PAVEMENT (SECTION UNKNOWN)
Network: Co	OI Bra	\(\mathrea{\pi}\)	Y ALPHA 3)		Section: 505 Surface: AAC
		Kank Length.	100.00 Ft	Width:	40.00 Ft True Area: 4.513.27 SqF
Work Date	Work Code	Work Description	Cost	hickness (in)	Major M&R Comments
01/01/2002 01/01/1990	OV-ME IMPORTED	Overlay with Asph Rubber Mei OVERLAY	\$0	2.00 1.50	
01/01/1990	IMPORTED IMPORTED	OVERLAY OVERLAY			True EXISTING PAVEMENT (SECTION UNKNOWN) True SOIL: SP-SC
01/01/1974	IMPORTED	BUILT		1.50	True 1974 1.5" P-401 OVERLAY
Network: C0 L.C.D.: 01/01	OI Br 1/2002 Use: TA	•	NY ALPHA 4) 100.00 Ft	Width:	Section: 605 Surface: AC 40.00 Ft True Area: 5,387.07 SqF
Work Date	Work Code	Work Description	Cost	hickness (in)	Major M&R Comments
01/01/2002 01/01/1979 01/01/1979	OV-ME IMPORTED IMPORTED	Overlay with Asph Rubber Mei BUILT OVERLAY	\$0	2.00 1.50	
Network : C0 L.C.D. : 01/01	OI Br 1/2011 Use: TA	anch: TW B (TAXIWA XIWAY Rank P Length:		Width:	Section: 203 Surface: AC 25.00 Ft True Area: 9.788.00 SqF
Work Date	Work Code	Work Description	Cost	hickness (in)	Major M&R Comments
01/01/2011	INITIAL	Initial Construction	\$0	0.00	True
Network: C0 L.C.D.: 01/01	OI Br : 1/2005 Use: TA	anch: TWB (TAXIWA XIWAY Rank P Length:	•	Width:	Section: 205 Surface: AC 40.00 Ft True Area: 12,750.00 SqF
Work Date	Work Code	Work Description	Cost	hickness (in)	Major M&R Comments
01/01/2005 01/01/1990	MI&OV IMPORTED	Mill & Overlay BUILT	\$0	1.50	True 1990 SEAL COAT TYPE R (SLURRY SEAL)
01/01/1965 01/01/1965	IMPORTED IMPORTED	OVERLAY OVERLAY			True SOIL: SP-SC True ESTIMATE 1965 AC PAVEMENT

Date:08/29/2013

Work History Report

Pavement Database:FDOT

Network: COI Branch: TW B

(TAXIWAY B)

Section: 210

Surface: AC

5 of 6

L.C.D.: 01/01/2005 Use: TAXIWAY Rank P Length: 1,900.00 Ft 30.00 Ft True Area: 57,150.00 SqF Width:

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
01/01/2005	MI&OV	Mill & Overlay	\$0	1.50	True	
01/01/1990	IMPORTED	OVERLAY			True	1990 SEAL COAT - TYPE R
01/01/1980	IMPORTED	BUILT		1.50		1980: 1.5" P-401 ON 6" LIME ROCK BASE ON 4" STABILIZED SUBBASE

Network: COI Branch: TW B1 (TAXIWAY BRAVO 1) Section: 315 Surface: AAC L.C.D.: 01/01/2005 Use: TAXIWAY Rank P Length: 100.00 Ft 40.00 Ft True Area: 4.046.29 SqF Width:

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
01/01/2005	ML-OL	Mill and Overlay	\$0	0.00	True	
01/01/1990	IMPORTED	OVERLAY			True	EXISTING BITUMONOUS SURFACE ON LIMEROCK
01/01/1990	IMPORTED	BUILT		0.50		1990 0.5" TYPE 2 SAND ASPHALT SEAL COAT ON
01/01/1990	IMPORTED	OVERLAY		1.50	True	1990 1.5" P401 OVERLAY ON

Section: 410 Network: COI Branch: TW B2 (TAXIWAY BRAVO 2) Surface: AAC **L.C.D.**: 01/01/2005 **Use**: TAXIWAY True Area: 4,298.45 SqF Rank P Length: 100.00 Ft Width: 40.00 Ft

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
01/01/2005	ML-OL	Mill and Overlay	\$0	0.00	True	
01/01/1990	IMPORTED	OVERLAY			True	SOIL: SP-SC
01/01/1990	IMPORTED	BUILT		1.50		1990: MINIMUM 1.5" P-401 ON MAXIMUM .5" TYPE 2 SAND-ASPHALT SEALCOAT
01/01/1990	IMPORTED	OVERLAY				EXISTING AC PAVEMENT (SECTION UNKNOWN)

Network: COI Branch: TW B4 (TAXIWAY BRAVO 4) Surface: AAC Section: 216 **L.C.D.**: 01/01/2005 **Use**: TAXIWAY Rank P Length: 150.00 Ft Width: 30.00 Ft True Area: 5.450.37 SqF

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
01/01/2005	MI&OV	Mill & Overlay	\$0	1.50	True	
01/01/1990	IMPORTED	OVERLAY			True	SOIL: SP-SC
01/01/1990	IMPORTED	OVERLAY		1.50	True	1990: MINIMUM 1.5" P-401 ON
						MAXIMUM .5" TYPE 2 SAND-ASPHALT
						SEALCOAT
01/01/1979	IMPORTED	BUILT		1.50	True	1979: 1.5" P-401 ON 6" P-211

Date:08/29/2013

Work History Report

6 of 6

Pavement Database:FDOT

Summary:

Work Description	Section Count	Area Total (SqFt)	Thickness Avg (in)	Thickness STD (in)
BUILT	26	1,127,217.14	1.65	.68
Complete Reconstruction - AC	2	47,896.56	1.00	1.41
Initial Construction	3	61,686.08	.00	.00
Mill & Overlay	8	341,369.66	1.50	.00.
Mill and Overlay	6	86,697.74	.25	.61
OVERLAY	40	2,155,267.12	1.50	.00.
Overlay with Asph Rubber	5	414,301.69	2.00	.00
REPAIR	3	84,707.84		

APPENDIX B

- AIRFIELD PAVEMENT CONDITION INDEX RATING EXHIBIT
- PAVEMENT CONDITION INDEX INVENTORY

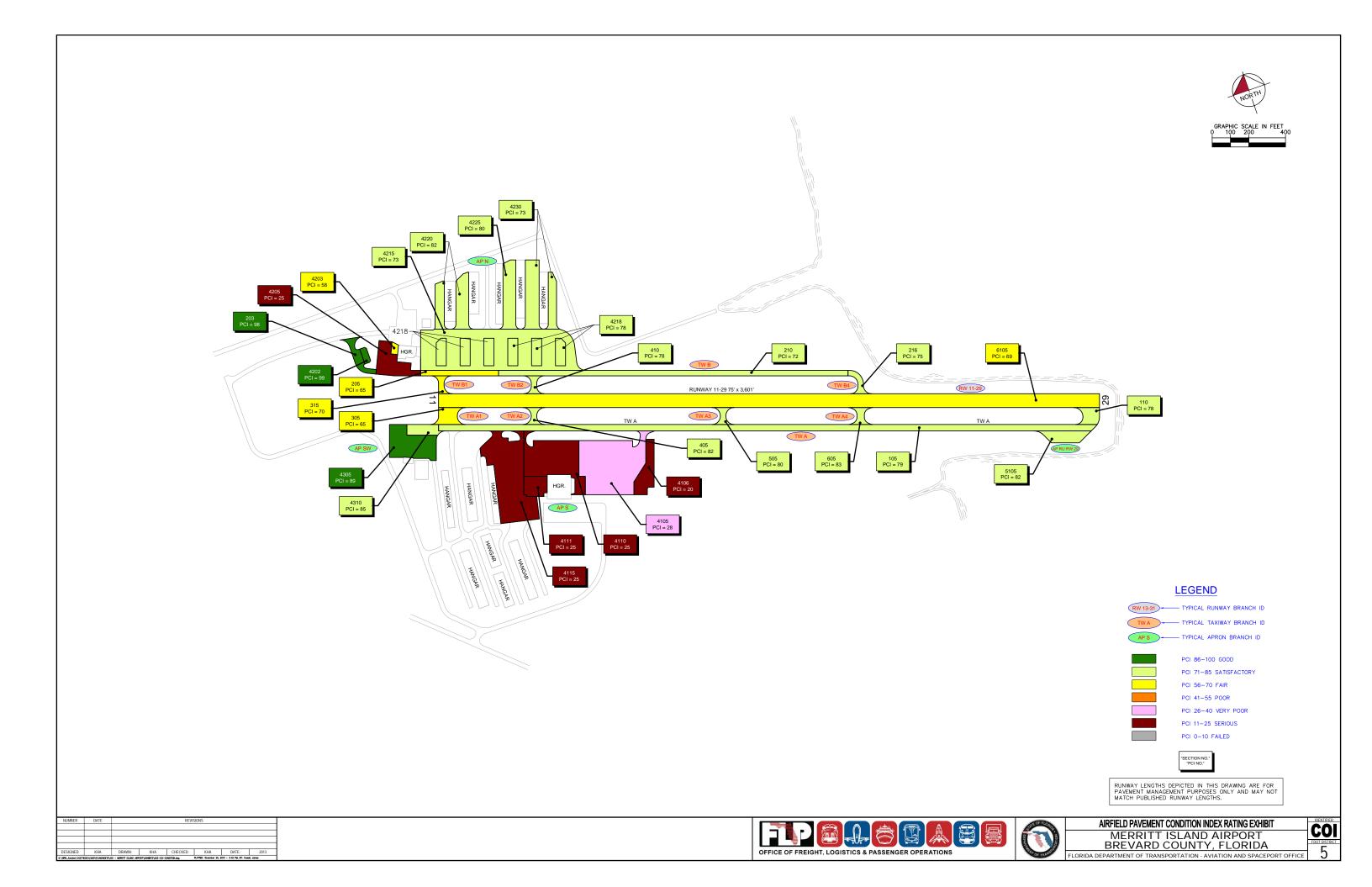


Table B-1: Pavement Condition Index Inventory

Branch Name	Branch ID	Branch Use	Section ID	True Area (FT²)	Section Rank	Surface Type	PCI	PCI Category	Total Samples Inspected	Total Samples
RUNWAY 11-29	RW 11-29	RUNWAY	6105	270,225	Р	AAC	69	Fair	15	72
RUN-UP APRON AT RW 29	AP RU RW29	APRON	5105	14,226	Р	AAC	82	Satisfactory	1	3
SW APRON	AP SW	APRON	4310	10,214	Р	AC	85	Satisfactory	1	2
SW APRON	AP SW	APRON	4305	37,682	Р	AC	89	Good	1	7
NORTH APRON	AP N	APRON	4230	42,203	Р	AAC	73	Satisfactory	1	7
NORTH APRON	AP N	APRON	4225	26,238	Р	AAC	80	Satisfactory	1	4
NORTH APRON	AP N	APRON	4220	33,609	Р	AAC	82	Satisfactory	1	6
NORTH APRON	AP N	APRON	4218	48,875	Р	AAC	78	Satisfactory	2	12
NORTH APRON	AP N	APRON	4215	139,109	Р	AAC	73	Satisfactory	4	34
NORTH APRON	AP N	APRON	4205	24,860	Р	AAC	25	Serious	1	8
NORTH APRON	AP N	APRON	4203	2,202	Р	PCC	58	Fair	1	1
NORTH APRON	AP N	APRON	4202	3,023	Р	PCC	99	Good	1	1
SOUTH APRON	AP S	APRON	4115	89,396	Р	AAC	25	Serious	3	19
SOUTH APRON	AP S	APRON	4111	13,470	Р	AAC	25	Serious	1	2
SOUTH APRON	AP S	APRON	4110	63,200	Р	AAC	25	Serious	2	14
SOUTH APRON	AP S	APRON	4106	19,960	Р	AAC	20	Serious	1	4
SOUTH APRON	AP S	APRON	4105	97,600	Р	AAC	28	Very Poor	3	21
TAXIWAY A4	TW A4	TAXIWAY	605	5,387	Р	AC	83	Satisfactory	1	1
TAXIWAY A3	TW A3	TAXIWAY	505	4,513	Р	AAC	80	Satisfactory	1	1
TAXIWAY B2	TW B2	TAXIWAY	410	4,298	Р	AAC	78	Satisfactory	1	1
TAXIWAY A2	TW A2	TAXIWAY	405	4,513	Р	AAC	82	Satisfactory	1	1
TAXIWAY B1	TW B1	TAXIWAY	315	4,046	Р	AAC	70	Fair	1	1
TAXIWAY A1	TW A1	TAXIWAY	305	10,739	Р	AAC	65	Fair	1	2
TAXIWAY B4	TW B4	TAXIWAY	216	5,450	Р	AAC	75	Satisfactory	1	2
TAXIWAY B	TW B	TAXIWAY	210	57,150	Р	AAC	72	Satisfactory	3	19
TAXIWAY B	TW B	TAXIWAY	205	12,750	Р	AAC	65	Fair	1	4

