FLORIDA DEPARTMENT OF TRANSPORTATION AVIATION AND SPACEPORTS OFFICE



Airport Pavement Evaluation Report September 2017



Merritt Island
Airport (COI)
General Aviation Airport
District 5



















Florida Department of Transportation

Statewide Airfield Pavement Management Program

Prepared by:

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OFFICE OF FREIGHT, LOGISTICS & PASSENGER OPERATIONS



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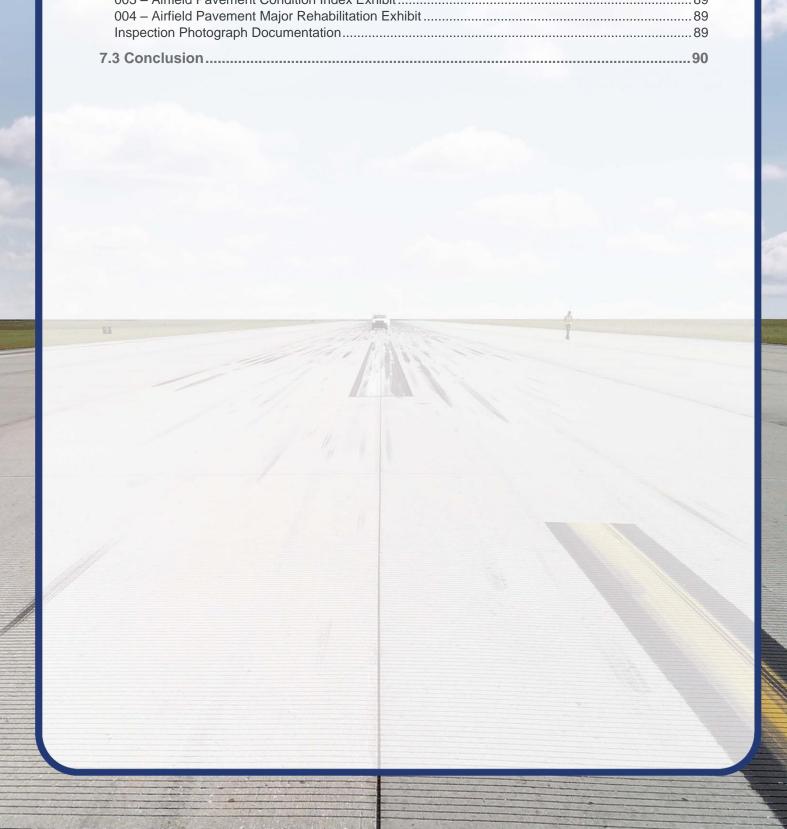
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Executive Summary





Executive Summary

Program Background

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

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

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

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

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

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



Summary of Results

Pavement Condition Index (Latest Inspection)

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

Network ID	Branch Name	Branch Use	Section ID	Area (SF)	PCI	Condition Rating
COI	RUNWAY 11-29	RUNWAY	6105	270,225	68	Fair
COI	TAXIWAY A	TAXIWAY	105	125,133	71	Satisfactory
COI	TAXIWAY ALPHA 1	TAXIWAY	305	10,739	57	Fair
COI	TAXIWAY ALPHA 2	TAXIWAY	405	4,513	74	Satisfactory
COI	TAXIWAY ALPHA 3	TAXIWAY	505	4,513	68	Fair
COI	TAXIWAY ALPHA 4	TAXIWAY	605	5,387	73	Satisfactory
COI	TAXIWAY ALPHA 5	TAXIWAY	110	9,043	62	Fair
COI	TAXIWAY B	TAXIWAY	203	9,788	86	Good
COI	TAXIWAY B	TAXIWAY	205	12,750	64	Fair
COI	TAXIWAY B	TAXIWAY	210	57,150	64	Fair
COI	TAXIWAY BRAVO 1	TAXIWAY	315	4,046	61	Fair
COI	TAXIWAY BRAVO 2	TAXIWAY	410	4,298	68	Fair
COI	TAXIWAY BRAVO 4	TAXIWAY	216	5,450	65	Fair
COI	SOUTH APRON	APRON	4105	97,600	18	Serious
COI	SOUTH APRON	APRON	4106	19,959	18	Serious
COI	SOUTH APRON	APRON	4110	61,930	19	Serious
COI	SOUTH APRON	APRON	4111	14,689	23	Serious
COI	SOUTH APRON	APRON	4115	89,447	21	Serious
COI	NORTH APRON	APRON	4202	3,023	82	Satisfactory
COI	NORTH APRON	APRON	4203	2,202	46	Poor
COI	NORTH APRON	APRON	4205	24,860	24	Serious
COI	NORTH APRON	APRON	4215	139,109	61	Fair
COI	NORTH APRON	APRON	4218	48,875	68	Fair
COI	NORTH APRON	APRON	4220	33,609	76	Satisfactory
COI	NORTH APRON	APRON	4225	26,238	68	Fair
COI	NORTH APRON	APRON	4230	42,203	65	Fair
COI	SW APRON	APRON	4305	37,682	84	Satisfactory
COI	SW APRON	APRON	4310	10,214	78	Satisfactory
COI	RUN-UP APRON AT RW 29	APRON	5105	14,226	80	Satisfactory





Forecasted Pavement Condition Index 2018-2027

Table E-2 Pavement Condition Index Forecast 2018-2027

Notwork ID	Drawah ID	Continu ID	Loot DCI	Forecasted PCI									
Network ID	Branch ID	Section ID	Last PCI	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
COI	AP N	4202	82	78	76	74	71	69	67	66	64	62	61
COI	AP N	4203	46	45	44	44	44	43	43	43	42	42	42
COI	AP N	4205	24	20	17	15	12	10	7	4	2	0	0
COI	AP N	4215	61	58	56	54	53	53	52	52	52	52	52
COI	AP N	4218	68	64	61	59	57	55	54	53	52	52	52
COI	AP N	4220	76	73	70	68	65	62	60	58	56	54	53
COI	AP N	4225	68	64	61	59	57	55	54	53	52	52	52
COI	AP N	4230	65	61	59	57	55	54	53	52	52	52	52
COI	AP RU RW29	5105	80	78	76	74	71	69	66	64	61	59	57
COI	AP S	4105	18	14	11	9	6	4	1	0	0	0	0
COI	AP S	4106	18	14	11	9	6	4	1	0	0	0	0
COI	AP S	4110	19	15	12	10	7	5	2	0	0	0	0
COI	AP S	4111	23	19	16	14	11	9	6	3	1	0	0
COI	AP S	4115	21	17	14	12	9	7	4	1	0	0	0
COI	AP SW	4305	84	81	80	78	77	75	74	72	70	69	67
COI	AP SW	4310	78	75	74	72	71	69	68	66	64	63	61
COI	RW 11-29	6105	68	65	64	63	62	61	60	59	58	57	56
COI	TW A	105	71	69	69	68	67	65	64	63	61	60	58
COI	TW A1	305	57	54	53	51	49	48	47	46	45	44	44
COI	TW A2	405	74	72	71	70	70	69	68	67	66	64	63
COI	TW A3	505	68	66	65	64	62	61	59	58	56	54	52
COI	TW A4	605	73	71	70	70	69	68	67	66	65	63	62
COI	TW A5	110	62	59	58	56	54	53	51	49	48	47	46
COI	TW B	203	86	82	80	78	76	74	73	71	70	69	68
COI	TW B	205	64	62	60	58	57	55	53	52	50	49	47
COI	TW B	210	64	62	60	58	57	55	53	52	50	49	47
COI	TW B1	315	61	58	57	55	53	52	50	49	47	46	45
COI	TW B2	410	68	66	65	64	62	61	59	58	56	54	52
COI	TW B4	216	65	63	61	60	58	56	55	53	51	50	48





Major Rehabilitation Planning 2018-2027

Table E-3 Major Rehabilitation Planning 2018-2027

Program Year	Network ID	Branch ID	Section ID	Surface	Area (SF)	PCI Before	Rehabilitation Type	Planning Cost
2018	COI	AP N	4203	PCC	2,202	45	PCC Restoration	\$ 28,000.00
2018	COI	AP N	4205	AAC	24,860	20	AC Reconstruction	\$ 224,000.00
2018	COI	AP N	4215	AAC	139,109	58	AC Restoration	\$ 974,000.00
2018	COI	AP N	4218	AAC	48,875	64	AC Restoration	\$ 343,000.00
2018	COI	AP N	4225	AAC	26,238	64	AC Restoration	\$ 184,000.00
2018	COI	AP N	4230	AAC	42,203	61	AC Restoration	\$ 296,000.00
2018	COI	AP S	4105	AAC	97,600	14	AC Reconstruction	\$ 879,000.00
2018	COI	AP S	4106	AAC	19,959	14	AC Reconstruction	\$ 180,000.00
2018	COI	AP S	4110	AAC	61,930	15	AC Reconstruction	\$ 558,000.00
2018	COI	AP S	4111	AAC	14,689	19	AC Reconstruction	\$ 133,000.00
2018	COI	AP S	4115	AAC	89,447	17	AC Reconstruction	\$ 806,000.00
2018	COI	TW A1	305	AAC	10,739	54	AC Restoration	\$ 76,000.00
2018	COI	TW A5	110	AAC	9,043	59	AC Restoration	\$ 64,000.00
2018	COI	TW B	205	AAC	12,750	62	AC Restoration	\$ 90,000.00
2018	COI	TW B	210	AAC	57,150	62	AC Restoration	\$ 401,000.00
2018	COI	TW B1	315	AAC	4,046	58	AC Restoration	\$ 29,000.00
2018	COI	TW B4	216	AAC	5,450	63	AC Restoration	\$ 39,000.00
2019	COI	RW 11-29	6105	AAC	270,225	64	AC Restoration	\$ 1,892,000.00
2020	COI	TW A3	505	AAC	4,513	64	AC Restoration	\$ 32,000.00
2020	COI	TW B2	410	AAC	4,298	64	AC Restoration	\$ 31,000.00
2022	COI	AP N	4220	AAC	33,609	62	AC Restoration	\$ 236,000.00
2023	COI	TW A	105	AAC	125,133	64	AC Restoration	\$ 876,000.00
2024	COI	AP RU RW29	5105	AAC	14,226	64	AC Restoration	\$ 100,000.00
2025	COI	AP N	4202	PCC	3,023	64	PCC Restoration	\$ 31,000.00
2025	COI	AP SW	4310	AC	10,214	64	AC Restoration	\$ 72,000.00
2026	COI	TW A2	405	AAC	4,513	64	AC Restoration	\$ 32,000.00
2026	COI	TW A4	605	AAC	5,387	63	AC Restoration	\$ 38,000.00

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





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



Summary of Merritt Island Airport

Merritt Island Airport was inspected in September 2016 – the overall weighted PCI value was 55, a condition rating of Poor. The results of the maintenance, repair, and major rehabilitation analysis identified \$1,243,290 in localized M&R needs based on current conditions and a 10-Year major rehabilitation need of \$8,644,000 based on forecasted conditions. The current major rehabilitation needs based on the latest inspection consist of \$5,304,000 for pavements below critical condition.

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







Chapter 1 – Introduction

1.1 Background

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

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

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

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

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

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

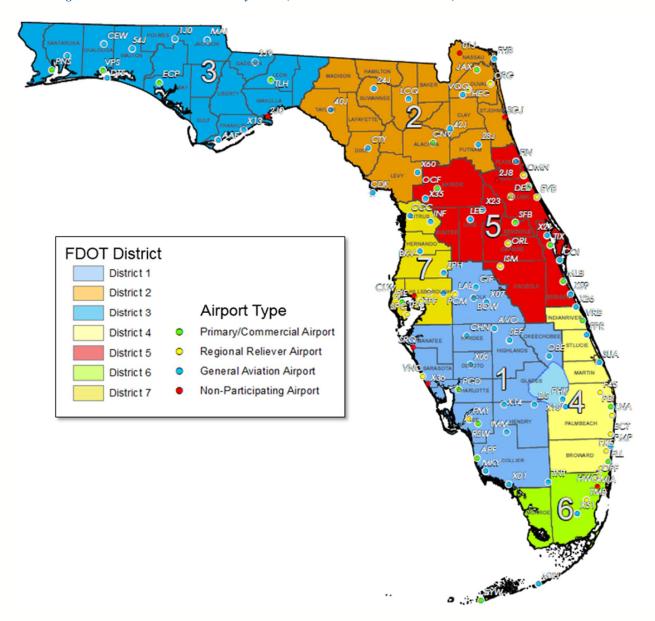
Airport Pavement

Evaluation Report





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



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



1.3 Organization

1.3.1 Florida Department of Transportation Aviation and Spaceports Office Program Manager

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

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

1.3.2 Participating Florida Public-Use and Publicly Owned Airports

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

1.3.3 Florida Department of Transportation District Offices

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

1.3.4 Consultant

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

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



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

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





1.4 Purpose of Airport Pavement Evaluation Report

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

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

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

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

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

1.5 History of the Program

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



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

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

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

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

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





1.6 Federal Aviation Administration (FAA)

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

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

1.7 FDOT SAPMP Objectives and Components

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

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

1.7.1 Program Objectives

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

The objectives are accomplished by the following components:

1.7.2 Program Components

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



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

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

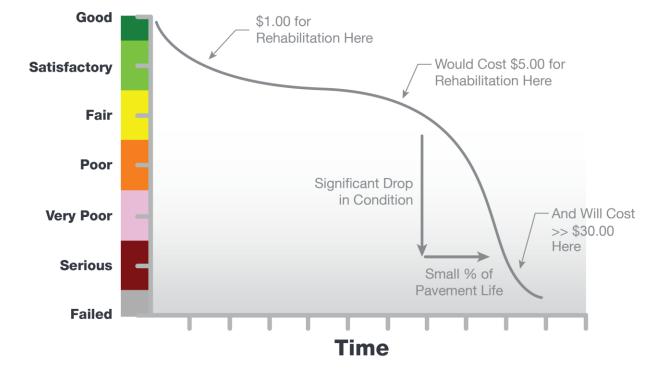


Figure 1.7-1 Typical Pavement Condition Life Cycle

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

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



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

WITH TREATMENT Good 86-100 **Pavement Condition** \$2/sy to \$4/sy here for Satisfactory preventive maintenance surface seals every 5-7 71-85 Fair \$15/sy to \$25/sy here for minor resurfacing 56-70 thin AC overlay Poor 41-55 WITHOUT TREATMENT \$19/sv to \$35/sv here Very Poor for major resurfacing thick AC overlay 26-40 Serious 11-25 \$57/sy to \$86/sy here Failed 0-10 0 5 20 25 Age (Years)

Figure 1.7-2 General Pavement Treatments by Condition Range

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

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





Figure 1.7-3 Flexible Asphalt Concrete

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

Figure 1.7-4 Rigid Portland Cement Concrete

	PCI Range	Representative PCI	Representative Pavement Surface	Rehabilitation Activities
Routine Maintenance	86-100	90		Pavements with PCI values above 85, or 'Good', may require periodic joint/crack sealing and local patching.
Pavement Preservation	65-85	70		Pavements with PCI conditions ranging from 'Fair' to 'Satisfactory' may require patches and/or joint/crack sealing.
Major Rehabiliation	40-64	50		Pavements that have deteriorated below a PCI 65, or within the range of 'Very Poor' to 'Fair' conditions may require major rehabilitation such as slab replacement and PCC restoration activity.
Major Reconstruction	0-39	15		Pavements that have deteriorated below a PCI 40, or within the range of 'Failed' to 'Very Poor' conditions, may require major reconstruction.



1.8 References

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

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



Chapter 2





Chapter 2 – Methodology

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

2.1 Airfield Pavement Database

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

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

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

2.2 Airfield Pavement System Inventory

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

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





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

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

2.2.1 Pavement Management Program Network Definition Terminology

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

Pavement Network

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

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

Pavement Branch

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

Pavement Section

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





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

Pavement Sample Unit

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

Table 2.2.1 Airfield Pavement Database Network Definition Terminology

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



2.3 Airfield Pavement Structure

2.3.1 Pavement Structure Types

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

Flexible Asphalt Concrete Surface

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

Asphalt Concrete (AC)

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

Asphalt Concrete Overlaid on Asphalt Concrete (AAC)

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

Asphalt Concrete Overlaid on Portland Cement Concrete (APC)

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





Rigid Portland Cement Concrete Surface

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

Portland Cement Concrete (PCC)

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

Composite Structure - Whitetopping Pavement

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

Conventional Whitetopping (WHT)

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

Thin Whitetopping (TWT)

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

Ultra-Thin Whitetopping (UTW)

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



2.4 Airfield Pavement Work History

2.4.1 Airfield Pavement Record Keeping

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

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

2.5 Airfield Pavement Traffic

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

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

2.6 Airfield Pavement Condition Index (PCI) Survey

2.6.1 PCI Survey Methodology

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

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





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





2.6.2 Pavement Distress Types

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

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

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





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

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

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

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





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

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





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

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

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

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





2.6.3 PCI Survey Inspection Procedures

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Inspection Sampling Rate

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

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

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

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

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





2.6.4 Updates to the ASTM D5340-12

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

Flexible Asphalt Concrete Pavement Distress Updates

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

Rigid Portland Cement Concrete Pavement Distress Updates

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



Table 2.6.4 Summary of Updates to ASTM D5340-12

Distress	Updates to Reflect AST	M 5340-12		
Use and Surface Type	Updated Distress	Deduction Curve	Potential Effect	
AC/AAC/ APC Airfield	(52) Raveling - Low	(52) Weathering and Raveling - Low	No Change	N/A
	(52) Raveling - Medium	(52) Weathering and Raveling - Medium	No Change	N/A
	(52) Raveling - High	(52) Weathering and Raveling - High	No Change	N/A
	(57) Weathering - Low	N/A – was part of 'Weathering and Raveling'	New	Increase in PCI with no maintenance
	(57) Weathering - Medium	N/A – was part of 'Weathering and Raveling'	New	Increase in PCI with no maintenance
	(57) Weathering - High	N/A – was part of 'Weathering and Raveling'	New	Increase in PCI with no maintenance
PCC Airfield	(70) Scaling - Low	(70) Scaling, Map Cracking, and Crazing - Low	New	Increase in PCI with no maintenance
	(70) Scaling - Medium	(70) Scaling, Map Cracking, and Crazing - Medium	New	Increase in PCI with no maintenance
	(70) Scaling - High	(70) Scaling, Map Cracking, and Crazing - High	New	Increase in PCI with no maintenance
	(76) Alkali Silica Reaction – Low	N/A – was part of 'Scaling, Map Cracking, and Crazing'	New	Increase in PCI with no maintenance
	(76) Alkali Silica Reaction – Medium	N/A – was part of 'Scaling, Map Cracking, and Crazing'	New	Increase in PCI with no maintenance
	(76) Alkali Silica Reaction – High	N/A – was part of 'Scaling, Map Cracking, and Crazing'	New	Increase in PCI with no maintenance
	(73) Shrinkage Cracking	(73) Shrinkage Cracking	No Change	Prior distress types identified as 'Scaling, Map Cracking, and Crazing' may now be identified as 'Shrinkage Cracking'



Chapter 3



Chapter 3 – Airfield Pavement System Inventory

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

3.1 Airfield Pavement Network Information

3.1.1 Previous and/or Anticipated Airfield Pavement Construction

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

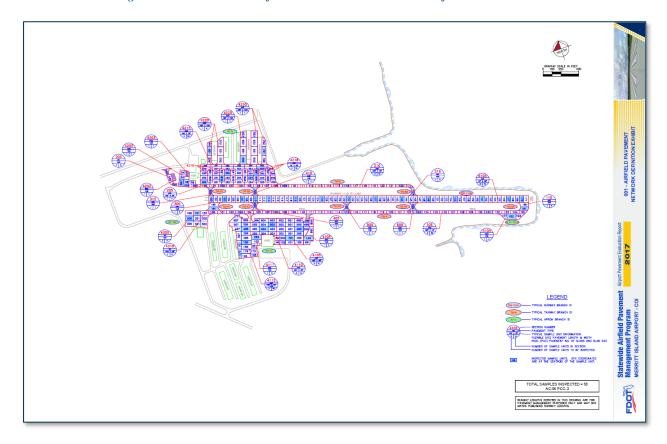
Table 3.1.1 Previous and/or Anticipated Airfield Pavement Construction

Year	General Work Description
2016	Runway 11/29 - Seal Coat Rejuvenation

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



Figure 3.1.1-1 2017 Airfield Pavement Network Definition Exhibit



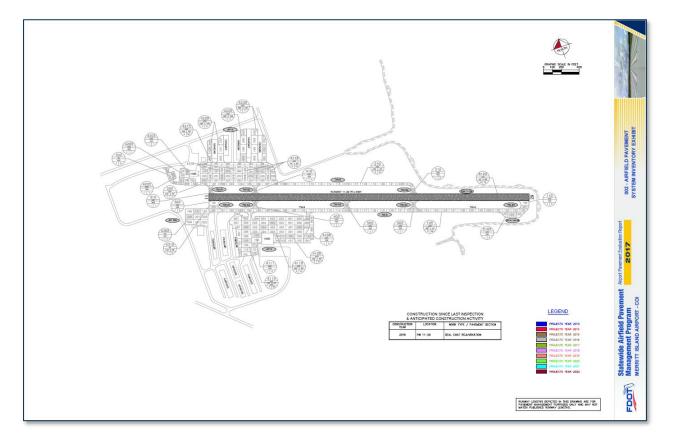
The Airfield Pavement Network Definition Exhibit provides details to the PCI Survey inspection efforts. The exhibit identifies the pavement facilities, surface type, section definition, and sample unit delineation.

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Figure 3.1.1-2 2017 Airfield Pavement System Inventory Exhibit



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

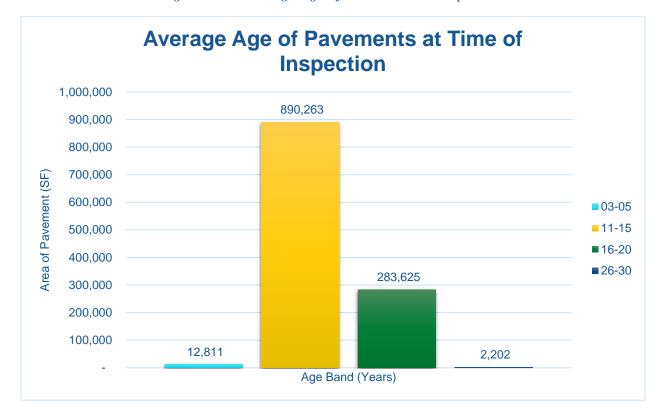
3.1.2 Estimated Pavement Age

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





Figure 3.1.2 Average Age of Pavements at Inspection



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

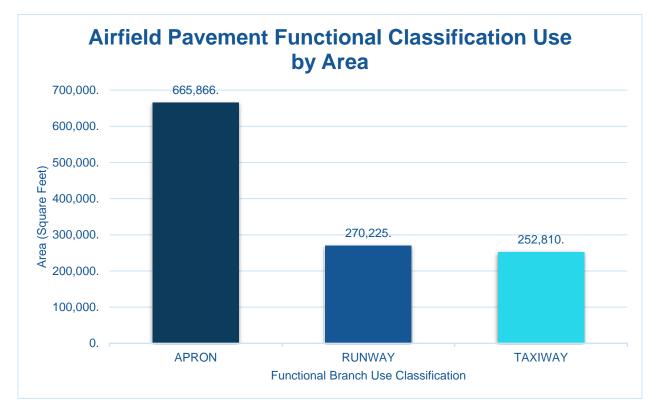




3.1.3 Functional Use Classification

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

Figure 3.1.3 Airfield Pavement Functional Classification Use by Area



Airport Pavement

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3.1.4 Pavement Surface Type

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

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

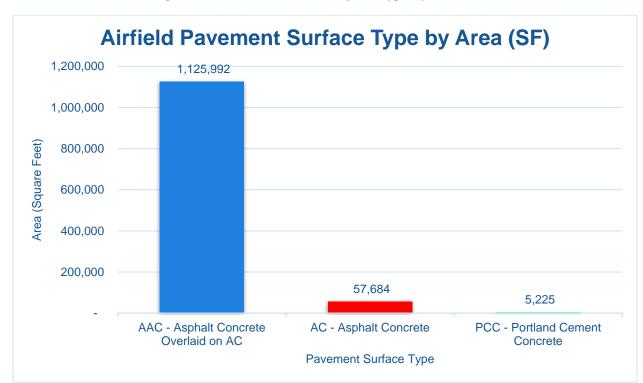
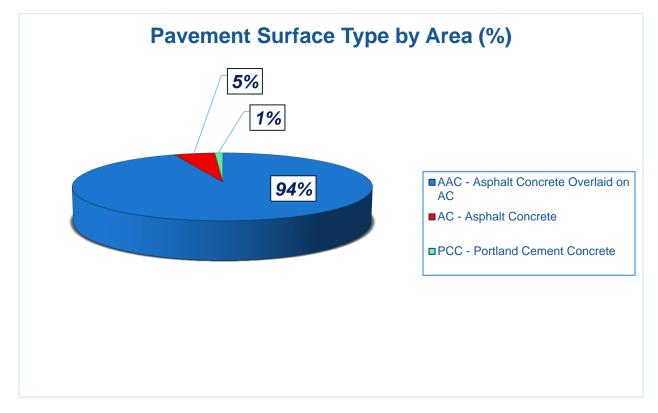


Figure 3.1.4 (a) Pavement Surface Type by Area (SF)



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



3.1.5 Pavement System Inventory Details

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

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





Table 3.1.5 Pavement System Inventory Details

Network ID	Branch Name	Branch ID	Branch Use	Section ID	Length (FT)	Width (FT)	Area (SF)	Surface Type	Est. Last Construction Date
COI	NORTH APRON	AP N	APRON	4202	100	30	3,023	PCC	1/1/2011
COI	NORTH APRON	AP N	APRON	4203	50	40	2,202	PCC	1/1/1990
COI	NORTH APRON	AP N	APRON	4205	120	200	24,860	AAC	1/1/2005
COI	NORTH APRON	AP N	APRON	4215	1000	139	139,109	AAC	1/1/2005
COI	NORTH APRON	AP N	APRON	4218	480	100	48,875	AAC	1/1/2005
COI	NORTH APRON	AP N	APRON	4220	336	100	33,609	AAC	1/1/2005
COI	NORTH APRON	AP N	APRON	4225	340	75	26,238	AAC	1/1/2005
COI	NORTH APRON	AP N	APRON	4230	200	200	42,203	AAC	1/1/2005
COI	RUN-UP APRON AT RW 29	AP RU RW29	APRON	5105	280	50	14,226	AAC	1/1/2002
COI	SOUTH APRON	AP S	APRON	4105	450	200	97,600	AAC	1/1/1996
COI	SOUTH APRON	AP S	APRON	4106	100	200	19,959	AAC	1/1/1996
COI	SOUTH APRON	AP S	APRON	4110	310	200	61,930	AAC	1/1/1996
COI	SOUTH APRON	AP S	APRON	4111	134	100	14,689	AAC	1/1/1996
COI	SOUTH APRON	AP S	APRON	4115	450	200	89,447	AAC	1/1/1996
COI	SW APRON	AP SW	APRON	4305	376	100	37,682	AC	1/1/2003
COI	SW APRON	AP SW	APRON	4310	50	200	10,214	AC	1/1/2003
COI	RUNWAY 11-29	RW 11-29	RUNWAY	6105	3600	75	270,225	AAC	1/1/2002
COI	TAXIWAY A	TW A	TAXIWAY	105	3570	35	125,133	AAC	1/1/2002
COI	TAXIWAY ALPHA 1	TW A1	TAXIWAY	305	100	100	10,739	AAC	1/1/2002
COI	TAXIWAY ALPHA 2	TW A2	TAXIWAY	405	100	40	4,513	AAC	1/1/2002
COI	TAXIWAY ALPHA 3	TW A3	TAXIWAY	505	100	40	4,513	AAC	1/1/2002
COI	TAXIWAY ALPHA 4	TW A4	TAXIWAY	605	100	40	5,387	AAC	1/1/2002
COI	TAXIWAY ALPHA 5	TW A5	TAXIWAY	110	90	100	9,043	AAC	1/1/2002
COI	TAXIWAY B	TW B	TAXIWAY	203	400	25	9,788	AC	1/1/2011
COI	TAXIWAY B	TW B	TAXIWAY	205	320	40	12,750	AAC	1/1/2005

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Merritt Island Airport (COI)





Network ID	Branch Name	Branch ID	Branch Use	Section ID	Length (FT)	Width (FT)	Area (SF)	Surface Type	Est. Last Construction Date
COI	TAXIWAY B	TW B	TAXIWAY	210	1900	30	57,150	AAC	1/1/2005
COI	TAXIWAY BRAVO 1	TW B1	TAXIWAY	315	100	40	4,046	AAC	1/1/2005
COI	TAXIWAY BRAVO 2	TW B2	TAXIWAY	410	100	40	4,298	AAC	1/1/2005
COI	TAXIWAY BRAVO 4	TW B4	TAXIWAY	216	150	30	5,450	AAC	1/1/2005





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Chapter 4





Chapter 4 – Airfield Pavement Condition

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

4.1 Airfield Pavement Condition Index (Latest Inspection)

4.1.1 Network-Level Analysis

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

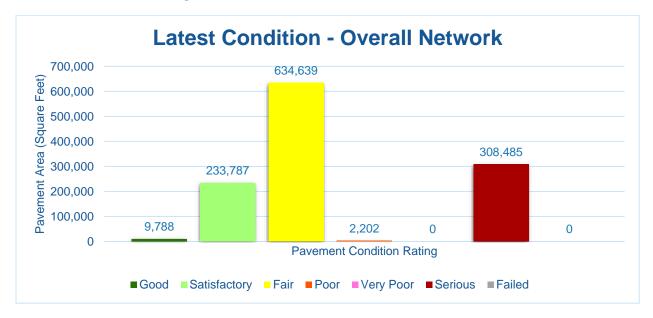


Figure 4.1.1 Latest Condition - Overall Network

4.1.2 Branch-Level Analysis

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





Figure 4.1.2 (a) Latest Condition - Runway Pavements

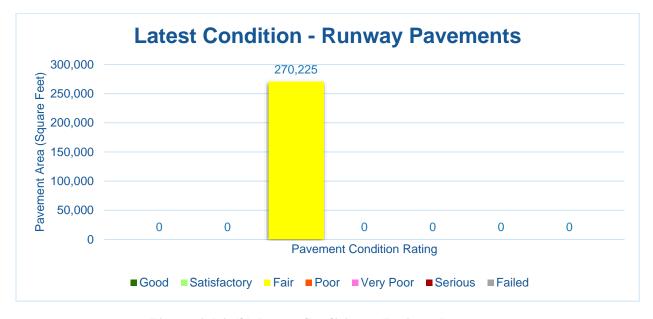


Figure 4.1.2 (b) Latest Condition - Taxiway Pavements

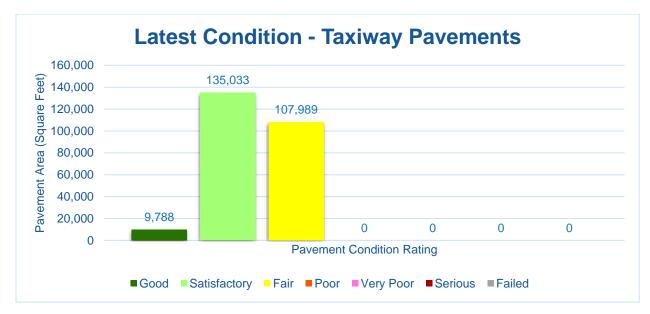
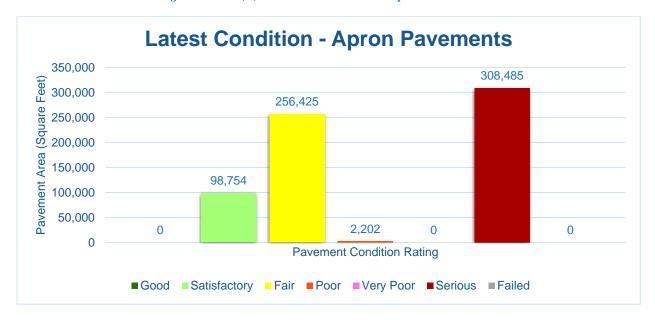




Figure 4.1.2 (c) Latest Condition - Apron Pavements







4.1.3 Section-Level Analysis

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

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





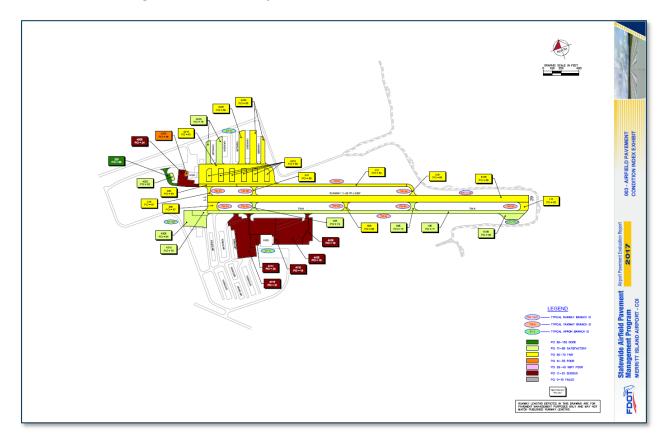
Table 4.1.3 Latest Pavement Condition Index Summary

Network ID	Branch ID	Branch Name	Branch Use	Section ID	Area (SF)	Surface	PCI	PCI Rating	PCI Pct Climate	PCI Pct Load	PCI Pct Other	Sample Units Inspected	Total Sample Units in Section
COI	AP N	NORTH APRON	APRON	4202	3,023	PCC	82	Satisfactory	65%	25%	10%	1	1
COI	AP N	NORTH APRON	APRON	4203	2,202	PCC	46	Poor	15%	53%	32%	1	1
COI	AP N	NORTH APRON	APRON	4205	24,860	AAC	24	Serious	98%	0%	2%	1	7
COI	AP N	NORTH APRON	APRON	4215	139,109	AAC	61	Fair	91%	0%	9%	4	34
COI	AP N	NORTH APRON	APRON	4218	48,875	AAC	68	Fair	100%	0%	0%	2	12
COI	AP N	NORTH APRON	APRON	4220	33,609	AAC	76	Satisfactory	92%	0%	8%	1	6
COI	AP N	NORTH APRON	APRON	4225	26,238	AAC	68	Fair	76%	0%	24%	1	4
COI	AP N	NORTH APRON	APRON	4230	42,203	AAC	65	Fair	92%	0%	8%	1	7
COI	AP RU RW29	RUN-UP APRON AT RW 29	APRON	5105	14,226	AAC	80	Satisfactory	100%	0%	0%	1	3
COI	AP S	SOUTH APRON	APRON	4105	97,600	AAC	18	Serious	95%	0%	5%	3	21
COI	AP S	SOUTH APRON	APRON	4106	19,959	AAC	18	Serious	83%	0%	17%	1	4
COI	AP S	SOUTH APRON	APRON	4110	61,930	AAC	19	Serious	98%	0%	2%	2	14
COI	AP S	SOUTH APRON	APRON	4111	14,689	AAC	23	Serious	96%	0%	4%	1	3
COI	AP S	SOUTH APRON	APRON	4115	89,447	AAC	21	Serious	100%	0%	0%	3	18
COI	AP SW	SW APRON	APRON	4305	37,682	AC	84	Satisfactory	72%	0%	28%	1	7
COI	AP SW	SW APRON	APRON	4310	10,214	AC	78	Satisfactory	100%	0%	0%	1	2
COI	RW 11-29	RUNWAY 11-29	RUNWAY	6105	270,225	AAC	68	Fair	98%	0%	2%	15	72
COI	TW A	TAXIWAY A	TAXIWAY	105	125,133	AAC	71	Satisfactory	100%	0%	0%	5	36
COI	TW A1	TAXIWAY ALPHA 1	TAXIWAY	305	10,739	AAC	57	Fair	94%	0%	6%	1	2
COI	TW A2	TAXIWAY ALPHA 2	TAXIWAY	405	4,513	AAC	74	Satisfactory	100%	0%	0%	1	1
COI	TW A3	TAXIWAY ALPHA 3	TAXIWAY	505	4,513	AAC	68	Fair	100%	0%	0%	1	1
COI	TW A4	TAXIWAY ALPHA 4	TAXIWAY	605	5,387	AAC	73	Satisfactory	100%	0%	0%	1	1
COI	TW A5	TAXIWAY ALPHA 5	TAXIWAY	110	9,043	AAC	62	Fair	75%	0%	25%	1	2
COI	TW B	TAXIWAY B	TAXIWAY	203	9,788	AC	86	Good	100%	0%	0%	1	3
COI	TW B	TAXIWAY B	TAXIWAY	205	12,750	AAC	64	Fair	100%	0%	0%	1	4
COI	TW B	TAXIWAY B	TAXIWAY	210	57,150	AAC	64	Fair	95%	0%	5%	3	19
COI	TW B1	TAXIWAY BRAVO 1	TAXIWAY	315	4,046	AAC	61	Fair	90%	0%	10%	1	1
COI	TW B2	TAXIWAY BRAVO 2	TAXIWAY	410	4,298	AAC	68	Fair	100%	0%	0%	1	1
COI	TW B4	TAXIWAY BRAVO 4	TAXIWAY	216	5,450	AAC	65	Fair	100%	0%	0%	1	2



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

Figure 4.1.3 2017 Airfield Pavement Condition Index Exhibit







4.2 Summary of Pavement Condition Evaluation Results

4.2.1 Network-Level Observations

The field PCI Survey performed at Merritt Island Airport (COI) started on 09/13/2016 and was completed on 09/14/2016. The resulting overall average area-weighted PCI value was 55 representing a condition rating of Poor. Merritt Island Airport is served solely by Runway 11-29, which is 75-ft wide and 3,601-ft long.

Based on the FAA 5010 Report as of 06/29/2017 the Airport has reported 113,500 operations for 12 months ending 09/21/2016.

4.2.2 Branch-Level Observations

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

Runway 11-29

Runway 11-29 consists of 1 section constructed of AAC. The last construction year for Runway 11-29 was 2002. The average area-weighted PCI for Runway 11-29 is 68 representing a Fair condition rating. The pavement distresses observed were related to Climate and Other distress classifications. Distresses observed in Runway 11-29 consist of Longitudinal & Transverse Cracking, Raveling, Swelling, and Weathering. Runway 11-29 had a surface treatment applied in 2016.

Taxiway B

Taxiway B consists of 3 sections constructed of AC and AAC. The last construction years range from 2005 to 2011. The average area-weighted PCI for Taxiway B is 66 representing a Fair condition rating. The pavement distresses observed were related to Climate and Other distress classifications. Distresses observed in Taxiway B consist of Longitudinal & Transverse Cracking, Raveling, Swelling, and Weathering.

Taxiway A

Taxiway A consists of 1 section constructed of AAC. The last construction year for Taxiway A was 2002. The average area-weighted PCI for Taxiway A is 71 representing a Satisfactory condition rating. The pavement distresses observed were related to Climate distress classifications. Distresses observed in Taxiway A consist of Longitudinal & Transverse Cracking, Raveling, and Weathering.

North Apron

North Apron consists of 8 sections constructed of AAC and PCC. The last construction years range from 1990 to 2011. The average area-weighted PCI for North Apron is 61 representing a Fair condition rating. The pavement distresses observed were related to Climate, Load, and Other distress classifications. Distresses observed in North Apron consist of Block Cracking, Depression, Longitudinal & Transverse Cracking, Oil Spillage, Patching, Raveling, Swelling,





Weathering, Linear Cracking, Joint Seal Damage, Shattered Slab, Shrinkage Cracking, Joint Spall, and Corner Spall.

Section 4205 had the lowest PCI value of 24 on the North Apron. The PCI was attributed to an old surface treatment that was severely deteriorated causing significant block cracking and raveling.

South Apron

South Apron consists of 5 sections constructed of AAC. The last construction year for South Apron was 1996. The average area-weighted PCI for South Apron is 19 representing a Serious condition rating. The pavement distresses observed were related to Climate and Other distress classifications. Distresses observed in South Apron consist of Block Cracking, Depression, Longitudinal & Transverse Cracking, Oil Spillage, Raveling, and Swelling.

South Apron had an old surface treatment that was causing significant deterioration of the asphalt pavement including medium severity block cracking and raveling. Isolated instances of depressions were also observed.

Figure 4.2.2 Pavement Condition Summary by Facility Use

Facility Use	Average Area-Weighted PCI	Condition Rating
Runway	68	Fair
Taxiway	68	Fair
Apron	45	Poor





4.3 Forecasted Pavement Conditions

Airport Pavement

Evaluation Report

4.3.1 Performance Models and Prediction Curves

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

4.3.2 Branch-Level Pavement Condition Forecast

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

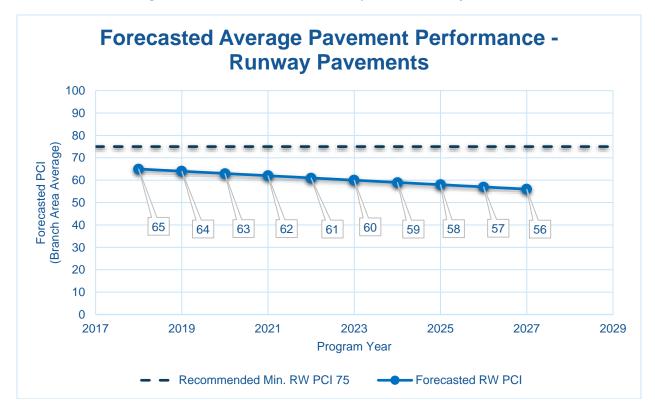


Figure 4.3.2 (a) Forecasted Runway Pavement Performance



Figure 4.3.2 (b) Forecasted Taxiway Pavement Performance

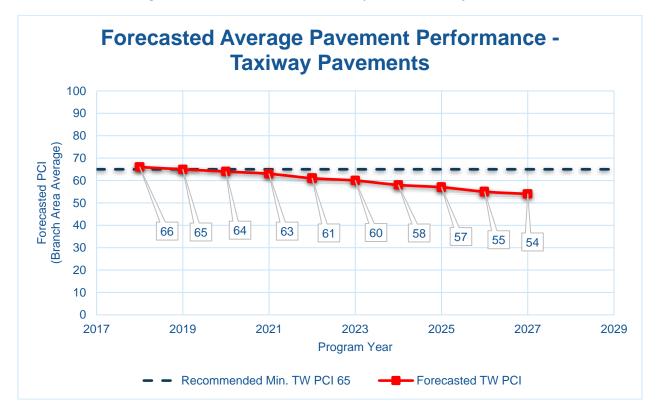
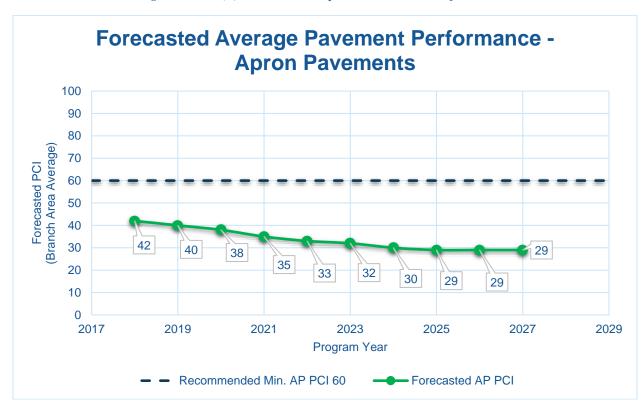


Figure 4.3.2 (c) Forecasted Apron Pavement Performance







4.3.3 Section-Level Pavement Condition Forecast

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





Table 4.3.3 Forecasted PCI 2018-2027

Natural II	Branch ID	Section ID	Last PCI	Forecasted PCI									
Network ID	OIK ID BIANCH ID			2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
COI	AP N	4202	82	78	76	74	71	69	67	66	64	62	61
COI	AP N	4203	46	45	44	44	44	43	43	43	42	42	42
COI	AP N	4205	24	20	17	15	12	10	7	4	2	0	0
COI	AP N	4215	61	58	56	54	53	53	52	52	52	52	52
COI	AP N	4218	68	64	61	59	57	55	54	53	52	52	52
COI	AP N	4220	76	73	70	68	65	62	60	58	56	54	53
COI	AP N	4225	68	64	61	59	57	55	54	53	52	52	52
COI	AP N	4230	65	61	59	57	55	54	53	52	52	52	52
COI	AP RU RW29	5105	80	78	76	74	71	69	66	64	61	59	57
COI	AP S	4105	18	14	11	9	6	4	1	0	0	0	0
COI	AP S	4106	18	14	11	9	6	4	1	0	0	0	0
COI	AP S	4110	19	15	12	10	7	5	2	0	0	0	0
COI	AP S	4111	23	19	16	14	11	9	6	3	1	0	0
COI	AP S	4115	21	17	14	12	9	7	4	1	0	0	0
COI	AP SW	4305	84	81	80	78	77	75	74	72	70	69	67
COI	AP SW	4310	78	75	74	72	71	69	68	66	64	63	61
COI	RW 11-29	6105	68	65	64	63	62	61	60	59	58	57	56
COI	TW A	105	71	69	69	68	67	65	64	63	61	60	58
COI	TW A1	305	57	54	53	51	49	48	47	46	45	44	44
COI	TW A2	405	74	72	71	70	70	69	68	67	66	64	63
COI	TW A3	505	68	66	65	64	62	61	59	58	56	54	52
COI	TW A4	605	73	71	70	70	69	68	67	66	65	63	62
COI	TW A5	110	62	59	58	56	54	53	51	49	48	47	46
COI	TW B	203	86	82	80	78	76	74	73	71	70	69	68
COI	TW B	205	64	62	60	58	57	55	53	52	50	49	47





Network ID	Branch ID	Castian ID	Locat DCI	Forecasted PCI									
Network ID	Branch ID Section ID	Last PCI	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	
COI	TW B	210	64	62	60	58	57	55	53	52	50	49	47
COI	TW B1	315	61	58	57	55	53	52	50	49	47	46	45
COI	TW B2	410	68	66	65	64	62	61	59	58	56	54	52
COI	TW B4	216	65	63	61	60	58	56	55	53	51	50	48





4.3.4 Forecasted PCI Considerations

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







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

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

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

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

5.1 Localized Maintenance and Repair

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

Localized Stopgap/Safety Maintenance and Repair

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

Localized Preventive Maintenance and Repair

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



5.2 Localized Maintenance and Repair Policy

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

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

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

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





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

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

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





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





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

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

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

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

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



5.3 Localized Maintenance and Repair Analysis and Recommendations

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

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

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

Work Description	Work Category	Rough Estimate of Work Quantity	Work Units	Planning Material Cost
FDOT - JOINT SEAL - PCC	PREVENTIVE	370	Ft	\$ 1,020.00
FDOT - PATCHING - AC FULL DEPTH	PREVENTIVE	770	SqFt	\$ 4,610.00
FDOT - SURFACE SEAL	PREVENTIVE	28,390	SqFt	\$ 15,620.00
FDOT - CRACK SEALING - AC	PREVENTIVE	720	Ft	\$ 2,150.00
FDOT - PATCHING - AC PARTIAL DEPTH	PREVENTIVE	110	SqFt	\$ 330.00
FDOT - CRACK SEALING - PCC	STOPGAP	65	Ft	\$ 270.00
FDOT - JOINT SEAL - PCC	STOPGAP	280	Ft	\$ 770.00
FDOT - PATCHING - AC FULL DEPTH	STOPGAP	3,995	SqFt	\$ 23,970.00
FDOT - SURFACE SEAL	STOPGAP	34,015	SqFt	\$ 18,710.00
FDOT - PATCHING - AC PARTIAL DEPTH	STOPGAP	307,675	SqFt	\$ 923,020.00
FDOT - CRACK SEALING - AC	STOPGAP	84,275	Ft	\$ 252,820.00



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

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

Network ID	Branch ID	Section ID	Area (SF)	Start Condition	End Condition	Cost
COI	AP N	4202	3,023	82	94	\$ 1,020.00
COI	AP N	4203	2,202	46	52	\$ 1,050.00
COI	AP N	4205	24,860	24	50	\$ 97,470.00
COI	AP N	4215	139,109	61	69	\$ 10,700.00
COI	AP N	4218	48,875	68	70	\$ 930.00
COI	AP N	4220	33,609	76	82	\$ 2,140.00
COI	AP N	4225	26,238	68	73	\$ 2,650.00
COI	AP N	4230	42,203	65	71	\$ 1,720.00
COI	AP RU RW29	5105	14,226	80	85	\$ 790.00
COI	AP S	4105	97,600	18	53	\$ 349,320.00
COI	AP S	4106	19,959	18	50	\$ 88,300.00
COI	AP S	4110	61,930	19	50	\$ 247,760.00
COI	AP S	4111	14,689	23	49	\$ 53,050.00
COI	AP S	4115	89,447	21	50	\$ 356,790.00
COI	AP SW	4305	37,682	84	86	\$ 1,960.00
COI	AP SW	4310	10,214	78	84	\$ 850.00
COI	RW 11-29	6105	270,225	68	73	\$ 10,500.00
COI	TW A	105	125,133	71	75	\$ 2,500.00
COI	TW A1	305	10,739	57	62	\$ 800.00
COI	TW A2	405	4,513	74	76	\$ 30.00
COI	TW A3	505	4,513	68	73	\$ 130.00
COI	TW A4	605	5,387	73	73	\$ -
COI	TW A5	110	9,043	62	67	\$ 1,810.00
COI	TW B	203	9,788	86	86	\$ -
COI	TW B	205	12,750	64	74	\$ 7,180.00
COI	TW B	210	57,150	64	71	\$ 2,920.00
COI	TW B1	315	4,046	61	72	\$ 440.00
COI	TW B2	410	4,298	68	76	\$ 280.00
COI	TW B4	216	5,450	65	77	\$ 430.00



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

Table 5.3-3 Summary of Localized Maintenance

Work Category	Cost
Preventive	\$ 23,730.00
Stopgap	\$ 1,219,560.00
Planning-Level Localized M&R Needs =	\$ 1,243,290.00