Branch Name	Branch ID	Branch Use	Section ID	True Area (FT²)	Section Rank	Surface Type	PCI	PCI Category	Total Samples Inspected	Total Samples
TAXIWAY B	TW B	TAXIWAY	203	9,788	Р	AC	98	Good	1	3
TAXIWAY A	TW A	TAXIWAY	110	9,043	Р	AAC	78	Satisfactory	1	2
TAXIWAY A	TW A	TAXIWAY	105	125,133	Р	AAC	79	Satisfactory	5	36

Note: If new construction, then survey date = last construction date and PCI is set to 100 by MicroPAVER.

* Sections not surveyed due to reasons such as re-sectioning, no escort, not accessible at the time of survey.

APPENDIX C

- BRANCH CONDITION REPORT
- SECTION CONDITION REPORT

Date: 8 /29/2013

Branch Condition Report

1 of 2

Pavement Database: FDOT NetworkID: COI

Number of Sum Section Avg Section PCI Weighted **True Area** Average **Branch ID** Use **Sections** Length Width Standard Average (SqFt) PCI PCI (Ft) (Ft) Deviation APN (NORTH APRON) 8 2,626.00 110.50 320,118.87 **APRON** 71.00 20.40 71.70 AP RU RW29 (RUN-UP APRON AT 280.00 1 50.00 14,226.02 **APRON** 82.00 0.00 82.00 RW 29) APS (SOUTH APRON) 5 1,444.00 180.00 283,624.99 **APRON** 25.68 24.60 2.58 APSW (SW APRON) 426.00 47,896.56 APRON 2 150.00 87.00 2.00 88.15 RW 11-29 (RUNWAY 11-29) 1 3,600.00 75.00 270,225.00 **RUNWAY** 69.00 0.00 69.00 TW A (TAXIWAY A) 2 3,660.00 67.50 134,176.35 **TAXIWAY** 78.50 0.50 78.93 TW A1 (TAXIWAY ALPHA 1) 100.00 100.00 10,738.71 **TAXIWAY** 65.00 1 65.00 0.00 TW A2 (TAXIWAY ALPHA 2) 100.00 1 40.00 4,513.27 **TAXIWAY** 82.00 0.00 82.00 100.00 **TAXIWAY** TW A3 (TAXIWAY ALPHA 3) 1 40.00 4,513.27 80.00 0.00 80.00 TW A4 (TAXIWAY ALPHA 4) 100.00 5,387.07 **TAXIWAY** 1 40.00 83.00 0.00 83.00 TW B (TAXIWAY B) 3 2,620.00 31.67 79,688.00 **TAXIWAY** 78.33 14.20 74.07 TW B1 (TAXIWAY BRAVO 1) 1 100.00 40.00 4,046.29 **TAXIWAY** 70.00 0.00 70.00 TW B2 (TAXIWAY BRAVO 2) 1 100.00 40.00 4,298.45 **TAXIWAY** 78.00 0.00 78.00 TW B4 (TAXIWAY BRAVO 4) 150.00 30.00 5,450.37 **TAXIWAY** 75.00 0.00 75.00 1

Date: 8 /29/2013

Branch Condition Report

Pavement Database: FDOT

Use Category	Number of Sections	Total Area (SqFt)	Arithmetic Average PCI	Average PCI STD.	Weighted Average PCI
APRON	16	665,866.44	59.19	27.99	53.50
RUNWAY	1	270,225.00	69.00	0.00	69.00
TAXIWAY	12	252,811.78	77.08	8.58	76.73
All	29	1,188,903.22	66.93	23.21	61.96

2 of 2

Section Condition Report

Pavement Database: FDOT

NetworkID: COI

Last Age Section ID Surface Hee Branch ID Last Rank Lanes True Area PCI Inspection Αt (SqFt) Date Inspection Date AP N (NORTH APRON) Ρ 4202 01/01/2011 PCC **APRON** 0 3,023.08 08/20/2013 2 99.00 AP N (NORTH APRON) 4203 01/01/1990 PCC **APRON** Ρ 2,201.50 08/20/2013 23 58.00 AP N (NORTH APRON) 4205 01/01/2005 AC **APRON** Ρ 0 24,860.23 08/20/2013 8 25.00 AP N (NORTH APRON) 01/01/2005 AAC **APRON** 139,108.59 08/20/2013 8 4215 0 73.00 AP N (NORTH APRON) AAC **APRON** Ρ 4218 01/01/2005 0 48,875.00 08/20/2013 8 78.00 AP N (NORTH APRON) Р 4220 01/01/2005 AC **APRON** 0 33,609.36 08/20/2013 8 82.00 AP N (NORTH APRON) **APRON** Р 26,238.25 08/20/2013 4225 01/01/2005 AC 0 8 80.00 AP N (NORTH APRON) Р 4230 01/01/2005 AAC **APRON** 0 42,202.86 08/20/2013 8 73.00 AP RU RW29 (RUN-UP APRON AT RW 5105 01/01/2002 AAC **APRON** Ρ 14,226.02 08/20/2013 82.00 AP S (SOUTH APRON) Ρ 4105 01/01/1996 AAC **APRON** 0 97,599.60 08/20/2013 17 28.00 AP S (SOUTH APRON) 4106 **APRON** Ρ 19,960.00 08/20/2013 01/01/1996 AAC 17 20.00 AP S (SOUTH APRON) Ρ 4110 01/01/1996 AAC **APRON** 63,199.52 08/20/2013 17 25.00 AP S (SOUTH APRON) 4111 01/01/1996 AAC **APRON** Ρ 0 13,470.00 08/20/2013 17 25.00 AP S (SOUTH APRON) 01/01/1996 AAC **APRON** Ρ 0 89,395.87 08/20/2013 25.00 4115 17 AP SW (SW APRON) Р **APRON** 37,682.42 08/20/2013 4305 01/01/2003 AC 0 10 89.00 AP SW (SW APRON) Р 4310 01/01/2003 AC **APRON** 0 10,214.14 08/20/2013 10 85.00 RW 11-29 (RUNWAY 11-29) 6105 01/01/2002 AAC **RUNWAY** Р 270,225.00 08/20/2013 69.00 TW A (TAXIWAY A) 105 01/01/2002 AAC **TAXIWAY** Ρ 0 125,133.17 08/20/2013 11 79.00 TW A (TAXIWAY A) **TAXIWAY** Ρ 01/01/2002 AAC O 9,043.18 08/20/2013 78.00 110 11 TW A1 (TAXIWAY ALPHA 1) AAC **TAXIWAY** Р 305 01/01/2002 0 10,738.71 08/20/2013 11 65.00 TW A2 (TAXIWAY ALPHA 2) 405 01/01/2002 AAC **TAXIWAY** Р 4,513.27 08/20/2013 11 82.00 TW A3 (TAXIWAY ALPHA 3) **TAXIWAY** Ρ 4,513.27 08/20/2013 505 01/01/2002 AAC 0 11 80.00 TW A4 (TAXIWAY ALPHA 4) AC **TAXIWAY** Ρ 01/01/2002 0 5,387.07 08/20/2013 11 83.00 605 TW B (TAXIWAY B) 01/01/2011 Ρ 203 AC **TAXIWAY** 0 2 98.00 9,788.00 08/20/2013 TW B (TAXIWAY B) 205 01/01/2005 AC **TAXIWAY** Р 0 12,750.00 08/20/2013 8 65.00 TW B (TAXIWAY B) Ρ 210 01/01/2005 AC **TAXIWAY** 57,150.00 08/20/2013 8 72.00

1 of 3

Date: 8 /29/2013

Section Condition Report

Pavement Database: FDOT NetworkID: COI

Last Age Use **Branch ID** Section ID Last Surface Rank Lanes True Area PCI Inspection Αt Const. (SqFt) Date Inspection Date TW B1 (TAXIWAY BRAVO 1) **TAXIWAY** Ρ 4,046.29 08/20/2013 315 01/01/2005 AAC 0 8 70.00 TW B2 (TAXIWAY BRAVO 2) 01/01/2005 **TAXIWAY** Ρ 0 4,298.45 08/20/2013 8 410 AAC 78.00 TW B4 (TAXIWAY BRAVO 4) **TAXIWAY** Ρ 216 01/01/2005 AAC 0 5,450.37 08/20/2013 8 75.00

2 of 3

Date: 8 /29/2013

Section Condition Report

3 of 3

Pavement Database: FDOT

Age Category	Average Age At Inspection	Total Area (SqFt)	Number of Sections	Arithmetic Average PCI	PCI Standard Deviation	Weighted Average PCI
0-02	2.00	12,811.08	2	98.50	0.71	98.24
06-10	8.31	446,485.96	13	72.69	15.71	73.28
11-15	11.00	443,779.69	8	77.25	6.63	72.74
16-20	17.00	283,624.99	5	24.60	2.88	25.68
21-25	23.00	2,201.50	1	58.00	0.00	58.00
All	10.62	1,188,903.22	29	66.93	23.62	61.96