Chapter 6 – Major Rehabilitation **Planning**

6.1 Major Rehabilitation

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

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

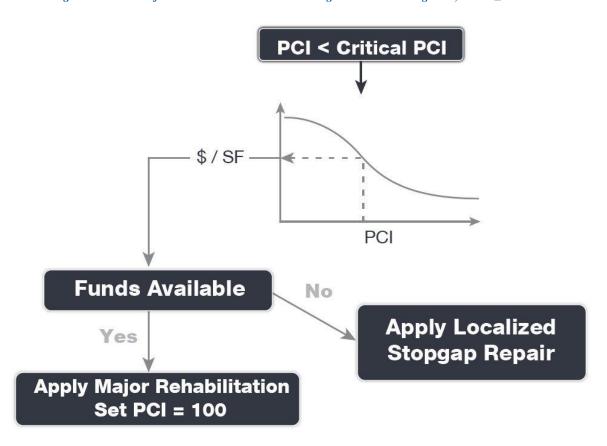
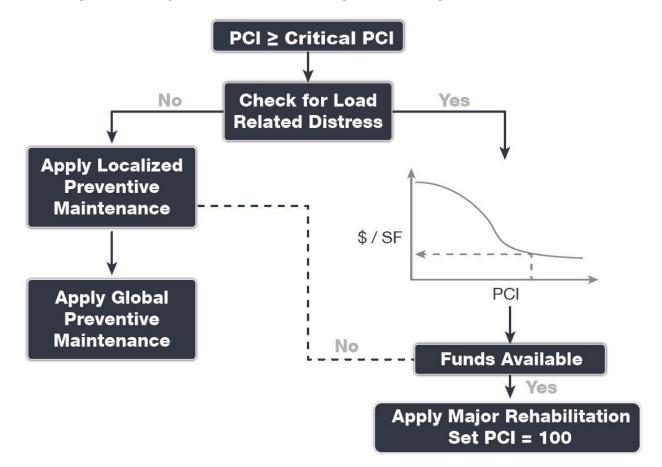






Figure 6.1-2 Major Rehabilitation Planning Decision Diagram, PCI > Critical PCI







6.1.1 Critical PCI

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

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

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

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

6.1.2 FDOT Recommended Minimum Service-Level PCI

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

Table 6.1.2 FDOT Recommended Minimum Service-Level PCI

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





6.2 Major Rehabilitation Policy

Airport Pavement

Evaluation Report

6.2.1 Major Rehabilitation Pavement Section Development

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

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

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

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





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

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

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

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

6.2.2 Major Rehabilitation Planning-Level Unit Costs

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





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

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

Rehabilitation Type PCI Rang		e Asphalt Cost Per SF	Rigid Portland Cement Concrete Cost per SF		
Restoration	41 to 65	\$ 7.00	\$	10.00	
Reconstruction	0 to 40	\$ 9.00	\$	15.00	

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

6.3 Major Rehabilitation Needs

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

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

6.3.1 10-Year Unconstrained Budget Major Rehabilitation Needs

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





Table 6.3.1 10-Year Major Rehabilitation Needs

Program Year	Network ID	Branch ID	Section ID	Surface	Area (SF)	PCI Before	Rehabilitation Type	Planning Cost
2018	COI	AP N	4203	PCC	2,202	45	PCC Restoration	\$ 28,000.00
2018	COI	AP N	4205	AAC	24,860	20	AC Reconstruction	\$ 224,000.00
2018	COI	AP N	4215	AAC	139,109	58	AC Restoration	\$ 974,000.00
2018	COI	AP N	4218	AAC	48,875	64	AC Restoration	\$ 343,000.00
2018	COI	AP N	4225	AAC	26,238	64	AC Restoration	\$ 184,000.00
2018	COI	AP N	4230	AAC	42,203	61	AC Restoration	\$ 296,000.00
2018	COI	AP S	4105	AAC	97,600	14	AC Reconstruction	\$ 879,000.00
2018	COI	AP S	4106	AAC	19,959	14	AC Reconstruction	\$ 180,000.00
2018	COI	AP S	4110	AAC	61,930	15	AC Reconstruction	\$ 558,000.00
2018	COI	AP S	4111	AAC	14,689	19	AC Reconstruction	\$ 133,000.00
2018	COI	AP S	4115	AAC	89,447	17	AC Reconstruction	\$ 806,000.00
2018	COI	TW A1	305	AAC	10,739	54	AC Restoration	\$ 76,000.00
2018	COI	TW A5	110	AAC	9,043	59	AC Restoration	\$ 64,000.00
2018	COI	TW B	205	AAC	12,750	62	AC Restoration	\$ 90,000.00
2018	COI	TW B	210	AAC	57,150	62	AC Restoration	\$ 401,000.00
2018	COI	TW B1	315	AAC	4,046	58	AC Restoration	\$ 29,000.00
2018	COI	TW B4	216	AAC	5,450	63	AC Restoration	\$ 39,000.00
2019	COI	RW 11-29	6105	AAC	270,225	64	AC Restoration	\$ 1,892,000.00
2020	COI	TW A3	505	AAC	4,513	64	AC Restoration	\$ 32,000.00
2020	COI	TW B2	410	AAC	4,298	64	AC Restoration	\$ 31,000.00
2022	COI	AP N	4220	AAC	33,609	62	AC Restoration	\$ 236,000.00
2023	COI	TW A	105	AAC	125,133	64	AC Restoration	\$ 876,000.00
2024	COI	AP RU RW29	5105	AAC	14,226	64	AC Restoration	\$ 100,000.00
2025	COI	AP N	4202	PCC	3,023	64	PCC Restoration	\$ 31,000.00
2025	COI	AP SW	4310	AC	10,214	64	AC Restoration	\$ 72,000.00
2026	COI	TW A2	405	AAC	4,513	64	AC Restoration	\$ 32,000.00
2026	COI	TW A4	605	AAC	5,387	63	AC Restoration	\$ 38,000.00

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

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





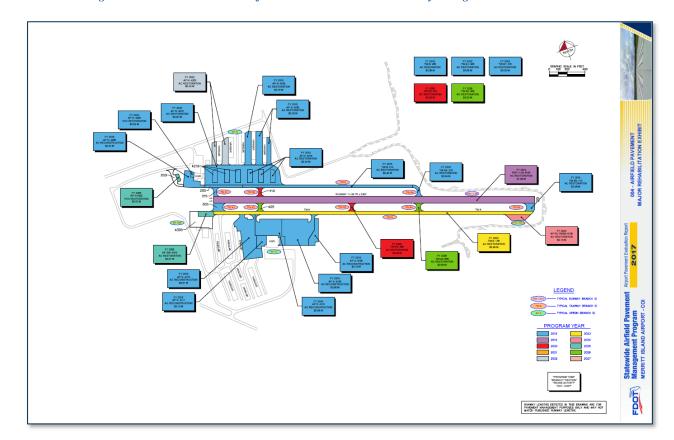
Figure 6.3.1-1 10-Year Major Rehabilitation Needs by Program Year







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





Chapter 7



Chapter 7 – Conclusion

7.1 Recommendations

7.1.1 Continued PCI Survey Inspections

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

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

7.1.2 Localized Maintenance and Repair

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

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

7.1.3 Major Rehabilitation

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

7.1.4 Pavement Management System

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

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



7.2 Supporting Documents

001 - Airfield Pavement Network Definition Exhibit

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

002 - Airfield Pavement System Inventory Exhibit

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

003 - Airfield Pavement Condition Index Exhibit

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

004 - Airfield Pavement Major Rehabilitation Exhibit

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

Inspection Photograph Documentation

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

Statewide Airfield Pavement Management Program

Airport Pavement **Evaluation Report**

2017

Merritt Island Airport (COI)





7.3 Conclusion

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



Appendix A

Airfield Pavement Analysis Tables

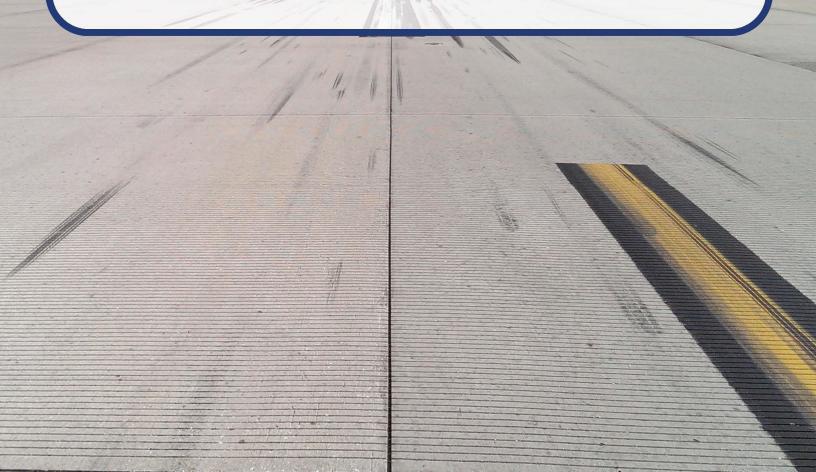






Table A-1 Pavement System Inventory Details

Network ID	Branch Name	Branch ID	Branch Use	Section ID	Length (FT)	Width (FT)	Area (SF)	Surface Type	Est. Last Construction Date
COI	NORTH APRON	AP N	APRON	4202	100	30	3,023	PCC	1/1/2011
COI	NORTH APRON	AP N	APRON	4203	50	40	2,202	PCC	1/1/1990
COI	NORTH APRON	AP N	APRON	4205	120	200	24,860	AAC	1/1/2005
COI	NORTH APRON	AP N	APRON	4215	1000	139	139,109	AAC	1/1/2005
COI	NORTH APRON	AP N	APRON	4218	480	100	48,875	AAC	1/1/2005
COI	NORTH APRON	AP N	APRON	4220	336	100	33,609	AAC	1/1/2005
COI	NORTH APRON	AP N	APRON	4225	340	75	26,238	AAC	1/1/2005
COI	NORTH APRON	AP N	APRON	4230	200	200	42,203	AAC	1/1/2005
COI	RUN-UP APRON AT RW 29	AP RU RW29	APRON	5105	280	50	14,226	AAC	1/1/2002
COI	SOUTH APRON	AP S	APRON	4105	450	200	97,600	AAC	1/1/1996
COI	SOUTH APRON	AP S	APRON	4106	100	200	19,959	AAC	1/1/1996
COI	SOUTH APRON	AP S	APRON	4110	310	200	61,930	AAC	1/1/1996
COI	SOUTH APRON	AP S	APRON	4111	134	100	14,689	AAC	1/1/1996
COI	SOUTH APRON	AP S	APRON	4115	450	200	89,447	AAC	1/1/1996
COI	SW APRON	AP SW	APRON	4305	376	100	37,682	AC	1/1/2003
COI	SW APRON	AP SW	APRON	4310	50	200	10,214	AC	1/1/2003
COI	RUNWAY 11-29	RW 11-29	RUNWAY	6105	3600	75	270,225	AAC	1/1/2002
COI	TAXIWAY A	TW A	TAXIWAY	105	3570	35	125,133	AAC	1/1/2002
COI	TAXIWAY ALPHA 1	TW A1	TAXIWAY	305	100	100	10,739	AAC	1/1/2002
COI	TAXIWAY ALPHA 2	TW A2	TAXIWAY	405	100	40	4,513	AAC	1/1/2002
COI	TAXIWAY ALPHA 3	TW A3	TAXIWAY	505	100	40	4,513	AAC	1/1/2002
COI	TAXIWAY ALPHA 4	TW A4	TAXIWAY	605	100	40	5,387	AAC	1/1/2002
COI	TAXIWAY ALPHA 5	TW A5	TAXIWAY	110	90	100	9,043	AAC	1/1/2002
COI	TAXIWAY B	TW B	TAXIWAY	203	400	25	9,788	AC	1/1/2011
COI	TAXIWAY B	TW B	TAXIWAY	205	320	40	12,750	AAC	1/1/2005
COI	TAXIWAY B	TW B	TAXIWAY	210	1900	30	57,150	AAC	1/1/2005
COI	TAXIWAY BRAVO 1	TW B1	TAXIWAY	315	100	40	4,046	AAC	1/1/2005
COI	TAXIWAY BRAVO 2	TW B2	TAXIWAY	410	100	40	4,298	AAC	1/1/2005
COI	TAXIWAY BRAVO 4	TW B4	TAXIWAY	216	150	30	5,450	AAC	1/1/2005





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

Network ID	Branch Name	Branch Use	Section ID	Area (SF)	PCI	Condition Rating
COI	RUNWAY 11-29	RUNWAY	6105	270,225	68	Fair
COI	TAXIWAY A	TAXIWAY	105	125,133	71	Satisfactory
COI	TAXIWAY ALPHA 1	TAXIWAY	305	10,739	57	Fair
COI	TAXIWAY ALPHA 2	TAXIWAY	405	4,513	74	Satisfactory
COI	TAXIWAY ALPHA 3	TAXIWAY	505	4,513	68	Fair
COI	TAXIWAY ALPHA 4	TAXIWAY	605	5,387	73	Satisfactory
COI	TAXIWAY ALPHA 5	TAXIWAY	110	9,043	62	Fair
COI	TAXIWAY B	TAXIWAY	203	9,788	86	Good
COI	TAXIWAY B	TAXIWAY	205	12,750	64	Fair
COI	TAXIWAY B	TAXIWAY	210	57,150	64	Fair
COI	TAXIWAY BRAVO 1	TAXIWAY	315	4,046	61	Fair
COI	TAXIWAY BRAVO 2	TAXIWAY	410	4,298	68	Fair
COI	TAXIWAY BRAVO 4	TAXIWAY	216	5,450	65	Fair
COI	SOUTH APRON	APRON	4105	97,600	18	Serious
COI	SOUTH APRON	APRON	4106	19,959	18	Serious
COI	SOUTH APRON	APRON	4110	61,930	19	Serious
COI	SOUTH APRON	APRON	4111	14,689	23	Serious
COI	SOUTH APRON	APRON	4115	89,447	21	Serious
COI	NORTH APRON	APRON	4202	3,023	82	Satisfactory
COI	NORTH APRON	APRON	4203	2,202	46	Poor
COI	NORTH APRON	APRON	4205	24,860	24	Serious
COI	NORTH APRON	APRON	4215	139,109	61	Fair
COI	NORTH APRON	APRON	4218	48,875	68	Fair
COI	NORTH APRON	APRON	4220	33,609	76	Satisfactory
COI	NORTH APRON	APRON	4225	26,238	68	Fair
COI	NORTH APRON	APRON	4230	42,203	65	Fair
COI	SW APRON	APRON	4305	37,682	84	Satisfactory
COI	SW APRON	APRON	4310	10,214	78	Satisfactory
COI	RUN-UP APRON AT RW 29	APRON	5105	14,226	80	Satisfactory





Table A-3 Forecasted PCI 2018-2027

Network	Branch	Section	Last					Forecas	sted PC	:1			
ID	ID	ID	PCI	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
COI	AP N	4202	82	78	76	74	71	69	67	66	64	62	61
COI	AP N	4203	46	45	44	44	44	43	43	43	42	42	42
COI	AP N	4205	24	20	17	15	12	10	7	4	2	0	0
COI	AP N	4215	61	58	56	54	53	53	52	52	52	52	52
COI	AP N	4218	68	64	61	59	57	55	54	53	52	52	52
COI	AP N	4220	76	73	70	68	65	62	60	58	56	54	53
COI	AP N	4225	68	64	61	59	57	55	54	53	52	52	52
COI	AP N	4230	65	61	59	57	55	54	53	52	52	52	52
COI	AP RU RW29	5105	80	78	76	74	71	69	66	64	61	59	57
COI	AP S	4105	18	14	11	9	6	4	1	0	0	0	0
COI	AP S	4106	18	14	11	9	6	4	1	0	0	0	0
COI	AP S	4110	19	15	12	10	7	5	2	0	0	0	0
COI	AP S	4111	23	19	16	14	11	9	6	3	1	0	0
COI	AP S	4115	21	17	14	12	9	7	4	1	0	0	0
COI	AP SW	4305	84	81	80	78	77	75	74	72	70	69	67
COI	AP SW	4310	78	75	74	72	71	69	68	66	64	63	61
COI	RW 11-29	6105	68	65	64	63	62	61	60	59	58	57	56
COI	TW A	105	71	69	69	68	67	65	64	63	61	60	58
COI	TW A1	305	57	54	53	51	49	48	47	46	45	44	44
COI	TW A2	405	74	72	71	70	70	69	68	67	66	64	63
COI	TW A3	505	68	66	65	64	62	61	59	58	56	54	52
COI	TW A4	605	73	71	70	70	69	68	67	66	65	63	62
COI	TW A5	110	62	59	58	56	54	53	51	49	48	47	46
COI	TW B	203	86	82	80	78	76	74	73	71	70	69	68
COI	TW B	205	64	62	60	58	57	55	53	52	50	49	47
COI	TW B	210	64	62	60	58	57	55	53	52	50	49	47
COI	TW B1	315	61	58	57	55	53	52	50	49	47	46	45
COI	TW B2	410	68	66	65	64	62	61	59	58	56	54	52
COI	TW B4	216	65	63	61	60	58	56	55	53	51	50	48

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Pavement Database: FDOT

Network:	MERRITT	ISLAND	Branch: AP N	NORT	H APRON	Section:	4202	Surface: PCC
L.C.D.: 1/1/20		se: APRON	Rank: P L		.00 (Ft) Wi o		00 (Ft) True Area:	3,023.00 (SqFt)
Work Date	Work Code	Work I	Description	Cost	Thickness (in)	Major M&R	Comr	
1/1/2011	NU-IN	New Construc	tion - Initial	0.00	0.00	V		
Network:	MERRITT	ISLAND	Branch: AP N	NORT	H APRON	Section:	4203	Surface: PCC
L.C.D.: 1/1/1	990 Us	se: APRON	Rank: P L	ength: 50	.00 (Ft) Wi o	dth: 40.0	00 (Ft) True Area:	2,202.00 (SqFt)
Work Date	Work Code	Work I	escription	Cost	Thickness (in)	Major M&R	Comm	nents
1/1/1990	IMPORT ED	BUILT		0.00	0.00	<	ESTIMATE 1990 PO	CC PAVEMENT
	ED							
Network:	MERRITT	SISLAND	Branch: AP N	NORT	H APRON	Section:	4205	Surface: AAC
L.C.D.: 1/1/20	005 Us	se: APRON	Rank: P L	ength: 120	.00 (Ft) Wi o	dth: 200.0	00 (Ft) True Area:	24,860.00 (SqFt)
Work Date	Work Code	Work I	escription	Cost	Thickness (in)	Major M&R	Comr	nents
1/1/2005		MILL and OV	ERLAY	0.00	1.50	V		
1/1/1990	IMPORT ED	REPAIR		0.00	0.00		1990: SEALCOAT -	TYPE R
1/1/1980	IMPORT ED	BUILT		0.00	1.50		1980: 1.5" P-401 ON BASE ON 4" STAB	
Network:	MERRITT	ISLAND	Branch: AP N	NORT	H APRON	Section:	4215	Surface: AAC
L.C.D.: 1/1/20		se: APRON		ength: 1,000			00 (Ft) True Area:	
Work Date	Work Code	Work I	Description	Cost	Thickness (in)	Major M&R	Comr	nents
1/1/2005	MI&OV	Mill & Overla	у	0.00	1.50	>		
1/1/1990	IMPORT ED	BUILT		0.00	0.00		1990: SEALCOAT -	TYPE R
1/1/1965	IMPORT ED	OVERLAY		0.00	0.00		ESTIMATE 1965 AG	C PAVEMENT
1/1/1965	IMPORT ED	OVERLAY		0.00	0.00	V	SOIL: SP-SC	
Network:	MERRITT	ISLAND	Branch: AP N	NORT	H APRON	Section:	4218	Surface: AAC
L.C.D.: 1/1/20	005 Us	se: APRON	Rank: P L	ength: 480	.00 (Ft) Wi o	dth: 100.0	00 (Ft) True Area:	48,875.00 (SqFt)
Work Date	Work Code	Work I	escription	Cost	Thickness (in)	Major M&R	Comr	nents
1/1/2005		Mill and Over	•	0.00	1.50	>		
1/1/1965	NU-IN	New Construc	ion - Initial	0.00	0.00	~	ESTIMATE 1965 AG	

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Pavement Database: FDOT

Network:	MERRITT	ISLAND	Branch: AP N	NORT	H APRON	Section:	4220	Surface: AAC
L.C.D.: 1/1/2	005 Us	se: APRON	Rank: P L	ength: 336	.00 (Ft) Wi	dth: 100.	00 (Ft) True Area:	33,609.00 (SqFt)
Work Date	Work Code	Work D	escription	Cost	Thickness (in)	Major M&R	Comm	nents
1/1/2005	ML-OV	MILL and OV	ERLAY	0.00	1.50	>		
1/1/1990	IMPORT ED	REPAIR		0.00	0.00		1990: SEALCOAT -	TYPE R
1/1/1974	IMPORT ED	BUILT		0.00	4.00		1974: 4" SUBGRAD WITH LIME ROCK	1.5
1/1/1974	IMPORT ED	OVERLAY		0.00	0.00	V	SOIL: SP-SC	
1/1/1974	IMPORT ED	OVERLAY		0.00	1.50		1974: P-625 SEAL O 6" P-211 ON	N 1.5" P-401 ON
Network:	MERRITT	ISLAND	Branch: AP N	NORT	H APRON	Section:	4225	Surface: AAC
L.C.D.: 1/1/2	005 Us	se: APRON	Rank: P L	ength: 340	.00 (Ft) Wi	dth: 75.	00 (Ft) True Area:	26,238.00 (SqFt)
Work Date	Work Code	Work D	escription	Cost	Thickness (in)	Major M&R	Comm	nents
1/1/2005	ML-OV	MILL and OV	ERLAY	0.00	1.50	>		
1/1/1990	IMPORT ED	REPAIR		0.00	0.00		1990: SEALCOAT -	TYPE R
1/1/1975	IMPORT ED	BUILT		0.00	1.50	V :	1975: 1.5" P-401 ON COMP. SUBGRADE	
1/1/1975	IMPORT ED	OVERLAY		0.00	0.00	>	SOIL: SP-SC	
Network:	MERRITT	ISLAND	Branch: AP N	NORT	H APRON	Section:	4230	Surface: AAC
L.C.D.: 1/1/2	005 Us	se: APRON	Rank: P L	ength: 200	.00 (Ft) Wi	dth: 200.	00 (Ft) True Area:	42,203.00 (SqFt)
Work Date	Work Code	Work D	escription	Cost	Thickness (in)	Major M&R	Comm	nents
1/1/2005	MI&OV	Mill & Overlay	1	0.00	1.50	>		
1/1/1990	IMPORT ED	BUILT		0.00	0.00	V :	1990: SEALCOAT -	TYPE R
1/1/1980	IMPORT ED	OVERLAY		0.00	0.00	V :	ESTIMATE 1980 AC	C PAVEMENT
1/1/1980	IMPORT ED	OVERLAY		0.00	0.00		SOIL: SP-SC	
Network:	MERRITT	ISLAND	Branch: AP RU	RW29 RUN-	UP APRON	Section:	5105	Surface: AAC
L.C.D.: 1/1/2	002 Us	se: APRON	Rank: P L	ength: 280	.00 (Ft) Wi	dth: 50.	00 (Ft) True Area:	14,226.00 (SqFt)
Work Date	Work Code	Work D	escription	Cost	Thickness (in)	Major M&R	Comm	nents
1/1/2002	ML-OV	MILL and OV	ERLAY	0.00	0.00	>		
1/1/1996	IMPORT ED	OVERLAY		0.00	0.00	V	EST. CONSTRUCTI TW	ON BASED ON
1/1/1996	IMPORT ED	BUILT		0.00	2.00	V	1996 2" P401 ON 12	" P211

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Pavement Database: FDOT

		1 aven	tent Database:	FDOI				
Network:	MERRITT	SISLAND	Branch: APS	SOUT	H APRON	Section:	4105	Surface: AAC
L.C.D.: 1/1/1	996 Us	se: APRON	Rank: P L	ength: 450	.00 (Ft) Wi	dth: 200.	00 (Ft) True Area:	97,600.00 (SqFt)
Work Date	Work Code	Work 1	Description	Cost	Thickness (in)	Major M&R	Comn	nents
1/1/1996	IMPORT ED	BUILT		0.00	0.00	V	1996 AC OVERLAY	
1/1/1978		OVERLAY		0.00	0.00		EMULSION SEAL (ON 1978 AC
Network:	MERRITT	SISLAND	Branch: APS	SOUT	H APRON	Section:	4106	Surface: AAC
L.C.D.: 1/1/1	996 Us	se: APRON	Rank: P L	ength: 100	.00 (Ft) Wi	dth: 200.	00 (Ft) True Area:	19,959.00 (SqFt)
Work Date	Work Code	Work 1	Description	Cost	Thickness (in)	Major M&R	Comn	nents
1/1/1996	IMPORT ED	BUILT		0.00	2.00	V	1996 2" P401 ON 6"	P211
Network:	MERRITT	SISLAND	Branch: APS	SOUT	H APRON	Section:	4110	Surface: AAC
L.C.D.: 1/1/1		se: APRON					00 (Ft) True Area:	
Work Date	Work Code	Work 1	Description	Cost	Thickness (in)	Major M&R	Comn	nents
1/1/1996	IMPORT ED	BUILT		0.00	0.00	V	1996 AC OVERLAY	ON
1/1/1978		OVERLAY		0.00	0.00		EMULSION SEAL (PAVEMENT	COAT ON 1978 AC
						a		
Network: L.C.D.: 1/1/1		Se: APRON	Branch: APS Rank: P L		H APRON .00 (Ft) Wi e	Section:	4111 00 (Ft) True Area:	Surface: AAC 14,689.00 (SqFt)
Work Date	Work Code		Description	Cost	Thickness (in)	Major M&R	Comn	, (1)
1/1/1996	IMPORT	OVERLAY		0.00	1.50	V	1996 1.5" P401 OVE	RLAY
1/1/1970	ED IMPORT ED	BUILT		0.00	1.50		1970 1.5" P401 ON	6" P211
Network:			Branch: AP S	SOUT	H APRON	Section:	4115	Surface: AAC
L.C.D.: 1/1/1		se: APRON	Rank: P L	ength: 450	` /		00 (Ft) True Area:	89,447.00 (SqFt)
Work Date	Work Code		Description	Cost	Thickness (in)	Major M&R	Comn	
1/1/1996	IMPORT ED	BUILT		0.00	0.00	V	1996 AC OVERLAY	
1/1/1975	IMPORT ED	OVERLAY		0.00	0.00		ON EMULSION SEA PAVEMENT	AL ON 1975 AC