APPENDIX D

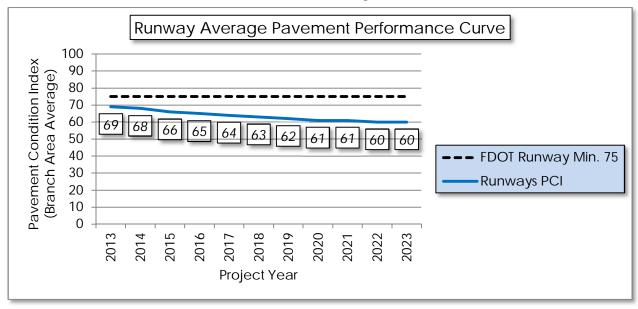
- PAVEMENT PERFORMANCE PREDICTION
- PAVEMENT PERFORMANCE BY PAVEMENT USE

Table D-1: Pavement Performance Prediction

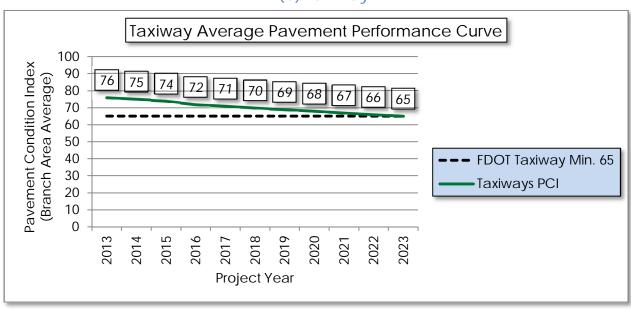
Branch	Section	Current			Paver	ment F	erform	nance	Mode	I - PCI		
ID	ID	PCI	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
RW 11-29	6105	69	68	67	65	64	63	62	62	61	61	60
AP RU RW29	5105	82	81	78	76	74	72	70	68	67	65	64
AP SW	4310	85	84	81	78	76	74	72	71	70	69	68
AP SW	4305	89	87	84	81	78	76	74	72	71	70	69
AP N	4230	73	72	70	69	67	66	64	63	62	61	60
AP N	4225	80	79	77	75	73	71	70	69	68	67	67
AP N	4220	82	81	78	76	74	72	71	70	69	68	67
AP N	4218	78	77	75	73	71	69	67	66	65	63	62
AP N	4215	73	72	70	69	67	66	64	63	62	61	60
AP N	4205	25	25	25	25	25	25	24	24	24	24	24
AP N	4203	58	58	57	56	55	55	54	54	54	53	53
AP N	4202	99	98	95	92	89	86	83	80	77	75	72
AP S	4115	25	24	22	20	19	17	15	13	11	9	7
AP S	4111	25	24	22	20	19	17	15	13	11	9	7
AP S	4110	25	24	22	20	19	17	15	13	11	9	7
AP S	4106	20	19	17	15	14	12	10	8	6	4	2
AP S	4105	28	27	25	23	22	20	18	16	14	12	10
TW A4	605	83	82	80	78	76	74	73	71	70	69	68
TW A3	505	80	79	78	77	75	74	73	71	70	69	68
TW B2	410	78	77	76	75	73	72	71	70	69	68	66
TW A2	405	82	81	80	78	77	76	74	73	72	71	69
TW B1	315	70	70	68	67	66	65	64	63	62	61	60
TW A1	305	65	65	64	63	62	61	60	59	59	58	58
TW B4	216	75	75	73	72	71	70	68	67	66	65	64
TW B	210	72	71	70	69	68	67	66	66	65	65	64
TW B	205	65	65	65	64	64	64	64	63	63	63	63
TW B	203	98	97	94	92	89	86	84	82	79	77	75
TW A	110	78	77	76	75	73	72	71	70	69	68	66
TW A	105	79	78	77	76	74	73	72	71	69	68	67

Figure D-1: Pavement Performance by Pavement Use

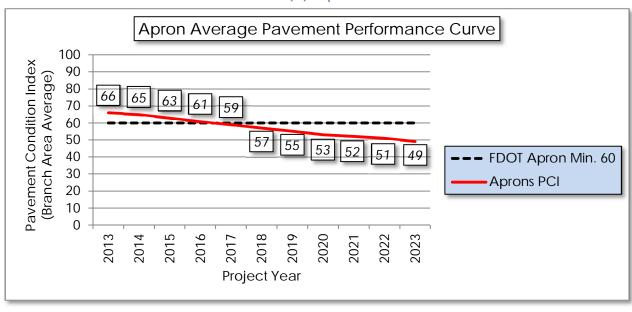
(a) Runway



(b) Taxiway



(c) Apron



APPENDIX E

YEAR-1 PREVENTATIVE ACTIVITIES

Table E-1: Year-1 Preventative Activities

Branch Name	Branch ID	Section ID	Distress Description	Distress Severity	Work Description	Work Quantity	Work Unit	Unit Cost	Work Cost
RUNWAY 11-29	RW 11-29	6105	L&TCR	L	Crack Sealing - AC	18,418.50	Ft	\$2.75	\$50,650.92
RUNWAY 11-29	RW 11-29	6105	RAVELING	L	Surface Seal	58,575.20	SqFt	\$0.55	\$32,216.61
RUNWAY 11-29	RW 11-29	6105	RAVELING	M	Surface Seal	912.80	SqFt	\$0.55	\$502.02
RUN-UP APRON AT RW 29	AP RU RW29	5105	L&TCR	L	Crack Sealing - AC	26.30	Ft	\$2.75	\$72.22
RUN-UP APRON AT RW 29	AP RU RW29	5105	RAVELING	L	Surface Seal	218.90	SqFt	\$0.55	\$120.38
RUN-UP APRON AT RW 29	AP RU RW29	5105	RAVELING	М	Surface Seal	70.00	SqFt	\$0.55	\$38.52
SW APRON	AP SW	4310	L&TCR	L	Crack Sealing - AC	299.40	Ft	\$2.75	\$823.29
SW APRON	AP SW	4305	DEPRESSION	L	Patching - AC Full Depth	459.00	SqFt	\$5.00	\$2,294.78
SW APRON	AP SW	4305	L&TCR	L	Crack Sealing - AC	198.30	Ft	\$2.75	\$545.40
NORTH APRON	AP N	4230	L&TCR	L	Crack Sealing - AC	1,997.60	Ft	\$2.75	\$5,493.40
NORTH APRON	AP N	4230	OIL SPILLAGE	N	Surface Seal	363.40	SqFt	\$0.55	\$199.85
NORTH APRON	AP N	4230	RAVELING	L	Surface Seal	4,220.30	SqFt	\$0.55	\$2,321.18
NORTH APRON	AP N	4225	DEPRESSION	L	Patching - AC Full Depth	524.90	SqFt	\$5.00	\$2,624.64
NORTH APRON	AP N	4225	L&TCR	L	Crack Sealing - AC	653.40	Ft	\$2.75	\$1,796.87
NORTH APRON	AP N	4220	L&TCR	L	Crack Sealing - AC	181.50	Ft	\$2.75	\$499.10

Branch Name	Branch ID	Section ID	Distress Description	Distress Severity Work Description		Work Quantity	Work Unit	Unit Cost	Work Cost
NORTH APRON	AP N	4220	OIL SPILLAGE	N	Surface Seal	87.30	SqFt	\$0.55	\$48.01
NORTH APRON	AP N	4220	RAVELING	L	Surface Seal	1,680.50	SqFt	\$0.55	\$924.27
NORTH APRON	AP N	4218	L&TCR	L	Crack Sealing - AC	4,591.30	Ft	\$2.75	\$12,626.03
NORTH APRON	AP N	4215	DEPRESSION	L	Patching - AC Full Depth	567.00	SqFt	\$5.00	\$2,834.95
NORTH APRON	AP N	4215	L&TCR	L	Crack Sealing - AC	7,017.80	Ft	\$2.75	\$19,298.94
NORTH APRON	AP N	4215	RAVELING	L	Surface Seal	10,954.40	SqFt	\$0.55	\$6,024.99
NORTH APRON	AP N	4205	BLOCK CR	М	Patching - AC Full Depth	24,860.20	SqFt	\$5.00	\$124,301.26
NORTH APRON	AP N	4205	RAVELING	М	Surface Seal	24,860.20	SqFt	\$0.55	\$13,673.24
NORTH APRON	AP N	4203	SCALING	М	Patching - PCC Partial Depth	59.10	SqFt	\$19.10	\$1,127.95
NORTH APRON	AP N	4203	SCALING	L	Patching - PCC Partial Depth	708.70	SqFt	\$19.10	\$13,535.43
NORTH APRON	AP N	4203	Shat. Slab	L	Slab Replacement - PCC	144.00	SqFt	\$45.00	\$6,480.00
NORTH APRON	AP N	4203	SHRINKAGE CR	N	Crack Sealing - PCC	47.20	Ft	\$4.25	\$200.79
NORTH APRON	AP N	4203	JOINT SPALL	L	Patching - PCC Partial Depth	3.20	SqFt	\$19.10	\$61.68
NORTH APRON	AP N	4202	SHRINKAGE CR	N	Crack Sealing - PCC	4.90	Ft	\$4.25	\$20.92
SOUTH APRON	AP S	4115	BLOCK CR	M	Patching - AC Full Depth	89,395.90	SqFt	\$5.00	\$446,979.75
SOUTH APRON	AP S	4115	RAVELING	M	Surface Seal	89,395.90	SqFt	\$0.55	\$49,168.14