Network: L.C.D.: 1/1/2		ISLAND se: APRON	Branch: AP SW Rank: P L	~	PRON 5.00 (Ft) Wi	Section:		Surface: AC 37,682.00 (SqFt)
Work Date	Work Code	Work	Description	Cost	Thickness (in)	Major M&R	Com	ments
1/1/2003	CR-AC	Complete Rec	construction - AC	0.00	2.00	V	2" AC/ 8" P-211/ 8"	' Stab Sbgrd
1/1/1970	IMPORT ED	BUILT		0.00	0.00		EMULSION SEAL PAVEMENT	COAT ON THIS
1/1/1970	IMPORT ED	OVERLAY		0.00	0.00		ESTIMATE 1970 A	AC PAVEMENT

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Pavement Database: FDOT

Network:	Network: MERRITT ISLAND		Branch: AP SW	SW A	PRON	Section:	4310	Surface: AC	
L.C.D.: 1/1/2	003 Us	se: APRON	Rank: P L	ength: 50	.00 (Ft) Wi	dth: 200.0	00 (Ft) True Area:	10,214.00 (SqFt)	
Work Date	Work Code	Work	Description	Cost	Thickness (in)	Major M&R	Com	ments	
1/1/2003	CR-AC	Complete Rec	construction - AC	0.00	0.00	V			
1/1/1990	IMPORT ED	BUILT		0.00	0.00		1990 WEDGE OVE AC PAVEMENT	RLAY ON OLD	

Network: MERRITT ISLAND **RUNWAY 11-29** Branch: RW 11-29 Section: 6105 Surface: AAC **L.C.D.:** 1/1/2002 Use: RUNWAY Rank: P **Length:** 3,600.00 (Ft) **Width:** 75.00 (Ft) **True Area:** 270,225.00 (SqFt)

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
7/1/2016	SS-RE	Surface Seal - Rejuvenating	13,511.25	0.00		RejuvaSeal
1/1/2002	OV-ME	Overlay with Asph Rubber Membrane Interlayer	0.00	2.00		2" AC/ARMI
1/1/1990	IMPORT ED	OVERLAY	0.00	0.00	>	SOIL: SP-SC
1/1/1990	IMPORT ED	OVERLAY	0.00	1.50		1990: MINIMUM 1.5" P-401 ON MAXIMUM .5" TYPE 2 SAND-ASPH
1/1/1990	IMPORT ED	OVERLAY	0.00	0.00	>	EXISTING PAVEMENT (NO INFO)
1/1/1974	IMPORT ED	BUILT	0.00	1.50		1974: 1.5" P-401 OVERLAY

Network: MERRITT ISLAND Branch: TW A TAXIWAY A Section: 105 Surface: AAC **L.C.D.:** 1/1/2002 **Length:** 3,570.00 (Ft) **Width:** 35.00 (Ft) **True Area:** 125,133.00 (SqFt) Use: TAXIWAY Rank: P

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
1/1/2002	OV-ME	Overlay with Asph Rubber Membrane Interlayer	0.00	2.00		2" AC/ARMI
1/1/1990	IMPORT ED	OVERLAY	0.00	0.00		ON EXISTING PAVEMENT (SECTION UNKNOWN)
1/1/1990	IMPORT ED	OVERLAY	0.00	1.50		1990: MINIMUM 1.5" P-401 OVERLAY ON MAXIMUM .5" TYPE
1/1/1990	IMPORT ED	OVERLAY	0.00	0.00		SOIL: SP-SC
1/1/1974	IMPORT ED	BUILT	0.00	1.50		1974: 1.5" P-401 OVERLAY

Network: MERRITT ISLAND Branch: TW A1 TAXIWAY ALPH Section: 305 Surface: AAC

Use: TAXIWAY Rank: P **L.C.D.:** 1/1/2002 Length: 100.00 (Ft) **Width:** 100.00 (Ft) **True Area:** 10,739.00 (SqFt) Work Thickness Major **Work Date Work Description** Cost **Comments** Code M&R (in)

1/1/2002	ML-OL	Mill and Overlay	0.00	0.00	✓	
1/1/1990	IMPORT ED	OVERLAY	0.00	1.50		1990: MINIMUM 1.5" P-401 ON MAXIMUM .5" TYPE 2 SAND-ASPH
1/1/1990	IMPORT ED	OVERLAY	0.00	0.00		SOIL: SP-SC
1/1/1990	IMPORT ED	OVERLAY	0.00	0.00		EXISTING PAVEMENT (SECTION UNKNOWN)
1/1/1974	IMPORT ED	BUILT	0.00	1.50		1974 1.5" P-401 OVERLAY

PAVER 7.0 TM Pavement Management System

1/1/1990

IMPORT OVERLAY

Work History Report

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Pavement Database: FDOT

Network:			-	WAY ALPH	Section:	405 Surface: AAC 00 (Ft) True Area: 4,513.00 (SqFt)
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
1/1/2002	ML-OL	Mill and Overlay	0.00	0.00	~	
1/1/1990	IMPORT ED	OVERLAY	0.00	0.00		EXISTING PAVEMENT (SECTION UNKNOWN)
1/1/1990	IMPORT ED	OVERLAY	0.00	0.00		SOIL: SP-SC
1/1/1990	IMPORT ED	BUILT	0.00	1.50		1990: MINIMUM 1.5" P-401 ON MAXIMUM .5" TYPE 2 SAND-ASPH

Network: MERRITT ISLAND Branch: TW A3 TAXIWAY ALPH Section: 505 Surface: AAC **L.C.D.:** 1/1/2002 Use: TAXIWAY Rank: P Length: 100.00 (Ft) Width: 40.00 (Ft) **True Area:** 4,513.00 (SqFt) Major Work Thickness **Work Date Work Description** Cost **Comments** Code (in) M&R 1/1/2002 OV-ME Overlay with Asph Rubber 2.00 0.00 < 2" AC/ARMI Membrane Interlayer IMPORT OVERLAY 1/1/1990 0.00 0.00 V **EXISTING PAVEMENT (SECTION** ED UNKNOWN) 1/1/1990 IMPORT OVERLAY 0.00 1.50 1990: MINIMUM 1.5" P-401 ON ~ ED MAXIMUM .5" TYPE 2 SAND-ASPH

ED IMPORT BUILT 1/1/1974 1974 1.5" P-401 OVERLAY 0.001.50 ED **Network:** MERRITT ISLAND TAXIWAY ALPH Section: 605 Branch: TW A4 Surface: AAC **L.C.D.:** 1/1/2002 Use: TAXIWAY Rank: P 100.00 (Ft) **Width:** 40.00 (Ft) **True Area:** Length: 5,387.00 (SqFt)

0.00

0.00

V

SOIL: SP-SC

				. ,		() 1 /
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
1/1/2002	OL-AS	Overlay - AC Structural	0.00	2.00	V	2" AC/ARMI
1/1/1979	IMPORT ED	OVERLAY	0.00	0.00		SOIL: SP-SC
1/1/1979	IMPORT ED	BUILT	0.00	1.50		1979: 1.5" P-401 ON 6" P-211

Network: MERRITT ISLAND Branch: TW A5 TAXIWAY ALPH Section: 110 Surface: AAC L.C.D.: 1/1/2002 Use: TAXIWAY Rank: P Length: 90.00 (Ft) Width: 100.00 (Ft) True Area: 9,043.00 (SqFt)

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
1/1/2002	OV-ME	Overlay with Asph Rubber Membrane Interlayer	0.00	2.00		2" AC/ARMI
1/1/1990	IMPORT ED	OVERLAY	0.00	0.00		SOIL: SP-SC
1/1/1990	IMPORT ED	OVERLAY	0.00	0.00		EXISTING PAVEMENT (SECTION UNKNOWN)
1/1/1990	IMPORT ED	OVERLAY	0.00	1.50		1990: MINIMUM 1.5" P-401 ON MAXIMUM .5" TYPE 2 SAND-ASPH
1/1/1974	IMPORT ED	BUILT	0.00	1.50	V	1974: 1.5" P-401 OVERLAY

Work History Report Pavement Database: FDOT

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Network: L.C.D.: 1/1/2				WAY BRAV .00 (Ft) Wie	Section:	315 Surface: AAC 00 (Ft) True Area: 4,046.00 (SqFt)
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
1/1/2005	ML-OL	Mill and Overlay	0.00	0.00	~	
1/1/1990	IMPORT ED	OVERLAY	0.00	1.50		1990 1.5" P401 OVERLAY ON
1/1/1990	IMPORT ED	OVERLAY	0.00	0.00		EXISTING BITUMONOUS SURFACE ON LIMEROCK
1/1/1990	IMPORT ED	BUILT	0.00	0.50		1990 0.5" TYPE 2 SAND ASPHALT SEAL COAT ON
Network:	MERRITT	ISLAND Branch: TW B	TAXI	WAY B	Section:	203 Surface: AC

Network: MERRITT ISLAND		Branch: TW B	3	TAXI	WAY B	Se	ection:	203		Surface: AC	
L.C.D.: 1/1/2011 Use: TAXIWAY			Rank: P	Length:	400	0.00 (Ft) V	Width:	25.0	00 (Ft)	True Area:	9,788.00 (SqFt)
Work Date	Work Code	Work D	escription	Co	ost	Thickness (in)		Iajor I&R	Comments		nents
1/1/2011	NU-IN	New Construct	ion - Initial		0.00	0.0	00	<			

Network:	MERRITT	ISLAND	Branch: TW B	TAX	IWAY B		Section:	205	Surface: AAC
L.C.D.: 1/1/20	005 Us	e: TAXIWAY	Rank: P L	ength: 3	20.00 (Ft)	Wid	lth: 40.0	00 (Ft) True Area	a: 12,750.00 (SqFt)
Work Date	Work Code	Work I	Description	Cost	Thicknet (in)	ess	Major M&R	Cor	nments
1/1/2005	ML-OV	MILL and OV	ERLAY	0.0	0 1	1.50	<		
1/1/1990	IMPORT ED	BUILT		0.0	0	0.00		1990 SEAL COAT SEAL)	Γ TYPE R (SLURRY
1/1/1965	IMPORT ED	OVERLAY		0.0	0	0.00		ESTIMATE 1965	AC PAVEMENT
1/1/1965	IMPORT ED	OVERLAY		0.0	0	0.00	~	SOIL: SP-SC	

	Network: MERRITT ISLAND			Branch: TW B	TAXIV	WAY B	Section:	210	Surface: AAC
]	L.C.D.: 1/1/20	005 Us	e: TAXIWAY	Rank: P L	ength: 1,900	.00 (Ft) Wi	dth: 30.0	00 (Ft) True Area:	57,150.00 (SqFt)
	Work Date	Work Code	Work D	escription	Cost	Thickness (in)	Major M&R	Com	ments
-	1/1/2005	ML-OV	MILL and OV	ERLAY	0.00	1.50	V		
-	1/1/1990	IMPORT ED	OVERLAY		0.00	0.00		1990 SEAL COAT	- TYPE R
-	1/1/1980	IMPORT ED	BUILT		0.00	1.50	>	1980: 1.5" P-401 O	N 6" LIME ROCK

Network: L.C.D.: 1/1/2	MERRITT			WAY BRAV	Section:	\$\frac{10}{00\text{ (Ft)}} \text{Surface: AAC} \\ \dots \text{410} \text{Surface: AAC} \\ \dots \text{4.298.00 (SqFt)} \\ \dots \qua
Work		Work Description	Cost	Thickness (in)	Major M&R	Comments
1/1/2005	ML-OL	Mill and Overlay	0.00	0.00	V	
1/1/1990	IMPORT ED	OVERLAY	0.00	0.00	V	SOIL: SP-SC
1/1/1990	IMPORT ED	BUILT	0.00	1.50	V	1990: MINIMUM 1.5" P-401 ON MAXIMUM .5" TYPE 2 SAND-ASPH
1/1/1990	IMPORT ED	OVERLAY	0.00	0.00	V	EXISTING AC PAVEMENT (SECTION UNKNOWN)

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	Pavement Database: FDOT	

Network:				WAY BRAV	Section:		
L.C.D.: 1/1/2 Work Date	Work Code	se: TAXIWAY Rank: P L Work Description	ength: 150 Cost	Thickness Major		00 (Ft) True Area: 5,450.00 (SqFt) Comments	
1/1/2005		Mill & Overlay	0.00	(in)	WAK V		
1/1/1990	IMPORT ED	OVERLAY	0.00	0.00	V	SOIL: SP-SC	
1/1/1990	IMPORT ED	OVERLAY	0.00	1.50		1990: MINIMUM 1.5" P-401 ON MAXIMUM .5" TYPE 2 SAND-ASPI	
1/1/1979	IMPORT ED	BUILT	0.00	1.50		1979: 1.5" P-401 ON 6" P-211	

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Pavement Database: FDOT

Summary:

Work Description	Section Count	Area Total (SqFt)	Thickness Avg (in)	Thickness STD (in)
BUILT	26	1,127,215.00	1.08	0.95
Complete Reconstruction - AC	2	47,896.00	1.00	1.00
Mill & Overlay	3	186,762.00	1.50	0.00
MILL and OVERLAY	11	241,304.00	0.82	0.75
New Construction - Initial	3	61,686.00	0.00	0.00
OVERLAY	40	2,155,264.00	0.34	0.63
Overlay - AC Structural	1	5,387.00	2.00	0.00
Overlay with Asph Rubber Membrane Interlayer	4	408,914.00	2.00	0.00
REPAIR	3	84,707.00	0.00	0.00
Surface Seal - Rejuvenating	1	270,225.00	0.00	0.00

Branch Condition Report

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Pavement Database: FDOT

Branch ID	Number of Sections	Sum Section Length (Ft)	Avg Section Width (Ft)	True Area (SqFt)	Use	Average PCI	Standard Deviation PCI	Weighted Average PCI
AP N	8	2,626.00	110.50	320,119.00	APRON	61.25	17.22	61.97
AP RU RW2	1	280.00	50.00	14,226.00	APRON	80.00	0.00	80.00
AP S	5	1,444.00	180.00	283,625.00	APRON	19.80	1.94	19.42
AP SW	2	426.00	150.00	47,896.00	APRON	81.00	3.00	82.72
RW 11-29	1	3,600.00	75.00	270,225.00	RUNWAY	68.00	0.00	68.00
TW A	1	3,570.00	35.00	125,133.00	TAXIWAY	71.00	0.00	71.00
TW A1	1	100.00	100.00	10,739.00	TAXIWAY	57.00	0.00	57.00
TW A2	1	100.00	40.00	4,513.00	TAXIWAY	74.00	0.00	74.00
TW A3	1	100.00	40.00	4,513.00	TAXIWAY	68.00	0.00	68.00
TW A4	1	100.00	40.00	5,387.00	TAXIWAY	73.00	0.00	73.00
TW A5	1	90.00	100.00	9,043.00	TAXIWAY	62.00	0.00	62.00
TW B	3	2,620.00	31.67	79,688.00	TAXIWAY	71.33	10.37	66.70
TW B1	1	100.00	40.00	4,046.00	TAXIWAY	61.00	0.00	61.00
TW B2	1	100.00	40.00	4,298.00	TAXIWAY	68.00	0.00	68.00
TW B4	1	150.00	30.00	5,450.00	TAXIWAY	65.00	0.00	65.00

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	Pavement Database: FDOT	

Use Category	Number of Sections	Total Area (SqFt)	Arithmetic Average PCI	Average STD PCI	Weighted Average PCI
APRON	16	665866.000203656	51.94	25.91	45.72
RUNWAY	1	270225.000082602	68.00	0.00	68.00
TAXIWAY	12	252810.000077951	67.75	7.30	68.43
ALL	29	1188901.00036421	59.03	21.32	55.62

Pavement Database: FDOT

NetworkId: COI

Branch ID Section AP N 4202 AP N 4203 AP N 4205 AP N 4215 AP N 4218 AP N 4220 AP N 4225 AP N 4230	1/1/2014 1/1/2005 1/1/2005 1/1/2005 1/1/2005 1/1/2005 1/1/2005	PCC AAC AAC AAC AAC	APRON APRON APRON APRON APRON APRON	P P P	0 0 0 0	3,023.00 2,202.00 24,860.00	Inspection Date 9/13/2016 9/13/2016 9/13/2016	Age At Inspec tion 5 26 11	PCI 82
AP N 4203 AP N 4205 AP N 4215 AP N 4218 AP N 4220 AP N 4225	1/1/1990 1/1/2005 1/1/2005 1/1/2005 1/1/2005	PCC AAC AAC AAC AAC	APRON APRON APRON APRON	P P P	0	2,202.00 24,860.00	9/13/2016 9/13/2016	26	46
AP N 4205 AP N 4215 AP N 4218 AP N 4220 AP N 4225	1/1/2005 1/1/2005 1/1/2005 1/1/2005 1/1/2005	AAC AAC AAC AAC	APRON APRON APRON	P P	0	24,860.00	9/13/2016		
AP N 4215 AP N 4218 AP N 4220 AP N 4225	1/1/2005 1/1/2005 1/1/2005 1/1/2005	AAC AAC AAC	APRON APRON	Р				11	24
AP N 4218 AP N 4220 AP N 4225	1/1/2005 1/1/2005 1/1/2005	AAC AAC	APRON		0	400 400 00			24
AP N 4220 AP N 4225	1/1/2005 1/1/2005	AAC			·	139,109.00	9/13/2016	11	61
AP N 4225	1/1/2005		APRON	Р	0	48,875.00	9/13/2016	11	68
		AAC		Р	0	33,609.00	9/13/2016	11	76
IAP N 14230	1/1/2005	_	APRON	Р	0	26,238.00	9/13/2016	11	68
7 1		AAC	APRON	Р	0	42,203.00	9/13/2016	11	65
AP RU RW29 5105	1/1/2002	AAC	APRON	Р	0	14,226.00	9/13/2016	14	80
AP S 4105	1/1/1996	AAC	APRON	Р	0	97,600.00	9/13/2016	20	18
AP S 4106	1/1/1996	AAC	APRON	Р	0	19,959.00	9/13/2016	20	18
AP S 4110	1/1/1996	AAC	APRON	Р	0	61,930.00	9/13/2016	20	
AP S 4111	1/1/1996		APRON	Р	0	14,689.00	9/13/2016	20	
AP S 4115	1/1/1996	AAC	APRON	Р	0	89,447.00	9/13/2016	20	21
AP SW 4305	1/1/2003		APRON	Р	0	37,682.00	9/13/2016	13	
AP SW 4310	1/1/2003	AC AC	APRON	Р	0	10,214.00	9/13/2016	13	78
RW 11-29 6105	1/1/2002	AAC	RUNWAY	Р	0	270,225.00	9/13/2016	14	68
TW A 105	1/1/2002	AAC	TAXIWAY	Р	0	125,133.00	9/13/2016	14	71
TW A1 305	1/1/2002	AAC	TAXIWAY	Р	0	10,739.00	9/13/2016	14	57
TW A2 405	1/1/2002	AAC	TAXIWAY	Р	0	4,513.00	9/13/2016	14	74
TW A3 505	1/1/2002	AAC	TAXIWAY	Р	0	4,513.00	9/13/2016	14	68
TW A4 605	1/1/2002	AAC	TAXIWAY	Р	0	5,387.00	9/13/2016	14	73
TW A5 110	1/1/2002	AAC	TAXIWAY	Р	0	9,043.00	9/13/2016	14	62
TW B 203	1/1/2011	AC	TAXIWAY	Р	0	9,788.00	9/13/2016	5	86
TW B 205	1/1/2005	AAC	TAXIWAY	Р	0	12,750.00	9/13/2016	11	64
TW B 210	1/1/2005	AAC	TAXIWAY	Р	0	57,150.00	9/13/2016	11	64
TW B1 315	1/1/2005	AAC	TAXIWAY	Р	0	4,046.00	9/13/2016	11	
TW B2 410	1/1/2005	AAC	TAXIWAY	P	0	4,298.00	9/13/2016	11	68
TW B4 216	1/1/2005	AAC	TAXIWAY	Р	0	5,450.00	9/13/2016	11	65

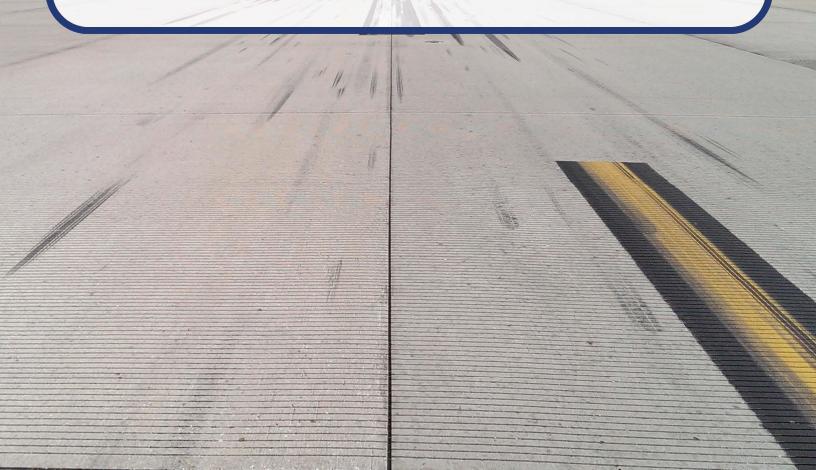
7/10/2017	Section Condition Report (Summary)	Page 2 of 2
	Pavement Database: FDOT	

Age Category	Average Age at Inspection	Total Area (SqFt)	Number of Sections	Arithmetic Average PCI	Standard Deviation PCI	Weighted Average PCI
03-05	5	12,811.00	2	84.00	2.00	85.06
11-15	12	890,263.00	21	66.62	11.62	66.75
16-20	20	283,625.00	5	19.80	1.94	19.42
26-30	26	2,202.00	1	46.00	0.00	46.00
ALL	14	1,188,901.00	29	59.03	21.32	55.62



Appendix B

Airfield Pavement Localized Maintenance and Repair and Major Rehabilitation



Merritt Island Airport (COI)