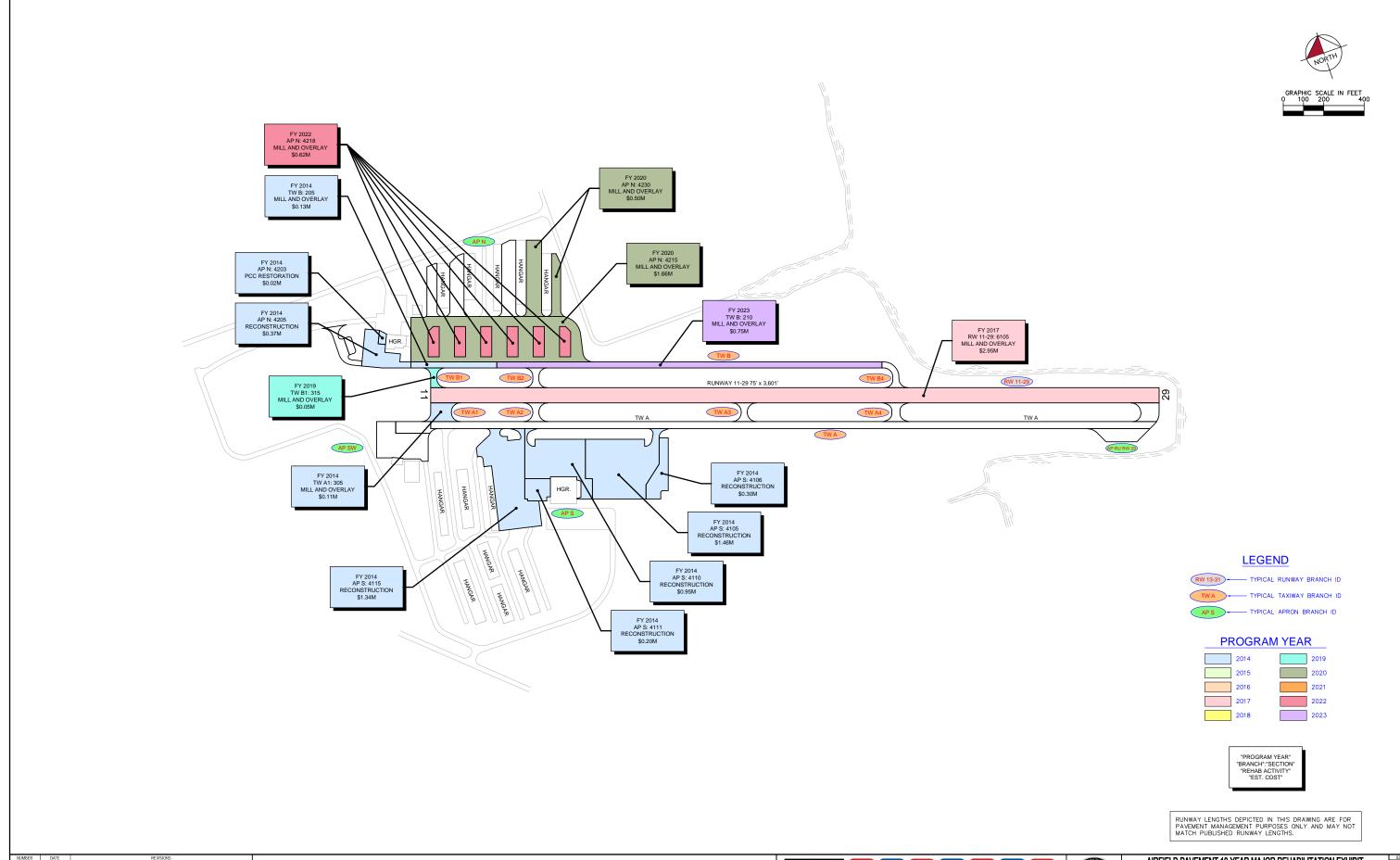
Branch Name	Branch ID	Section ID	Distress Description	Distress Severity	Work Description	Work Quantity	Work Unit	Unit Cost	Work Cost
SOUTH APRON	AP S	4111	BLOCK CR	М	Patching - AC Full Depth	13,470.00	SqFt	\$5.00	\$67,350.06
SOUTH APRON	AP S	4111	RAVELING	М	Surface Seal	13,470.00	SqFt	\$0.55	\$7,408.56
SOUTH APRON	AP S	4110	BLOCK CR	М	Patching - AC Full Depth	63,199.50	SqFt	\$5.00	\$315,997.88
SOUTH APRON	AP S	4110	RAVELING	M	Surface Seal	63,199.50	SqFt	\$0.55	\$34,760.03
SOUTH APRON	AP S	4106	BLOCK CR	M	Patching - AC Full Depth	19,959.80	SqFt	\$5.00	\$99,799.32
SOUTH APRON	AP S	4106	DEPRESSION	L	Patching - AC Full Depth	1,785.50	SqFt	\$5.00	\$8,927.62
SOUTH APRON	AP S	4106	RAVELING	M	Surface Seal	19,959.10	SqFt	\$0.55	\$10,977.59
SOUTH APRON	AP S	4105	BLOCK CR	M	Patching - AC Full Depth	78,491.20	SqFt	\$5.00	\$392,456.21
SOUTH APRON	AP S	4105	DEPRESSION	L	Patching - AC Full Depth	725.30	SqFt	\$5.00	\$3,626.60
SOUTH APRON	AP S	4105	L&TCR	L	Crack Sealing - AC	33.80	Ft	\$2.75	\$92.82
SOUTH APRON	AP S	4105	OIL SPILLAGE	N	Surface Seal	3,710.70	SqFt	\$0.55	\$2,040.89
SOUTH APRON	AP S	4105	RAVELING	М	Surface Seal	75,021.60	SqFt	\$0.55	\$41,262.21
TAXIWAY A4	TW A4	605	L&TCR	L	Crack Sealing - AC	193.00	Ft	\$2.75	\$530.75
TAXIWAY A4	TW A4	605	RAVELING	L	Surface Seal	270.00	SqFt	\$0.55	\$148.50
TAXIWAY A3	TW A3	505	L&TCR	L	Crack Sealing - AC	134.00	Ft	\$2.75	\$368.50
TAXIWAY A3	TW A3	505	RAVELING	M	Surface Seal	36.00	SqFt	\$0.55	\$19.80

Branch Name	Branch ID	Section ID	Distress Description	Distress Severity	Work Liescription		Work Unit	Unit Cost	Work Cost
TAXIWAY B2	TW B2	410	L&TCR	L	Crack Sealing - AC	55.00	Ft	\$2.75	\$151.25
TAXIWAY B2	TW B2	410	RAVELING	L	Surface Seal	215.00	SqFt	\$0.55	\$118.25
TAXIWAY B2	TW B2	410	RAVELING	М	Surface Seal	22.00	SqFt	\$0.55	\$12.10
TAXIWAY A2	TW A2	405	L&TCR	L	Crack Sealing - AC	53.00	Ft	\$2.75	\$145.75
TAXIWAY A2	TW A2	405	RAVELING	M	Surface Seal	44.00	SqFt	\$0.55	\$24.20
TAXIWAY B1	TW B1	315	DEPRESSION	L	Patching - AC Full Depth	64.10	SqFt	\$5.00	\$320.75
TAXIWAY B1	TW B1	315	L&TCR	L	Crack Sealing - AC	93.00	Ft	\$2.75	\$255.75
TAXIWAY B1	TW B1	315	RAVELING	L	Surface Seal	405.00	SqFt	\$0.55	\$222.75
TAXIWAY B1	TW B1	315	RAVELING	M	Surface Seal	34.00	SqFt	\$0.55	\$18.70
TAXIWAY A1	TW A1	305	DEPRESSION	L	Patching - AC Full Depth	113.00	SqFt	\$5.00	\$564.89
TAXIWAY A1	TW A1	305	L&TCR	L	Crack Sealing - AC	753.20	Ft	\$2.75	\$2,071.28
TAXIWAY A1	TW A1	305	RAVELING	L	Surface Seal	1,073.00	SqFt	\$0.55	\$590.18
TAXIWAY A1	TW A1	305	RAVELING	М	Surface Seal	44.40	SqFt	\$0.55	\$24.40
TAXIWAY B4	TW B4	216	L&TCR	L	Crack Sealing - AC	135.70	Ft	\$2.75	\$373.25
TAXIWAY B4	TW B4	216	RAVELING	М	Surface Seal	45.90	SqFt	\$0.55	\$25.25
TAXIWAY B4	TW B4	216	RAVELING	L	Surface Seal	544.90	SqFt	\$0.55	\$299.70

Branch Name	Branch ID	Section ID	Distress Description	Distress Severity	Work Description	Work Quantity	Work Unit	Unit Cost	Work Cost
TAXIWAY B	TW B	210	L&TCR	L	Crack Sealing - AC	2,667.00	Ft	\$2.75	\$7,334.24
TAXIWAY B	TW B	210	RAVELING	М	Surface Seal	288.60	SqFt	\$0.55	\$158.75
TAXIWAY B	TW B	210	RAVELING	L	Surface Seal	6,234.50	SqFt	\$0.55	\$3,429.03
TAXIWAY B	TW B	205	L&TCR	L	Crack Sealing - AC	875.50	Ft	\$2.75	\$2,407.62
TAXIWAY B	TW B	205	RAVELING	М	Surface Seal	34.00	SqFt	\$0.55	\$18.70
TAXIWAY B	TW B	205	RAVELING	L	Surface Seal	6,375.00	SqFt	\$0.55	\$3,506.28
TAXIWAY A	TW A	110	DEPRESSION	L	Patching - AC Full Depth	249.00	SqFt	\$5.00	\$1,245.05
TAXIWAY A	TW A	110	L & T CR	L	Crack Sealing - AC	343.10	Ft	\$2.75	\$943.44
TAXIWAY A	TW A	110	RAVELING	L	Surface Seal	905.10	SqFt	\$0.55	\$497.79
TAXIWAY A	TW A	105	L & T CR	L	Crack Sealing - AC	3,711.10	Ft	\$2.75	\$10,205.49
TAXIWAY A	TW A	105	RAVELING	L	Surface Seal	3,939.90	SqFt	\$0.55	\$2,166.97
TAXIWAY A	TW A	105	RAVELING	М	Surface Seal	607.80	SqFt	\$0.55	\$334.29
	•						•	Total =	\$ 1,820,738.97

APPENDIX F

- AIRFIELD PAVEMENT 10-YEAR MAJOR REHABILITATION
 EXHIBIT
- AIRFIELD PAVEMENT 10-YEAR MAJOR REHABILITATION
 TABLE



OFFICE OF FREIGHT, LOGISTICS & PASSENGER OPERATIONS



AIRFIELD PAVEMENT 10-YEAR MAJOR REHABILITATION EXHIBIT MERRITT ISLAND AIRPORT BREVARD COUNTY, FLORIDA FLORIDA DEPARTMENT OF TRANSPORTATION - AVIATION AND SPACEPORT OFFICE



Table F-1: Airfield Pavement 10-Year Major Rehabilitation Table

Year	Branch ID	Section ID	Major M&R Costs*	PCI Before M&R	M&R Activity	PCI After M&R
2014	AP N	4205	\$372,903.54	25	Reconstruction	100
2014	AP N	4203	\$22,015.00	58	PCC Restoration	100
2014	AP S	4115	\$1,340,938.37	24	Reconstruction	100
2014	AP S	4111	\$202,050.05	24	Reconstruction	100
2014	AP S	4110	\$947,993.02	24	Reconstruction	100
2014	AP S	4106	\$299,400.07	19	Reconstruction	100
2014	AP S	4105	\$1,463,994.35	27	Reconstruction	100
2014	TW A1	305	\$107,387.10	65	Mill and Overlay	100
2014	TW B	205	\$127,499.99	65	Mill and Overlay	100
2017	RW 11-29	6105	\$2,952,821.40	65	Mill and Overlay	100
2019	TW B1	315	\$46,907.59	65	Mill and Overlay	100
2020	AP N	4230	\$503,924.20	64	Mill and Overlay	100
2020	AP N	4215	\$1,661,029.24	64	Mill and Overlay	100
2022	AP N	4218	\$619,133.85	65	Mill and Overlay	100
2023	TW B	210	\$745,677.84	65	Mill and Overlay	100
		Total =	\$11,413,675.61			

^{*} Costs are adjusted for inflation at 3%

APPENDIX G

PHOTOGRAPHS



Runway 11-29, Section 6105, Sample Unit 100 – Low Severity (48) Longitudinal and Transverse Cracking, Low Severity (57) Weathering, Low Severity (52) Raveling



Runway 11-29, Section 6105, Sample Unit 103 – Low Severity (48) Longitudinal and Transverse Cracking, Low Severity (57) Weathering, Low Severity (52) Raveling



Runway 11-29, Section 6105, Sample Unit 149 – Low Severity (48) Longitudinal and Transverse Cracking, Low Severity (57) Weathering, Low Severity (52) Raveling



Runway 11-29, Section 6105, Sample Unit 167 – Low Severity (48) Longitudinal and Transverse Cracking, Low Severity (57) Weathering, Low Severity (52) Raveling



Taxiway A, Section 110, Sample Unit 101 – Low Severity (48) Longitudinal and Transverse Cracking, Low Severity (45) Depression, Low Severity (52) Raveling



Taxiway A, Section 105, Sample Unit 115 – Low Severity (48) Longitudinal and Transverse Cracking, Low Severity (57) Weathering



Taxiway A1, Section 305, Sample Unit 101 – Low Severity (48) Longitudinal and Transverse Cracking, Low Severity (45) Depression, Low Severity (57) Weathering



Apron SW, Section 4310, Sample Unit 101 – Low Severity (48) Longitudinal and Transverse Cracking, Low Severity (57) Weathering



Apron S, Section 4115, Sample Unit 406 - Medium Severity (43) Block Cracking, Medium Severity (52) Raveling



Apron S, Section 4105, Sample Unit 201 -Medium Severity (43) Block Cracking, Medium Severity (52) Raveling, Oil Spillage (49)



Apron Run-Up Runway 29, Section 5105, Sample Unit 102 - Low Severity (57) Weathering, Medium Severity (52) Raveling



Taxiway B, Section 210, Sample Unit 123 - Low Severity (57) Weathering, Low Severity (52) Raveling



Taxiway B4, Section 410, Sample Unit 400 – Low Severity (48) Longitudinal and Transverse Cracking, Low Severity (57) Weathering, Low and Medium Severity (52) Raveling