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

Network ID	Branch ID	Section ID	Distress Code	Description	Severity	Distress Qty	Distress Unit	Percent Distress	Work Description	Work Qty	Work Unit	Unit Cost	Work Cost
COI	AP N	4202	65	JT SEAL DMG	High	21	Slabs	100.0%	FDOT - JOINT SEAL - PCC	370.08	Ft	\$ 2.75	\$ 1,020.00
COI	AP N	4203	65	JT SEAL DMG	High	18	Slabs	100.0%	FDOT - JOINT SEAL - PCC	276.57	Ft	\$ 2.75	\$ 770.00
COI	AP N	4203	72	SHAT. SLAB	Low	2.4	Slabs	13.3%	FDOT - CRACK SEALING - PCC	52.82	Ft	\$ 4.25	\$ 230.00
COI	AP N	4203	74	JOINT SPALL	Low	1.2	Slabs	6.7%	FDOT - CRACK SEALING - PCC	1.97	Ft	\$ 4.25	\$ 10.00
COI	AP N	4203	75	CORNER SPALL	Low	4.8	Slabs	26.7%	FDOT - CRACK SEALING - PCC	7.87	Ft	\$ 4.25	\$ 40.00
COI	AP N	4205	43	BLOCK CR	Medium	24860	SqFt	100.0%	FDOT - CRACK SEALING - AC	7577.43	Ft	\$ 3.00	\$ 22,740.00
COI	AP N	4205	49	OIL SPILLAGE	N/A	23.68	SqFt	0.1%	FDOT - PATCHING - AC PARTIAL DEPTH	47.36	SqFt	\$ 3.00	\$ 150.00
COI	AP N	4205	52	RAVELING	Medium	24860	SqFt	100.0%	FDOT - PATCHING - AC PARTIAL DEPTH	24860.33	SqFt	\$ 3.00	\$ 74,580.00
COI	AP N	4215	45	DEPRESSION	Low	792.01	SqFt	0.6%	FDOT - PATCHING - AC FULL DEPTH	909.55	SqFt	\$ 6.00	\$ 5,460.00
COI	AP N	4215	52	RAVELING	Low	8617.59	SqFt	6.2%	FDOT - SURFACE SEAL	8617.59	SqFt	\$ 0.55	\$ 4,740.00
COI	AP N	4215	52	RAVELING	Medium	166.3	SqFt	0.1%	FDOT - PATCHING - AC PARTIAL DEPTH	166.84	SqFt	\$ 3.00	\$ 500.00
COI	AP N	4218	48	L&TCR	Medium	308.07	Ft	0.6%	FDOT - CRACK SEALING - AC	308.07	Ft	\$ 3.00	\$ 930.00
COI	AP N	4220	49	OIL SPILLAGE	N/A	60.49	SqFt	0.2%	FDOT - PATCHING - AC PARTIAL DEPTH	95.8	SqFt	\$ 3.00	\$ 290.00
COI	AP N	4220	52	RAVELING	Low	3360.92	SqFt	10.0%	FDOT - SURFACE SEAL	3360.49	SqFt	\$ 0.55	\$ 1,850.00
COI	AP N	4225	45	DEPRESSION	Low	361.02	SqFt	1.4%	FDOT - PATCHING - AC FULL DEPTH	441.32	SqFt	\$ 6.00	\$ 2,650.00
COI	AP N	4230	49	OIL SPILLAGE	N/A	168.78	SqFt	0.4%	FDOT - PATCHING - AC PARTIAL DEPTH	224.97	SqFt	\$ 3.00	\$ 680.00
COI	AP N	4230	52	RAVELING	Low	1875.72	SqFt	4.4%	FDOT - SURFACE SEAL	1876.15	SqFt	\$ 0.55	\$ 1,040.00
COI	AP RU RW29	5105	52	RAVELING	Low	1422.56	SqFt	10.0%	FDOT - SURFACE SEAL	1422.99	SqFt	\$ 0.55	\$ 790.00
COI	AP S	4105	43	BLOCK CR	Medium	75871.36	SqFt	77.7%	FDOT - CRACK SEALING - AC	23125.66	Ft	\$ 3.00	\$ 69,380.00
COI	AP S	4105	43	BLOCK CR	High	6750.16	SqFt	6.9%	FDOT - PATCHING - AC PARTIAL DEPTH	6750.05	SqFt	\$ 3.00	\$ 20,260.00
COI	AP S	4105	45	DEPRESSION	Low	445.52	SqFt	0.5%	FDOT - PATCHING - AC FULL DEPTH	534.97	SqFt	\$ 6.00	\$ 3,210.00
COI	AP S	4105	49	OIL SPILLAGE	N/A	1599.73	SqFt	1.6%	FDOT - PATCHING - AC PARTIAL DEPTH	1765.28	SqFt	\$ 3.00	\$ 5,300.00
COI	AP S	4105	52	RAVELING	Low	5994.1	SqFt	6.1%	FDOT - SURFACE SEAL	5994.42	SqFt	\$ 0.55	\$ 3,300.00
COI	AP S	4105	52	RAVELING	Medium	82621.52	SqFt	84.7%	FDOT - PATCHING - AC PARTIAL DEPTH	82621.62	SqFt	\$ 3.00	\$ 247,870.00
COI	AP S	4106	43	BLOCK CR	Medium	19958.98	SqFt	100.0%	FDOT - CRACK SEALING - AC	6083.66	Ft	\$ 3.00	\$ 18,260.00
COI	AP S	4106	45	DEPRESSION	Low	1531.49	SqFt	7.7%	FDOT - PATCHING - AC FULL DEPTH	1693.16	SqFt	\$ 6.00	\$ 10,160.00
COI	AP S	4106	52	RAVELING	Medium	19863.29	SqFt	99.5%	FDOT - PATCHING - AC PARTIAL DEPTH	19863.72	SqFt	\$ 3.00	\$ 59,590.00
COI	AP S	4106	52	RAVELING	High	95.69	SqFt	0.5%	FDOT - PATCHING - AC PARTIAL DEPTH	95.8	SqFt	\$ 3.00	\$ 290.00
COI	AP S	4110	43	BLOCK CR	Medium	60381.77	SqFt	97.5%	FDOT - CRACK SEALING - AC	18404.2	Ft	\$ 3.00	\$ 55,220.00
COI	AP S	4110	43	BLOCK CR	High	1548.28	SqFt	2.5%	FDOT - PATCHING - AC PARTIAL DEPTH	1547.85	SqFt	\$ 3.00	\$ 4,650.00
COI	AP S	4110	45	DEPRESSION	Low	278.68	SqFt	0.5%	FDOT - PATCHING - AC FULL DEPTH	349.83	SqFt	\$ 6.00	\$ 2,100.00
COI	AP S	4110	52	RAVELING	Medium	61930.05	SqFt	100.0%	FDOT - PATCHING - AC PARTIAL DEPTH	61930.16	SqFt	\$ 3.00	\$ 185,790.00
COI	AP S	4111	43	BLOCK CR	Medium	8189.4	SqFt	55.8%	FDOT - CRACK SEALING - AC	2496.06	Ft	\$ 3.00	\$ 7,490.00
COI	AP S	4111	45	DEPRESSION	Low	78.04	SqFt	0.5%	FDOT - PATCHING - AC FULL DEPTH	117.33	SqFt	\$ 6.00	\$ 710.00
COI	AP S	4111	48	L&TCR	Medium	259.97	Ft	1.8%	FDOT - CRACK SEALING - AC	259.84	Ft	\$ 3.00	\$ 780.00
COI	AP S	4111	52	RAVELING	Medium	14688.97	SqFt	100.0%	FDOT - PATCHING - AC PARTIAL DEPTH	14689.51	SqFt	\$ 3.00	\$ 44,070.00
COI	AP S	4115	43	BLOCK CR	Medium	86266.5	SqFt	96.4%	FDOT - CRACK SEALING - AC	26293.96	Ft	\$ 3.00	\$ 78,890.00
COI	AP S	4115	43	BLOCK CR	High	3180.41	SqFt	3.6%	FDOT - PATCHING - AC PARTIAL DEPTH	3180.74	SqFt	\$ 3.00	\$ 9,550.00

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Network ID	Branch ID	Section ID	Distress Code	Description	Severity	Distress Qty	Distress Unit	Percent Distress	Work Description	Work Qty	Work Unit	Unit Cost	Work Cost
COI	AP S	4115	52	RAVELING	Medium	89447.02	SqFt	100.0%	FDOT - PATCHING - AC PARTIAL DEPTH	89447.02	SqFt	\$ 3.00	\$ 268,350.00
COI	AP SW	4305	45	DEPRESSION	Low	257.8	SqFt	0.7%	FDOT - PATCHING - AC FULL DEPTH	326.15	SqFt	\$ 6.00	\$ 1,960.00
COI	AP SW	4310	52	RAVELING	Low	1532.14	SqFt	15.0%	FDOT - SURFACE SEAL	1531.7	SqFt	\$ 0.55	\$ 850.00
COI	RW 11-29	6105	48	L&TCR	Medium	408.33	Ft	0.2%	FDOT - CRACK SEALING - AC	408.46	Ft	\$ 3.00	\$ 1,230.00
COI	RW 11-29	6105	52	RAVELING	Low	16842.83	SqFt	6.2%	FDOT - SURFACE SEAL	16842.29	SqFt	\$ 0.55	\$ 9,270.00
COI	TW A	105	52	RAVELING	Low	4533.44	SqFt	3.6%	FDOT - SURFACE SEAL	4533.76	SqFt	\$ 0.55	\$ 2,500.00
COI	TW A1	305	45	DEPRESSION	Low	49.51	SqFt	0.5%	FDOT - PATCHING - AC FULL DEPTH	81.81	SqFt	\$ 6.00	\$ 500.00
COI	TW A1	305	52	RAVELING	Low	536.58	SqFt	5.0%	FDOT - SURFACE SEAL	536.04	SqFt	\$ 0.55	\$ 300.00
COI	TW A2	405	52	RAVELING	Low	40.04	SqFt	0.9%	FDOT - SURFACE SEAL	39.83	SqFt	\$ 0.55	\$ 30.00
COI	TW A3	505	52	RAVELING	Low	226.04	SqFt	5.0%	FDOT - SURFACE SEAL	226.04	SqFt	\$ 0.55	\$ 130.00
COI	TW A5	110	45	DEPRESSION	Low	198.59	SqFt	2.2%	FDOT - PATCHING - AC FULL DEPTH	259.41	SqFt	\$ 6.00	\$ 1,560.00
COI	TW A5	110	52	RAVELING	Low	451.33	SqFt	5.0%	FDOT - SURFACE SEAL	451.01	SqFt	\$ 0.55	\$ 250.00
COI	TW B	205	52	RAVELING	Low	12686.24	SqFt	99.5%	FDOT - SURFACE SEAL	12686.34	SqFt	\$ 0.55	\$ 6,980.00
COI	TW B	205	52	RAVELING	Medium	63.72	SqFt	0.5%	FDOT - PATCHING - AC PARTIAL DEPTH	63.51	SqFt	\$ 3.00	\$ 200.00
COI	TW B	210	52	RAVELING	Low	3151.89	SqFt	5.5%	FDOT - SURFACE SEAL	3151.67	SqFt	\$ 0.55	\$ 1,740.00
COI	TW B	210	52	RAVELING	Medium	392.56	SqFt	0.7%	FDOT - PATCHING - AC PARTIAL DEPTH	392.88	SqFt	\$ 3.00	\$ 1,180.00
COI	TW B1	315	45	DEPRESSION	Low	24.97	SqFt	0.6%	FDOT - PATCHING - AC FULL DEPTH	49.51	SqFt	\$ 6.00	\$ 300.00
COI	TW B1	315	52	RAVELING	Low	202.04	SqFt	5.0%	FDOT - SURFACE SEAL	202.36	SqFt	\$ 0.55	\$ 120.00
COI	TW B1	315	52	RAVELING	Medium	6.03	SqFt	0.2%	FDOT - PATCHING - AC PARTIAL DEPTH	6.46	SqFt	\$ 3.00	\$ 20.00
COI	TW B2	410	52	RAVELING	Low	429.05	SqFt	10.0%	FDOT - SURFACE SEAL	429.48	SqFt	\$ 0.55	\$ 240.00
COI	TW B2	410	52	RAVELING	Medium	11.95	SqFt	0.3%	FDOT - PATCHING - AC PARTIAL DEPTH	11.84	SqFt	\$ 3.00	\$ 40.00
COI	TW B4	216	48	L&TCR	Medium	29.92	Ft	0.6%	FDOT - CRACK SEALING - AC	29.86	Ft	\$ 3.00	\$ 90.00
COI	TW B4	216	52	RAVELING	Low	494.92	SqFt	9.1%	FDOT - SURFACE SEAL	495.14	SqFt	\$ 0.55	\$ 280.00
COI	TW B4	216	52	RAVELING	Medium	19.91	SqFt	0.4%	FDOT - PATCHING - AC PARTIAL DEPTH	20.45	SqFt	\$ 3.00	\$ 60.00





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

Program Year	Network ID	Branch ID	Section ID	Surface	Area (SF)	PCI Before	Rehabilitation Type	Planning Cost
2018	COI	AP N	4203	PCC	2,202	45	PCC Restoration	\$ 28,000.00
2018	COI	AP N	4205	AAC	24,860	20	AC Reconstruction	\$ 224,000.00
2018	COI	AP N	4215	AAC	139,109	58	AC Restoration	\$ 974,000.00
2018	COI	AP N	4218	AAC	48,875	64	AC Restoration	\$ 343,000.00
2018	COI	AP N	4225	AAC	26,238	64	AC Restoration	\$ 184,000.00
2018	COI	AP N	4230	AAC	42,203	61	AC Restoration	\$ 296,000.00
2018	COI	AP S	4105	AAC	97,600	14	AC Reconstruction	\$ 879,000.00
2018	COI	AP S	4106	AAC	19,959	14	AC Reconstruction	\$ 180,000.00
2018	COI	AP S	4110	AAC	61,930	15	AC Reconstruction	\$ 558,000.00
2018	COI	AP S	4111	AAC	14,689	19	AC Reconstruction	\$ 133,000.00
2018	COI	AP S	4115	AAC	89,447	17	AC Reconstruction	\$ 806,000.00
2018	COI	TW A1	305	AAC	10,739	54	AC Restoration	\$ 76,000.00
2018	COI	TW A5	110	AAC	9,043	59	AC Restoration	\$ 64,000.00
2018	COI	TW B	205	AAC	12,750	62	AC Restoration	\$ 90,000.00
2018	COI	TW B	210	AAC	57,150	62	AC Restoration	\$ 401,000.00
2018	COI	TW B1	315	AAC	4,046	58	AC Restoration	\$ 29,000.00
2018	COI	TW B4	216	AAC	5,450	63	AC Restoration	\$ 39,000.00
2019	COI	RW 11-29	6105	AAC	270,225	64	AC Restoration	\$ 1,892,000.00
2020	COI	TW A3	505	AAC	4,513	64	AC Restoration	\$ 32,000.00
2020	COI	TW B2	410	AAC	4,298	64	AC Restoration	\$ 31,000.00
2022	COI	AP N	4220	AAC	33,609	62	AC Restoration	\$ 236,000.00
2023	COI	TW A	105	AAC	125,133	64	AC Restoration	\$ 876,000.00
2024	COI	AP RU RW29	5105	AAC	14,226	64	AC Restoration	\$ 100,000.00
2025	COI	AP N	4202	PCC	3,023	64	PCC Restoration	\$ 31,000.00
2025	COI	AP SW	4310	AC	10,214	64	AC Restoration	\$ 72,000.00
2026	COI	TW A2	405	AAC	4,513	64	AC Restoration	\$ 32,000.00

Statewide Airfield Pavement Management Program Airport Pavement Evaluation Report

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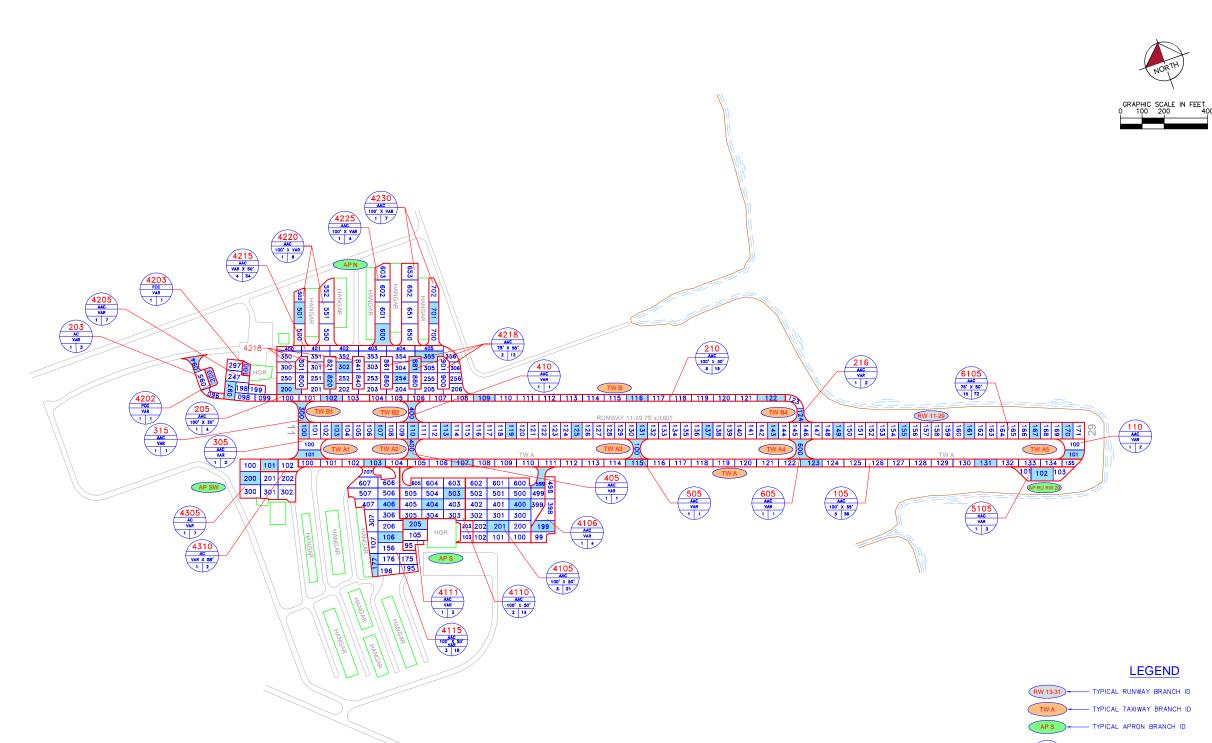


Program Year	Network ID	Branch ID	Section ID	Surface	Area (SF)	PCI Before	Rehabilitation Type	Planning Cost
2026	COI	TW A4	605	AAC	5,387	63	AC Restoration	\$ 38,000.00



Appendix C

Technical Exhibits



SECTION NUMBER

PAVEMENT TYPE

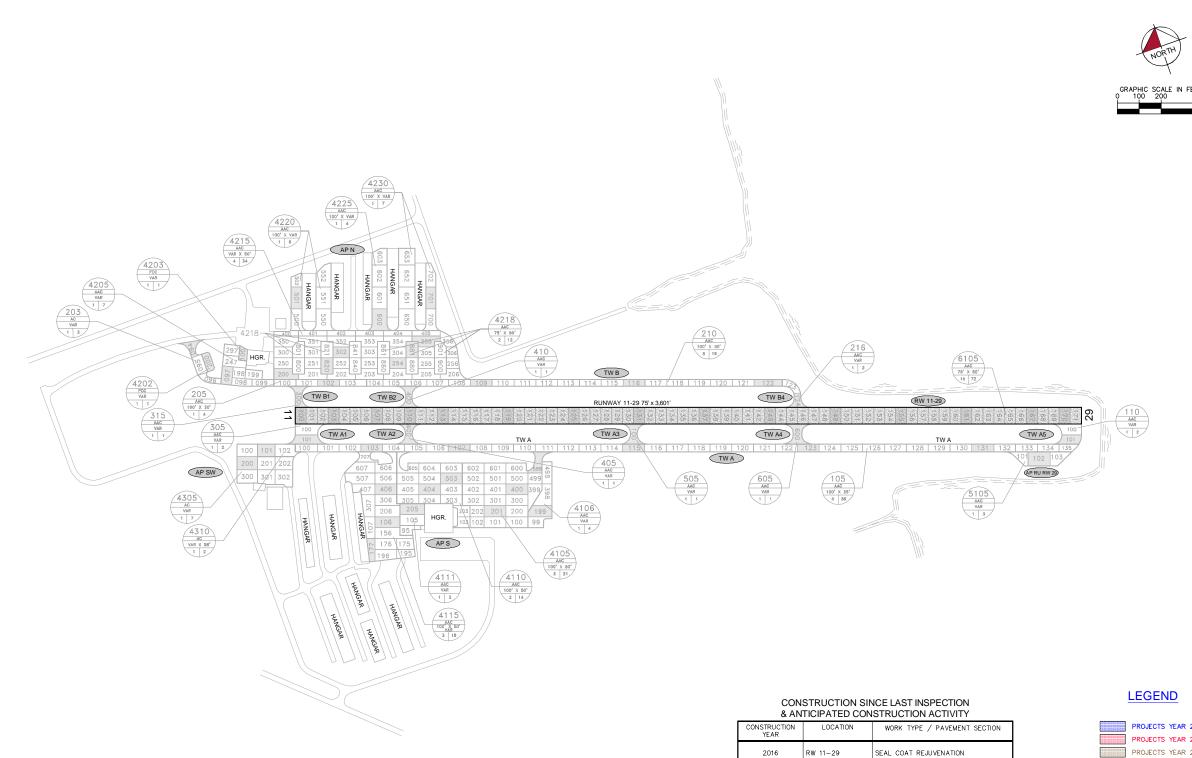
TYPICAL SAMPLE UNIT INFORMATION
FLEXIBLE (AC) PAVEMENT LENGTH & WIDTH
RIGID (PCC) PAVEMENT NO. OF SLABS AND SLAB SIZE

- NUMBER OF SAMPLE UNITS IN SECTION - NUMBER OF SAMPLE UNITS TO BE INSPECTED

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

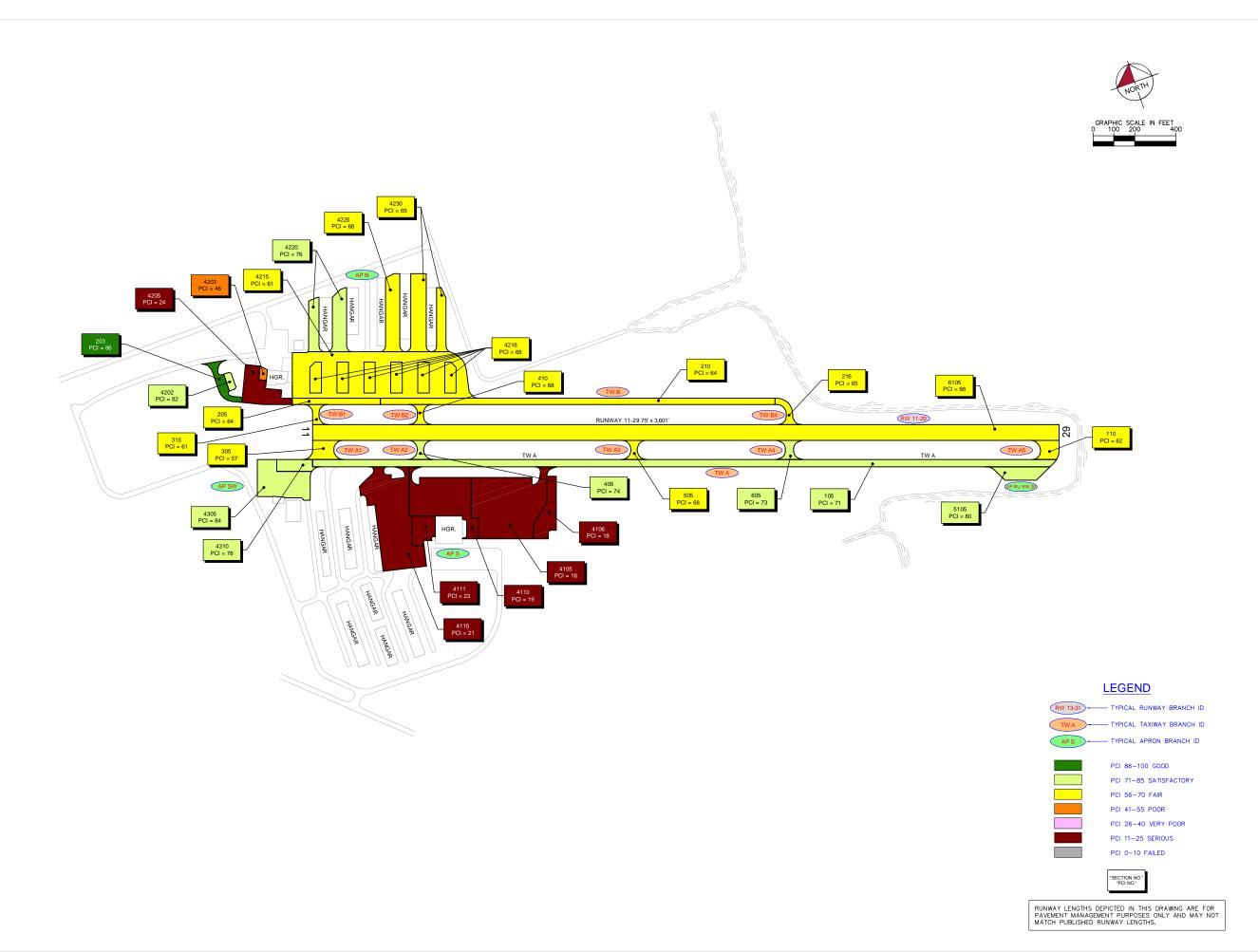
TOTAL SAMPLES INSPECTED = 58 AC:56 PCC: 2

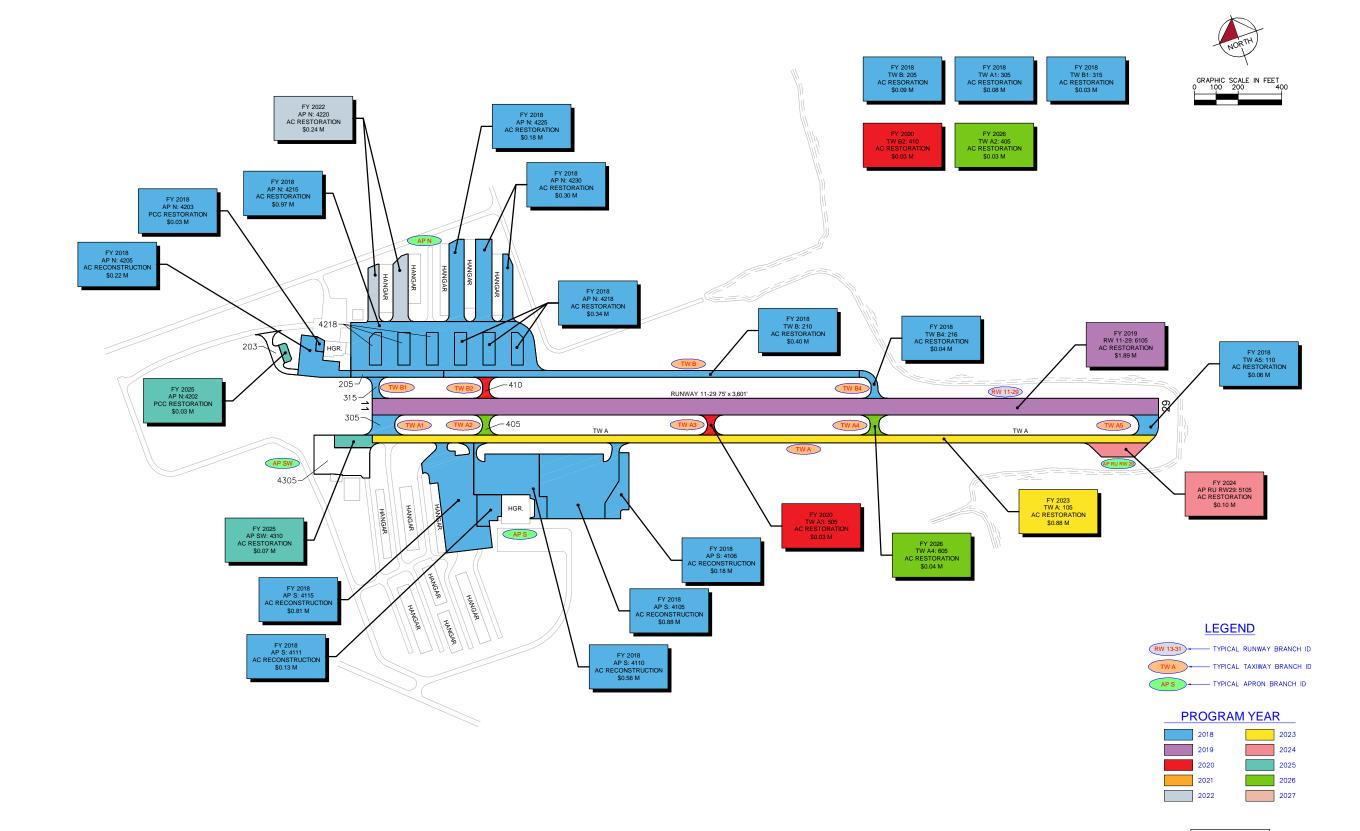
RUNWAY LENGTHS DEPICTED IN THIS DRAWING ARE FOR PAVEMENT MANAGEMENT PURPOSES ONLY AND MAY NOT MATCH PUBLISHED RUNWAY LENGTHS.



	PROJECTS	YEAR	2013
***************************************	PROJECTS	YEAR	2014
	PROJECTS	YEAR	2015
7.000 A 200	PROJECTS	YEAR	2016
	PROJECTS	YEAR	2017
	PROJECTS	YEAR	2018
	PROJECTS	YEAR	2019
	PROJECTS	YEAR	2020
	PROJECTS	YEAR	2021
	PROJECTS	YEAR	2022

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





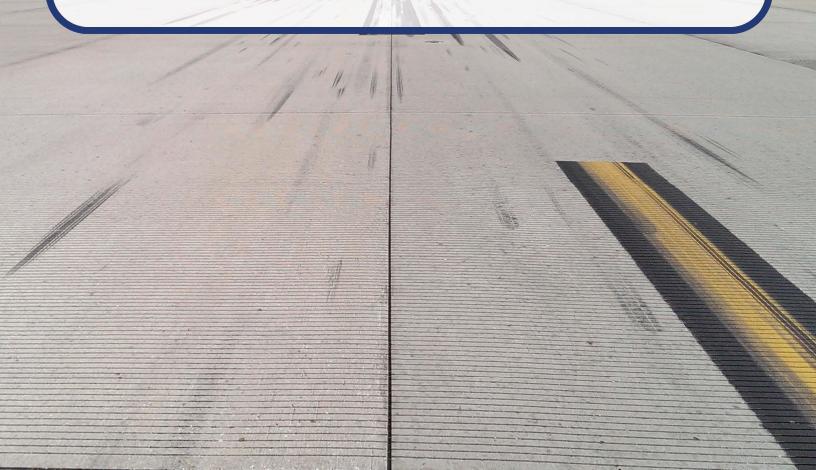
RUNWAY LENGTHS DEPICTED IN THIS DRAWING ARE FOR PAVEMENT MANAGEMENT PURPOSES ONLY AND MAY NOT MATCH PUBLISHED RUNWAY LENGTHS.

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



Appendix D

Inspection Photograph Documentation









Apron N, Section 4203, Sample Unit 100 - Low Severity (63) Longitudinal, Transverse, and Diagonal Cracking, (73) Shrinkage Cracks, High Severity (65) Joint Seal Damage



Apron N, Section 4215, Sample Unit 221 - Low Severity (45) Depression, Low Severity (48) Longitudinal and Transverse Cracking, Low Severity (52) Raveling







Apron N, Section 4220, Sample Unit 501 - (49) Oil Spillage, (73) Shrinkage Cracks, Low Severity (52) Raveling, Low Severity (57) Weathering



Apron RU RW29, Section 5105, Sample Unit 102 - Low Severity (48) Longitudinal and Transverse Cracking, Low Severity (57) Weathering





Apron S, Section 4105, Sample Unit 599 – Medium Severity (43) Block Cracking, Low Severity (45) Depression, Low Severity (52) Raveling



Apron S, Section 4111, Sample Unit 205 – Medium Severity (43) Block Cracking, Low Severity (45) Depression







Apron SW, Section 4310, Sample Unit 101 - Low Severity (48) Longitudinal and Transverse Cracking, Low Severity (52) Raveling, Low Severity (57) Weathering



Apron SW, Section 4305, Sample Unit 200 - Low Severity (48) Longitudinal and Transverse Cracking, Low Severity (57) Weathering







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



Runway 11-29, Section 6105, Sample Unit 137 – Low Severity (48) Longitudinal and Transverse Cracking, Low Severity (57) Weathering







Runway 11-29, Section 6105, Sample Unit 149 - Low Severity (52) Raveling



Taxiway A, Section 105, Sample Unit 131 – Low Severity (48) Longitudinal and Transverse Cracking, Low Severity (57) Weathering

Airport Pavement







Taxiway A, Section 105, Sample Unit 103 – Low Severity (48) Longitudinal and Transverse Cracking, Low Severity (57) Weathering

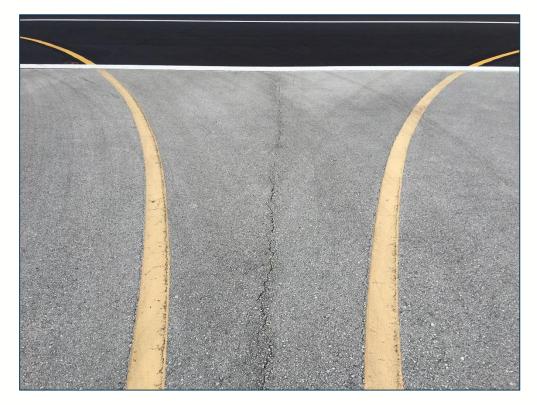


Taxiway A1, Section 305, Sample Unit 101 – Low Severity (48) Longitudinal and Transverse Cracking, Low Severity (57) Weathering



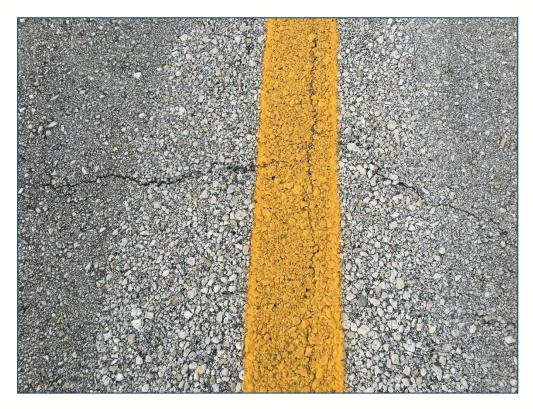


Taxiway A2, Section 405, Sample Unit 400 – Low Severity (48) Longitudinal and Transverse Cracking, Low Severity (57) Weathering



Taxiway A3, Section 505, Sample Unit 100 - Low Severity (48) Longitudinal and Transverse Cracking, Low Severity (57) Weathering, and Low Severity (52) Raveling





Taxiway A4, Section 605, Sample Unit 600 – Low Severity (48) Longitudinal and Transverse Cracking, Low Severity (57) Weathering



Taxiway A5, Section 110, Sample Unit 101 – Low Severity (48) Longitudinal and Transverse Cracking, Low Severity (57) Weathering, and Low Severity (52) Raveling







Taxiway B, Section 210, Sample Unit 109 - Low Severity (48) Longitudinal and Transverse Cracking, Low Severity (52) Raveling



Taxiway B, Section 210, Sample Unit 116 – Low Severity (56) Swelling, Medium Severity (52) Raveling.





Taxiway B1, Section 315, Sample Unit 300 - Low Severity (48) Longitudinal and Transverse Cracking, Low Severity (52) Raveling



Taxiway B2, Section 410, Sample Unit 400 - Low Severity (48) Longitudinal and Transverse Cracking, Low Severity (52) Raveling





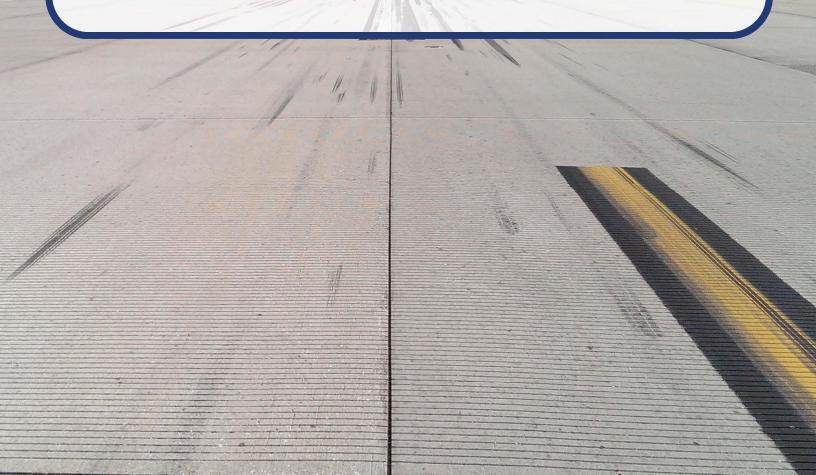


Taxiway B4, Section 216, Sample Unit 124 – Medium Severity (48) Longitudinal and Transverse Cracking, Low Severity (52) Raveling



Appendix E

Inspection Distress Details



Re-Inspection Report

FDOT

73

63

SHRINKAGE CR

LINEAR CR

N L

2.00 Slabs

1.00 Slabs

Page 1 of 30 7/10/2017

Generated	l Date		7/10/2017					rage rors
Network:	COI			Name	e: MERRITT ISLA	ND		
Branch:	AP N		Name:	NORTH APRO	ON Use:	APRON	Area:	320,119 SqFt
Section:	4202	0	of 8	From: -		То: -		Last Const.: 1/1/2011
Surface:	PCC	Family:	C9N59-GA-	AP-PCC Zone:	:	Category:		Rank: P
Area:		3,023 SqFt	Length	100 Ft	Width:	30 Ft		
Slabs:	21	Slab Lei	ngth:	12 Ft	Slab Width:	12 Ft	Joint L	ength: 370 Ft
Shoulder:		Street T	ype:	•	Grade: 0		Lanes:	0
Section Co	omments:							
Work Date	e: 1/1/2011	W	ork Type: Ne	w Construction - Initia	d C	ode: NU-IN	Is I	Major M&R: True
_	Date: 9/13		Tota	lSamples: 1	Surveye	e d: 1		
Conditions Inspection	s: PCI: Comments							
Sample Nu	umber: 20	0 Ty]	pe: R	Area:	21.00 Slabs	PCI:	82	
Sample Co	omments:							
65 JT S	SEAL DMG	ł	Н	21.00 Slabs				

Networ	k: COI				Name:	MEI	RRITT ISLA	ND				
Branch	: AP N		Name:	NORT	H APRON	ſ	Use:	APRON		Area:	320,	,119 SqFt
Section	: 4203	O	f 8	From:	-			To:	-		I	Last Const.: 1/1/1990
Surface	: PCC	Family:	C9N59-GA	-AP-PCC	Zone:			Categ	gory:		I	Rank: P
Area:		2,202 SqFt	Lengt	h:	50 Ft		Width:		40 Ft			
Slabs:	18	Slab Len	gth:	10 Ft	SI	ab Width:		12 Ft		Joint Len	gth:	277 Ft
Should	er:	Street Ty	pe:		G	rade: 0				Lanes:	0	
Section	Comments:											
Work I	Date: 1/1/1990	W	ork Type: Bl	JILT			C	ode: IMP	ORTED	Is Ma	jor M&	R: True
Last In	sp. Date: 9/13	3/2016	Tota	alSamples:	1		Surveye	d: 1				
Conditi	ions: PCI:											
	ons. I CI.	46										
Inspect	ion Comments:											
		•	oe: R	A	area:	15	.00 Slabs		PCI: 46			
Sample	ion Comments:	•	oe: R		rea:	15	.00 Slabs		PCI: 46			
Sample Sample	Number: 100 Comments:	: О Тур				15	.00 Slabs	:	PCI: 46			
Sample Sample	ion Comments: Number: 100	: О Тур	ne: R H L	15.00 9.00	Area: Slabs Slabs	15	.00 Slabs	:	PCI: 46			
Sample Sample 65 63	Number: 100 Comments: JT SEAL DMG	: О Тур	Н	15.00	Slabs	15	.00 Slabs	:	PCI: 46			
Sample 65 63 173 8	ion Comments: Number: 100 Comments: JT SEAL DMG LINEAR CR	: 0 Ty j	H L	15.00 9.00	Slabs Slabs	15	.00 Slabs	:	PCI: 46			
Sample 65	ion Comments: Number: 100 Comments: JT SEAL DMG LINEAR CR SHRINKAGE C	: O Typ CR LL	H L N	15.00 9.00 15.00	Slabs Slabs Slabs	15	.00 Slabs	:	PCI: 46			
Sample 65 63 73 75 75	ion Comments: Number: 100 Comments: JT SEAL DMG LINEAR CR SHRINKAGE C CORNER SPAI	: O Typ CR LL	H L N L	15.00 9.00 15.00 1.00	Slabs Slabs Slabs Slabs	15	.00 Slabs		PCI: 46			

Network:	COI				Nai	ne: ME	ERRITT ISLA	.ND				
Branch:	AP N		Na	me: N	ORTH APP	RON	Use:	AP	PRON	Area:	320,119 SqF	't
Section:	4205		of 8	From:	-				То: -		Last Con	nst.: 1/1/2005
Surface:	AAC	Family:	C9N59 APC	-GA-AP-AAC	C- Zoi	ne:			Category:		Rank: I	•
Area:		24,860 SqFt	L	ength:	120	Ft	Width:		200 Ft			
Slabs:		Slab Le	ength:		Ft	Slab Width:			Ft	Joint Leng	th:	Ft
Shoulder:		Street	Гуре:			Grade: 0)			Lanes:	0	
Section Co	omments:											
Work Dat	e: 1/1/198	0 1	Vork Type	e: BUILT			C	ode:	IMPORTED	Is Maj	or M&R: True	e
Work Dat	e: 1/1/199	0 1	Vork Type	e: REPAIR			C	ode:	IMPORTED	Is Maj	or M&R: Fals	se
Work Dat	e: 1/1/200	5 V	Vork Type	e: MILL and	OVERLAY		C	ode:	ML-OV	Is Maj	or M&R: True	e
Last Insp.	Date: 9/2	13/2016		TotalSample	s: 7		Surveye	e d: 1	[
Condition	s: PCI:	24										
Inspection	Comment	ts:										
Sample Nu	umber: 0	97 T	pe:	R	Area:	420	0.00 SqFt		PCI: 24			
Sample Co	omments:											
43 BL	OCK CR		M	420	0.00 SqFt							

Netw	vork: COI			Nam		RITT ISLAN	ND .					
Bran	nch: AP N		Name:	NORTH APR	ON	Use:	APRO	N	Area:	3	20,119 SqFt	
Secti	on: 4215	of 8		From: -			To:	-			Last Const	.: 1/1/200
Surfa	ace: AAC	Family: C9		AP-AAC- Zone	e:		Cat	egory:			Rank: P	
Area	139,	109 SqFt	Length	1,000 F	t V	Vidth:		139 Ft				
Slabs	s:	Slab Length:		Ft	Slab Width:		Ft		Jo	oint Length:		Ft
Shou	ılder:	Street Type:			Grade: 0				L	anes: 0		
Secti	on Comments:											
Worl	k Date: 1/1/1965	Work	Type: OV	VERLAY		Co	de: IM	PORTED		Is Major I	M&R: True	
Worl	k Date: 1/1/1965	Work	Type: OV	/ERLAY		Со	de: IM	PORTED		Is Major l	M&R: True	
Worl	k Date: 1/1/1990	Work	Type: BU	JILT		Co	de: IM	PORTED		Is Major l	M&R: True	
Worl	k Date: 1/1/2005	Work	Type: Mi	ill & Overlay		Со	de: Ml	&OV		Is Major I	M&R: True	
Last	Insp. Date: 9/13/20	16	Tota	lSamples: 34		Surveyed	l: 4					
Cond	ditions: PCI: 61											
Inspe	ection Comments:											
Samp	ple Number: 200	Type:	R	Area:	4938.0	0 SqFt		PCI: 56				
Samp	ple Comments:											
48	L & T CR		L	560.00 Ft								
45	DEPRESSION		L	60.00 SqFt								
52	RAVELING		M	21.00 SqFt								
50	PATCHING		L	234.00 SqFt								
52 Sami	RAVELING ple Number: 254	Type:	L R	100.00 SqFt Area:	3750.0	0 SqFt		PCI: 72				
	ple Comments:	Type.	K	Alta.	3730.0	o sqrt		101. 72				
	L & T CR		ī	240.00 Ft								
48 52	RAVELING		L L	240.00 Ft 375.00 SqFt								
57	WEATHERING		L	3375.00 SqFt								
Samı	ple Number: 302	Type:	R	Area:	3750.0	0 SqFt		PCI: 65				
Samp	ple Comments:											
48	L & T CR		L	385.00 Ft								
56	SWELLING		L	16.00 SqFt								
52	RAVELING		L	100.00 SqFt								
57	WEATHERING		L	3650.00 SqFt								
	ple Number: 355	Type:	R	Area:	5125.0	0 SqFt		PCI: 54				
Samp	ple Comments:											
50	PATCHING		L	9.00 SqFt								
48	L & T CR		L	750.00 Ft								
45	DEPRESSION		L	40.00 SqFt								
52	RAVELING		L	513.00 SqFt								
57	WEATHERING		L	4603.00 SqFt								

Network:	COI					Nam	ne: ME	RRITT ISLA	AND							
Branch:	AP N		Na	me:	NORT	H APRO	ON	Use:	APR	ON		Area:		320	,119 SqF	't
Section: 4	4218	of	8	Fre	om: -	-			Т	o: -]	Last Con	st.: 1/1/20
Surface: A	AAC	Family:	C9N59 APC	-GA-AP-A	AAC-	Zone	e:		C	ategory:]	Rank: I	•
Area:	48,8	375 SqFt	L	ength:		480 F	t	Width:		100 F	t					
Slabs:		Slab Leng	gth:		Ft		Slab Width:		F	t		Joint	Lengt	th:		Ft
Shoulder:		Street Ty	pe:				Grade: 0					Lane	es:	0		
Section Con	nments:															
Work Date:	: 1/1/1965	Wo	rk Typ	e: New Co	onstructio	n - Initi	al	C	Code: 1	NU-IN		I	s Majo	or M&	&R: True	e
Work Date:	: 1/1/2005	Wo	rk Typ	e: Mill and	d Overlay	7		C	Code: 1	ML-OL		l	s Majo	or M&	&R: Tru	e
Last Insp. D	Date: 9/13/201	16		TotalSan	ples:	12		Survey	ed: 2							
Last Insp. D				TotalSan	iples:	12		Survey	ed: 2							
-	PCI: 68			TotalSan	iples:	12		Survey	red: 2							
Conditions:	PCI: 68			TotalSan		12 rea:	412	Survey	ed: 2	PCI:	60					
Conditions:	PCI: 68 Comments: mber: 820						412		ed: 2	PCI:	60					
Conditions: Inspection (Sample Num Sample Com	PCI: 68 Comments: mber: 820					rea:	412		ed: 2	PCI:	60					
Conditions: Inspection C Sample Num Sample Con	PCI: 68 Comments: mber: 820 mments:		e:		A	rea:	412		ed: 2	PCI:	60					
Conditions: Inspection C Sample Num Sample Com 48 L& 4 48 L& 4	PCI: 68 Comments: mber: 820 mments: T CR		e: M		52.00 466.00	rea: Ft Ft	412		ed: 2	PCI:	60					
Conditions: Inspection C Sample Num Sample Con 48 L & ' 48 L & ' 50 PATO	PCI: 68 Comments: mber: 820 mments: T CR T CR		e: M L	R	A 52.00	Ft Ft SqFt	412		ed: 2	PCI:	60					
Conditions: Inspection C Sample Num Sample Con 48 L&7 48 L&7 50 PATO	PCI: 68 Comments: mber: 820 mments: T CR T CR T CR CHING		e: M L L L	R	52.00 466.00 62.00 4063.00	Ft Ft SqFt			ed: 2	PCI:						
Conditions: Inspection C Sample Num Sample Con 48 L&' 48 L&' 50 PATO 57 WEA	PCI: 68 Comments: mber: 820 mments: T CR T CR T CR T CHING ATHERING mber: 881	Тур	e: M L L L	R	52.00 466.00 62.00 4063.00	Ft Ft SqFt SqFt		5.00 SqFt	ed: 2							
Conditions: Inspection C Sample Num Sample Com 48 L & 7 48 L & 7 50 PATC 57 WEA Sample Num Sample Com	PCI: 68 Comments: mber: 820 mments: T CR T CR T CR T CHING ATHERING mber: 881	Тур	e: M L L L	R	52.00 466.00 62.00 4063.00	Ft Ft SqFt SqFt		5.00 SqFt	ed: 2							

Network:	COI				Name:	MERRI	T ISLAN)			
Branch:	AP N		Name	NORT	'H APRON		Use:	APRON	Area:	320,119	SqFt
Section:	4220	0	f 8	From:	-			То: -		Last	Const.: 1/1/2005
Surface:	AAC	Family:	C9N59-GA APC	-AP-AAC-	Zone:			Category:		Rank	: P
Area:	3	3,609 SqFt	Leng	th:	336 Ft	Wi	dth:	100 Ft			
Slabs:		Slab Lei	ngth:	Ft	Slab	Width:		Ft	Joint Le	ngth:	Ft
Shoulder:	:	Street T	ype:		Grad	e: 0			Lanes:	0	
Section C	omments:										
Work Da	te: 1/1/1974	W	ork Type: C	VERLAY			Cod	e: IMPORTED	Is M	lajor M&R:	True
Work Da	te: 1/1/1974	w	ork Type: B	UILT			Cod	e: IMPORTED	Is M	Iajor M&R:	True
Work Da	te: 1/1/1974	W	ork Type: C	VERLAY			Cod	e: IMPORTED	Is M	lajor M&R:	True
Work Da	te: 1/1/1990	W	ork Type: R	EPAIR			Cod	e: IMPORTED	Is M	Iajor M&R:	False
Work Da	te: 1/1/2005	W	ork Type: M	IILL and OVE	RLAY		Cod	e: ML-OV	Is M	lajor M&R:	True
Last Insp	. Date: 9/13/	2016	Tot	alSamples:	6		Surveyed:	1			
Condition	ns: PCI:	76									
Inspection	n Comments:										
Sample N	umber: 501	Tyj	pe: R	A	Area:	5000.00	SqFt	PCI: 7	' 6		
Sample C	comments:										
48 L	& T CR		L	174.00	Ft						
	L SPILLAGE		N		SqFt						
52 RA	AVELING		L	500.00	-						
57 W.	EATHERING		L	4500.00	-						

Network:	COI				Nan	ne: ME	RRITT ISL	AND				
Branch:	AP N		Name:	NOR	TH APR	ON	Use:	AF	PRON	Area:	320,119 SqFt	
Section:	4225	C	of 8	From:	-				То: -		Last Const.: 1/1	/2005
Surface:	AAC	Family:	C9N59-GA-A APC	P-AAC-	Zon	e:			Category:		Rank: P	
Area:		26,238 SqFt	Length:		340 F	² t	Width:		75 Ft			
Slabs:		Slab Lei	ngth:	Ft		Slab Width:			Ft	Joint Lengtl	h: Ft	
Shoulder:		Street T	ype:			Grade: 0				Lanes: ()	
Section Co	omments:											
Work Dat	e: 1/1/197	5 W	ork Type: OV	ERLAY			(Code:	IMPORTED	Is Majo	r M&R: True	
Work Dat	e: 1/1/197	5 W	ork Type: BU	LT			(Code:	IMPORTED	Is Majo	r M&R: True	
Work Dat	e: 1/1/1990	0 W	ork Type: REI	PAIR			•	Code:	IMPORTED	Is Majo	r M&R: False	
Work Dat	e: 1/1/2005	5 W	ork Type: MII	L and OVE	ERLAY		•	Code:	ML-OV	Is Majo	r M&R: True	
Last Insp.	Date: 9/1	13/2016	Totals	Samples:	4		Survey	ed:	1			
Condition	s: PCI:	68										
Inspection	Comment	s:										
Sample Nu	umber: 6	00 Ty	pe: R		Area:	726	8.00 SqFt		PCI: 68			
Sample Co	omments:											
50 PA	TCHING		L	108.00	SqFt							
48 L &	& T CR		L	450.00	Ft							

100.00 SqFt 7160.00 SqFt

L L

45 57 DEPRESSION

WEATHERING

Network:	COI					Nar	ne: N	IERRITT IS	LAND				
Branch:	AP N		N	lame:	NORT	TH APR	ON	Use	: Al	PRON	Area:	320,119 SqFt	
Section:	4230		of 8	Fr	om:	-				То: -		Last Con	st.: 1/1/2005
Surface:	AAC	Family:	C9N5 APC	9-GA-AP-	AAC-	Zon	e:			Category:		Rank: P	
Area:		42,203 SqFt		Length:		200 I	₹t	Width:		200 Ft			
Slabs:		Slab Le	ength:		Ft		Slab Widt	h:		Ft	Joint Length	ı:	Ft
Shoulder:		Street	Гуре:				Grade:	0			Lanes: 0)	
Section Co	mments:												
Work Date	: 1/1/1980) V	Vork Ty	pe: OVER	LAY				Code:	IMPORTED	Is Major	r M&R: True	
Work Date	: 1/1/1980) V	Vork Ty	pe: OVER	LAY				Code:	IMPORTED	Is Major	r M&R: True	
Work Date	: 1/1/1990) V	Vork Ty	pe: BUILT	,				Code:	IMPORTED	Is Major	r M&R: True	
Work Date	: 1/1/2005	5 V	Vork Ty	pe: Mill &	Overlay				Code:	MI&OV	Is Major	r M&R: True	
Last Insp. l	Date: 9/1	3/2016		TotalSar	nples:	7		Surve	eyed:	1			
Conditions	: PCI:	65											
Inspection	Comments	s:											
Sample Nu	mber: 70)1 T y	pe:	R		Area:	4:	500.00 SqFt		PCI: 65			
Sample Co	mments:	•	=					•					
49 OIL	SPILLAG	Е	N		18.00	SqFt							
	VELING		L		200.00	_							
48 L &	T CR		L		394.00	-							
57 WE.	ATHERIN	G	L		4300.00	SqFt							

Networl	c: COI				Name:	MER	RITT ISLA	.ND			
Branch:	AP RU	I RW29	Name:	RUN-U	JP APRO	N AT RW 29	Use:	APRON	Area:	14,226 S	SqFt
Section:	5105	0	f 1	From: -				То: -		Last C	Const.: 1/1/2002
Surface	: AAC	Family:	C9N59-GA-A APC	P-AAC-	Zone:			Category	7 :	Rank:	: P
Area:		14,226 SqFt	Length:		280 Ft		Width:	50	Ft		
Slabs:		Slab Ler	ngth:	Ft	SI	ab Width:		Ft	Joint L	ength:	Ft
Shoulde	r:	Street T	ype:		G	rade: 0			Lanes:	0	
Section	Comments:										
Work Date: 1/1/1996 Work Type: OVERLAY							C	ode: IMPOR	TED Is N	Major M&R: T	True
Work Date: 1/1/1996 Work Type: BUILT						C	ode: IMPOR	TED Is N	Major M&R: T	True	
Work D	ate: 1/1/200	2 W	ork Type: MIL	L and OVE	RLAY		C	dode: ML-OV	Is N	Major M&R: 7	Γrue
Last Ins	p. Date: 9/	13/2016	TotalS	amples:	3		Surveye	ed: 1			
Conditio	ons: PCI:	80									
Inspecti	on Comment	s:									
Sample	Number: 1	02 Ty]	pe: R	A	rea:	6500	.00 SqFt	PCI	[: 80		
Sample	Comments:		-				-				
48 L	& T CR		L	195.00	Ft						
52 F	RAVELING		L	650.00	SqFt						
57 V	VEATHERIN	IG	L	5850.00	SaFt						

Netw	ork: COI				No	me: ME	RRITT ISL	ΔND					
			NT-	COLU					DOM	A	20	92 COE C E	
Bran					TH APF	CON	Use	Al	PRON	Area:		83,625 SqFt	
Section			f 5	From:	-				To: -			Last Const.:	1/1/1996
Surfa	ace: AAC	Family:	C9N59 APC	-GA-AP-AAC-	Zo	ne:			Category:			Rank: P	
Area	:	97,600 SqFt	L	ength:	450	Ft	Width:		200 Ft				
Slabs	:	Slab Len	igth:	Ft		Slab Width:			Ft	Joint	Length:	Ft	
Shoul	lder:	Street Ty	ype:			Grade: 0				Lane	es: 0		
Section	on Comments:												
Work	Date: 1/1/1978	W	ork Typ	e: OVERLAY				Code:	IMPORTED	I	s Major N	1&R: True	
Work	Cate: 1/1/1996	W	ork Typ	e: BUILT				Code:	IMPORTED	I	s Major N	1&R: True	
Last	Insp. Date: 9/1	3/2016		TotalSamples:	21		Surve	yed:	3				
Cond	litions: PCI:	18											
Inspe	ection Comments	:											
Samp	ole Number: 20	1 Ty	pe:	R	Area:	5000	0.00 SqFt		PCI: 11				
Samp	ole Comments:												
49	OIL SPILLAG	E	N	157.00	SqFt								
43	BLOCK CR		Н	500.00	SqFt								
43	BLOCK CR		M	4500.00									
52	RAVELING		M	5000.00	SqFt								
Samp	ole Number: 40	00 Ty I	pe:	R	Area:	5000	0.00 SqFt		PCI: 11				
Samp	ole Comments:												
43	BLOCK CR		Н	500.00	SqFt								
43	BLOCK CR		M	4500.00	SqFt								
52	RAVELING		M	5000.00	-								
49	OIL SPILLAG	E	N	80.00	SqFt								
Samp	ole Number: 59	9 Ty	pe:	R	Area:	4459	9.00 SqFt		PCI: 33				
Samp	ole Comments:												
43	BLOCK CR		M	2240.00	SqFt								
52	RAVELING		M	2240.00	SqFt								
45	DEPRESSION		L	66.00	SqFt								
48	L & T CR		L	26.00	Ft								
52	RAVELING		L	888.00	SaFt								

MERRITT ISLAND COI Network: Name: **Branch:** AP S Name: SOUTH APRON Use: APRON Area: 283,625 SqFt Section: 4106 of 5 From: To: -**Last Const.:** 1/1/1996 Surface: AAC Family: C9N59-GA-AP-AAC-Zone: Category: Rank: P APC 19,959 SqFt Length: Width: 200 Ft Area: 100 Ft Slabs: Slab Length: Ft Slab Width: Ft Joint Length: Ft Shoulder: **Street Type:** Grade: 0 Lanes: 0 **Section Comments:** Code: IMPORTED Work Date: 1/1/1996 Work Type: BUILT Is Major M&R: True **Last Insp. Date:** 9/13/2016 **TotalSamples:** 4 Surveyed: 1 **PCI:** 18 **Conditions: Inspection Comments:** Type: R Area: 5213.00 SqFt **PCI:** 18 RAVELING Η 25.00 SqFt

Network: COI			Nam	e: MERRITT ISLA	AND		
Branch: AP S		Name:	SOUTH APRO	N Use:	APRON	Area:	283,625 SqFt
Section: 4110	0	f 5	From: -		То: -		Last Const.: 1/1/1996
Surface: AAC	Family:	C9N59-GA- APC	AP-AAC- Zone	:	Category:		Rank: P
Area:	61,930 SqFt	Lengtl	h: 310 Ft	Width:	200 Ft		
Slabs:	Slab Len	ngth:	Ft	Slab Width:	Ft	Joint Lengt	th: Ft
Shoulder:	Street Ty	ype:		Grade: 0		Lanes:	0
Section Comments:							
Work Date: 1/1/1978	8 W	ork Type: O	VERLAY	(Code: IMPORTED	Is Majo	or M&R: True
Work Date: 1/1/1996	5 W	ork Type: BU	JILT	(Code: IMPORTED	Is Majo	or M&R: True
Last Insp. Date: 9/1	13/2016	Tota	alSamples: 14	Survey	ed: 2		
Last Insp. Date: 9/1 Conditions: PCI:		Tota	dSamples: 14	Survey	ed: 2		
-	19	Tota	alSamples: 14	Survey	ed: 2		
Conditions: PCI:	19 s:		Area:	Surveyo 5000.00 SqFt	ed: 2 PCI: 16		
Conditions: PCI: Inspection Comment	19 s:						
Conditions: PCI: Inspection Comment Sample Number: 4	19 s:						
Conditions: PCI: Inspection Comment Sample Number: 40 Sample Comments:	19 s:	oe: R	Area:				
Conditions: PCI: Inspection Comment Sample Number: 40 Sample Comments: 43 BLOCK CR	19 s:	pe: R H	Area: 250.00 SqFt				
Conditions: PCI: Inspection Comment Sample Number: 46 Sample Comments: 43 BLOCK CR 43 BLOCK CR	19 s: 04 Ty į	pe: R H M M	Area: 250.00 SqFt 4750.00 SqFt				
Conditions: PCI: Inspection Comment Sample Number: 44 Sample Comments: 43 BLOCK CR 43 BLOCK CR 52 RAVELING	19 s: 04 Ty į	pe: R H M M	Area: 250.00 SqFt 4750.00 SqFt 5000.00 SqFt	5000.00 SqFt	PCI: 16		
Conditions: PCI: Inspection Comment Sample Number: 40 Sample Comments: 43 BLOCK CR 43 BLOCK CR 52 RAVELING Sample Number: 50	19 s: 04 Typ	pe: R H M M	Area: 250.00 SqFt 4750.00 SqFt 5000.00 SqFt	5000.00 SqFt	PCI: 16		
Conditions: PCI: Inspection Comment Sample Number: 40 Sample Comments: 43 BLOCK CR 43 BLOCK CR 52 RAVELING Sample Number: 50 Sample Comments:	19 s: 04 Typ	pe: R H M M pe: R	Area: 250.00 SqFt 4750.00 SqFt 5000.00 SqFt Area:	5000.00 SqFt	PCI: 16		

Network:	COI				Name	: ME	RRITT ISLA	ND				
Branch:	AP S		Name:	SOUT	H APRO	N	Use:	APRON		Area:	283,625 Sql	Ft
Section:	4111	C	of 5	From:	-			To:	-		Last Co	nst.: 1/1/1996
Surface:	AAC	Family:	C9N59-GA- APC	AP-AAC-	Zone:			Cate	gory:		Rank:	P
Area:		14,689 SqFt	Length	:	134 Ft		Width:		100 Ft			
Slabs:		Slab Lei	ngth:	Ft	9	Slab Width:		Ft		Joint Leng	gth:	Ft
Shoulder:	:	Street T	ype:		(Grade: 0				Lanes:	0	
Section C	omments:											
Work Dat	te: 1/1/1970) W	ork Type: BU	TILT			C	ode: IMP	ORTED	Is Maj	or M&R: Tru	ie
Work Dat	te: 1/1/1996	5 W	ork Type: OV	ERLAY			C	ode: IMP	ORTED	Is Maj	or M&R: Tru	ie
Last Insp.	. Date: 9/1	13/2016	Tota	Samples:	3		Surveye	ed: 1				
Condition	s: PCI:	23										
Inspection	n Comment	s:										
Sample N	umber: 20	05 Ty	pe: R	A	rea:	565	0.00 SqFt		PCI: 23			
Sample C	omments:											
48 L &	& T CR		M	100.00	Ft							
	& T CR		L	119.00								
	LOCK CR		M	3150.00	-							
	AVELING		M	5650.00								
	EPRESSION	I	L	30.00	-							
56 SW	VELLING		L	8.00	SqFt							

Network: COI			Name:	MERRITT ISLA	AND					
Branch: AP S	N	ame: SOUT	H APRON	Use:	APRON	A	Area:	283,62	25 SqFt	
Section: 4115	of 5	From:	-		То: -			La	ast Const.:	1/1/1996
Surface: AAC	Family: C9N59	9-GA-AP-AAC-	Zone:		Category			Ra	ank: P	
Area: 89,44	47 SqFt I	Length:	450 Ft	Width:	200 1	₹t				
Slabs:	Slab Length:	Ft	Slab Wi	idth:	Ft		Joint Le	ngth:	F	t
Shoulder:	Street Type:		Grade:	0			Lanes:	0		
Section Comments:										
Work Date: 1/1/1975	Work Typ	oe: OVERLAY		(Code: IMPORT	ED	Is M	ajor M&F	R: True	
Work Date: 1/1/1996	Work Typ	e: BUILT		C	Code: IMPORT	ED	Is M	ajor M&F	R: True	
Last Insp. Date: 9/13/2016	6	TotalSamples:	18	Survey	ed: 3					
-	6	TotalSamples:	18	Survey	ed: 3					
Conditions: PCI: 21	6	TotalSamples:	18	Survey	ed: 3					
Conditions: PCI: 21 Inspection Comments:						25				
Conditions: PCI: 21 Inspection Comments: Sample Number: 106	Туре:		18	Survey 5700.00 SqFt	ed: 3 PCI:	25				
Conditions: PCI: 21 Inspection Comments: Sample Number: 106						25				
Conditions: PCI: 21 Inspection Comments: Sample Number: 106 Sample Comments: 43 BLOCK CR	Type:	R A	Area: SqFt			25				
Inspection Comments: Sample Number: 106 Sample Comments:	Туре:	R A	Area: SqFt			25				
Conditions: PCI: 21 Inspection Comments: Sample Number: 106 Sample Comments: 43 BLOCK CR	Type:	R A 5700.00 5700.00	Area: SqFt							
Conditions: PCI: 21 Inspection Comments: Sample Number: 106 Sample Comments: 43 BLOCK CR 52 RAVELING Sample Number: 177	Type: M M	R A 5700.00 5700.00	Area: SqFt SqFt	5700.00 SqFt	PCI:					
Conditions: PCI: 21 Inspection Comments: Sample Number: 106 Sample Comments: 43 BLOCK CR 52 RAVELING Sample Number: 177 Sample Comments:	Type: M M	R A 5700.00 5700.00	Area: SqFt SqFt Area:	5700.00 SqFt	PCI:					
Conditions: PCI: 21 Inspection Comments: Sample Number: 106 Sample Comments: 43 BLOCK CR 52 RAVELING Sample Number: 177 Sample Comments:	Type: M M Type:	R 5700.00 5700.00 R A	SqFt SqFt Area:	5700.00 SqFt	PCI:					
Conditions: PCI: 21 Inspection Comments: Sample Number: 106 Sample Comments: 43 BLOCK CR 52 RAVELING Sample Number: 177 Sample Comments: 43 BLOCK CR 52 RAVELING	Type: M M Type:	R 5700.00 5700.00 R A 3362.00 3362.00	SqFt SqFt Area:	5700.00 SqFt	PCI:	25				
Conditions: PCI: 21 Inspection Comments: Sample Number: 106 Sample Comments: 43 BLOCK CR 52 RAVELING Sample Number: 177 Sample Comments: 43 BLOCK CR 52 RAVELING Sample Number: 406	Type: M M Type:	R 5700.00 5700.00 R A 3362.00 3362.00	SqFt SqFt Area: SqFt SqFt	5700.00 SqFt 3362.00 SqFt	PCI:	25				
Conditions: PCI: 21 Inspection Comments: Sample Number: 106 Sample Comments: 43 BLOCK CR 52 RAVELING Sample Number: 177 Sample Comments: 43 BLOCK CR	Type: M M Type:	R 5700.00 5700.00 R A 3362.00 3362.00 R A	SqFt SqFt SqFt SqFt SqFt SqFt	5700.00 SqFt 3362.00 SqFt	PCI:	25				
Conditions: PCI: 21 Inspection Comments: Sample Number: 106 Sample Comments: 43 BLOCK CR 52 RAVELING Sample Number: 177 Sample Comments: 43 BLOCK CR 52 RAVELING Sample Number: 406 Sample Number: 406 Sample Comments:	Type: M M Type: M M Type:	R 5700.00 5700.00 R A 3362.00 3362.00	SqFt SqFt SqFt SqFt SqFt SqFt SqFt	5700.00 SqFt 3362.00 SqFt	PCI:	25				

Network:	COI				Nam	e: MEI	RRITT ISLA	ND			
Branch:	AP SW		Name:	SW Al	PRON		Use:	AP	RON	Area:	47,896 SqFt
Section:	4305	0	f 2	From:	-				То: -		Last Const.: 1/1/2003
Surface:	AC	Family:	C9N59-GA	-AP-AC	Zone	:			Category:		Rank: P
Area:		37,682 SqFt	Lengt	h:	376 Ft	t	Width:		100 Ft		
Slabs:		Slab Len	ngth:	Ft		Slab Width:			Ft	Joint Lengt	h: Ft
Shoulder:		Street T	ype:			Grade: 0				Lanes:	0
Section Co	mments:										
Work Date	: 1/1/1970	W	ork Type: O	VERLAY			C	ode:	IMPORTED	Is Majo	or M&R: True
Work Date	: 1/1/1970	W	ork Type: B	UILT			C	ode:	IMPORTED	Is Majo	or M&R: True
Work Date	: 1/1/2003	W	ork Type: C	omplete Recon	struction	n - AC	C	ode:	CR-AC	Is Majo	or M&R: True
Last Insp. I	Date: 9/13	3/2016	Tota	alSamples:	7		Surveye	e d: 1			
Conditions	: PCI:	84									
Inspection (Comments	:									
Sample Nu	mber: 20	0 Ty l	pe: R	A	rea:	5700	0.00 SqFt		PCI: 84		
Sample Co	mments:										
48 L&	T CR		L	86.00	Ft						
	PRESSION		L	39.00							
57 WE	ATHERING	G	L	5700.00	SqFt						

Network:	COI				Nan	ne: ME	ERRITT ISLA	ND		
Branch:	AP SW		Name:	SW A	PRON		Use:	APRON	Area:	47,896 SqFt
Section:	4310	of	2	From:	-			То: -		Last Const.: 1/1/2003
Surface:	AC	Family:	C9N59-GA	-AP-AC	Zon	e:		Category:		Rank: P
Area:	10,2	14 SqFt	Lengt	h:	50 F	⁷ t	Width:	200 Ft		
Slabs:		Slab Len	gth:	Ft		Slab Width:		Ft	Joint Lengt	h: Ft
Shoulder:		Street Ty	pe:			Grade: 0			Lanes:	0
Section Co	omments:									
Work Dat	e: 1/1/1990	Wo	ork Type: B	UILT			C	ode: IMPORTED	Is Majo	or M&R: True
Work Dat	e: 1/1/2003	Wo	ork Type: C	omplete Reco	nstructio	on - AC	C	ode: CR-AC	Is Majo	or M&R: True
Last Insp.	Date: 9/13/201	.6	Tot	alSamples:	2		Surveye	e d: 1		
Condition	s: PCI : 78									
Inspection	Comments:									
Sample N	umber: 101	Тур	e: R		Area:	464	0.00 SqFt	PCI: 7	78	
Sample Co	omments:									
48 L &	& T CR		L	159.00	Ft					
	VELING		L	696.00	_					
57 WI	EATHERING		L	3944.00	SqFt					

Network: COI		Name:	MERRITT ISLAND		
Branch: RW 11-29	Name:	RUNWAY 11-29		UNWAY Area	a: 270,225 SqFt
Section: 6105	of 1 F	rom: -		То: -	Last Const.: 1/1/2002
	Family: C9N59-GA-RW			Category:	Rank: P
	APC			- 6 .	
Area: 270,225	SqFt Length:	3,600 Ft	Width:	75 Ft	
	Slab Length:	Ft Slab Wid	lth:	Ft	Joint Length: Ft
	Street Type:	Grade:	0		Lanes: 0
Section Comments:					
Work Date: 1/1/1974	Work Type: BUIL	Γ	Code:	IMPORTED	Is Major M&R: True
Work Date: 1/1/1990	Work Type: OVER	RLAY	Code:	IMPORTED	Is Major M&R: True
Work Date: 1/1/1990	Work Type: OVER	RLAY		IMPORTED	Is Major M&R: True
Work Date: 1/1/1990	Work Type: OVER			IMPORTED	Is Major M&R: True
Work Date: 1/1/2002	Work Type: Overla	ay with Asph Rubber Membrayer	rane Code:	OV-ME	Is Major M&R: True
Work Date: 7/1/2016	Work Type: Surfac	ce Seal - Rejuvenating	Code:	SS-RE	Is Major M&R: False
Last Insp. Date: 9/13/2016	TotalSa	mples: 72	Surveyed:	15	
Conditions: PCI: 68					
Inspection Comments:					
Sample Number: 100	Type: R	Area:	3750.00 SqFt	PCI: 72	
Sample Comments:					
52 RAVELING	L	100.00 SqFt			
48 L & T CR 57 WEATHERING	L L	264.00 Ft 3650.00 SqFt			
Sample Number: 103	Type: R	-	3750.00 SqFt	PCI: 74	
Sample Comments:	- J. F - ·		•		
48 L & T CR	L	215.00 Ft			
52 RAVELING	L L	188.00 SqFt			
57 WEATHERING	L	3562.00 SqFt			
Sample Number: 107	Type: R	Area:	3750.00 SqFt	PCI: 68	
Sample Comments:					
48 L & T CR	L	330.00 Ft			
57 WEATHERING52 RAVELING	L L	3550.00 SqFt 200.00 SqFt			
Sample Number: 110	Type: R		3750.00 SqFt	PCI: 61	
Sample Comments:					
48 L & T CR	L	564.00 Ft			
57 WEATHERING	L	3500.00 SqFt			
52 RAVELING	L	250.00 SqFt		- ~- ~7	
Sample Number: 113 Sample Comments:	Type: R	Area:	3750.00 SqFt	PCI: 67	
52 RAVELING	L	100.00 SqFt			
48 L & T CR	L	380.00 Ft			
57 WEATHERING	L	3650.00 SqFt			
Sample Number: 119	Type: R	Area:	3750.00 SqFt	PCI: 66	
Sample Comments:					
52 RAVELING	L	150.00 SqFt			
48 L & T CR 57 WEATHERING	L L	396.00 Ft 3600.00 SqFt			
Sample Number: 125	Type: R	<u> </u>	3750.00 SqFt	PCI: 71	
Sample Comments:			1		E-17

48	L & T CR		L	281.00	Ft			
52	RAVELING		L	100.00				
57	WEATHERING		L	3650.00				
Sami	ple Number: 131	Type:			Area:	3750.00 SqFt	PCI:	70
_	-	Type.		K .	Area.	3730.00 SqFt	rci.	70
Sam	ple Comments:							
48	L & T CR		L	300.00	Ft			
57	WEATHERING		L	3600.00				
52	RAVELING		L	150.00	-			
		Т				3750.00 SqFt	PCI:	40
	ple Number: 137	Type:		K	Area:	3730.00 SqFt	PCI:	09
Sam	ple Comments:							
48	L & T CR		L	286.00	Ft			
48	L & T CR		M	50.00				
57	WEATHERING		L	3750.00				
56	SWELLING		L		SqFt			
Sami	ple Number: 143	Type:		R	Area:	3750.00 SqFt	PCI:	64
		1 y pc.			11041	3730.00 Bq1 t	101.	
Samj	ple Comments:							
48	L & T CR		M	25.00	Ft			
48	L & T CR		L	315.00	Ft			
52	RAVELING		L	100.00	SqFt			
57	WEATHERING		L	3650.00	SqFt			
Sam	ple Number: 149	Type:		R	Area:	3750.00 SqFt	PCI:	67
	ple Comments:	• •				•		
	_							
48	L & T CR		L	365.00				
57	WEATHERING		L	3562.00	-			
52	RAVELING		L	188.00	SqFt			
Samp	ple Number: 155	Type:		R	Area:	3750.00 SqFt	PCI:	64
Samp	ple Comments:							
48	L & T CR		M	10.00	Ft			
48	L & T CR		L	391.00	Ft			
52	RAVELING		L	22.00	SqFt			
57	WEATHERING		L	3728.00	SqFt			
Samı	ple Number: 161	Type:		R	Area:	3750.00 SqFt	PCI:	66
_	ple Comments:	• •				•		
				105.00	Б.			
48	L & T CR		L	407.00				
52	RAVELING		L		SqFt			
57	WEATHERING		L	3660.00				
Samj	ple Number: 167	Type:		R	Area:	3750.00 SqFt	PCI:	71
Samj	ple Comments:							
48	L & T CR		L	246.00	Ft			
52	RAVELING		L	1680.00				
57	WEATHERING		L	2070.00				
	ple Number: 170	Type:			Area:	3750.00 SqFt	PCI:	72
-	ple Comments:	rype.				3730.00 bqi t	1 (1,	· -
	_		т	250.00	E+			
48 52	L & T CR		L	258.00				
52 57	RAVELING		L	188.00				
57	WEATHERING		L	3562.00	SqFt			

	ork: COI				Name:	MERRITT ISL	AND			
Bran	ch: TW A		Name:	TAXIW	AY A	Use	: TA	XIWAY	Area:	125,133 SqFt
Section	on: 105	of	1	From: -				То: -		Last Const.: 1/1/200
Surfa	ace: AAC	•	9N59-GA- PC	TW-AAC-	Zone:			Category:		Rank: P
Area	: 125,13	3 SqFt	Lengtl	1: 3.	570 Ft	Width:		35 Ft		
Slabs	;:	Slab Length	ı:	Ft	Slab Wid	th:		Ft	Jo	oint Length: Ft
Shou	lder:	Street Type	:		Grade:	0			L	anes: 0
Section	on Comments:									
Work	k Date: 1/1/1974	Work	Type: BU	JILT			Code:	IMPORTED		Is Major M&R: True
Work	k Date: 1/1/1990	Work	Type: O	VERLAY			Code:	IMPORTED		Is Major M&R: True
Work	k Date: 1/1/1990	Work	Type: O	VERLAY			Code:	IMPORTED		Is Major M&R: True
Work	k Date: 1/1/1990	Work	Type: O	VERLAY			Code:	IMPORTED		Is Major M&R: True
Work	k Date: 1/1/2002	Work		verlay with Aspl erlayer	Rubber Membr	ane	Code:	OV-ME		Is Major M&R: True
Last	Insp. Date: 9/13/2016	j	Tota	lSamples: 3	j	Surve	yed: 5	5		
	litions: PCI: 71									
Inspe	ection Comments:									
	ole Number: 103	Type:	R	Δr	ea:	3500.00 SqFt		PCI: 65		
_	ple Comments:	2, per				ob ooloo bqr t		101, 00		
48	L & T CR		L	394.00 1	?t					
57	WEATHERING		L	3400.00						
52	RAVELING		L	100.00	-					
Samp	ple Number: 107	Type:	R	Ar	ea:	3500.00 SqFt		PCI: 76		
Samp	ple Comments:									
48	L & T CR		L	248.00 1	² t					
57	WEATHERING		L	3500.00	5qFt					
Samp	ple Number: 115	Type:	R	Ar	ea:	3500.00 SqFt		PCI: 67		
Samp	ple Comments:									
48	L & T CR		L	334.00 1	?t					
52	RAVELING		L	175.00						
57	WEATHERING		L	3325.00						
	ole Number: 123	Type:	R	Ar		3500.00 SqFt		PCI: 72		
_	ple Comments:	-3 F**			·			, <u>-</u>		
_			_		_					
48	L & T CR		L	232.00 1						
	RAVELING WEATHERING		L L	184.00 S 3316.00 S						
						3500.00 SqFt		PCI: 75		
57		Tuna	D		ra	J'IPG UU.UU-C		r CI; /3		
_	ple Number: 131 ple Comments:	Type:	R	Ar		•				
57 Samp Samp	ple Number: 131 ple Comments:	Type:				·				
57 Samp	ple Number: 131	Туре:	R L L	174.00 I 175.00 S	² t	•				

Network:	COI				Name:	MERRITT ISL	AND					
Branch:	TW A1		Name:	TAXI	WAY ALPHA 1	Use	: TA	XIWAY	Area:	10,739	9 SqFt	
Section:	305	of	1	From:	-			То: -		Las	st Const.:	1/1/2002
Surface:	AAC	Family:	C9N59-GA-	TW-AAC-	Zone:			Category:		Rai	nk: P	
Area:	10,73	39 SqFt	Length	ı :	100 Ft	Width:		100 Ft				
Slabs:		Slab Len	gth:	Ft	Slab W	idth:		Ft	Join	nt Length:	F	t
Shoulder:	:	Street Ty	pe:		Grade:	0			Lan	nes: 0		
Section C	omments:											
Work Da	te: 1/1/1974	Wo	ork Type: BU	JILT			Code:	IMPORTED		Is Major M&R:	True	
Work Da	te: 1/1/1990	Wo	ork Type: O\	/ERLAY			Code:	IMPORTED		Is Major M&R:	True	
Work Da	te: 1/1/1990	Wo	ork Type: OV	/ERLAY			Code:	IMPORTED		Is Major M&R:	True	
Work Da	te: 1/1/1990	Wo	ork Type: O\	/ERLAY			Code:	IMPORTED		Is Major M&R:	True	
Work Da	te: 1/1/2002	Wo	ork Type: Mi	ll and Overla	ý		Code:	ML-OL		Is Major M&R:	True	
-	. Date: 9/13/2010	6	Tota	lSamples:	2	Surve	yed:	1				
Condition Inspection	ns: PCI: 57 n Comments:											
Sample N	umber: 101	Тур	e: R	A	rea:	5204.00 SqFt		PCI: 57				
Sample C	comments:											
45 DI	EPRESSION		L	24.00	SqFt							
48 L	& T CR		L	873.00	•							
52 RA	AVELING		L	260.00	SqFt							
57 W.	EATHERING		L	4944.00	SqFt							

Network:	COI				Name	: ME	RRITT ISL.	AND			
Branch:	TW A2		Name:	TAXI	WAY AL	PHA 2	Use:	TA	XIWAY	Area:	4,513 SqFt
Section:	405	C	of 1	From:	-				То: -		Last Const.: 1/1/2002
Surface:	AAC	Family:	C9N59-GA-T APC	W-AAC-	Zone:				Category:		Rank: P
Area:		4,513 SqFt	Length:		100 Ft		Width:		40 Ft		
Slabs:		Slab Lei	ngth:	Ft	S	Slab Width:			Ft	Joint Length:	Ft
Shoulder:		Street T	ype:		(Grade: 0				Lanes: 0	
Section Co	omments:										
Work Dat	e: 1/1/1990	W	ork Type: OV	ERLAY			(Code:	IMPORTED	Is Major I	M&R: True
Work Dat	e: 1/1/1990	W	ork Type: OV	ERLAY			(Code:	IMPORTED	Is Major I	M&R: True
Work Dat	e: 1/1/1990	W	ork Type: BU	LT			•	Code:	IMPORTED	Is Major I	M&R: True
Work Dat	e: 1/1/2002	W	ork Type: Mil	and Overla	ıy		(Code:	ML-OL	Is Major I	M&R: True
Last Insp.	Date: 9/13	3/2016	Totals	Samples:	1		Survey	ved:	[
Condition	s: PCI:	74									
Inspection	Comments	:									
Sample Nu	umber: 400	0 Ty	pe: R		Area:	4513	3.00 SqFt		PCI: 74		
Sample Co	omments:										
48 L &	t T CR		L	325.00	Ft						
50 D.	TIET DIG		-	40.00	C E						

57

RAVELING

WEATHERING

L

L

40.00 SqFt

4473.00 SqFt

Network:	COI				Name:	ME	RRITT ISLAN	ND				
Branch:	TW A3		Nam	e: TAX	XIWAY ALP	HA 3	Use:	TAX	KIWAY	Area:	4,513 SqFt	:
Section:	505	ı	of 1	From:	-			Т	Го: -		Last Cons	st.: 1/1/2002
Surface:	AAC	Family:	C9N59-C	GA-TW-AAC-	Zone:			C	Category:		Rank: P	
Area:		4,513 SqFt	Len	gth:	100 Ft		Width:		40 Ft			
Slabs:		Slab Le	ngth:	F	t Sl	ab Width:		F	⁷ t	Joint Length:		Ft
Shoulder:		Street 7	Гуре:		Gi	rade: 0				Lanes: 0		
Section Co	omments:											
Work Date	e: 1/1/1974	v	Vork Type:	BUILT			Co	ode:	IMPORTED	Is Major	M&R: True	
Work Date	e: 1/1/1990	V	Vork Type:	OVERLAY			Co	ode:	IMPORTED	Is Major	M&R: True	
Work Date	e: 1/1/1990	v	Vork Type:	OVERLAY			Co	ode:	IMPORTED	Is Major	M&R: True	
Work Date	e: 1/1/1990	v	Vork Type:	OVERLAY			Co	ode:	IMPORTED	Is Major	M&R: True	
Work Date	e: 1/1/2002	V		Overlay with A	Asph Rubber	Membrane	Со	ode:	OV-ME	Is Major	M&R: True	
Last Insp.	Date: 9/13	/2016	Т	otalSamples:	1		Surveyed	d: 1				
Conditions	s: PCI:	68										
Inspection	Comments:											
Sample Nu Sample Co	imber: 100) Ty	pe: R		Area:	4513	3.00 SqFt		PCI: 68			
48 L &	t T CR		L	414.0	0 Ft							

226.00 SqFt 4287.00 SqFt

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57

RAVELING

WEATHERING

Network:	COI				Name:	MER	RITT ISLAN	ND			•		
Branch:	TW A4		Name:	TAXI	WAY ALPHA	. 4	Use:	TAX	IWAY	Area:		5,387 SqFt	
Section:	605	0	of 1 F	rom:	-			Т	`o: -			Last Const.: 1/1/	2002
Surface:	AAC	Family:	C9N59-GA-TV APC	V-AAC-	Zone:			C	Category:			Rank: P	
Area:		5,387 SqFt	Length:		100 Ft		Width:		40 Ft				
Slabs:		Slab Lei	ngth:	Ft	Slab	Width:		F	t	Joint 1	Length	: Ft	
Shoulder:		Street T	ype:		Grad	le: 0				Lanes	: 0		
Section Cor	mments:												
Work Date:	: 1/1/1979	W	ork Type: OVE	RLAY			Co	ode:	IMPORTED	Is	Major	M&R: True	
Work Date	: 1/1/1979	w	ork Type: BUIL	Т			Co	ode:	IMPORTED	Is	Major	M&R: True	
Work Date	: 1/1/2002	W	ork Type: Overl	ay - AC St	ructural		Co	ode: (OL-AS	Is	Major	M&R: True	
Last Insp. I	Date: 9/13	/2016	TotalSa	mples:	1		Surveyed	d: 1					
Conditions:	: PCI:	73											
Inspection (Comments:												
Sample Nui	mber: 600) Ty j	pe: R	A	rea:	5387.	00 SqFt		PCI: 73				
Sample Cor	mments:												

48 L & T CR L 504.00 Ft 57 WEATHERING L 5387.00 SqFt

Network:	COI				Name:	MERRITT IS	LAND				
Branch:	TW A5		Name:	TAXIV	AY ALPHA 5	Us	e: TA	AXIWAY	Area:	9,043 SqFt	
Section:	110	0	f 1	From: -				To: -		Last Const.	: 1/1/2002
Surface:	AAC	Family:	C9N59-GA-T APC	W-AAC-	Zone:			Category:		Rank: P	
Area:		9,043 SqFt	Length:		90 Ft	Width:		100 Ft			
Slabs:		Slab Len	igth:	Ft	Slab W	idth:		Ft	Joint Length:		Ft
Shoulder:	•	Street T	ype:		Grade:	0			Lanes: 0		
Section C	omments:										
Work Dat	te: 1/1/1974	W	ork Type: BUI	LT			Code:	IMPORTED	Is Major I	M&R: True	
Work Dat	te: 1/1/1990	W	ork Type: OVI	ERLAY			Code:	IMPORTED	Is Major I	M&R: True	
Work Dat	te: 1/1/1990	W	ork Type: OVI	ERLAY			Code:	IMPORTED	Is Major I	M&R: True	
Work Dat	te: 1/1/1990	W	ork Type: OVI	ERLAY			Code:	IMPORTED	Is Major I	M&R: True	
Work Dat	te: 1/1/2002	W	ork Type: Ove. Inter	rlay with Asp layer	h Rubber Mem	brane	Code:	OV-ME	Is Major I	M&R: True	
Last Insp	. Date: 9/13/2	2016	Totals	Samples: 2		Surv	eyed:	1			
Condition	s: PCI:	62									
Inspection	n Comments:										
Sample N	umber: 101	Tyl	pe: R	A	rea:	4007.00 SqFt		PCI: 62			
Sample C	comments:										
45 DE	EPRESSION		L	88.00	SqFt						
	& T CR		L	400.00	-						
52 RA	AVELING		L	200.00	SqFt						
57 W	EATHERING		L	3807.00	C - E4						

Network: COI			Name:	MERRITT ISLA	ND		
Branch: TW B		Name:	TAXIWAY B	Use:	TAXIWAY	Area:	79,688 SqFt
Section: 203	of	3 F 1	om: -		То: -		Last Const.: 1/1/2011
Surface: AC	Family:	C9N59-GA-TW	-AC Zone:		Category:		Rank: P
Area:	9,788 SqFt	Length:	400 Ft	Width:	25 Ft		
Slabs:	Slab Len	gth:	Ft Sla	b Width:	Ft	Joint Length	ı: Ft
Shoulder:	Street Ty	pe:	Gr	ade: 0		Lanes: 0	1
Section Comments:							
Work Date: 1/1/201	1 W	ork Type: New C	Construction - Initial	C	Code: NU-IN	Is Major	r M&R: True
Last Insp. Date: 9/1	13/2016	TotalSa	mples: 3	Surveye	ed: 1		
Conditions: PCI:	86						
Inspection Comment	s:						
Sample Number: 9	4 Typ	e: R	Area:	3004.00 SqFt	PCI: 86	i	
Sample Comments:							
48 L & T CR		L	75.00 Ft				

WEATHERING

57

L

3004.00 SqFt

Network:	COI				Nai	me: ME	ERRITT ISL	AND				
Branch:	TW B		Name:	TAX	XIWAY I	3	Use	: TA	AXIWAY	Area:	79,688 SqFt	
Section:	205	C	of 3	From:	-				То: -		Last Const.: 1/1	/2005
Surface:	AAC	Family:	C9N59-GA APC	-TW-AAC-	Zoi	ne:			Category:		Rank: P	
Area:		12,750 SqFt	Lengt	h:	320	Ft	Width:		40 Ft			
Slabs:		Slab Lei	ngth:	F	't	Slab Width:			Ft	Joint Length	: Ft	
Shoulder:		Street T	ype:			Grade: 0	1			Lanes: 0		
Section Co	omments:											
Work Dat	e: 1/1/1965	W	ork Type: O	VERLAY				Code:	IMPORTED	Is Major	M&R: True	
Work Dat	e: 1/1/1965	W	ork Type: O	VERLAY				Code:	IMPORTED	Is Major	M&R: True	
Work Dat	e: 1/1/1990	W	ork Type: B	UILT				Code:	IMPORTED	Is Major	M&R: True	
Work Dat	e: 1/1/2005	W	ork Type: M	ILL and OV	ERLAY			Code:	ML-OV	Is Major	M&R: True	
Last Insp.	Date: 9/13	3/2016	Tota	alSamples:	4		Surve	yed:	1			
Condition	s: PCI:	64										
Inspection	Comments	:										
Sample Nu	umber: 10	2 Ty	pe: R		Area:	300	0.00 SqFt		PCI: 64			
Sample Co	omments:											
52 RA	VELING		M	15.0	0 SqFt							
40 T 0	T CD		_	205.0	o ==							

L & T CR

RAVELING

48

52

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307.00 Ft

2985.00 SqFt

Network	: COI					Nan	ne: ME	RRITT ISL	AND						
Branch:	TW B			Name	: TAXI	WAY B		Use	: TA	XIWAY	Are	a:	79,	688 SqFt	
Section:	210		of 3		From:	-				То: -			I	Last Const	1/1/200
Surface:	AAC	Fam	•	9N59-G PC	A-TW-AAC-	Zon	e:			Category:			F	Rank: P	
Area:		57,150 SqF	₹t	Leng	gth:	1,900 F	² t	Width:		30 Ft					
Slabs:		Sla	b Length	:	Ft		Slab Width:			Ft		Joint Leng	gth:		Ft
Shoulder	:	Str	eet Type:				Grade: 0					Lanes:	0		
Section (Comments:														
Work Da	nte: 1/1/1980		Work	Type:	BUILT				Code:	IMPORTE	D	Is Ma	jor M&	R: True	
Work Da	nte: 1/1/1990	1	Work	Type:	OVERLAY				Code:	IMPORTE	D	Is Ma	jor M&	R: True	
Work Da	nte: 1/1/2005		Work	Type:	MILL and OVE	RLAY			Code:	ML-OV		Is Ma	jor M&	R: True	
Last Insp	Date: 9/1	3/2016		To	otalSamples:	19		Surve	yed: 3						
Canditia	DOT														
Conamo	ns: PCI:	64													
	ns: PC1: on Comments														
Inspectio		S :	Туре:	R		Area:	300	0.00 SqFt		PCI:	57				
Inspectio	on Comments	S :	Type:	R		Area:	300	0.00 SqFt		PCI:	57				
Inspection Sample Note: Sample O	on Comments Number: 10	S :	Type:	R	479.00		300	0.00 SqFt		PCI:	57				
Inspection Sample N Sample C	on Comments Number: 10 Comments:	S :	Type:		479.00 36.00	Ft SqFt	300	0.00 SqFt		PCI:	57				
Sample N Sample C 48 L 56 SV 52 R	on Comments Number: 10 Comments: & T CR WELLING AVELING	S :	Type:	L L M	479.00 36.00 22.00	Ft SqFt SqFt	300	0.00 SqFt		PCI:	57				
Sample N Sample C 48 L 56 SV 52 R	on Comments Number: 10 Comments: & T CR WELLING	S :	Type:	L L	479.00 36.00	Ft SqFt SqFt	300	0.00 SqFt		PCI:	57				
Sample N Sample C 48 L 56 SV 52 R	on Comments Number: 10 Comments: & T CR WELLING AVELING	99	Type:	L L M	479.00 36.00 22.00 298.00	Ft SqFt SqFt		0.00 SqFt 0.00 SqFt		PCI:					
Sample N Sample C 48 L 56 SV 52 R 52 R Sample N	on Comments Number: 10 Comments: & T CR WELLING AVELING AVELING	99		L L M L	479.00 36.00 22.00 298.00	Ft SqFt SqFt SqFt									
Sample N Sample (48 L 56 SV 52 R 52 R Sample N Sample N	on Comments Number: 10 Comments: & T CR WELLING AVELING AVELING AVELING Number: 11	99		L L M L	479.00 36.00 22.00 298.00	Ft SqFt SqFt SqFt Area:									
Sample M Sample C 48 L 56 SV 52 R 52 R Sample M Sample C	on Comments Number: 10 Comments: & T CR WELLING AVELING AVELING Number: 11 Comments:	99		L L M L	479.00 36.00 22.00 298.00	Ft SqFt SqFt SqFt Area:									
Sample N Sample C 48 L 56 S' 52 R 52 R Sample N Sample C 48 L 52 R	on Comments Number: 10 Comments: & T CR WELLING AVELING AVELING Number: 11 Comments: & T CR	99		L L M L	479.00 36.00 22.00 298.00 218.00 36.00	Ft SqFt SqFt SqFt Area:									
Sample N Sample (48 L 56 SY 52 R Sample N Sample N Sample (48 L 52 R 55 R 55 R 55 R 56 SY	on Comments Number: 10 Comments: & T CR WELLING AVELING AVELING Number: 11 Comments: & T CR AVELING	99		L L M L R	479.00 36.00 22.00 298.00 218.00 36.00	Ft SqFt SqFt SqFt Area:									
Sample N Sample C 48	on Comments Number: 10 Comments: & T CR WELLING AVELING AVELING Number: 11 Comments: & T CR AVELING WELLING	6		L L M L R	479.00 36.00 22.00 298.00 218.00 36.00 24.00 148.00	Ft SqFt SqFt SqFt Area:	300				68				
Sample N Sample C 48 L 56 S' 52 R 52 R Sample C 48 L 52 R 56 S' 52 R 56 S' 52 R	on Comments Number: 10 Comments: & T CR WELLING AVELING Number: 11 Comments: & T CR AVELING WELLING AVELING	6	Type:	L M L R	479.00 36.00 22.00 298.00 218.00 36.00 24.00 148.00	Ft SqFt SqFt SqFt Area: Ft SqFt SqFt SqFt	300	0.00 SqFt		PCI:	68				
Sample M Sample C 48 L 56 SV 52 R 52 R Sample C 48 L 52 R 56 SV 52 R 56 SV 52 R	Number: 10 Comments: & T CR WELLING AVELING AVELING Vumber: 11 Comments: & T CR AVELING WELLING WELLING AVELING WELLING AVELING T CR AVELING WELLING AVELING T CR AVELING	6	Type:	L M L R	479.00 36.00 22.00 298.00 218.00 36.00 24.00 148.00	Ft SqFt SqFt SqFt Area: Ft SqFt SqFt SqFt	300	0.00 SqFt		PCI:	68				
Sample M Sample C 48 L 56 SY 52 R 52 R Sample C 48 L 52 R 56 SY 56 SY 56 SY 57 R Sample C 48 L 48 L	on Comments Number: 10 Comments: & T CR WELLING AVELING Number: 11 Comments: & T CR AVELING WELLING WELLING AVELING AVELING AVELING AVELING AVELING Number: 12	6	Type:	L L R L L L R	479.00 36.00 22.00 298.00 218.00 36.00 24.00 148.00	Ft SqFt SqFt SqFt Area: Ft SqFt SqFt SqFt	300	0.00 SqFt		PCI:	68				

Network:	COI				Name	e: ME	RRITT ISLA	AND			
Branch:	TW B1		Name:	TAXIV	WAY BR	AVO 1	Use:	TA	AXIWAY	Area:	4,046 SqFt
Section:	315	(of 1	From:	-				То: -		Last Const.: 1/1/20
Surface:	AAC	Family:	C9N59-GA-T APC	TW-AAC-	Zone	:			Category:		Rank: P
Area:		4,046 SqFt	Length	:	100 Ft		Width:		40 Ft		
Slabs:		Slab Le	ngth:	Ft	\$	Slab Width:			Ft	Joint Length:	Ft
Shoulder:		Street T	ype:		(Grade: 0				Lanes: 0	
Section Co	omments:										
Work Dat	e: 1/1/1990	W	Vork Type: BU	ILT			(Code:	IMPORTED	Is Major I	M&R: True
Work Dat	e: 1/1/1990	W	Vork Type: OV	ERLAY			(Code:	IMPORTED	Is Major I	M&R: True
Work Dat	e: 1/1/1990	W	Vork Type: OV	ERLAY			(Code:	IMPORTED	Is Major I	M&R: True
Work Dat	e: 1/1/2005	W	Vork Type: Mil	l and Overlay	y		(Code:	ML-OL	Is Major I	M&R: True
Last Insp.	Date: 9/13	5/2016	Total	Samples:	1		Survey	ed:	1		
Condition	s: PCI:	61									
Inspection	Comments:	:									
Sample N	umber: 300) Ty	pe: R	A	rea:	404	6.00 SqFt		PCI: 61		
Sample C	omments:										
45 DE	PRESSION		L	25.00	SqFt						
48 L &	& T CR		L	475.00							
52 RA	VELING		M		SqFt						
52 RA	VELING		L	202.00	SaFt						

6.00 SqFt 202.00 SqFt

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52

RAVELING

Network:	COI				Name:	ME	RRITT ISLA	ND					
Branch:	TW B2		Name:	TAXIV	VAY BRA	VO 2	Use:	TA	XIWAY	Area:		4,298 SqFt	
Section: 41	0	0	f 1 Fr	om: -					То: -			Last Const.	: 1/1/2005
Surface: A.	AC	Family:	C9N59-GA-TW- APC	AAC-	Zone:				Category:			Rank: P	
Area:		4,298 SqFt	Length:		100 Ft		Width:		40 Ft				
Slabs:		Slab Ler	ngth:	Ft	S	lab Width:			Ft	Joint Le	ngth:]	Ft
Shoulder:		Street T	ype:		G	rade: 0				Lanes:	0		
Section Com	ments:												
Work Date:	1/1/1990	W	ork Type: BUILT	ı			C	ode:	IMPORTED	Is M	ajor N	1&R: True	
Work Date:	1/1/1990	w	ork Type: OVER	LAY			C	ode:	IMPORTED	Is M	ajor N	1&R: True	
Work Date:	1/1/1990	w	ork Type: OVER	LAY			C	ode:	IMPORTED	Is M	ajor N	1&R: True	
Work Date:	1/1/2005	w	ork Type: Mill an	d Overlay	7		C	ode:	ML-OL	Is M	ajor N	1&R: True	
Last Insp. Da	ite: 9/13/2	2016	TotalSar	nples:	1		Surveye	e d: 1					
Conditions:	PCI:	68											
Inspection Co	omments:												
Sample Num		Ty	pe: R	A	rea:	429	8.00 SqFt		PCI: 68				

52

RAVELING

RAVELING

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Network:	COI				Name:	MERRITT	ISLAND			
Branch:	TW B4		Name:	TAXI	WAY BRAVO	4	Use: T	AXIWAY	Area:	5,450 SqFt
Section:	216	C	of 1	From:	-			То: -		Last Const.: 1/1/2005
Surface:	AAC	Family:	C9N59-GA- APC	TW-AAC-	Zone:			Category:		Rank: P
Area:		5,450 SqFt	Lengtl	n:	150 Ft	Widt	1:	30 Ft		
Slabs:		Slab Le	ngth:	Ft	Slab V	Vidth:		Ft	Joint Length:	Ft
Shoulder:		Street T	ype:		Grade	: 0			Lanes: 0	
Section Cor	nments:									
Work Date	: 1/1/1979	W	ork Type: BU	JILT			Code	: IMPORTED	Is Major 1	M&R: True
Work Date	: 1/1/1990	W	ork Type: O	VERLAY			Code	: IMPORTED	Is Major 1	M&R: True
Work Date	: 1/1/1990	W	ork Type: O	VERLAY			Code	: IMPORTED	Is Major 1	M&R: True
Work Date	: 1/1/2005	W	ork Type: M	ill & Overlay			Code	: MI&OV	Is Major 1	M&R: True
Last Insp. I	Date: 9/13	3/2016	Tota	lSamples:	2	Su	rveyed:	1		
Conditions	PCI:	65								
Inspection (Comments:	:								
Sample Nu	mber: 124	4 Ty	pe: R		Area:	2731.00 Sq	Ft	PCI: 65		
Sample Cor	mments:									
48 L&	T CR		L	206.00	Ft					
	T CR		M	15.00						
52 RAV	/ELING		M	10.00	SqFt					
52 RAV	/ELING		L	248.00	SqFt					