Apron N, Section 4205, Sample Unit 197 - Medium Severity (43) Block Cracking, Medium Severity (52) Raveling



Apron N, Section 4203, Sample Unit 100 – Low Severity (70) Scaling, Map Cracking, Crazing, Low Severity (74) Joint Spalling, Shrinkage Cracking (73)



Apron N, Section 4215, Sample Unit 355 – Low Severity (48) Longitudinal and Transverse Cracking, Low Severity (57) Weathering, Low Severity (45) Depression

APPENDIX H

DISTRESS DATA – RE-INSPECTION REPORT

FDOT

Report Generated Date: August 29, 2013

Network:	COI	Name: M	ERRITT ISLAND					
Branch:	AP N	Name: No	ORTH APRON		Use: APRON	Area: 32	20,118.87SqFt	
Section: Surface:	4202 PCC	of 8 Family:	From: - FDOT-GA-PCC		То: -	Zone:	Last Const.: Category:	01/01/2011 Rank: P
Area:	3,023.08SqFt	Leng	gth: 100.00Ft	Width:	30.00Ft			
Slabs: 21	S	lab Width:	12.00Ft	Slab Length:	12.00Ft	Joint Length:	370.00Ft	
Shoulder:	Street T	ype:	Grade: 0.00	Lanes: 0				
Section Con	nments:							

Last Insp. Date: 08/20/2013 Total Samples: 1 Surveyed: 1

Conditions: PCI:99 Inspection Comments:

PCI = 99Type: R 21.00Slabs Sample Number: Area: 200

Sample Comments:

73 SHRINKAGE CRACKING N 1.00 Slabs Comments:

FDOT

Report Generated Date: August 29, 2013

Network:	COI	Name: M	ERRITT ISLAND					
Branch:	AP N	Name: N	ORTH APRON		Use: APRON	Area: 32	0,118.87SqFt	
Section:	4203	of 8	From: -		То: -		Last Const.:	01/01/1990
Surface:	PCC	Family:	FDOT-GA-PCC			Zone:	Category:	Rank: P
Area:	2,201.50SqFt	Leng	gth: 50.00Ft	Width:	40.00Ft			
Slabs: 18	S	lab Width:	12.00Ft	Slab Length:	10.00Ft	Joint Length:	276.67Ft	
Shoulder:	Street T	ype:	Grade: 0.00	Lanes: 0				

Section Comments:

Last Insp. Date: 08/20/2013 Total Samples: 1 Surveyed: 1

Conditions: PCI: 58 Inspection Comments:

Sample Number: 100 Type: R	Area:	15.00Slabs	PCI = 58
Sample Comments:			
63 LINEAR CRACKING	L	7.00 Sla	abs Comments:
70 SCALING/CRAZING	L	12.00 Sla	abs Comments:
70 SCALING/CRAZING	M	1.00 Sla	abs Comments:
72 SHATTERED SLAB	L	1.00 Sla	abs Comments:
73 SHRINKAGE CRACKING	N	4.00 Sla	abs Comments:
74 JOINT SPALLING	L	1.00 Sla	abs Comments:
73 SHRINKAGE CRACKING	N	4.00 Sla	abs Comments:

FDOT

Report Generated Date: August 29, 2013

Street Type:

Network: COI Name: MERRITT ISLAND Branch: AP N Name: NORTH APRON Use: APRON Area: 320,118.87SqFt Section: 4205 8 From: -То: -Last Const.: 01/01/2005 of Family: FDOT-GA-AP-AAC Surface: Zone: Category: Rank: P ACArea: 24,860.23SqFt Length: 120.00Ft Width: 200.00Ft

Lanes: 0

Section Comments:

Shoulder:

Last Insp. Date: 08/20/2013 Total Samples: 8 Surveyed: 1

Grade: 0.00

Conditions: PCI: 25 Inspection Comments:

Sample Number: 197 Type: R Area: 2,500.00SqFt PCI = 25

Sample Comments: Seal Coat. Thin Sand?

43 BLOCK CRACKING M 2,500.00 SqFt Comments: 52 RAVELING M 2,500.00 SqFt Comments:

FDOT

Report Generated Date: August 29, 2013

Report Generated Date: August 29, 2013							
Network: COI Name: MERRITT ISLAND							
Branch: AP N Name: NORTH APRON			Use: AI	PRON	Area:	320,118.87SqFt	
Section: 4215 of 8 From: -			То: -			Last Const.:	01/01/2005
Surface: AAC Family: FDOT-GA-AP-AAC					Zone:	Category:	Rank: P
Area: 139,108.59SqFt Length: 1,000.00Ft		Widt	th: 139.00)Ft			
Shoulder: Street Type: Grade: 0.00	Lanes:	0					
Section Comments:							
Last Insp. Date: 08/20/2013 Total Samples: 34 Sur Conditions: PCI: 73 Inspection Comments:	rveyed: 4	1					
Sample Number: 200 Type: R Sample Comments:	Area:		4,937.50SqFt		PCI = 72		
48 LONGITUDINAL/TRANSVERSE CRACKING		L	214.00	Ft	Comments	:	
50 PATCHING		L	234.00		Comments	:	
57 WEATHERING		L	4,703.00	SqFt	Comments	:	
52 RAVELING		L	494.00	SqFt	Comments	:	
Sample Number: 254 Type: R Sample Comments: Start of Swell	Area:		3,750.00SqFt		PCI = 83		
48 LONGITUDINAL/TRANSVERSE CRACKING		L	63.00	Ft	Comments	:	
57 WEATHERING		L	3,750.00		Comments	:	
52 RAVELING		L	188.00	SqFt	Comments	:	
Sample Number: 302 Type: R Sample Comments:	Area:		3,750.00SqFt		PCI = 82		
48 LONGITUDINAL/TRANSVERSE CRACKING		L	62.00	Ft	Comments	:	
56 SWELLING		L		SqFt	Comments		
57 WEATHERING		L	3,750.00		Comments		
52 RAVELING		L	188.00		Comments	:	
Sample Number: 355 Type: R Sample Comments:	Area:		5,125.00SqFt		PCI = 59		
48 LONGITUDINAL/TRANSVERSE CRACKING		L	182.00	Ft	Comments	:	
48 LONGITUDINAL/TRANSVERSE CRACKING		L	365.00		Comments	:	
50 PATCHING		L	9.00	SqFt	Comments	:	
45 DEPRESSION		L	60.00	-	Comments	:	
57 WEATHERING		L	5,116.00	SqFt	Comments	:	
		L	513.00				

FDOT

Report Generated Date: August 29, 2013

Network: COI Name: MERRITT ISLAND					
Branch: AP N Name: NORTH APRON		Use: APRON	Area:	320,118.87SqFt	
Section: 4218 of 8 From: -		То: -		Last Const.:	01/01/2005
Surface: AAC Family: FDOT-GA-AP-AAC			Zone:	Category:	Rank: P
Area: 48,875.00SqFt Length: 480.00Ft	t Wi	idth: 100.00Ft			
Shoulder: Street Type: Grade: 0.00	Lanes: 0				
Section Comments: Last Insp. Date: 08/20/2013 Total Samples: 12 Su	urveyed: 2				
	urveyed: 2				
Last Insp. Date: 08/20/2013 Total Samples: 12 St. Conditions: PCI: 78 Inspection Comments: Sample Number: 820 Type: R	urveyed: 2 Area:	4,125.00SqFt	PCI = 74		
Last Insp. Date: 08/20/2013 Total Samples: 12 St. Conditions: PCI: 78 Inspection Comments: Sample Number: 820 Type: R Sample Comments: Epoxy seal. Perimeter crack		4,125.00SqFt 506.00 Ft	PCI = 74 Comments	g:	
Last Insp. Date: 08/20/2013 Total Samples: 12 St. Conditions: PCI: 78 Inspection Comments: Sample Number: 820 Type: R Sample Comments: Epoxy seal. Perimeter crack 48 LONGITUDINAL/TRANSVERSE CRACKING Sample Number: 881 Type: R	Area:	•		3:	
Last Insp. Date: 08/20/2013 Total Samples: 12 St. Conditions: PCI: 78 Inspection Comments: Sample Number: 820 Type: R Sample Comments: Epoxy seal. Perimeter crack 48 LONGITUDINAL/TRANSVERSE CRACKING	Area:	506.00 Ft	Comments		

FDOT

Report Generated Date: August 29, 2013

Network:	COI	Name: MERRITT IS	SLAND						
Branch:	AP N	Name: NORTH AP	RON			Use: APRON	Area:	320,118.87SqFt	
Section:	4220	of 8 From:				То: -		Last Const.:	01/01/2005
Surface:	AC	Family: FDOT-G	A-AP-AAC				Zone:	Category:	Rank: P
Area:	33,609.36SqFt	Length:	336.00Ft		Width:	100.00Ft			
Shoulder:	Street T	ype: Grade:	0.00	Lanes:	0				

Section Comments:

Last Insp. Date: 08/20/2013 Total Samples: 6 Surveyed: 1

Conditions: PCI: 82 Inspection Comments:

	ple Number:	501	Type: R		Area:		5,000.00SqFt		PCI = 82
	L	INAL/TI	RANSVERSE	CRACKING		L	17.00	Ft	Comments:
48	LONGITUD	INAL/TI	RANSVERSE	CRACKING		L	10.00	Ft	Comments:
49	OIL SPIL	LAGE				N	8.00	SqFt	Comments:
57	WEATHERI	NG				L	4,992.00	SqFt	Comments:
52	RAVELING					L	250.00	SqFt	Comments:

FDOT

Report Generated Date: August 29, 2013

Network:	COI	Name: MERRITT IS	SLAND						
Branch:	AP N	Name: NORTH API	RON			Use: APRON	Area:	320,118.87SqFt	
Section:	4225	of 8 From:	-			То: -		Last Const.:	01/01/2005
Surface:	AC	Family: FDOT-G	A-AP-AAC				Zone:	Category:	Rank: P
Area:	26,238.25SqFt	Length:	340.00Ft		Width:	75.00Ft			
Shoulder:	Street T	ype: Grade:	0.00	Lanes:	0				

Section Comments:

Last Insp. Date: 08/20/2013 Total Samples: 4 Surveyed: 1

Conditions: PCI: 80 Inspection Comments:

Sample Number: 600 Type: R	Area:	7,268.25SqFt		PCI = 80
Sample Comments:				
48 LONGITUDINAL/TRANSVERSE CRACKING	L	96.00	Ft	Comments:
48 LONGITUDINAL/TRANSVERSE CRACKING	L	85.00	Ft	Comments:
50 PATCHING	L	111.00	SqFt	Comments:
45 DEPRESSION	L	121.00	SqFt	Comments:

FDOT

Report Generated Date: August 29, 2013

Network:	COI	Name: MERRITT ISLAND					
Branch:	AP N	Name: NORTH APRON		Use: APRON	Area:	320,118.87SqFt	
Section: Surface:	4230 AAC	of 8 From: - Family: FDOT-GA-AP-AAC		То: -	Zone:	Last Const.: Category:	01/01/2005 Rank: P
Area: Shoulder:	42,202.86SqFt Street Ty	Length: 200.00Ft ype: Grade: 0.00	Width: Lanes: 0	200.00Ft			

Section Comments:

Last Insp. Date: 08/20/2013 Total Samples: 7 Surveyed: 1

Conditions: PCI: 73 Inspection Comments:

Sample Number: 701 Type: R Sample Comments:	Area:	4,500.00SqFt		PCI = 73
48 LONGITUDINAL/TRANSVERSE CRACKING	L	185.00	Ft	Comments:
48 LONGITUDINAL/TRANSVERSE CRACKING	L	28.00	Ft	Comments:
49 OIL SPILLAGE	N	15.00	SqFt	Comments:
57 WEATHERING	$_{ m L}$	4,469.00	SqFt	Comments:
52 RAVELING	L	450.00	SqFt	Comments:
49 OIL SPILLAGE	N	16.00	SqFt	Comments:

FDOT

Report Generated Date: August 29, 2013

Network:	COI	Name: MERRITT IS	SLAND					
Branch:	AP RU RW29	Name: RUN-UP AP	RON AT RW 29		Use: APRON	Area:	14,226.02SqFt	
Section:	5105	of 1 From:	-		То: -		Last Const.:	01/01/2002
Surface:	AAC	Family: FDOT-G	A-AP-AAC			Zone:	Category:	Rank: P
Area:	14,226.02SqFt	Length:	280.00Ft	Width:	50.00Ft			
Shoulder:	Street Ty	pe: Grade:	0.00 Lan	es: 0				

Section Comments:

Last Insp. Date: 08/20/2013 Total Samples: 3 Surveyed: 1

Conditions: PCI: 82 Inspection Comments:

Sample Number: 102 Type: R	Area:		6,500.00SqFt		PCI = 82
Sample Comments:					
52 RAVELING		M	32.00	SqFt	Comments:
57 WEATHERING		L	6,468.00	SqFt	Comments:
52 RAVELING		L	100.00	SqFt	Comments:
48 LONGITUDINAL/TRANSVERSE C	CRACKING	L	12.00	Ft	Comments:

FDOT

57 WEATHERING

Report Generated Date: August 29, 2013

Network: COI Name: MERRITT ISLAND					
Branch: AP S Name: SOUTH APRON		Use: APR	ON Area:	283,624.99SqFt	
Section: 4105 of 5 From: -		То: -		Last Const.:	01/01/1996
Surface: AAC Family: FDOT-GA-AP-AA	C		Zone:	Category:	Rank: P
Area: 97,599.60SqFt Length: 450.00F	∃t '	Width: 200.00Ft			
Shoulder: Street Type: Grade: 0.00	Lanes: ()			
Section Comments:					
Last Insp. Date: 08/20/2013 Total Samples: 21 S	Surveyed: 3				
Conditions: PCI: 28	•				
Inspection Comments:					
Sample Number: 201 Type: R	Area:	5,000.00SqFt	PCI = 23		
Sample Comments: Seal. Oil spillage and raveling do not share the	e same area.				
49 OIL SPILLAGE	I.		_	ts:	
43 BLOCK CRACKING	M	5,000.00 8	SqFt Commen	ts:	
52 RAVELING	M	1 4,626.00 S	SqFt Commen	ts:	
Sample Number: 400 Type: R	Area:	5,000.00SqFt	PCI = 22		
Sample Comments: Seal	λ.	140 00 6	Taret Common	 •	
49 OIL SPILLAGE 43 BLOCK CRACKING	M N		-		
	=	•	_		
52 RAVELING	M	4,860.00 \$	SqFt Commen	LS•	
Sample Number: 599 Type: R	Area:	4,458.80SqFt	PCI = 41		
Sample Comments: Partial Seal					
43 BLOCK CRACKING	M	,			
52 RAVELING	M	,	_	ts:	
45 DEPRESSION	I		_	ts:	
45 DEPRESSION	I		_	ts:	
48 LONGITUDINAL/TRANSVERSE CRACKING	I	5.00 E	ft Commen	ts:	

2,830.80 SqFt Comments:

FDOT

Report Generated Date: August 29, 2013

0.1.10.1.11.0.0
.: 01/01/1996
Rank: P

Sample Number: 199	Type: R	Area:	5,213.24SqFt	PCI = 20	
Sample Comments: Seal					
45 DEPRESSION		L	180.00 S	gft Comments:	
45 DEPRESSION		L	75.00 S	qFt Comments:	
45 DEPRESSION		L	168.00 S	GqFt Comments:	
43 BLOCK CRACKING		M	5,213.20 S	GqFt Comments:	
52 RAVELING		M	5,213.00 S	qFt Comments:	

FDOT

Report Generated Date: August 29, 2013

Network: COI	Name:	MERRITT IS	LAND							
Branch: AP S	Name:	SOUTH APR	.ON			Use: AP	RON	Area:	283,624.99SqFt	
Section: 4110	of :	From:	-			То: -			Last Const.:	01/01/1996
Surface: AAC	Fam	ily: FDOT-G <i>A</i>	A-AP-AAC					Zone:	Category:	Rank: P
Area: 63,199.52Sc	qFt	Length:	310.00Ft		Width:	200.001	Ft			
Shoulder: Stre	eet Type:	Grade:	0.00	Lanes:	0					
Section Comments:										
Last Insp. Date: 08/2	20/2013 Total	Samples: 14	4 Surv	veyed: 2	<u>.</u>					
Last Insp. Date: 08/2 Conditions: PCI: 25 Inspection Comments:	.		4 Surv					DOV. 4.5		
Last Insp. Date: 08/2 Conditions: PCI: 25 Inspection Comments: Sample Number: 4	.	Samples: 14	4 Surv	veyed: 2		000.00SqFt		PCI = 25		
Last Insp. Date: 08/2 Conditions: PCI: 25 Inspection Comments: Sample Number: 4	404 T		4 Surv			•	SaFt	PCI = 25	ā:	
Last Insp. Date: 08/2 Conditions: PCI: 25 Inspection Comments: Sample Number: 4 Sample Comments:	404 T		4 Surv		5,0	000.00SqFt 5,000.00 5,000.00	_			
Last Insp. Date: 08/2 Conditions: PCI: 25 Inspection Comments: Sample Number: 4 Sample Comments: 43 BLOCK CRAC 52 RAVELING Sample Number: 5	404 T		4 Surv		5,0 M M	5,000.00	_	Comments		
Last Insp. Date: 08/2 Conditions: PCI: 25 Inspection Comments: Sample Number: 4 Sample Comments: 43 BLOCK CRAC 52 RAVELING	404 T CKING 503 T	Yype: R	4 Surv	Area:	5,0 M M	5,000.00	SqFt	Comments Comments	5:	

FDOT

Report Generated Date: August 29, 2013

		145431 22, 2013							
Network:	COI	Name: MERRITT I	SLAND						
Branch:	AP S	Name: SOUTH API	RON			Use: APRON	Area:	283,624.99SqFt	
Section:	4111	of 5 From:	-			То: -		Last Const.:	01/01/1996
Surface:	AAC	Family: FDOT-G	A-AP-AAC				Zone:	Category:	Rank: P
Area:	13,470.00SqFt	Length:	134.00Ft		Width:	100.00Ft			
Shoulder:	Street T	ype: Grade:	0.00	Lanes:	0				

Section Comments:

Last Insp. Date: 08/20/2013 Total Samples: 2 Surveyed: 1

Conditions: PCI: 25 Inspection Comments:

Sample Number: 205 Type: R Area: 6,350.00SqFt PCI = 25

Sample Comments:

43 BLOCK CRACKING M 6,350.00 SqFt Comments: 52 RAVELING M 6,350.00 SqFt Comments:

FDOT

Network: COI	Name:	MERRITT ISLA	ND						
Branch: AP S	Name:	SOUTH APRON			Use: APRO	N Area:	283,624.99	SqFt	
Section: 4115 Surface: AAC	of 5	From: - ly: FDOT-GA-Al	D AAC		То: -	Zone:		Const.: gory:	01/01/1996 Rank: P
Area: 89,395.87SqFt		-	50.00Ft	W	idth: 200.00Ft	Zone.	Cate	gory.	Kank. F
		C			200.00Ft				
Shoulder: Street	Type:	Grade: 0.0	10 Lai	es: 0					
Section Comments:									
Conditions. FCI . 25									
Conditions: PCI: 25 Inspection Comments: Sample Number: 106	T	ype: R	Are	a:	5,000.00SqFt	PCI = 25			
Inspection Comments: Sample Number: 106 Sample Comments:	•	ype: R	Are				nts:		
Inspection Comments: Sample Number: 106	•	ype: R	Are	a: M M	5,000.00SqFt 5,000.00 Sq 5,000.00 Sq	qFt Comme			
Inspection Comments: Sample Number: 106 Sample Comments: 43 BLOCK CRACKI 52 RAVELING Sample Number: 177	NG	ype: R	Are	M M	5,000.00 Sq	qFt Comme			
Inspection Comments: Sample Number: 106 Sample Comments: 43 BLOCK CRACKI 52 RAVELING Sample Number: 177 Sample Comments:	NG T			M M	5,000.00 Sc	qFt Comme qFt Comme PCI = 25	nts:		
Inspection Comments: Sample Number: 106 Sample Comments: 43 BLOCK CRACKI 52 RAVELING	NG T			M M a:	5,000.00 Sc 5,000.00 Sc 3,361.74SqFt	qFt Comme $PCI = 25$ qFt Comme	nts:		
Inspection Comments: Sample Number: 106 Sample Comments: 43 BLOCK CRACKI 52 RAVELING Sample Number: 177 Sample Comments: 43 BLOCK CRACKI 52 RAVELING Sample Number: 406	NG T <u>i</u>			M M a: M M	5,000.00 Sc 5,000.00 Sc 3,361.74SqFt 3,361.74 Sc	qFt Comme $PCI = 25$ qFt Comme	nts:		
Inspection Comments: Sample Number: 106 Sample Comments: 43 BLOCK CRACKI 52 RAVELING Sample Number: 177 Sample Comments: 43 BLOCK CRACKI 52 RAVELING	NG T <u>i</u> NG	ype: R	Are	M M a: M M	5,000.00 Sc 5,000.00 Sc 3,361.74SqFt 3,361.74 Sc 3,361.74 Sc	qFt Comme $PCI = 25$ qFt Comme $PCI = 25$	ents: ents: ents:		

FDOT

Report Generated Date: August 29, 2013

Network: COI Name: MERRITT ISLAND Branch: AP SW Name: SW APRON Use: APRON Area: 47,896.56SqFt Section: 4305 From: -То: -Last Const.: 01/01/2003 of 2 Family: FDOT-GA-AP-AC Surface: Zone: Category: Rank: P ACArea: 37,682.42SqFt Length: 376.00Ft Width: 100.00Ft

Lanes: 0

Section Comments:

Shoulder:

Last Insp. Date: 08/20/2013 Total Samples: 7 Surveyed: 1

Conditions: PCI: 89 Inspection Comments:

Sample Number: 200 Type: R Area: 5,700.00SqFt PCI = 89

Grade: 0.00

Sample Comments: Thin Seal Coat. Epoxy? Cement

Street Type:

48 LONGITUDINAL/TRANSVERSE CRACKING L 30.00 Ft Comments:

45 DEPRESSION L 57.00 SqFt Comments:

FDOT

Report Generated Date: August 29, 2013

Street Type:

Network: COI Name: MERRITT ISLAND Branch: AP SW Name: SW APRON Use: APRON Area: 47,896.56SqFt Section: 4310 2 From: -То: -Last Const.: 01/01/2003 of Family: FDOT-GA-AP-AC Surface: Zone: Category: Rank: P AC Area: 10,214.14SqFt Length: 50.00Ft Width: 200.00Ft

Lanes: 0

Section Comments:

Shoulder:

Last Insp. Date: 08/20/2013 Total Samples: 2 Surveyed: 1

Grade: 0.00

Conditions: PCI: 85 Inspection Comments:

Sample Number: 101 Type: R Area: 4,640.00SqFt PCI = 85

Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING L 136.00 Ft Comments:

57 WEATHERING L 4,640.00 SqFt Comments:

FDOT

Report Generated Date: August 29, 2013				
Network: COI Name: MERRITT ISLAND				
Branch: RW 11-29 Name: RUNWAY 11-29		Use: RUNWA	AY Area: 2	270,225.00SqFt
Section: 6105 of 1 From: - Surface: AAC Family: FDOT-GA-RW-AA	С	То: -	Zone:	Last Const.: 01/01/2002 Category: Rank: P
Area: 270,225.00SqFt Length: 3,600.00F	t	Width: 75.00Ft		
Shoulder: Street Type: Grade: 0.00	Lanes:	0		
Section Comments:				
Last Insp. Date: 08/20/2013 Total Samples: 72 S	urveyed: 15			
Conditions: PCI: 69 Inspection Comments:				
Sample Number: 100 Type: R	Area:	3,750.00SqFt	PCI = 70	
Sample Comments: 48 LONGITUDINAL/TRANSVERSE CRACKING		L 110.00 Ft	Comments	:
57 WEATHERING		L 3,750.00 Sql		
52 RAVELING	:	L 1,875.00 Sql		
Sample Number: 103 Type: R	Area:	3,750.00SqFt	PCI = 68	
Sample Comments: 48 LONGITUDINAL/TRANSVERSE CRACKING		L 174.00 Ft	Comments	:
52 RAVELING		M 50.00 Sql		
57 WEATHERING		L 3,700.00 Sql		
52 RAVELING	:	L 1,224.00 Sql		:
Sample Number: 107 Type: R Sample Comments:	Area:	3,750.00SqFt	PCI = 71	
48 LONGITUDINAL/TRANSVERSE CRACKING	:	L 266.00 Ft	Comments	:
57 WEATHERING		L 3,750.00 Sql		:
52 RAVELING		L 100.00 Sql	Ft Comments	:
Sample Number: 110 Type: R Sample Comments:	Area:	3,750.00SqFt	PCI = 67	
48 LONGITUDINAL/TRANSVERSE CRACKING		L 379.00 Ft	Comments	:
52 RAVELING	:	L 256.00 Sql	Ft Comments	:
57 WEATHERING		L 3,750.00 Sql	Ft Comments	:
Sample Number: 113 Type: R Sample Comments:	Area:	3,750.00SqFt	PCI = 71	
48 LONGITUDINAL/TRANSVERSE CRACKING		L 277.00 Ft	Comments	:
57 WEATHERING	:	L 3,750.00 Sql	Ft Comments	:
52 RAVELING	:	L 1,050.00 Sql	Ft Comments	:
Sample Number: 119 Type: R	Area:	3,750.00SqFt	PCI = 70	
Sample Comments: 48 LONGITUDINAL/TRANSVERSE CRACKING		L 282.00 Ft	Comments	:
57 WEATHERING		L 3,750.00 Sql	Ft Comments	:
52 RAVELING	<u> </u>	L 300.00 Sql	Ft Comments	:
Sample Number: 125 Type: R Sample Comments:	Area:	3,750.00SqFt	PCI = 72	
48 LONGITUDINAL/TRANSVERSE CRACKING		L 252.00 Ft	Comments	:
52 RAVELING		L 300.00 Sql		
57 WEATHERING		L 3,750.00 Sql	Ft Comments	:

FDOT

Sample Number: 131 Type: R Sample Comments:	Area:		3,750.00SqFt	PCI = 69
48 LONGITUDINAL/TRANSVERSE CRACKING		L	308.00 Ft	Comments:
52 RAVELING		L	300.00 SqFt	Comments:
57 WEATHERING		L	3,750.00 SqFt	
Sample Number: 137 Type: R Sample Comments:	Area:		3,750.00SqFt	PCI = 70
48 LONGITUDINAL/TRANSVERSE CRACKING		L	300.00 Ft	Comments:
52 RAVELING		L	250.00 SqFt	Comments:
57 WEATHERING		L	3,750.00 SqFt	
Sample Number: 143 Type: R	Area:		3,750.00SqFt	PCI = 74
Sample Comments: 48 LONGITUDINAL/TRANSVERSE CRACKING		L	278.00 Ft	Comments:
57 WEATHERING		L	300.00 SqFt	
52 RAVELING		M	20.00 SqFt	
			_	
Sample Number: 149 Type: R Sample Comments:	Area:		3,750.00SqFt	PCI = 61
48 LONGITUDINAL/TRANSVERSE CRACKING		L	195.00 Ft	Comments:
52 RAVELING		L	2,813.00 SqFt	Comments:
52 RAVELING		M	100.00 SqFt	
57 WEATHERING		L	3,650.00 SqFt	Comments:
Sample Number: 155 Type: R Sample Comments:	Area:		3,750.00SqFt	PCI = 67
48 LONGITUDINAL/TRANSVERSE CRACKING		L	248.00 Ft	Comments:
52 RAVELING		M	10.00 SqFt	Comments:
52 RAVELING		L	500.00 SqFt	Comments:
57 WEATHERING		L	3,740.00 SqFt	Comments:
Sample Number: 161 Type: R Sample Comments:	Area:		3,750.00SqFt	PCI = 68
48 LONGITUDINAL/TRANSVERSE CRACKING		L	345.00 Ft	Comments:
52 RAVELING		L	300.00 SqFt	
57 WEATHERING		L	3,750.00 SqFt	
Sample Number: 167 Type: R	Area:		3,750.00SqFt	PCI = 69
Sample Number: 167 Type: R Sample Comments: 48 LONGITUDINAL/TRANSVERSE CRACKING	Area:	L	3,750.00SqFt 135.00 Ft	PCI = 69 Comments:
Sample Comments:	Area:	L L	135.00 Ft	Comments:
Sample Comments: 48 LONGITUDINAL/TRANSVERSE CRACKING 52 RAVELING	Area:		135.00 Ft 1,125.00 SqFt	Comments:
Sample Comments: 48 LONGITUDINAL/TRANSVERSE CRACKING	Area:	L	135.00 Ft	Comments: Comments:
Sample Comments: 48 LONGITUDINAL/TRANSVERSE CRACKING 52 RAVELING 57 WEATHERING	Area:	L L	135.00 Ft 1,125.00 SqFt 3,740.00 SqFt	Comments: Comments:
Sample Comments: 48 LONGITUDINAL/TRANSVERSE CRACKING 52 RAVELING 57 WEATHERING 52 RAVELING Sample Number: 170 Type: R		L L	135.00 Ft 1,125.00 SqFt 3,740.00 SqFt 10.00 SqFt	Comments: Comments: Comments:
Sample Comments: 48 LONGITUDINAL/TRANSVERSE CRACKING 52 RAVELING 57 WEATHERING 52 RAVELING Sample Number: 170 Type: R Sample Comments:		L L M	135.00 Ft 1,125.00 SqFt 3,740.00 SqFt 10.00 SqFt	Comments: Comments: Comments: PCI = 70 Comments:

FDOT

Network: COI Name: MERRITT ISLAND					
Branch: TW A Name: TAXIWAY A		Use: TAXIWAY	Area: 1	34,176.35SqFt	
Section: 105 of 2 From: -		То: -		Last Const.:	01/01/2002
Surface: AAC Family: FDOT-GA-TW-AAC			Zone:	Category:	Rank: P
Area: 125,133.17SqFt Length: 3,570.00Ft	V	Vidth: 35.00Ft			
Shoulder: Street Type: Grade: 0.00	Lanes: 0				
Section Comments:					
Last Insp. Date: 08/20/2013 Total Samples: 36 Sur Conditions: PCI: 79 Inspection Comments:	rveyed: 5				
Sample Number: 103 Type: R Sample Comments:	Area:	3,500.00SqFt	PCI = 80		
48 LONGITUDINAL/TRANSVERSE CRACKING	L	137.00 Ft	Comments:		
52 RAVELING	L	26.00 SqFt	Comments:		
57 WEATHERING	L	3,500.00 SqFt	Comments:		
Sample Number: 107 Type: R Sample Comments:	Area:	3,500.00SqFt	PCI = 79		
48 LONGITUDINAL/TRANSVERSE CRACKING	L	55.00 Ft	Comments:		
52 RAVELING	M	_	Comments:		
57 WEATHERING	L	3,425.00 SqFt	Comments:	:	
Sample Number: 115 Type: R Sample Comments:	Area:	3,500.00SqFt	PCI = 73		
48 LONGITUDINAL/TRANSVERSE CRACKING	L	211.00 Ft	Comments:		
52 RAVELING	L	175.00 SqFt	Comments:		
57 WEATHERING	L	3,500.00 SqFt	Comments:	:	
Sample Number: 123 Type: R Sample Comments:	Area:	3,500.00SqFt	PCI = 77		
48 LONGITUDINAL/TRANSVERSE CRACKING	L	83.00 Ft	Comments:		
52 RAVELING	M	_	Comments:		
57 WEATHERING	L	, <u>-</u>	Comments:		
52 RAVELING	L	175.00 SqFt	Comments:		
Sample Number: 131 Type: R Sample Comments:	Area:	3,500.00SqFt	PCI = 83		
48 LONGITUDINAL/TRANSVERSE CRACKING	L		Comments:		
52 RAVELING	L	-	Comments:		
57 WEATHERING	L	3,500.00 SqFt	Comments:		

FDOT

Report Generated Date: August 29, 2013

		. 6					
Network:	COI	Name: MERRITT ISLAND					_
Branch:	TW A	Name: TAXIWAY A		Use: TAXIWAY	Area:	134,176.35SqFt	
Section: Surface:	110 AAC	of 2 From: - Family: FDOT-GA-TW-AAC		То: -	Zone:	Last Const.: Category:	01/01/2002 Rank: P
Area: Shoulder:	9,043.18SqFt Street T	Length: 90.00Ft ype: Grade: 0.00	Width:	100.00Ft			

Section Comments:

Last Insp. Date: 08/20/2013 Total Samples: 2 Surveyed: 1

Conditions: PCI: 78 Inspection Comments:

Sample Number: 101 Type: R	Area:	4,006.67SqFt	PCI = 78	
Sample Comments:				
48 LONGITUDINAL/TRANSVERSE CRACKING	J L	152.00	Ft Comment	cs:
45 DEPRESSION	L	84.00	SqFt Comment	cs:
52 RAVELING	L	401.00	SqFt Comment	cs:

FDOT

Report Generated Date: August 29, 2013

Network:	COI	Name: MERRITT ISL	AND						
Branch:	TW A1	Name: TAXIWAY AI	LPHA 1			Use: TAXIWAY	Area:	10,738.71SqFt	
Section:	305	of 1 From: -				То: -		Last Const.:	01/01/2002
Surface:	AAC	Family: FDOT-GA-	-TW-AAC				Zone:	Category:	Rank: P
Area:	10,738.71SqFt	Length:	100.00Ft		Width:	100.00Ft			
Shoulder:	Street Ty	pe: Grade:	0.00	Lanes:	0				

Section Comments:

Last Insp. Date: 08/20/2013 Total Samples: 2 Surveyed: 1

Conditions: PCI: 65 Inspection Comments:

Sample Number: 101 Type: R Sample Comments:	Area:	5,204.02SqFt		PCI = 65
57 WEATHERING		L 520.00	SqFt	Comments:
48 LONGITUDINAL/TRANSVERSE CRACKING		L 365.00	Ft	Comments:
52 RAVELING]	M 21.50	SqFt	Comments:
45 DEPRESSION		L 36.00	SqFt	Comments:
52 RAVELING		L 520.00	SqFt	Comments:

FDOT

Report Generated Date: August 29, 2013

Street Type:

		0 ,						
Network:	COI	Name: MERRITT ISLA	AND					
Branch:	TW A2	Name: TAXIWAY AL	РНА 2		Use: TAXIWAY	Area:	4,513.27SqFt	
Section: Surface:	405 AAC	of 1 From: - Family: FDOT-GA-	ΓW-AAC		То: -	Zone:	Last Const.: Category:	01/01/2002 Rank: P
Area:	4,513.27SqFt	Length:	100.00Ft	Width:	40.00Ft			

Lanes: 0

Section Comments:

Shoulder:

Last Insp. Date: 08/20/2013 Total Samples: 1 Surveyed: 1

Grade: 0.00

Conditions: PCI: 82 Inspection Comments:

Sample Number: 400 Type: R	Area:	4,513.27SqFt	PCI = 82
Sample Comments:			
48 LONGITUDINAL/TRANSVERSE CRACKI	NG L	53.00 Ft	Comments:
52 RAVELING	M	44.00 SqFt	Comments:
57 WEATHERING	L	4,469.00 SaFt	Comments:

FDOT

Report Generated Date: August 29, 2013

Network:	COI	Name: MERRITT ISLAND				
Branch:	TW A3	Name: TAXIWAY ALPHA 3		Use: TAXIWAY	Area:	4,513.27SqFt
Section: Surface:	505 AAC	of 1 From: - Family: FDOT-GA-TW-AAC		То: -	Zone:	Last Const.: 01/01/2002 Category: Rank: P
Area:	4,513.27SqFt	Length: 100.00Ft	Width:	40.00Ft		
Shoulder:	Street T	ype: Grade: 0.00	Lanes: 0			

Section Comments:

Last Insp. Date: 08/20/2013 Total Samples: 1 Surveyed: 1

Conditions: PCI: 80 Inspection Comments:

Sample Number: 100 Type: R	Area:	4,513.27SqFt	PCI = 80
Sample Comments:			
48 LONGITUDINAL/TRANSVERSE CRACKING	L	134.00 Ft	Comments:
52 RAVELING	M	36.00 SqFt	Comments:
57 WEATHERING	L	4,477.00 SqFt	Comments:

FDOT

Area:

Report Generated Date: August 29, 2013

5,387.07SqFt

Network: COI Name: MERRITT ISLAND Branch: TW A4 Name: TAXIWAY ALPHA 4 Use: TAXIWAY Area: 5,387.07SqFt Section: 605 From: -То: -Last Const.: 01/01/2002 of 1 Family: FDOT-GA-TW-AAC Surface: Zone: Category: Rank: P AC

Width:

40.00Ft

Shoulder: Street Type: Grade: 0.00 Lanes: 0

Length:

Section Comments:

Last Insp. Date: 08/20/2013 Total Samples: 1 Surveyed: 1

Conditions: PCI: 83 Inspection Comments:

Sample Number: 600 Type: R Area: 5,387.07SqFt PCI = 83

100.00Ft

Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING L 193.00 Ft Comments: 52 RAVELING L 270.00 SqFt Comments:

FDOT

Report Generated Date: August 29, 2013

Network: COI Name: MERRITT ISLAND Branch: TW B Name: TAXIWAY B Use: TAXIWAY Area: 79,688.00SqFt Section: 3 From: -То: -Last Const.: 01/01/2011 203 of Family: FDOT-GA-TW-AC Rank: P Surface: Zone: Category: AC

25.00Ft

Area: 9,788.00SqFt Length: 400.00Ft Width: Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: 08/20/2013 Total Samples: 3 Surveyed: 1

Conditions: PCI: 98 Inspection Comments:

Sample Number: 94 Type: R Area: 3,004.00SqFt PCI = 98

Sample Comments: L/T and ravel on adjacent roadway

57 WEATHERING L 300.00 SqFt Comments:

FDOT

Report Generated Date: August 29, 2013

Network:	COI	Name:	MERRITT IS	SLAND						
Branch:	TW B	Name:	TAXIWAY I	В			Use: TAXIWAY	Area:	79,688.00SqFt	
Section:	205	of 3	From:	-			То: -		Last Const.:	01/01/2005
Surface:	AC	Family	: FDOT-G	A-TW-AAC				Zone:	Category:	Rank: P
Area:	12,750.00SqFt	Le	ength:	320.00Ft		Width:	40.00Ft			
Shoulder:	Street T	ype:	Grade:	0.00	Lanes:	0				
Snoulder: Section Con	•	ype:	Grade:	0.00	Lanes:	0				

Last Insp. Date: 08/20/2013 Total Samples: 4 Surveyed: 1

Conditions: PCI: 65 Inspection Comments:

Sample Number: 102	Type: R	Area:	3,000.00SqFt		PCI = 65
Sample Comments:					
48 LONGITUDINAL/	TRANSVERSE CRACKING	I	206.00	Ft	Comments:
52 RAVELING		ľ	00.8	SqFt	Comments:
57 WEATHERING		I	2,992.00	SqFt	Comments:
52 RAVELING		I	1,500.00	SaFt	Comments:

FDOT

Network: COI	Name: MERRITT ISLAND					
Branch: TW B	Name: TAXIWAY B		Use: TAXIWA	Y Area:	79,688.00SqFt	
Section: 210	of 3 From: -		То: -		Last Const.:	01/01/2005
Surface: AC	Family: FDOT-GA-TW-AA	C		Zone:	Category:	Rank: P
Area: 57,150.00SqFt	Length: 1,900.00F	t V	Vidth: 30.00Ft			
Shoulder: Street T		Lanes: 0				
Section Comments:						
Last Insp. Date: 08/20/20 Conditions: PCI: 72 Inspection Comments:	013 Total Samples: 19 S	urveyed: 3				
Sample Number: 109 Sample Comments: Discolora	Type: R	Area:	3,000.00SqFt	PCI = 63		
	TRANSVERSE CRACKING	L	277.00 Ft	Comments	ş:	
52 RAVELING		M	25.00 SqF	c Comments	g:	
52 RAVELING		L	150.00 SqF			
57 WEATHERING		L	2,975.00 SqF	c Comments	ş:	
-	Type: R	Area:	3,000.00SqFt	PCI = 76		
Sample Comments:	Type: R 'TRANSVERSE CRACKING	Area:	3,000.00SqFt 83.00 Ft	PCI = 76	3:	
Sample Comments: 48 LONGITUDINAL, 52 RAVELING		L M	83.00 Ft 25.00 SqF	Comments Comments	g:	
Sample Comments: 48 LONGITUDINAL, 52 RAVELING 52 RAVELING		L M L	83.00 Ft 25.00 SqF 150.00 SqF	Comments Comments Comments	; :	
Sample Comments: 48 LONGITUDINAL/ 52 RAVELING		L M	83.00 Ft 25.00 SqF	Comments Comments	; :	
Sample Comments: 48 LONGITUDINAL, 52 RAVELING 52 RAVELING		L M L	83.00 Ft 25.00 SqF 150.00 SqF	Comments Comments Comments	; :	
Sample Comments: 48 LONGITUDINAL, 52 RAVELING 52 RAVELING 57 WEATHERING Sample Number: 123 Sample Comments:	TRANSVERSE CRACKING	L M L	83.00 Ft 25.00 SqF 150.00 SqF 2,975.00 SqF	Comments Comments Comments	3: 3:	
Sample Comments: 48 LONGITUDINAL, 52 RAVELING 52 RAVELING 57 WEATHERING Sample Number: 123 Sample Comments:	TRANSVERSE CRACKING Type: R	L M L L	83.00 Ft 25.00 SqF 150.00 SqF 2,975.00 SqF 3,900.00SqFt	Comments Comments Comments Comments Comments Comments Comments	3: 3: 3:	

FDOT

Report Generated Date: August 29, 2013

Network:	COI	Name: MERRITT ISLAND					
Branch:	TW B1	Name: TAXIWAY BRAVO 1		Use: TAXIWAY	Area:	4,046.29SqFt	
Section: Surface:	315 AAC	of 1 From: - Family: FDOT-GA-TW-AAC		То: -	Zone:	Last Const.: Category:	01/01/2005 Rank: P
Area: Shoulder:	4,046.29SqFt Street Ty	Length: 100.00Ft	Width:	40.00Ft	Zone.	Category.	Tunn. 1

Section Comments:

Last Insp. Date: 08/20/2013 Total Samples: 1 Surveyed: 1

Conditions: PCI: 70 Inspection Comments:

Sample Number: 300 Type: R Sample Comments:	Area:	4,046.29SqFt		PCI = 70
48 LONGITUDINAL/TRANSVERSE CRACKING	L	93.00	Ft	Comments:
52 RAVELING	M	34.00	SqFt	Comments:
45 DEPRESSION	L	36.00	SqFt	Comments:
52 RAVELING	L	405.00	SqFt	Comments:
57 WEATHERING	L	4,012.00	SqFt	Comments:

FDOT

Report Generated Date: August 29, 2013

		<u> </u>						
Network:	COI	Name: MERRITT ISLAN	D					
Branch:	TW B2	Name: TAXIWAY BRAV	/O 2		Use: TAXIWAY	Area:	4,298.45SqFt	
Section:	410	of 1 From: -			То: -		Last Const.:	01/01/2005
Surface:	AAC	Family: FDOT-GA-TW	-AAC			Zone:	Category:	Rank: P
Area:	4,298.45SqFt	Length: 100).00Ft	Width:	40.00Ft			
Shoulder:	Street Ty	pe: Grade: 0.00	Lanes:	0				

Section Comments:

Last Insp. Date: 08/20/2013 Total Samples: 1 Surveyed: 1

Conditions: PCI: 78 Inspection Comments:

Sample Number: 400 Type: R	Area:	4,298.45SqFt	PCI = 78	
Sample Comments:				
48 LONGITUDINAL/TRANSVERSE CRACKING	L	55.00 Ft	Comments:	
52 RAVELING	M	22.00 SqFt	Comments:	
52 RAVELING	L	215.00 SqFt	Comments:	
57 WEATHERING	L	4,276.00 SqFt	Comments:	

FDOT

Report Generated Date: August 29, 2013

Network:	COI	Name: MERRITT	ISLAND						
Branch:	TW B4	Name: TAXIWAY	BRAVO 4			Use: TAXIWAY	Area:	5,450.37SqFt	
Section:	216	of 1 From	: -			То: -		Last Const.:	01/01/2005
Surface:	AAC	Family: FDOT-0	GA-TW-AAC				Zone:	Category:	Rank: P
Area:	5,450.37SqFt	Length:	150.00Ft	W	idth:	30.00Ft			
Shoulder:	Street Ty	ype: Grade	0.00	Lanes: 0					

Last Insp. Date: 08/20/2013 Total Samples: 2 Surveyed: 1

Conditions: PCI: 75 Inspection Comments:

Sample Number:	125	Type: R	Area:		2,730.63SqFt		PCI = 75
Sample Comments:							
48 LONGITUDI	NAL/	TRANSVERSE CRACKING		L	68.00	Ft	Comments:
52 RAVELING				M	23.00	SqFt	Comments:
52 RAVELING				L	273.00	SqFt	Comments:
57 WEATHERIN	IG			L	2,707.00	SaFt	Comments: