## FLORIDA DEPARTMENT OF TRANSPORTATION









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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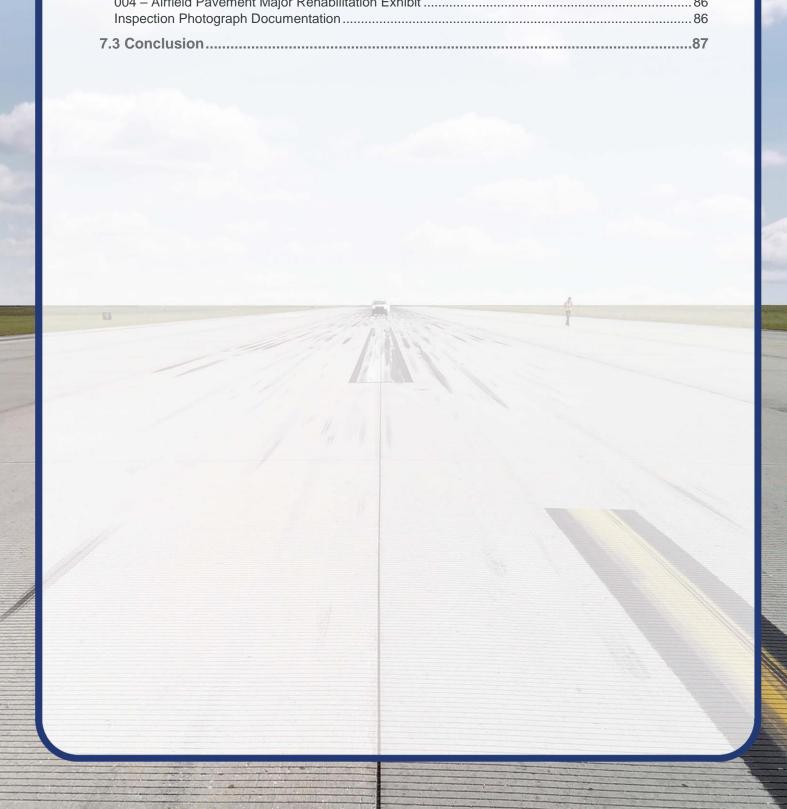
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# **Executive Summary**



## **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.

Peter Prince Field (2R4)

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
2R4	RUNWAY 18-36	RUNWAY	6105	277,500	100	Good
2R4	TAXIWAY A	TAXIWAY	105	12,759	62	Fair
2R4	TAXIWAY A	TAXIWAY	115	38,153	59	Fair
2R4	TAXIWAY A	TAXIWAY	120	6,724	61	Fair
2R4	TAXIWAY A	TAXIWAY	500	9,348	70	Fair
2R4	TAXIWAY A	TAXIWAY	510	39,191	62	Fair
2R4	TAXIWAY B	TAXIWAY	205	104,968	62	Fair
2R4	TAXIWAY B	TAXIWAY	210	8,970	46	Poor
2R4	TAXIWAY B	TAXIWAY	215	9,340	57	Fair
2R4	TAXIWAY B	TAXIWAY	250	8,550	100	Good
2R4	TAXIWAY C	TAXIWAY	305	11,689	57	Fair
2R4	TAXIWAY D	TAXIWAY	405	7,141	56	Fair
2R4	TAXIWAY D	TAXIWAY	410	3,148	50	Poor
2R4	TAXIWAY TO HANGAR	TAXIWAY	605	70,365	94	Good
2R4	APRON WEST	APRON	4105	89,498	57	Fair
2R4	APRON WEST	APRON	4110	72,218	54	Poor
2R4	APRON WEST	APRON	4115	55,812	59	Fair
2R4	APRON WEST	APRON	4120	50,545	61	Fair
2R4	APRON WEST	APRON	4125	117,425	62	Fair
2R4	APRON WEST	APRON	4130	88,086	68	Fair
2R4	APRON EAST	APRON	4205	88,496	100	Good
2R4	RUN-UP RUNWAY 18	APRON	5105	11,805	94	Good
2R4	RUN-UP RUNWAY 18	APRON	5110	11,199	94	Good
2R4	RUN-UP RUNWAY 36	APRON	5205	12,428	94	Good
2R4	RUN-UP RUNWAY 36	APRON	5210	10,237	94	Good





#### Forecasted Pavement Condition Index 2018-2027

Table E-2 Pavement Condition Index Forecast 2018-2027

Notwork ID	Drawah ID	Continu ID	Local DCI	Forecasted PCI									
Network ID	Branch ID	Section ID	Last PCI	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
2R4	AP E	4205	100	95	94	92	90	89	87	86	84	82	81
2R4	AP W	4105	57	55	54	52	50	49	47	46	44	43	41
2R4	AP W	4110	54	53	52	52	52	52	52	52	51	50	48
2R4	AP W	4115	59	57	55	54	53	52	52	52	52	52	52
2R4	AP W	4120	61	59	58	56	54	53	51	50	48	47	45
2R4	AP W	4125	62	60	59	57	55	54	52	51	49	48	46
2R4	AP W	4130	68	66	65	63	61	60	58	57	55	54	52
2R4	RU RW 18	5105	94	92	91	89	87	86	84	83	81	80	78
2R4	RU RW 18	5110	94	92	91	89	87	86	84	83	81	80	78
2R4	RU RW 36	5205	94	92	91	89	87	86	84	83	81	80	78
2R4	RU RW 36	5210	94	92	91	89	87	86	84	83	81	80	78
2R4	RW 18-36	6105	100	97	95	93	90	88	86	83	81	79	76
2R4	TW A	105	62	61	60	59	58	56	55	54	52	51	49
2R4	TW A	115	59	58	56	55	54	52	51	49	48	46	44
2R4	TW A	120	61	60	59	57	56	55	54	52	51	49	47
2R4	TW A	500	70	69	68	67	66	65	64	63	62	61	61
2R4	TW A	510	62	61	60	59	58	56	55	54	52	51	49
2R4	TW B	205	62	61	60	59	58	56	55	54	52	51	49
2R4	TW B	210	46	44	43	41	39	38	37	35	34	33	32
2R4	TW B	215	57	55	54	53	51	50	48	46	45	43	42
2R4	TW B	250	100	93	91	88	86	83	81	79	77	75	73
2R4	TW C	305	57	55	54	53	51	50	48	46	45	43	42
2R4	TW D	405	56	54	52	51	49	48	47	46	45	44	44
2R4	TW D	410	50	48	47	46	45	44	44	43	43	43	43
2R4	TW HANG	605	94	92	89	86	84	82	80	78	76	74	72



#### Major Rehabilitation Planning 2018-2027

Table E-3 Major Rehabilitation Planning 2018-2027

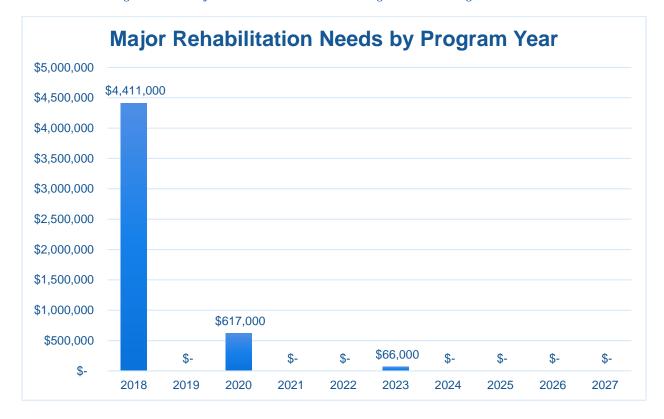
Program Year	Network ID	Branch ID	Section ID	Surface	Area (SF)	PCI Before	Rehabilitation Type	Planning Cost
2018	2R4	AP W	4105	AC	89,498	55	AC Restoration	\$ 627,000.00
2018	2R4	AP W	4110	AAC	72,218	53	AC Restoration	\$ 506,000.00
2018	2R4	AP W	4115	AAC	55,812	57	AC Restoration	\$ 391,000.00
2018	2R4	AP W	4120	AC	50,545	59	AC Restoration	\$ 354,000.00
2018	2R4	AP W	4125	AC	117,425	60	AC Restoration	\$ 823,000.00
2018	2R4	TW A	105	AC	12,759	61	AC Restoration	\$ 90,000.00
2018	2R4	TW A	115	AC	38,153	58	AC Restoration	\$ 268,000.00
2018	2R4	TW A	120	AC	6,724	60	AC Restoration	\$ 48,000.00
2018	2R4	TW A	510	AC	39,191	61	AC Restoration	\$ 275,000.00
2018	2R4	TW B	205	AC	104,968	61	AC Restoration	\$ 735,000.00
2018	2R4	TW B	210	AC	8,970	44	AC Restoration	\$ 73,000.00
2018	2R4	TW B	215	AC	9,340	55	AC Restoration	\$ 66,000.00
2018	2R4	TW C	305	AC	11,689	55	AC Restoration	\$ 82,000.00
2018	2R4	TW D	405	AAC	7,141	54	AC Restoration	\$ 50,000.00
2018	2R4	TW D	410	AAC	3,148	48	AC Restoration	\$ 23,000.00
2020	2R4	AP W	4130	AC	88,086	63	AC Restoration	\$ 617,000.00
2023	2R4	TW A	500	AC	9,348	64	AC Restoration	\$ 66,000.00

<sup>\*</sup>All planning cost values have been rounded to the nearest thousand-dollar.





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



#### Summary of Peter Prince Field

Peter Prince Field was inspected in March 2017 - the overall weighted PCI value was 75, a condition rating of Satisfactory. The results of the maintenance, repair, and major rehabilitation analysis identified \$551.610 in localized M&R needs based on current conditions and a 10-Year major rehabilitation need of \$5,094,000 based on forecasted conditions. The current major rehabilitation needs based on the latest inspection consist of \$4,411,000 for pavements below critical condition.

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







## **Chapter 1 – Introduction**

#### 1.1 Background

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

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

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

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

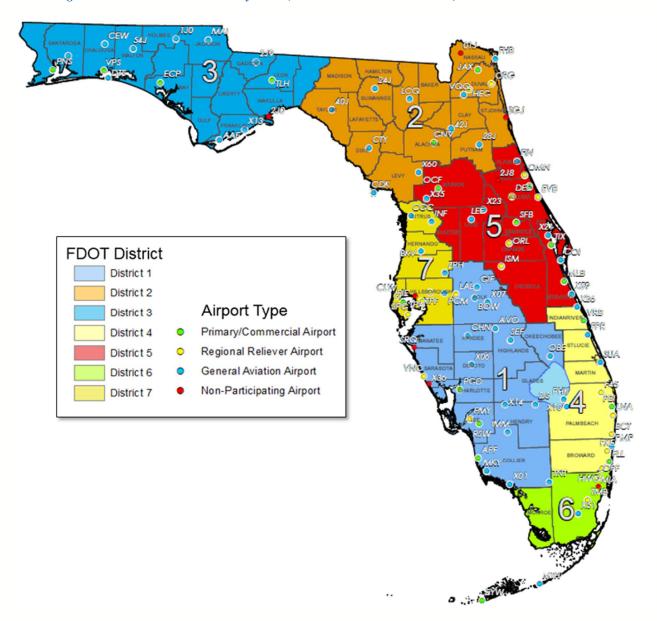
#### 1.2 Statewide Airfield Pavement Management Program (SAPMP) Update 2016-2017

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





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



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



#### 1.3 Organization

#### 1.3.1 Florida Department of Transportation Aviation and Spaceports Office Program Manager

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

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

#### 1.3.2 Participating Florida Public-Use and Publicly Owned Airports

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

#### 1.3.3 Florida Department of Transportation District Offices

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

#### 1.3.4 Consultant

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

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



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

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



#### 1.4 Purpose of Airport Pavement Evaluation Report

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

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

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

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

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

#### 1.5 History of the Program

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



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

In 2004, the SAPMP system update included the review of the AIRPAV software compared to other industry available non-proprietary software packages. As a result of this review, MicroPAVER<sup>™</sup> (currently known as PAVER<sup>™</sup>) 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<sup>™</sup> system. Based on the distress data collected, a maintenance repair and major rehabilitation planning program was developed for each airport. As part of this SAPMP update, the procedures for the inspection and the collection of the pavement distress data were documented, and an interactive website (http://www.dot.state.fl.us/aviation/pavement.shtm) was established for input of data.

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

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



#### 1.6 Federal Aviation Administration (FAA)

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

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

#### 1.7 FDOT SAPMP Objectives and Components

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

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

#### 1.7.1 Program Objectives

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

The objectives are accomplished by the following components:

#### 1.7.2 Program Components

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





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

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

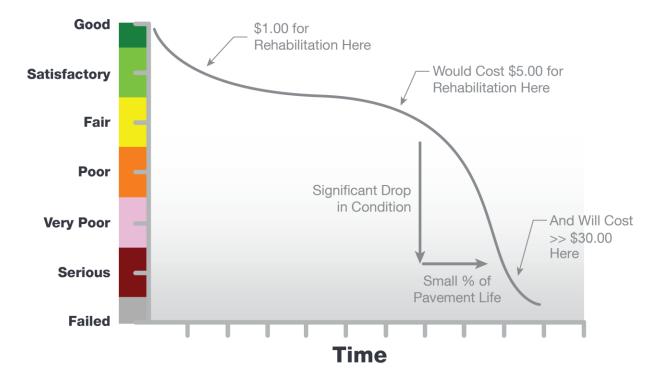


Figure 1.7-1 Typical Pavement Condition Life Cycle

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

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

Failed 0-10

0

5

20

25



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

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

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.

10

Age (Years)

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





Figure 1.7-3 Flexible Asphalt Concrete

	PCI Range	Representative PCI	Representative Pavement Surface	Rehabilitation Activities
Routine Maintenance	86-100	90		Pavements with PCI values above 85, or 'Good', may require periodic joint/crack sealing and local patching.
Pavement Preservation	65-85	70		Pavements with PCI conditions ranging from 'Fair' to 'Satisfactory' may require surface treatments (seal coat), thin overlays, and/or joint/crack sealing.
Major Rehabiliation	40-64	50	A	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 2<sup>nd</sup> Edition, M.Y. Shahin.



# **Chapter 2**



## **Chapter 2 – Methodology**

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

#### 2.1 Airfield Pavement Database

The SAPMP program has historically utilized PAVER™ (formerly MicroPAVER™); the current update has maintained the use of the PAVER™ 7.0 version of the software. The PAVER™ software application was developed by the U.S. Army Construction Engineering Research Laboratory sponsored by the FAA, Federal Highway Administration, U.S. Army, U.S. Air Force, and the U.S. Navy to meet the objectives of an effective pavement management system. The SAPMP consists of a network-level database of the airport's airfield pavement facilities that are part of the program. PAVER<sup>™</sup> 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 PAVER<sup>TM</sup> 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<sup>TM</sup> version 6.5 to a version 7.0.

#### 2.2 Airfield Pavement System Inventory

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

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





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

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

#### 2.2.1 Pavement Management Program Network Definition Terminology

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

#### **Pavement Network**

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

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

#### **Pavement Branch**

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

#### **Pavement Section**

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



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

#### **Pavement Sample Unit**

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

Table 2.2.1 Airfield Pavement Database Network Definition Terminology

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





#### 2.3 Airfield Pavement Structure

#### 2.3.1 Pavement Structure Types

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

#### Flexible Asphalt Concrete Surface

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

#### Asphalt Concrete (AC)

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

#### Asphalt Concrete Overlaid on Asphalt Concrete (AAC)

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

#### Asphalt Concrete Overlaid on Portland Cement Concrete (APC)

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





#### Rigid Portland Cement Concrete Surface

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

#### Portland Cement Concrete (PCC)

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

#### Composite Structure - Whitetopping Pavement

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

#### Conventional Whitetopping (WHT)

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

#### Thin Whitetopping (TWT)

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

#### Ultra-Thin Whitetopping (UTW)

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





#### 2.4 Airfield Pavement Work History

#### 2.4.1 Airfield Pavement Record Keeping

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

- 1. Location and Limits of Work.
- 2. 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





	Classification by Possible Causes							
Load	Climate / Durability	Moisture / Drainage	Others					
<ul> <li>Alligator Cracking</li> <li>Corrugation</li> <li>Depression</li> <li>Patching of Load-based distress</li> <li>Polished Aggregate</li> <li>Rutting</li> <li>Slippage Cracking</li> </ul>	<ul> <li>Bleeding</li> <li>Block Cracking</li> <li>Joint Reflection Cracking</li> <li>L/T Cracking</li> <li>Patching of climate / durability-caused distresses</li> <li>Shoving from PCC</li> <li>Raveling</li> <li>Weathering</li> <li>Swelling</li> </ul>	<ul> <li>Alligator Cracking</li> <li>Depression</li> <li>Patching of moisture / drainage caused distress</li> <li>Swelling</li> <li>Raveling</li> <li>Weathering</li> </ul>	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					
<ul> <li>Corrugation</li> <li>Depression</li> <li>Rutting</li> <li>Shoving of asphalt pavement</li> <li>Swelling</li> <li>Raveling</li> <li>Weathering</li> </ul>	<ul><li>Bleeding</li><li>Depression</li><li>Polished Aggregate</li><li>Rutting</li></ul>	Block Cracking     Joint Reflection     Cracking     L/T Cracking     Slippage     Cracking	All Distresses					





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

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



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

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

### 2.6.3 PCI Survey Inspection Procedures

#### Inspection Sampling Rate

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

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

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

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

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



# 2.6.4 Updates to the ASTM D5340-12

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

#### Flexible Asphalt Concrete Pavement Distress Updates

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

#### Rigid Portland Cement Concrete Pavement Distress Updates

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



#### Table 2.6.4 Summary of Updates to ASTM D5340-12

Use and Surface Type	Updated Distress	Former Distress in Prior to 5340-10	Deduction Curve	Potential Effect	
AC/AAC/ APC Airfield	(52) Raveling - Low	(52) Weathering and Raveling - Low	No Change	N/A	
Aimeiu	(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

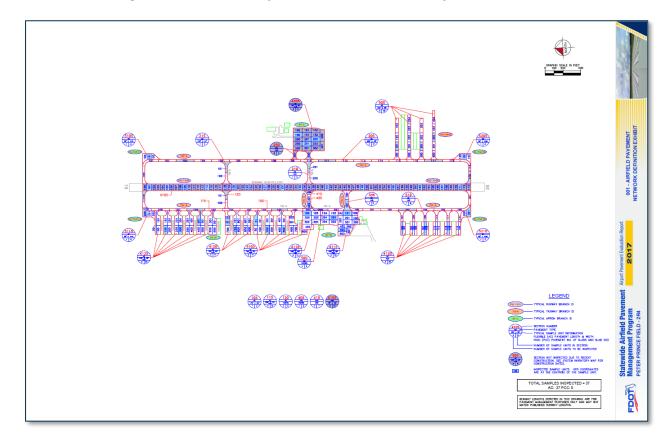
Year	General Work Description
2013	TW HANG - Reconstruction: 2" P-401, 6" P-211, 12" P-152
2015	<b>AP E, TW B</b> - Reconstruction: 2" P-401, 6" P-211, 12" P-152
2016	RW 18-36 - Mill and Overlay: 3" P-401

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.





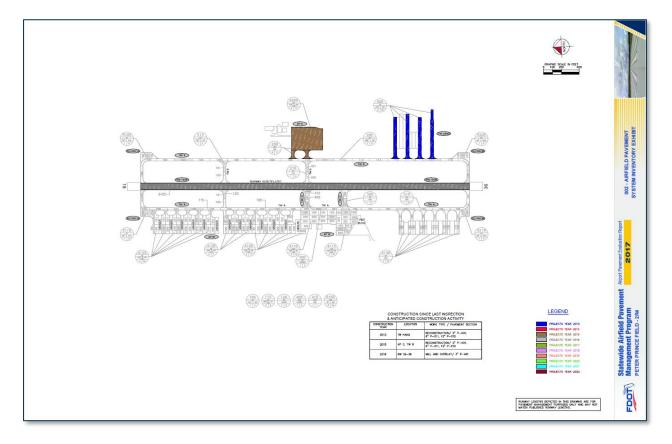
Figure 3.1.1-1 2017 Airfield Pavement Network Definition Exhibit



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.







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

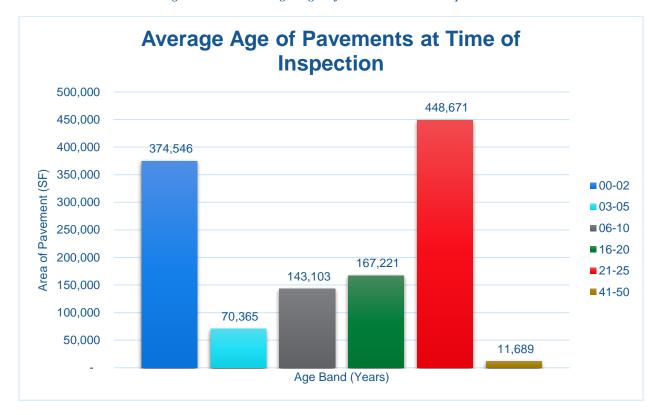
#### 3.1.2 Estimated Pavement Age

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





Figure 3.1.2 Average Age of Pavements at Inspection



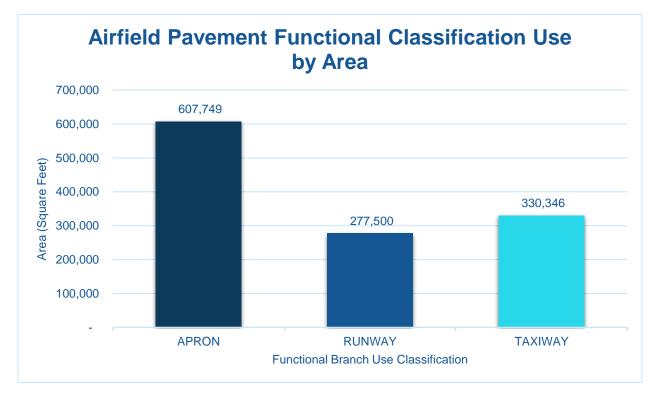
The estimation of the pavement age is based on information requested and provided by participating airports. Additionally, data collected in the prior system updates since 1992 have been relied upon.



#### 3.1.3 Functional Use Classification

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

Figure 3.1.3 Airfield Pavement Functional Classification Use by Area





## 3.1.4 Pavement Surface Type

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

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

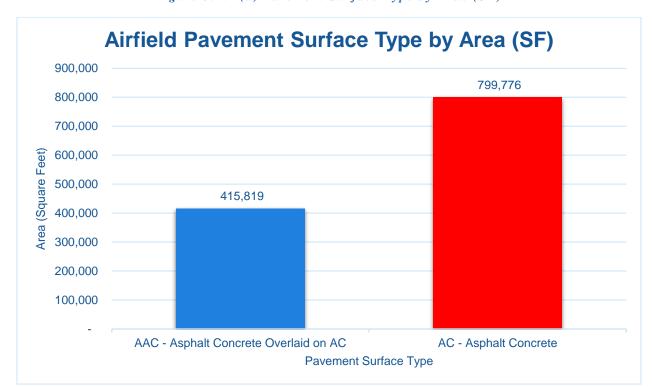
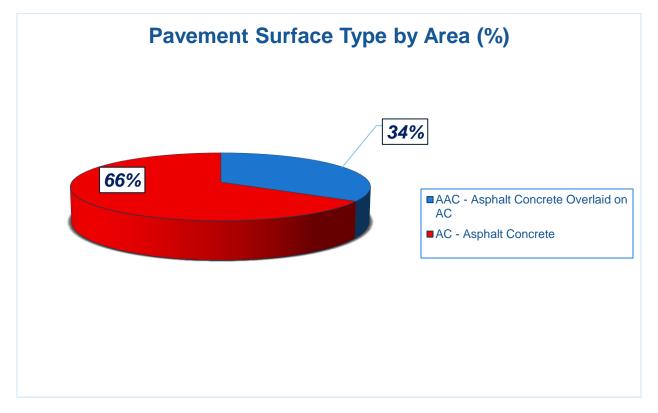


Figure 3.1.4 (a) Pavement Surface Type by Area (SF)





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



#### 3.1.5 Pavement System Inventory Details

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

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





Table 3.1.5 Pavement System Inventory Details

Network ID	Branch Name	Branch ID	Branch Use	Section ID	Length (FT)	Width (FT)	Area (SF)	Surface Type	Est. Last Construction Date
2R4	APRON EAST	AP E	APRON	4205	350	235	88,496	AC	4/1/2015
2R4	APRON WEST	AP W	APRON	4105	300	267	89,498	AC	1/1/1992
2R4	APRON WEST	AP W	APRON	4110	400	150	72,218	AAC	1/1/2000
2R4	APRON WEST	AP W	APRON	4115	250	150	55,812	AAC	1/1/2000
2R4	APRON WEST	AP W	APRON	4120	210	267	50,545	AC	1/1/1995
2R4	APRON WEST	AP W	APRON	4125	440	267	117,425	AC	1/1/1996
2R4	APRON WEST	AP W	APRON	4130	275	275	88,086	AC	1/1/2007
2R4	RUN-UP RUNWAY 18	RU RW 18	APRON	5105	150	50	11,805	AC	1/1/2011
2R4	RUN-UP RUNWAY 18	RU RW 18	APRON	5110	150	50	11,199	AC	1/1/2011
2R4	RUN-UP RUNWAY 36	RU RW 36	APRON	5205	160	50	12,428	AC	1/1/2011
2R4	RUN-UP RUNWAY 36	RU RW 36	APRON	5210	200	50	10,237	AC	1/1/2011
2R4	RUNWAY 18-36	RW 18-36	RUNWAY	6105	3700	75	277,500	AAC	9/1/2016
2R4	TAXIWAY A	TW A	TAXIWAY	105	500	25	12,759	AC	1/1/1992
2R4	TAXIWAY A	TW A	TAXIWAY	115	1300	25	38,153	AC	1/1/1995
2R4	TAXIWAY A	TW A	TAXIWAY	120	200	25	6,724	AC	1/1/1996
2R4	TAXIWAY A	TW A	TAXIWAY	500	380	25	9,348	AC	1/1/2007
2R4	TAXIWAY A	TW A	TAXIWAY	510	1518	25	39,191	AC	1/1/2001
2R4	TAXIWAY B	TW B	TAXIWAY	205	4200	25	104,968	AC	1/1/1992
2R4	TAXIWAY B	TW B	TAXIWAY	210	250	25	8,970	AC	1/1/1992
2R4	TAXIWAY B	TW B	TAXIWAY	215	250	25	9,340	AC	1/1/1996
2R4	TAXIWAY B	TW B	TAXIWAY	250	120	35	8,550	AC	4/1/2015
2R4	TAXIWAY C	TW C	TAXIWAY	305	250	40	11,689	AC	1/1/1968
2R4	TAXIWAY D	TW D	TAXIWAY	405	160	40	7,141	AAC	1/1/1992
2R4	TAXIWAY D	TW D	TAXIWAY	410	40	40	3,148	AAC	1/1/1992
2R4	TAXIWAY TO HANGAR	TW HANG	TAXIWAY	605	400	35	70,365	AC	8/1/2013





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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.

Peter Prince Field (2R4)

## 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.

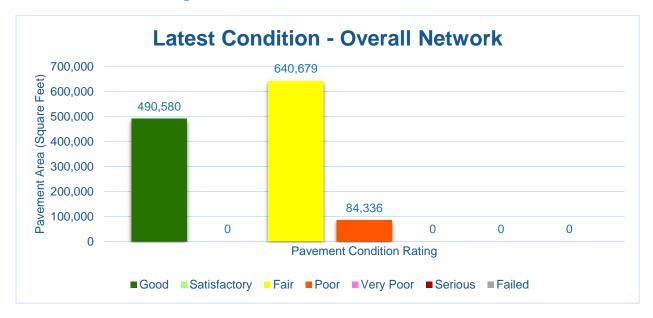


Figure 4.1.1 Latest Condition - Overall Network

#### 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

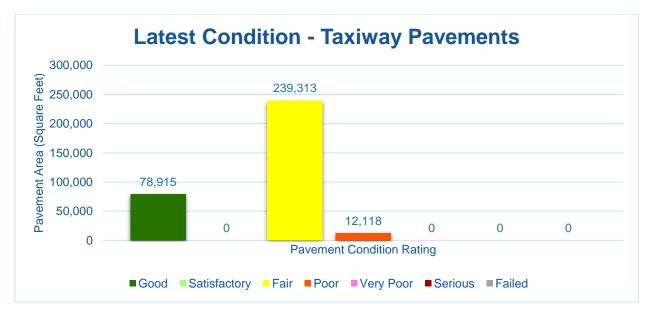
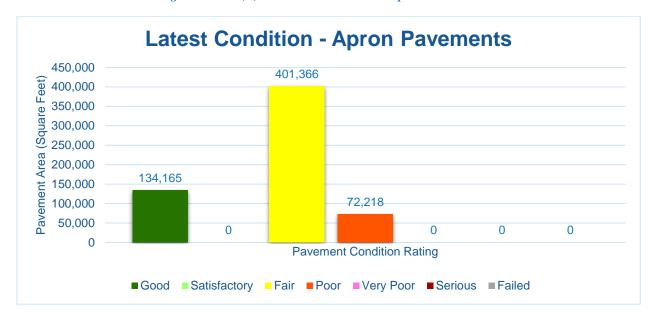






Figure 4.1.2 (c) Latest Condition - Apron Pavements







#### 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
2R4	AP E	APRON EAST	APRON	4205	88,496	AC	100	Good	0%	0%	0%	0	17
2R4	AP W	APRON WEST	APRON	4105	89,498	AC	57	Fair	100%	0%	0%	3	17
2R4	AP W	APRON WEST	APRON	4110	72,218	AAC	54	Poor	96%	0%	4%	2	14
2R4	AP W	APRON WEST	APRON	4115	55,812	AAC	59	Fair	100%	0%	0%	2	13
2R4	AP W	APRON WEST	APRON	4120	50,545	AC	61	Fair	100%	0%	0%	2	11
2R4	AP W	APRON WEST	APRON	4125	117,425	AC	62	Fair	100%	0%	0%	3	23
2R4	AP W	APRON WEST	APRON	4130	88,086	AC	68	Fair	100%	0%	0%	3	22
2R4	RU RW 18	RUN-UP RUNWAY 18	APRON	5105	11,805	AC	94	Good	100%	0%	0%	1	3
2R4	RU RW 18	RUN-UP RUNWAY 18	APRON	5110	11,199	AC	94	Good	100%	0%	0%	1	3
2R4	RU RW 36	RUN-UP RUNWAY 36	APRON	5205	12,428	AC	94	Good	100%	0%	0%	1	3
2R4	RU RW 36	RUN-UP RUNWAY 36	APRON	5210	10,237	AC	94	Good	100%	0%	0%	1	2
2R4	RW 18-36	RUNWAY 18-36	RUNWAY	6105	277,500	AAC	100	Good	0%	0%	0%	0	74
2R4	TW A	TAXIWAY A	TAXIWAY	105	12,759	AC	62	Fair	100%	0%	0%	1	3
2R4	TW A	TAXIWAY A	TAXIWAY	115	38,153	AC	59	Fair	100%	0%	0%	2	8
2R4	TW A	TAXIWAY A	TAXIWAY	120	6,724	AC	61	Fair	100%	0%	0%	1	2
2R4	TW A	TAXIWAY A	TAXIWAY	500	9,348	AC	70	Fair	97%	0%	3%	1	2
2R4	TW A	TAXIWAY A	TAXIWAY	510	39,191	AC	62	Fair	100%	0%	0%	1	8
2R4	TW B	TAXIWAY B	TAXIWAY	205	104,968	AC	62	Fair	100%	0%	0%	4	21
2R4	TW B	TAXIWAY B	TAXIWAY	210	8,970	AC	46	Poor	96%	0%	4%	1	2
2R4	TW B	TAXIWAY B	TAXIWAY	215	9,340	AC	57	Fair	100%	0%	0%	1	2
2R4	TW B	TAXIWAY B	TAXIWAY	250	8,550	AC	100	Good	0%	0%	0%	0	2
2R4	TW C	TAXIWAY C	TAXIWAY	305	11,689	AC	57	Fair	100%	0%	0%	1	2
2R4	TW D	TAXIWAY D	TAXIWAY	405	7,141	AAC	56	Fair	100%	0%	0%	1	2
2R4	TW D	TAXIWAY D	TAXIWAY	410	3,148	AAC	50	Poor	100%	0%	0%	1	1
2R4	TW HANG	TAXIWAY TO HANGAR	TAXIWAY	605	70,365	AC	94	Good	100%	0%	0%	3	18

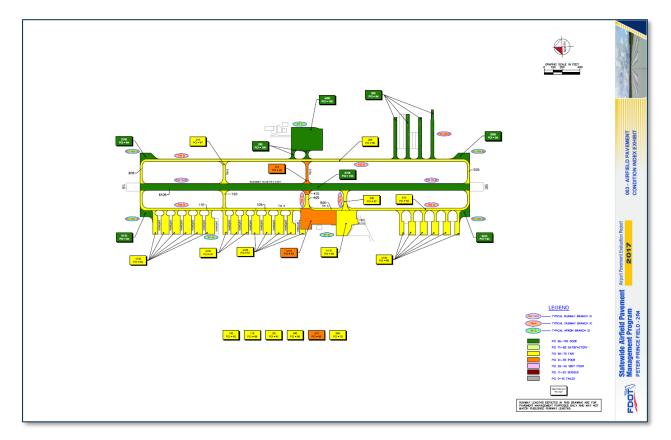
Airport Pavement

**Evaluation Report** 



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

Figure 4.1.3 2017 Airfield Pavement Condition Index Exhibit







# 4.2 Summary of Pavement Condition Evaluation Results

#### 4.2.1 Network-Level Observations

Airport Pavement

The field PCI Survey performed at Peter Prince Field (2R4) was started and completed on 03/21/2017. The resulting overall average area-weighted PCI value was 75 representing a condition rating of Satisfactory. Peter Prince Field is served solely by Runway 18-36 which is 75-ft wide and 3,701-ft long. Runway 18-36 was not inspected due to its recent construction and was given a PCI value of 100, a condition rating of Good.

Based on the FAA 5010 Report as of 07/25/2017 the Airport has reported 93,950 operations for 12 months ending 03/09/2016.

#### 4.2.2 Branch-Level Observations

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

#### Taxiway A

Taxiway A consists of 5 sections constructed of AC. The last construction years range from 1992 to 2007. The average area-weighted PCI for Taxiway A is 61 representing a Fair condition rating. The pavement distresses observed were related to Climate and Other distress classifications. Distresses observed in Taxiway A consist of Depression, Longitudinal & Transverse Cracking, Patching, and Raveling.

#### Taxiway B

Taxiway B consists of 4 sections constructed of AC. The last construction years range from 1992 to 2015. The average area-weighted PCI for Taxiway B is 63 representing a Fair condition rating. The pavement distresses observed were related to Climate and Other distress classifications. Distresses observed in Taxiway B consist of Depression, Longitudinal & Transverse Cracking, Patching, Raveling, and Swelling.

#### Apron West

Apron West consists of 6 sections constructed of AC and AAC. The last construction years range from 1992 to 2007. The average area-weighted PCI for Apron West is 60 representing a Fair condition rating. The pavement distresses observed were related to Climate and Other distress classifications. Distresses observed in Apron West consist of Depression, Longitudinal & Transverse Cracking, Oil Spillage, Patching, Raveling, and Weathering.

Figure 4.2.2 Pavement Condition Summary by Facility Use

Facility Use	Average Area-Weighted PCI	Condition Rating
Runway	100	Good
Taxiway	68	Fair
Apron	68	Fair



#### 4.3 Forecasted Pavement Conditions

#### 4.3.1 Performance Models and Prediction Curves

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

#### 4.3.2 Branch-Level Pavement Condition Forecast

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

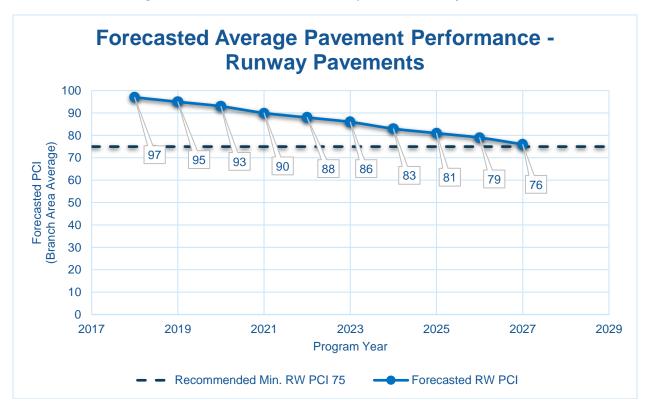


Figure 4.3.2 (a) Forecasted Runway Pavement Performance



Figure 4.3.2 (b) Forecasted Taxiway Pavement Performance

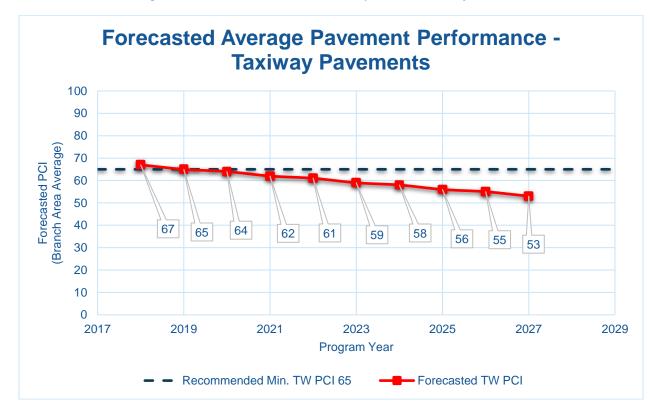
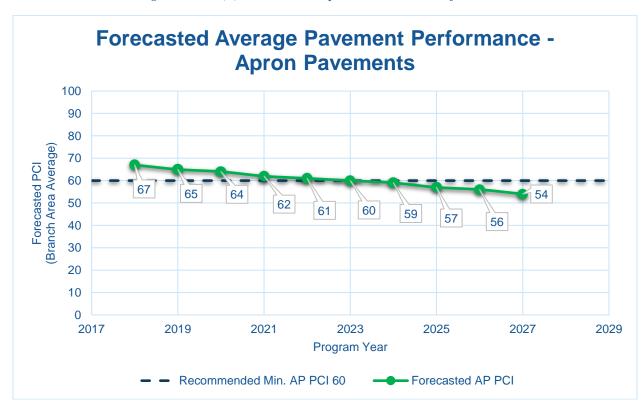


Figure 4.3.2 (c) Forecasted Apron Pavement Performance







#### 4.3.3 Section-Level Pavement Condition Forecast

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





Table 4.3.3 Forecasted PCI 2018-2027

Natural ID	Duranah ID	Cardian ID	L ( DOI					Forecas	sted PCI				
Network ID	Branch ID	Section ID	Last PCI	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
2R4	AP E	4205	100	95	94	92	90	89	87	86	84	82	81
2R4	AP W	4105	57	55	54	52	50	49	47	46	44	43	41
2R4	AP W	4110	54	53	52	52	52	52	52	52	51	50	48
2R4	AP W	4115	59	57	55	54	53	52	52	52	52	52	52
2R4	AP W	4120	61	59	58	56	54	53	51	50	48	47	45
2R4	AP W	4125	62	60	59	57	55	54	52	51	49	48	46
2R4	AP W	4130	68	66	65	63	61	60	58	57	55	54	52
2R4	RU RW 18	5105	94	92	91	89	87	86	84	83	81	80	78
2R4	RU RW 18	5110	94	92	91	89	87	86	84	83	81	80	78
2R4	RU RW 36	5205	94	92	91	89	87	86	84	83	81	80	78
2R4	RU RW 36	5210	94	92	91	89	87	86	84	83	81	80	78
2R4	RW 18-36	6105	100	97	95	93	90	88	86	83	81	79	76
2R4	TW A	105	62	61	60	59	58	56	55	54	52	51	49
2R4	TW A	115	59	58	56	55	54	52	51	49	48	46	44
2R4	TW A	120	61	60	59	57	56	55	54	52	51	49	47
2R4	TW A	500	70	69	68	67	66	65	64	63	62	61	61
2R4	TW A	510	62	61	60	59	58	56	55	54	52	51	49
2R4	TW B	205	62	61	60	59	58	56	55	54	52	51	49
2R4	TW B	210	46	44	43	41	39	38	37	35	34	33	32
2R4	TW B	215	57	55	54	53	51	50	48	46	45	43	42
2R4	TW B	250	100	93	91	88	86	83	81	79	77	75	73
2R4	TW C	305	57	55	54	53	51	50	48	46	45	43	42
2R4	TW D	405	56	54	52	51	49	48	47	46	45	44	44
2R4	TW D	410	50	48	47	46	45	44	44	43	43	43	43
2R4	TW HANG	605	94	92	89	86	84	82	80	78	76	74	72





#### 4.3.4 Forecasted PCI Considerations

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



# **Chapter 5**



# **Chapter 5 – Localized Maintenance and Repair Planning**

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

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

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

### 5.1 Localized Maintenance and Repair

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

### Localized Stopgap/Safety Maintenance and Repair

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

#### Localized Preventive Maintenance and Repair

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





## 5.2 Localized Maintenance and Repair Policy

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

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

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

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





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

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

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





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

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

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

<sup>\*</sup>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	Plann	ing Material Cost
FDOT - SURFACE SEAL	PREVENTIVE	31,880	SqFt	\$	17,540.00
FDOT - PATCHING - AC PARTIAL DEPTH	PREVENTIVE	15	SqFt	\$	40.00
FDOT - PATCHING - AC FULL DEPTH	PREVENTIVE	45	SqFt	\$	250.00
FDOT - PATCHING - AC PARTIAL DEPTH	STOPGAP	73,195	SqFt	\$	219,590.00
FDOT - SURFACE SEAL	STOPGAP	539,505	SqFt	\$	296,730.00
FDOT - CRACK SEALING - AC	STOPGAP	5,425	Ft	\$	16,280.00
FDOT - PATCHING - AC FULL DEPTH	STOPGAP	200	SqFt	\$	1,180.00



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
2R4	AP E	4205	88,496	100	100	\$ -
2R4	AP W	4105	89,498	57	76	\$ 90,510.00
2R4	AP W	4110	72,218	54	71	\$ 60,060.00
2R4	AP W	4115	55,812	59	72	\$ 40,840.00
2R4	AP W	4120	50,545	61	77	\$ 47,490.00
2R4	AP W	4125	117,425	62	75	\$ 119,400.00
2R4	AP W	4130	88,086	68	76	\$ 12,920.00
2R4	RU RW 18	5105	11,805	94	94	\$ -
2R4	RU RW 18	5110	11,199	94	94	\$ -
2R4	RU RW 36	5205	12,428	94	94	\$ -
2R4	RU RW 36	5210	10,237	94	94	\$ -
2R4	RW 18-36	6105	277,500	100	100	\$ -
2R4	TW A	105	12,759	62	78	\$ 9,880.00
2R4	TW A	115	38,153	59	72	\$ 26,120.00
2R4	TW A	120	6,724	61	66	\$ 2,000.00
2R4	TW A	500	9,348	70	98	\$ 4,910.00
2R4	TW A	510	39,191	62	77	\$ 36,930.00
2R4	TW B	205	104,968	62	83	\$ 62,330.00
2R4	TW B	210	8,970	46	76	\$ 10,130.00
2R4	TW B	215	9,340	57	78	\$ 7,970.00
2R4	TW B	250	8,550	100	100	\$ -
2R4	TW C	305	11,689	57	76	\$ 12,050.00
2R4	TW D	405	7,141	56	76	\$ 7,230.00
2R4	TW D	410	3,148	50	65	\$ 1,020.00
2R4	TW HANG	605	70,365	94	94	\$ -





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	\$ 17,830.00
Stopgap	\$ 533,780.00
Planning-Level Localized M&R Needs =	\$ 551,610.00





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### Chapter 6 – Major Rehabilitation **Planning**

#### 6.1 Major Rehabilitation

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

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

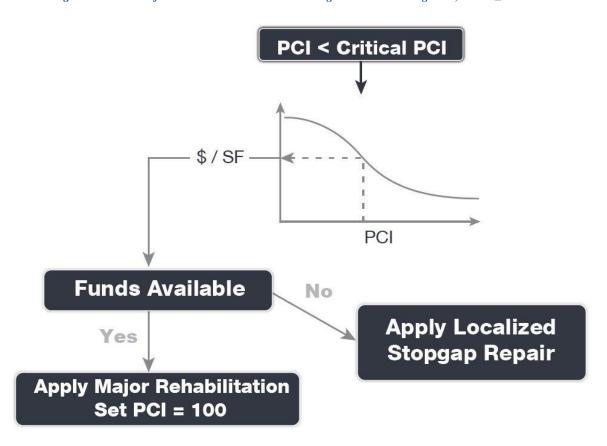
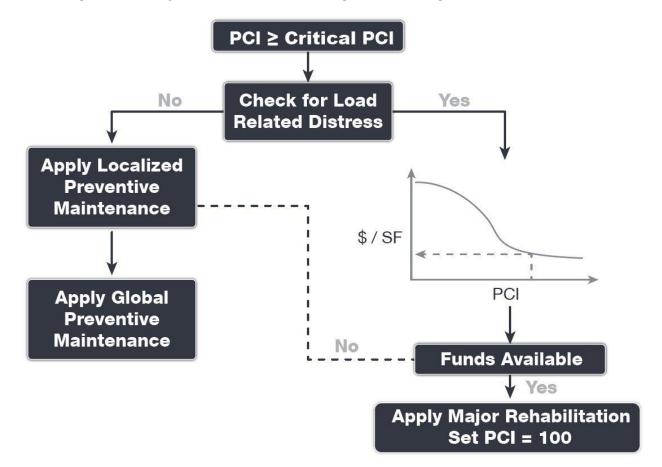






Figure 6.1-2 Major Rehabilitation Planning Decision Diagram, PCI > Critical PCI





#### 6.1.1 Critical PCI

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

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

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

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

#### 6.1.2 FDOT Recommended Minimum Service-Level PCI

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

Table 6.1.2 FDOT Recommended Minimum Service-Level PCI

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





#### 6.2 Major Rehabilitation Policy

#### 6.2.1 Major Rehabilitation Pavement Section Development

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

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

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

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





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

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

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

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

#### 6.2.2 Major Rehabilitation Planning-Level Unit Costs

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

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

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

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

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

#### 6.3 Major Rehabilitation Needs

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

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

#### 6.3.1 10-Year Unconstrained Budget Major Rehabilitation Needs

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



Table 6.3.1 10-Year Major Rehabilitation Needs

Program Year	Network ID	Branch ID	Section ID	Surface	Area (SF)	PCI Before	Rehabilitation Type	Planning Cost
2018	2R4	AP W	4105	AC	89,498	55	AC Restoration	\$ 627,000.00
2018	2R4	AP W	4110	AAC	72,218	53	AC Restoration	\$ 506,000.00
2018	2R4	AP W	4115	AAC	55,812	57	AC Restoration	\$ 391,000.00
2018	2R4	AP W	4120	AC	50,545	59	AC Restoration	\$ 354,000.00
2018	2R4	AP W	4125	AC	117,425	60	AC Restoration	\$ 823,000.00
2018	2R4	TW A	105	AC	12,759	61	AC Restoration	\$ 90,000.00
2018	2R4	TW A	115	AC	38,153	58	AC Restoration	\$ 268,000.00
2018	2R4	TW A	120	AC	6,724	60	AC Restoration	\$ 48,000.00
2018	2R4	TW A	510	AC	39,191	61	AC Restoration	\$ 275,000.00
2018	2R4	TW B	205	AC	104,968	61	AC Restoration	\$ 735,000.00
2018	2R4	TW B	210	AC	8,970	44	AC Restoration	\$ 73,000.00
2018	2R4	TW B	215	AC	9,340	55	AC Restoration	\$ 66,000.00
2018	2R4	TW C	305	AC	11,689	55	AC Restoration	\$ 82,000.00
2018	2R4	TW D	405	AAC	7,141	54	AC Restoration	\$ 50,000.00
2018	2R4	TW D	410	AAC	3,148	48	AC Restoration	\$ 23,000.00
2020	2R4	AP W	4130	AC	88,086	63	AC Restoration	\$ 617,000.00
2023	2R4	TW A	500	AC	9,348	64	AC Restoration	\$ 66,000.00

<sup>\*</sup>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.

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

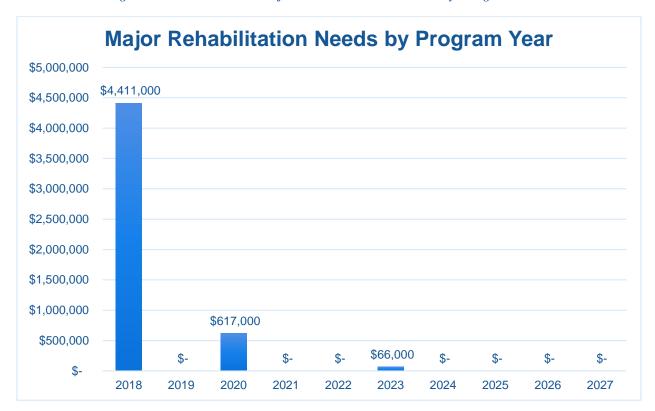
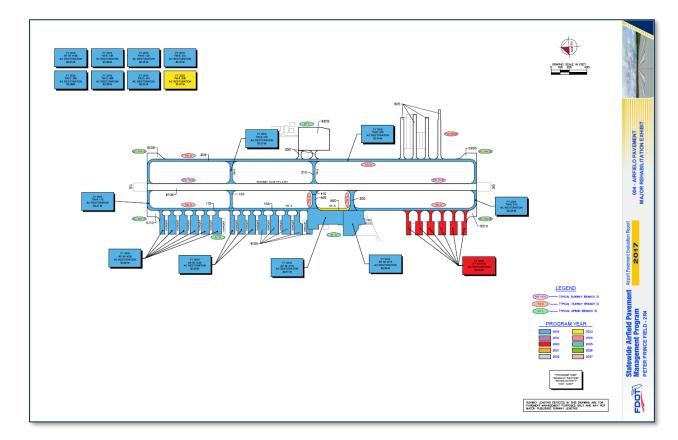






Figure 6.3.1-2 10-Year Major Rehabilitation Needs by Program Year Exhibit





## **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** 

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2017

Peter Prince Field (2R4)





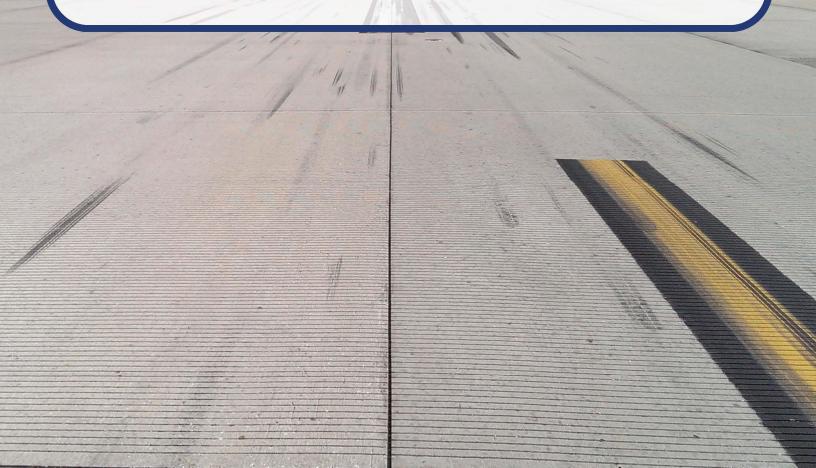
#### 7.3 Conclusion

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
2R4	APRON EAST	AP E	APRON	4205	350	235	88,496	AC	4/1/2015
2R4	APRON WEST	AP W	APRON	4105	300	267	89,498	AC	1/1/1992
2R4	APRON WEST	AP W	APRON	4110	400	150	72,218	AAC	1/1/2000
2R4	APRON WEST	AP W	APRON	4115	250	150	55,812	AAC	1/1/2000
2R4	APRON WEST	AP W	APRON	4120	210	267	50,545	AC	1/1/1995
2R4	APRON WEST	AP W	APRON	4125	440	267	117,425	AC	1/1/1996
2R4	APRON WEST	AP W	APRON	4130	275	275	88,086	AC	1/1/2007
2R4	RUN-UP RUNWAY 18	RU RW 18	APRON	5105	150	50	11,805	AC	1/1/2011
2R4	RUN-UP RUNWAY 18	RU RW 18	APRON	5110	150	50	11,199	AC	1/1/2011
2R4	RUN-UP RUNWAY 36	RU RW 36	APRON	5205	160	50	12,428	AC	1/1/2011
2R4	RUN-UP RUNWAY 36	RU RW 36	APRON	5210	200	50	10,237	AC	1/1/2011
2R4	RUNWAY 18-36	RW 18-36	RUNWAY	6105	3700	75	277,500	AAC	9/1/2016
2R4	TAXIWAY A	TW A	TAXIWAY	105	500	25	12,759	AC	1/1/1992
2R4	TAXIWAY A	TW A	TAXIWAY	115	1300	25	38,153	AC	1/1/1995
2R4	TAXIWAY A	TW A	TAXIWAY	120	200	25	6,724	AC	1/1/1996
2R4	TAXIWAY A	TW A	TAXIWAY	500	380	25	9,348	AC	1/1/2007
2R4	TAXIWAY A	TW A	TAXIWAY	510	1518	25	39,191	AC	1/1/2001
2R4	TAXIWAY B	TW B	TAXIWAY	205	4200	25	104,968	AC	1/1/1992
2R4	TAXIWAY B	TW B	TAXIWAY	210	250	25	8,970	AC	1/1/1992
2R4	TAXIWAY B	TW B	TAXIWAY	215	250	25	9,340	AC	1/1/1996
2R4	TAXIWAY B	TW B	TAXIWAY	250	120	35	8,550	AC	4/1/2015
2R4	TAXIWAY C	TW C	TAXIWAY	305	250	40	11,689	AC	1/1/1968
2R4	TAXIWAY D	TW D	TAXIWAY	405	160	40	7,141	AAC	1/1/1992
2R4	TAXIWAY D	TW D	TAXIWAY	410	40	40	3,148	AAC	1/1/1992
2R4	TAXIWAY TO HANGAR	TW HANG	TAXIWAY	605	400	35	70,365	AC	8/1/2013





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

Network ID	Branch Name	Branch Use	Section ID	Area (SF)	PCI	Condition Rating
2R4	RUNWAY 18-36	RUNWAY	6105	277,500	100	Good
2R4	TAXIWAY A	TAXIWAY	105	12,759	62	Fair
2R4	TAXIWAY A	TAXIWAY	115	38,153	59	Fair
2R4	TAXIWAY A	TAXIWAY	120	6,724	61	Fair
2R4	TAXIWAY A	TAXIWAY	500	9,348	70	Fair
2R4	TAXIWAY A	TAXIWAY	510	39,191	62	Fair
2R4	TAXIWAY B	TAXIWAY	205	104,968	62	Fair
2R4	TAXIWAY B	TAXIWAY	210	8,970	46	Poor
2R4	TAXIWAY B	TAXIWAY	215	9,340	57	Fair
2R4	TAXIWAY B	TAXIWAY	250	8,550	100	Good
2R4	R4 TAXIWAY C TAXIWAY		305	11,689	57	Fair
2R4	TAXIWAY D	TAXIWAY	405	7,141	56	Fair
2R4	TAXIWAY D	TAXIWAY	410	3,148	50	Poor
2R4	TAXIWAY TO HANGAR	TAXIWAY	605	70,365	94	Good
2R4	APRON WEST	APRON	4105	89,498	57	Fair
2R4	APRON WEST	APRON	4110	72,218	54	Poor
2R4	APRON WEST	APRON	4115	55,812	59	Fair
2R4	APRON WEST	APRON	4120	50,545	61	Fair
2R4	APRON WEST	APRON	4125	117,425	62	Fair
2R4	APRON WEST	APRON	4130	88,086	68	Fair
2R4	APRON EAST	APRON	4205	88,496	100	Good
2R4	RUN-UP RUNWAY 18	APRON	5105	11,805	94	Good
2R4	RUN-UP RUNWAY 18	APRON	5110	11,199	94	Good
2R4	RUN-UP RUNWAY 36	APRON	5205	12,428	94	Good
2R4	RUN-UP RUNWAY 36	APRON	5210	10,237	94	Good



Table A-3 Forecasted PCI 2018-2027

Notwork ID	Propob ID	Section ID	Loct BCI				ļ	Forecas	ted PC	l			
Network ID	Branch ID	Section ID	Last PCI	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
2R4	AP E	4205	100	95	94	92	90	89	87	86	84	82	81
2R4	AP W	4105	57	55	54	52	50	49	47	46	44	43	41
2R4	AP W	4110	54	53	52	52	52	52	52	52	51	50	48
2R4	AP W	4115	59	57	55	54	53	52	52	52	52	52	52
2R4	AP W	4120	61	59	58	56	54	53	51	50	48	47	45
2R4	AP W	4125	62	60	59	57	55	54	52	51	49	48	46
2R4	AP W	4130	68	66	65	63	61	60	58	57	55	54	52
2R4	RU RW 18	5105	94	92	91	89	87	86	84	83	81	80	78
2R4	RU RW 18	5110	94	92	91	89	87	86	84	83	81	80	78
2R4	RU RW 36	5205	94	92	91	89	87	86	84	83	81	80	78
2R4	RU RW 36	5210	94	92	91	89	87	86	84	83	81	80	78
2R4	RW 18-36	6105	100	97	95	93	90	88	86	83	81	79	76
2R4	TW A	105	62	61	60	59	58	56	55	54	52	51	49
2R4	TW A	115	59	58	56	55	54	52	51	49	48	46	44
2R4	TW A	120	61	60	59	57	56	55	54	52	51	49	47
2R4	TW A	500	70	69	68	67	66	65	64	63	62	61	61
2R4	TW A	510	62	61	60	59	58	56	55	54	52	51	49
2R4	TW B	205	62	61	60	59	58	56	55	54	52	51	49
2R4	TW B	210	46	44	43	41	39	38	37	35	34	33	32
2R4	TW B	215	57	55	54	53	51	50	48	46	45	43	42
2R4	TW B	250	100	93	91	88	86	83	81	79	77	75	73
2R4	TW C	305	57	55	54	53	51	50	48	46	45	43	42
2R4	TW D	405	56	54	52	51	49	48	47	46	45	44	44
2R4	TW D	410	50	48	47	46	45	44	44	43	43	43	43
2R4	TW HANG	605	94	92	89	86	84	82	80	78	76	74	72

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Pavement Database: FDOT

Network:	PETER PR	RINCE FIE	Branch: APE	APRO	N EAST	Section:	4205	Surface: AC
<b>L.C.D.:</b> 4/1/2	015 Us	se: APRON	Rank: P L	ength: 350	.00 (Ft) <b>Wi</b>	dth: 235.	00 (Ft) True Area:	88,496.00 (SqFt)
Work Date	Work Code	Work	Description	Cost	Thickness (in)	Major M&R	Comm	ents
4/1/2015	CR-AC	Complete Re	construction - AC	0.00	0.00	<b>V</b>	2" P-401, 6" P-211, 12	2" P-152
1/1/1998	IMPORT ED	REPAIR		0.00	0.00		EST 1998 COAL TAI SEAL SURFACE TR	
1/1/1992	IMPORT	BUILT		0.00	0.00	<b>&gt;</b>	1992 AC PAVEMEN	
	ED			' 				
Network:	PETER PR	RINCE FIE	Branch: AP W	APRO	N WEST	Section:	4105	Surface: AC
<b>L.C.D.:</b> 1/1/1	992 Us	se: APRON	Rank: P L	ength: 300	.00 (Ft) <b>Wi</b>	dth: 267.	00 (Ft) True Area:	89,498.00 (SqFt)
Work Date	Work Code	Work	Description	Cost	Thickness (in)	Major M&R	Comm	nents
1/1/1992		OVERLAY		0.00	0.00	WICK	SOIL: SP	
1 /1 /1 002	ED	   D.Y. W. M.		l	2.00		1002 211 1 2 037 511 2	137D (GY 137
1/1/1992	IMPORT ED	BUILT		0.00	3.00	<b>&gt;</b>	1992: 3" AC ON 6" S BASE	AND/CLAY
Network:	PETER PR	RINCE FIE	<b>Branch:</b> AP W	APRO	N WEST	Section:	4110	Surface: AAC
<b>L.C.D.:</b> 1/1/2	000 Us	se: APRON	Rank: P L	ength: 400	.00 (Ft) <b>Wi</b>	dth: 150.	00 (Ft) True Area:	72,218.00 (SqFt)
Work Date	Work Code	Work	Description	Cost	Thickness (in)	Major M&R	Comm	ents
1/1/2000	ML-OV	MILL and O'	VERLAY	0.00	0.00	<b>V</b>	Construction year ver	fication pending
1/1/1970	IMPORT	BUILT		0.00	0.00	<b>&gt;</b>	ESTIMATE 1970 AC	PAVEMENT
1/1/1970		OVERLAY		0.00	0.00	<b>&gt;</b>	SOIL: SP	
	ED			•				
Network:	PETER PR	RINCE FIE	Branch: AP W	APRO	N WEST	Section:	4115	Surface: AAC
<b>L.C.D.:</b> 1/1/2	000 Us	se: APRON	Rank: P L	ength: 250	.00 (Ft) <b>Wi</b>	dth: 150.	00 (Ft) True Area:	55,812.00 (SqFt)
Work Date	Work Code	Work	Description	Cost	Thickness (in)	Major M&R	Comm	ents
1/1/2000		MILL and O'	VERLAY	0.00	0.00	<b>V</b>		
1/1/1968	IMPORT ED	BUILT		0.00	1.00		1968 1" AC ON 6" SA	AND-CLAY BASE
Network:	PETER PR	RINCE FIE	Branch: AP W	APRO	N WEST	Section:	4120	Surface: AC
<b>L.C.D.:</b> 1/1/1	995 Us	se: APRON	Rank: P L	ength: 210	.00 (Ft) <b>Wi</b>	dth: 267.	00 (Ft) True Area:	50,545.00 (SqFt)
Work Date	Work Code	Work	Description	Cost	Thickness (in)	Major M&R	Comm	ents
1/1/1995	IMPORT	BUILT		0.00	3.00	<b>V</b>	1995 3" P401 ON 6"	P213
	ED			1				
Network:	PETER PR	RINCE FIE	Branch: AP W	APRO	N WEST	Section:	4125	Surface: AC
<b>L.C.D.:</b> 1/1/1	996 Us	se: APRON					00 (Ft) True Area:	117,425.00 (SqFt)
Work Date	Work Code		Description	Cost	Thickness (in)	Major M&R	Comm	, , ,
1/1/1996	IMPORT ED	BUILT		0.00	0.00	Wax V	1996 AC PAVEMEN	T
	LD							

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Pavement Database: FDOT

		raven	teni Daiabase:	FD01				
Network:	PETER PR	RINCE FIE	Branch: AP W	APRO	N WEST	Section:	4130	Surface: AC
<b>L.C.D.:</b> 1/1/2	007 Us	se: APRON	Rank: P L	ength: 275	.00 (Ft) <b>Wi</b> o	dth: 275.0	00 (Ft) <b>True</b> A	Area: 88,086.00 (SqFt)
Work Date	Work Code	Work 1	Description	Cost	Thickness (in)	Major M&R		Comments
1/1/2007	NC-AC	New Construc	ction - AC	0.00	2.00	<b>V</b>		
Network:	PETER PR	RINCE FIE	Branch: RU RW	/ 18 RUN-1	UP RUNWA	Section:	5105	Surface: AC
L.C.D.: 1/1/2		se: APRON					00 (Ft) <b>True</b> A	
Work Date	Work Code	Work	Description	Cost	Thickness (in)	Major M&R		Comments
1/1/2011	NU-IN	New Construc	ction - Initial	0.00	0.00			
N	DETER DE	ADJOE EIE	B I BWBW	vio DINI	ID DIDIUM	g	5110	G . 0 . 1 G
Network: L.C.D.: 1/1/2		Se: APRON	Branch: RU RW Rank: P L		UP RUNWA .00 (Ft) <b>Wi</b> o	Section: dth: 50.0	5110 00 (Ft) <b>True</b> A	<b>Surface:</b> AC <b>Area:</b> 11,199.00 (SqFt)
	Work			_	Thickness	Major		
Work Date 1/1/2011	Code NU-IN	New Construc	Description	Cost 0.00	(in) 0.00	M&R ✓		Comments
1/1/2011	NU-IIV	New Constitut	Zuon - muai	0.00	0.00	<b>V</b> .		
Network:	PETER PR	RINCE FIE	Branch: RU RW	/ 36 RUN-1	UP RUNWA	Section:	5205	Surface: AC
<b>L.C.D.:</b> 1/1/2	011 Us	se: APRON	Rank: P L	ength: 160	.00 (Ft) <b>Wi</b>	dth: 50.0	00 (Ft) <b>True</b> A	Area: 12,428.00 (SqFt)
Work Date	Work Code	Work 1	Description	Cost	Thickness (in)	Major M&R		Comments
1/1/2011	NU-IN	New Construc	ction - Initial	0.00	0.00			
Nedersele	DETED DE	INCE EIE	D L. DU DU	126 DIINI	ID DI INIWA	G - 4	5210	San Carrier A.C.
Network: L.C.D.: 1/1/2		se: APRON	Branch: RU RW Rank: P L		UP RUNWA .00 (Ft) <b>Wi</b> o	Section: dth: 50.0	5210 00 (Ft) <b>True</b> A	<b>Surface:</b> AC <b>Area:</b> 10,237.00 (SqFt)
	Work			8	Thickness	Major		, , , ,
Work Date 1/1/2011	Code NU-IN	New Construc	Description Initial	Cost 0.00	(in) 0.00	M&R ✓		Comments
1/1/2011	NO-IIV	New Collstia	Zuon - muai	0.00	0.00	<b>V</b> .		
Network:	PETER PR	RINCE FIE	Branch: RW 18	-36 RUNV	VAY 18-36	Section:	6105	Surface: AAC
<b>L.C.D.:</b> 9/1/2	016 Us	se: RUNWAY	Rank: P L	<b>ength:</b> 3,700	.00 (Ft) <b>Wi</b>	dth: 75.0	00 (Ft) <b>True</b> A	Area: 277,500.00 (SqFt)
Work Date	Work Code	Work 1	Description	Cost	Thickness (in)	Major M&R		Comments
9/1/2016		MILL and OV	ERLAY	0.00	0.00			3" P-401 OVERLAY
1/1/1992	IMPORT ED	OVERLAY		0.00	1.00		1992: 1" - 4.64	" AC OVERLAY
1/1/1992	IMPORT ED	OVERLAY		0.00	0.00		SOIL: SP	
1/1/1968	IMPORT ED	BUILT		0.00	1.00		1968: 1" AC O SAND/CLAY	N 6" COMPACTED
	1							
Network:			Branch: TW A		WAY A	Section:		Surface: AC
L.C.D.: 1/1/1	992 Us Work	se: TAXIWAY		8	.00 (Ft) Wie	dth: 25.0 Major	00 (Ft) <b>True</b> A	
Work Date	Code		Description	Cost	(in)	M&R		Comments
1/1/1992	IMPORT ED	BUILT		0.00	3.00		1992: 3" AC O BASE	N 6" SAND/CLAY
1/1/1000	I II IDORT	OVEDI AV		0.00	0.00		an mon	

Pavement Management System PAVER 7.0 TM

0.00

0.00

**V** 

SOIL: SP

IMPORT OVERLAY ED

1/1/1992

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Pavement Database: FDOT

Network:	PETER PF	RINCE FIE	Branch: TW A	TAXIV	WAY A	Section:	115	Surface: AC
<b>L.C.D.:</b> 1/1/1	995 Us	se: TAXIWAY	Rank: P L	ength: 1,300	.00 (Ft) <b>Wi</b>	dth: 25.	00 (Ft) True Area:	38,153.00 (SqFt)
Work Date	Work	Work I	Description	Cost	Thickness	Major	Comi	nents
1/1/1995	Code IMPORT	BUILT	*	0.00	(in) 0.00	M&R	1995 AC PAVEMEN	NT
	ED			l				
- 10011101111		RINCE FIE	Branch: TW A		WAY A	Section:		Surface: AC
<b>L.C.D.:</b> 1/1/1	Work	se: TAXIWAY	Rank: P L	ength: 200	.00 (Ft) Wi	Major	00 (Ft) True Area:	6,724.00 (SqFt)
Work Date	Code	Work D	Description	Cost	(in)	M&R	Com	nents
1/1/1996	IMPORT ED	BUILT		0.00	0.00	<b>V</b>	1996 AC PAVEMEN	NT
	LD							
Network:	PETER PR	RINCE FIE	Branch: TW A	TAXI	WAY A	Section:	500	Surface: AC
<b>L.C.D.:</b> 1/1/2	007 Us	se: TAXIWAY	Rank: P L	ength: 380	.00 (Ft) <b>Wi</b>	dth: 25.	00 (Ft) True Area:	9,348.00 (SqFt)
Work Date	Work Code	Work D	Description	Cost	Thickness (in)	Major M&R	Comi	nents
1/1/2007		New Construct	tion - AC	0.00	2.00	WI&K		
	<u> </u>							
Network:	PETER PF	RINCE FIE	Branch: TW A	TAXIV	WAY A	Section:	510	Surface: AC
<b>L.C.D.:</b> 1/1/2	001 Us	se: TAXIWAY	Rank: P L	ength: 1,518	.00 (Ft) <b>Wi</b>	dth: 25.	00 (Ft) True Area:	39,191.00 (SqFt)
Work Date	Work Code	Work I	Description	Cost	Thickness (in)	Major M&R	Comr	nents
1/1/2001	NC-AC	New Construct	tion - AC	0.00	3.00	WICK		
	l							
Network:	PETER PR	RINCE FIE	<b>Branch:</b> TW B	TAXI	WAY B	Section:	205	Surface: AC
<b>L.C.D.:</b> 1/1/1	992 Us	se: TAXIWAY	Rank: P L	ength: 4,200	.00 (Ft) <b>Wi</b>	dth: 25.	00 (Ft) True Area:	104,968.00 (SqFt)
Work Date	Work Code	Work D	Description	Cost	Thickness (in)	Major M&R	Com	nents
1/1/1992	IMPORT	BUILT		0.00	3.00	<b>₩</b>	1992: 3" AC ON 6"	SAND/CLAY
	ED						BASE	
Network.	PETER PR	RINCE FIE	Branch: TW B	TAXI	WAY B	Section:	210	Surface: AC
							00 (Ft) True Area:	
Work Date	Work		Description	Cost	Thickness	Major	Com	
	Code		escription		(in)	M&R		nents
1/1/1992	ED	OVERLAY		0.00	0.00		SOIL: SP	
1/1/1992	IMPORT ED	BUILT		0.00	3.00	<b>V</b>	1992: 3" AC ON 6" : BASE	SAND/CLAY
	ED						DASE	
Network:	PETER PR	RINCE FIE	Branch: TW B	TAXI	WAY B	Section:	215	Surface: AC
<b>L.C.D.:</b> 1/1/1	996 Us	se: TAXIWAY	Rank: P L	ength: 250	.00 (Ft) <b>Wi</b>	dth: 25.	00 (Ft) True Area:	9,340.00 (SqFt)
Work Date	Work	Work D	Description	Cost	Thickness	Major	Comi	nents
1/1/1996	Code IMPORT			0.00	(in) 0.00	M&R ✓	1996 AC PAVEMEN	
	ED			I 0.30	0.50			
					<u> </u>		·	

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Pavement Database: FDOT

Network: PETER PRINCE FIE			Branch: TW B	TAXIV	WAY B	Section:	250	Surface: AC
<b>L.C.D.:</b> 4/1/2	015 Us	se: TAXIWAY	Rank: P L	ength: 120	.00 (Ft) <b>Wi</b>	dth: 35.0	00 (Ft) True Area:	8,550.00 (SqFt)
Work Date   Work   Work I		Work Do	escription	Cost	Thickness (in)	Major M&R	Comm	nents
4/1/2015	CR-AC	Complete Reco	nstruction - AC	0.00	0.00	<b>V</b>	2" P-401, 6" P-211, 1	12" P-152
1/1/1992	IMPORT ED	BUILT		0.00	0.00	>	1992 AC PAVEMEN	NT

**Network: PETER PRINCE FIE** Branch: TW C TAXIWAY C Section: 305 Surface: AC L.C.D.: 1/1/1968 Use: TAXIWAY Rank: P Length: 250.00 (Ft) Width: 40.00 (Ft) **True Area:** 11,689.00 (SqFt) Work Thickness Major **Work Date Work Description** Cost **Comments** Code M&R (in) IMPORT OVERLAY 1/1/1968 0.00 0.00 SOIL: SP V ED IMPORT BUILT 1/1/1968 0.00 1.00 ~ 1968: 1" AC ON 6" SAND-CLAY ED **BASE** 

**Network: PETER PRINCE FIE** Branch: TW D TAXIWAY D Section: 405 Surface: AAC **L.C.D.:** 1/1/1992 Use: TAXIWAY Rank: P Length: 160.00 (Ft) Width: 40.00 (Ft) **True Area:** 7,141.00 (SqFt) Work Thickness Major **Work Date Work Description** Cost **Comments** Code (in) M&R 1/1/1992 ML-OV MILL and OVERLAY 0.00 0.00 V IMPORT BUILT 1/1/1970 0.00 0.00 V ESTIMATE 1970 AC PAVEMENT ED 1/1/1970 IMPORT OVERLAY 0.00 SOIL: SP 0.00 ightharpoonsED

Network: PETER PRINCE FIE Branch: TW D TAXIWAY D Section: 410 Surface: AAC **L.C.D.:** 1/1/1992 Use: TAXIWAY Rank: P Length: 40.00 (Ft) Width: 40.00 (Ft) **True Area:** 3,148.00 (SqFt) Work Thickness Major **Work Date Work Description** Cost Comments Code M&R (in) IMPORT OVERLAY 1/1/1992 0.00 0.00 1992 FEATHERED P401 AC **OVERLAY** ED 1970 2" P401 ON 6" P213 1/1/1970 IMPORT BUILT 0.00 2.00 ED

Network: PETER PRINCE FIE Branch: TW HANG TAXIWAY TO H Section: 605 Surface: AC **L.C.D.:** 8/1/2013 Use: TAXIWAY Rank: P Length: 400.00 (Ft) Width: 35.00 (Ft) **True Area:** 70,365.00 (SqFt) Major Work Thickness **Work Date Work Description** Cost **Comments** Code (in) M&R 8/1/2013 NU-IN New Construction - Initial 0.00 0.00 2" P-401 Bitum. Surface, 6" P-211 Lime 

Page 5 of 5

Pavement Database: FDOT

#### **Summary:**

Work Description	Section Count	Area Total (SqFt)	Thickness Avg (in)	Thickness STD (in)
BUILT	17	962,936.00	1.18	1.29
Complete Reconstruction - AC	2	97,046.00	0.00	0.00
MILL and OVERLAY	4	412,671.00	0.00	0.00
New Construction - AC	3	136,625.00	2.33	0.47
New Construction - Initial	5	116,034.00	0.00	0.00
OVERLAY	9	760,423.00	0.11	0.31
REPAIR	1	88,496.00	0.00	0.00

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 E	1	350.00	235.00	88,496.00	APRON	100.00	0.00	100.00
AP W	6	1,875.00	229.33	473,584.00	APRON	60.17	4.37	60.49
RU RW 18	2	300.00	50.00	23,004.00	APRON	94.00	0.00	94.00
RU RW 36	2	360.00	50.00	22,665.00	APRON	94.00	0.00	94.00
RW 18-36	1	3,700.00	75.00	277,500.00	RUNWAY	100.00	0.00	100.00
TW A	5	3,898.00	25.00	106,175.00	TAXIWAY	62.80	3.76	61.56
TW B	4	4,820.00	27.50	131,828.00	TAXIWAY	66.25	20.33	63.02
TW C	1	250.00	40.00	11,689.00	TAXIWAY	57.00	0.00	57.00
TW D	2	200.00	40.00	10,289.00	TAXIWAY	53.00	3.00	54.16
TW HANG	1	400.00	35.00	70,365.00	TAXIWAY	94.00	0.00	94.00

Page 1 of 2

7/26/2017	Branch Condition Report	Page 2 of 2
	Pavement Database: FDOT	

Use Category	Number of Sections	Total Area (SqFt)	Arithmetic Average PCI	Average STD PCI	Weighted Average PCI
APRON	11	607749.000027051	76.09	17.81	68.76
RUNWAY	1	277500.000087045	100.00	0.00	100.00
TAXIWAY	13	330346.000022097	64.31	15.09	68.66
ALL	25	1215595.00013619	70.92	18.06	75.87

#### **Section Condition Report**

Pavement Database: FDOT

NetworkId: 2R4

r avement Data	buse. I DOI		Networkia: 2K4							
Branch ID	Section ID	Last Const. Date	Surface	Use	Rank	Lanes	True Area (SqFt)	Last Inspection Date	Age At Inspec tion	
AP E	4205	4/1/2015	AC	APRON	Р	0	88,496.00	4/1/2015	0	100
AP W	4105	1/1/1992	AC	APRON	Р	0	89,498.00	3/21/2017	25	57
AP W	4110	1/1/2000	AAC	APRON	Р	0	72,218.00	3/21/2017	17	54
AP W	4115	1/1/2000	AAC	APRON	Р	0	55,812.00	3/21/2017	17	59
AP W	4120	1/1/1995	AC	APRON	Р	0	50,545.00	3/21/2017	22	61
AP W	4125	1/1/1996	AC	APRON	Р	0	117,425.00	3/21/2017	21	62
AP W	4130	1/1/2007	AC	APRON	Р	0	88,086.00	3/21/2017	10	68
RU RW 18	5105	1/1/2011	AC	APRON	Р	0	11,805.00	3/21/2017	6	94
RU RW 18	5110	1/1/2011	AC	APRON	P	0	11,199.00	3/21/2017	6	94
RU RW 36	5205	1/1/2011	AC	APRON	Р	0	12,428.00	3/21/2017	6	94
RU RW 36	5210	1/1/2011	AC	APRON	Р	0	10,237.00	3/21/2017	6	94
RW 18-36	6105	9/1/2016	AAC	RUNWAY	Р	0	277,500.00	9/1/2016	0	100
TW A	105	1/1/1992	AC	TAXIWAY	Т	0	12,759.00	3/21/2017	25	62
TW A	115	1/1/1995	AC	TAXIWAY	Р	0	38,153.00	3/21/2017	22	
TW A	120	1/1/1996	AC	TAXIWAY	Р	0	6,724.00	3/21/2017	21	61
TW A	500	1/1/2007	AC	TAXIWAY	Р	0	9,348.00	3/21/2017	10	
TW A	510	1/1/2001	AC	TAXIWAY	P	0	39,191.00	3/21/2017	16	62
TW B	205	1/1/1992	AC	TAXIWAY	Р	0	104,968.00	3/21/2017	25	
TW B	210	1/1/1992	AC	TAXIWAY	Р	0	8,970.00	3/21/2017	25	
TW B	215	1/1/1996		TAXIWAY	Р	0	9,340.00	3/21/2017	21	57
TW B	250	4/1/2015	AC	TAXIWAY	P	0	8,550.00	4/1/2015	0	100
TW C	305	1/1/1968	AC	TAXIWAY	Р	0	11,689.00	3/21/2017	49	57
TW D	405	1/1/1992	AAC	TAXIWAY	Р	0	7,141.00	3/21/2017	25	56
TW D	410	1/1/1992	AAC	TAXIWAY	Р	0	3,148.00	3/21/2017	25	50
TW HANG	605	8/1/2013	AC	TAXIWAY	Р	0	70,365.00	3/21/2017	4	94

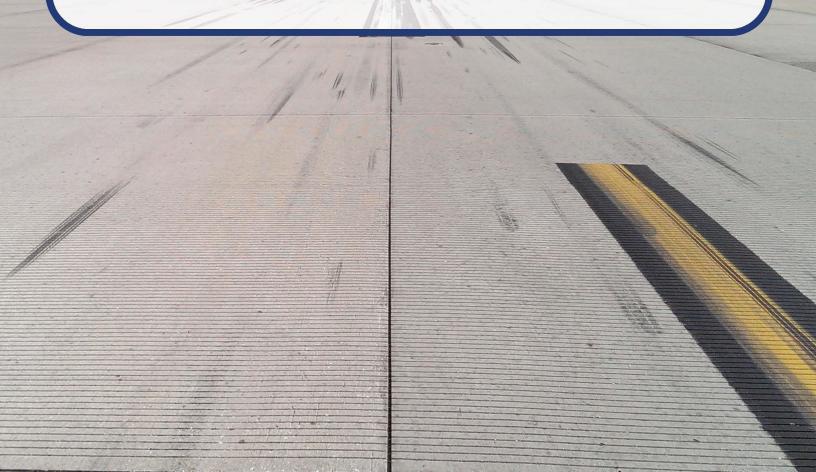
7/26/2017	Section Condition Report (Summary)	Page 2 of 2
	Pavement Database: FDOT	

Age Category	Average Age at Inspection	Total Area (SqFt)	Number of Sections	Arithmetic Average PCI	Standard Deviation PCI	Weighted Average PCI
00-02		374,546.00	3	100.00	0.00	100.00
03-05	4	70,365.00	1	94.00	0.00	94.00
06-10	7	143,103.00	6	85.67	11.80	76.43
16-20	17	167,221.00	3	58.33	3.30	57.54
21-25	23	448,671.00	11	57.55	5.03	60.02
41-50	49	11,689.00	1	57.00	0.00	57.00
ALL	16	1,215,595.00	25	70.92	18.06	75.87



# Appendix B

Airfield Pavement Localized Maintenance and Repair and Major Rehabilitation



2017





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

Network ID	Branch ID	Section ID	Distress Code	Description	Severity	Distress Qty	Distress Unit	Percent Distress	Work Description	Work Qty	Work Unit	Unit Cost	Work Cost
2R4	AP W	4105	48	L&TCR	Medium	1066.93	Ft	1.2%	FDOT - CRACK SEALING - AC	1066.93	Ft	\$ 3.00	\$ 3,210.00
2R4	AP W	4105	52	RAVELING	Low	73963.24	SqFt	82.6%	FDOT - SURFACE SEAL	73963.13	SqFt	\$ 0.55	\$ 40,690.00
2R4	AP W	4105	52	RAVELING	Medium	15534.8	SqFt	17.4%	FDOT - PATCHING - AC PARTIAL DEPTH	15534.48	SqFt	\$ 3.00	\$ 46,610.00
2R4	AP W	4110	48	L&TCR	Medium	412.83	Ft	0.6%	FDOT - CRACK SEALING - AC	412.73	Ft	\$ 3.00	\$ 1,240.00
2R4	AP W	4110	49	OIL SPILLAGE	N/A	240.79	SqFt	0.3%	FDOT - PATCHING - AC PARTIAL DEPTH	306.77	SqFt	\$ 3.00	\$ 930.00
2R4	AP W	4110	52	RAVELING	Low	63961.42	SqFt	88.6%	FDOT - SURFACE SEAL	63961.31	SqFt	\$ 0.55	\$ 35,180.00
2R4	AP W	4110	52	RAVELING	Medium	7568.54	SqFt	10.5%	FDOT - PATCHING - AC PARTIAL DEPTH	7568.11	SqFt	\$ 3.00	\$ 22,710.00
2R4	AP W	4115	45	DEPRESSION	Low	70.29	SqFt	0.1%	FDOT - PATCHING - AC FULL DEPTH	107.64	SqFt	\$ 6.00	\$ 650.00
2R4	AP W	4115	48	L&TCR	Medium	292.68	Ft	0.5%	FDOT - CRACK SEALING - AC	292.65	Ft	\$ 3.00	\$ 880.00
2R4	AP W	4115	52	RAVELING	Low	52299.58	SqFt	93.7%	FDOT - SURFACE SEAL	52299.69	SqFt	\$ 0.55	\$ 28,770.00
2R4	AP W	4115	52	RAVELING	Medium	3512.37	SqFt	6.3%	FDOT - PATCHING - AC PARTIAL DEPTH	3512.26	SqFt	\$ 3.00	\$ 10,540.00
2R4	AP W	4120	52	RAVELING	Low	42514.54	SqFt	84.1%	FDOT - SURFACE SEAL	42514.22	SqFt	\$ 0.55	\$ 23,390.00
2R4	AP W	4120	52	RAVELING	Medium	8030.52	SqFt	15.9%	FDOT - PATCHING - AC PARTIAL DEPTH	8030.95	SqFt	\$ 3.00	\$ 24,100.00
2R4	AP W	4125	52	RAVELING	Low	95056.85	SqFt	81.0%	FDOT - SURFACE SEAL	95057.17	SqFt	\$ 0.55	\$ 52,290.00
2R4	AP W	4125	52	RAVELING	Medium	22368.16	SqFt	19.1%	FDOT - PATCHING - AC PARTIAL DEPTH	22368.48	SqFt	\$ 3.00	\$ 67,110.00
2R4	AP W	4130	52	RAVELING	Low	23489.65	SqFt	26.7%	FDOT - SURFACE SEAL	23490.08	SqFt	\$ 0.55	\$ 12,920.00
2R4	TW A	105	52	RAVELING	Low	11592.52	SqFt	90.9%	FDOT - SURFACE SEAL	11592.73	SqFt	\$ 0.55	\$ 6,380.00
2R4	TW A	105	52	RAVELING	Medium	1166.48	SqFt	9.1%	FDOT - PATCHING - AC PARTIAL DEPTH	1166.81	SqFt	\$ 3.00	\$ 3,500.00
2R4	TW A	115	52	RAVELING	Low	30665.09	SqFt	80.4%	FDOT - SURFACE SEAL	30665.3	SqFt	\$ 0.55	\$ 16,870.00
2R4	TW A	115	52	RAVELING	Medium	3083.21	SqFt	8.1%	FDOT - PATCHING - AC PARTIAL DEPTH	3082.78	SqFt	\$ 3.00	\$ 9,250.00
2R4	TW A	120	52	RAVELING	Low	3627.01	SqFt	53.9%	FDOT - SURFACE SEAL	3627.44	SqFt	\$ 0.55	\$ 2,000.00
2R4	TW A	500	45	DEPRESSION	Low	19.38	SqFt	0.2%	FDOT - PATCHING - AC FULL DEPTH	40.9	SqFt	\$ 6.00	\$ 250.00
2R4	TW A	500	52	RAVELING	Low	8386.7	SqFt	89.7%	FDOT - SURFACE SEAL	8387.24	SqFt	\$ 0.55	\$ 4,620.00
2R4	TW A	500	52	RAVELING	Medium	10.76	SqFt	0.1%	FDOT - PATCHING - AC PARTIAL DEPTH	10.76	SqFt	\$ 3.00	\$ 40.00
2R4	TW A	510	52	RAVELING	Low	32920.45	SqFt	84.0%	FDOT - SURFACE SEAL	32920.34	SqFt	\$ 0.55	\$ 18,110.00
2R4	TW A	510	52	RAVELING	Medium	6270.52	SqFt	16.0%	FDOT - PATCHING - AC PARTIAL DEPTH	6271.05	SqFt	\$ 3.00	\$ 18,820.00
2R4	TW B	205	48	L & T CR	Medium	2469.26	Ft	2.4%	FDOT - CRACK SEALING - AC	2469.16	Ft	\$ 3.00	\$ 7,410.00
2R4	TW B	205	48	L & T CR	High	48.62	Ft	0.1%	FDOT - CRACK SEALING - AC	48.56	Ft	\$ 3.00	\$ 150.00
2R4	TW B	205	52	RAVELING	Low	99564.77	SqFt	94.9%	FDOT - SURFACE SEAL	99565.09	SqFt	\$ 0.55	\$ 54,770.00
2R4	TW B	210	45	DEPRESSION	Low	39.5	SqFt	0.4%	FDOT - PATCHING - AC FULL DEPTH	68.89	SqFt	\$ 6.00	\$ 420.00
2R4	TW B	210	48	L&TCR	Medium	524.74	Ft	5.9%	FDOT - CRACK SEALING - AC	524.61	Ft	\$ 3.00	\$ 1,580.00
2R4	TW B	210	48	L & T CR	High	19.72	Ft	0.2%	FDOT - CRACK SEALING - AC	19.69	Ft	\$ 3.00	\$ 60.00
2R4	TW B	210	52	RAVELING	Low	7693.61	SqFt	85.8%	FDOT - SURFACE SEAL	7694.04	SqFt	\$ 0.55	\$ 4,240.00
2R4	TW B	210	52	RAVELING	Medium	1276.38	SqFt	14.2%	FDOT - PATCHING - AC PARTIAL DEPTH	1276.6	SqFt	\$ 3.00	\$ 3,830.00
2R4	TW B	215	48	L&TCR	Medium	289.99	Ft	3.1%	FDOT - CRACK SEALING - AC	290.03	Ft	\$ 3.00	\$ 870.00
2R4	TW B	215	52	RAVELING	Low	8539.98	SqFt	91.4%	FDOT - SURFACE SEAL	8540.09	SqFt	\$ 0.55	\$ 4,700.00
2R4	TW B	215	52	RAVELING	Medium	799.97	SqFt	8.6%	FDOT - PATCHING - AC PARTIAL DEPTH	799.76	SqFt	\$ 3.00	\$ 2,400.00
2R4	TW C	305	45	DEPRESSION	Low	5.49	SqFt	0.1%	FDOT - PATCHING - AC FULL DEPTH	18.3	SqFt	\$ 6.00	\$ 120.00

Statewide Airfield Pavement Management Program Airport Pavement Evaluation Report

2017

Peter Prince Field (2R4)





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
2R4	TW C	305	48	L&TCR	Medium	136.12	Ft	1.2%	FDOT - CRACK SEALING - AC	136.15	Ft	\$ 3.00	\$ 410.00
2R4	TW C	305	52	RAVELING	Low	9618.31	SqFt	82.3%	FDOT - SURFACE SEAL	9618.63	SqFt	\$ 0.55	\$ 5,300.00
2R4	TW C	305	52	RAVELING	Medium	2070.65	SqFt	17.7%	FDOT - PATCHING - AC PARTIAL DEPTH	2070.98	SqFt	\$ 3.00	\$ 6,220.00
2R4	TW D	405	48	L&TCR	Medium	150.56	Ft	2.1%	FDOT - CRACK SEALING - AC	150.59	Ft	\$ 3.00	\$ 460.00
2R4	TW D	405	52	RAVELING	Low	5985.6	SqFt	83.8%	FDOT - SURFACE SEAL	5985.81	SqFt	\$ 0.55	\$ 3,300.00
2R4	TW D	405	52	RAVELING	Medium	1155.4	SqFt	16.2%	FDOT - PATCHING - AC PARTIAL DEPTH	1154.97	SqFt	\$ 3.00	\$ 3,470.00
2R4	TW D	410	48	L&TCR	Medium	12.01	Ft	0.4%	FDOT - CRACK SEALING - AC	12.14	Ft	\$ 3.00	\$ 40.00
2R4	TW D	410	52	RAVELING	Low	1498.01	SqFt	47.6%	FDOT - SURFACE SEAL	1498.34	SqFt	\$ 0.55	\$ 830.00
2R4	TW D	410	52	RAVELING	Medium	50.05	SqFt	1.6%	FDOT - PATCHING - AC PARTIAL DEPTH	49.51	SqFt	\$ 3.00	\$ 150.00





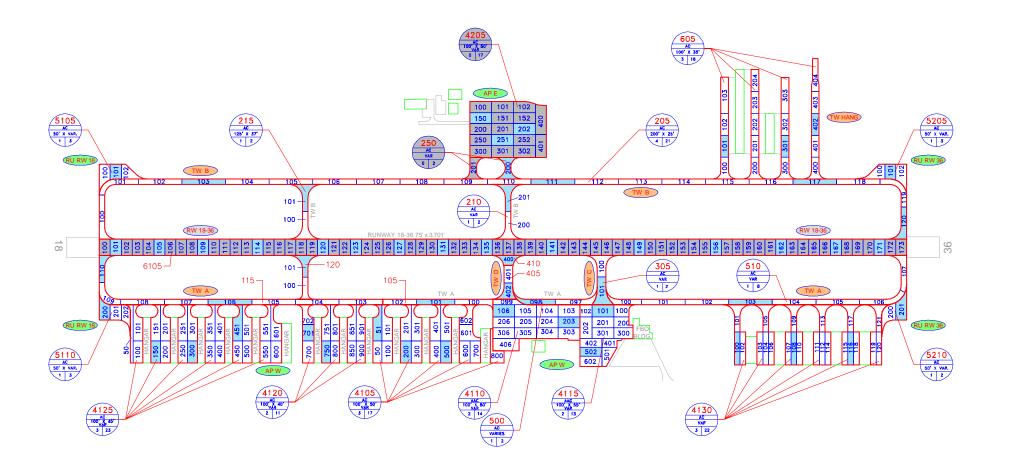
Table B-2 10-Year Major Rehabilitation Planning Needs at Section Level

Program Year	Network ID	Branch ID	Section ID	Surface	Area (SF)	PCI Before	Rehabilitation Type	Planning Cost
2018	2R4	AP W	4105	AC	89,498	55	AC Restoration	\$ 627,000.00
2018	2R4	AP W	4110	AAC	72,218	53	AC Restoration	\$ 506,000.00
2018	2R4	AP W	4115	AAC	55,812	57	AC Restoration	\$ 391,000.00
2018	2R4	AP W	4120	AC	50,545	59	AC Restoration	\$ 354,000.00
2018	2R4	AP W	4125	AC	117,425	60	AC Restoration	\$ 823,000.00
2018	2R4	TW A	105	AC	12,759	61	AC Restoration	\$ 90,000.00
2018	2R4	TW A	115	AC	38,153	58	AC Restoration	\$ 268,000.00
2018	2R4	TW A	120	AC	6,724	60	AC Restoration	\$ 48,000.00
2018	2R4	TW A	510	AC	39,191	61	AC Restoration	\$ 275,000.00
2018	2R4	TW B	205	AC	104,968	61	AC Restoration	\$ 735,000.00
2018	2R4	TW B	210	AC	8,970	44	AC Restoration	\$ 73,000.00
2018	2R4	TW B	215	AC	9,340	55	AC Restoration	\$ 66,000.00
2018	2R4	TW C	305	AC	11,689	55	AC Restoration	\$ 82,000.00
2018	2R4	TW D	405	AAC	7,141	54	AC Restoration	\$ 50,000.00
2018	2R4	TW D	410	AAC	3,148	48	AC Restoration	\$ 23,000.00
2020	2R4	AP W	4130	AC	88,086	63	AC Restoration	\$ 617,000.00
2023	2R4	TW A	500	AC	9,348	64	AC Restoration	\$ 66,000.00



## Appendix C

Technical Exhibits



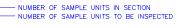


#### LEGEND











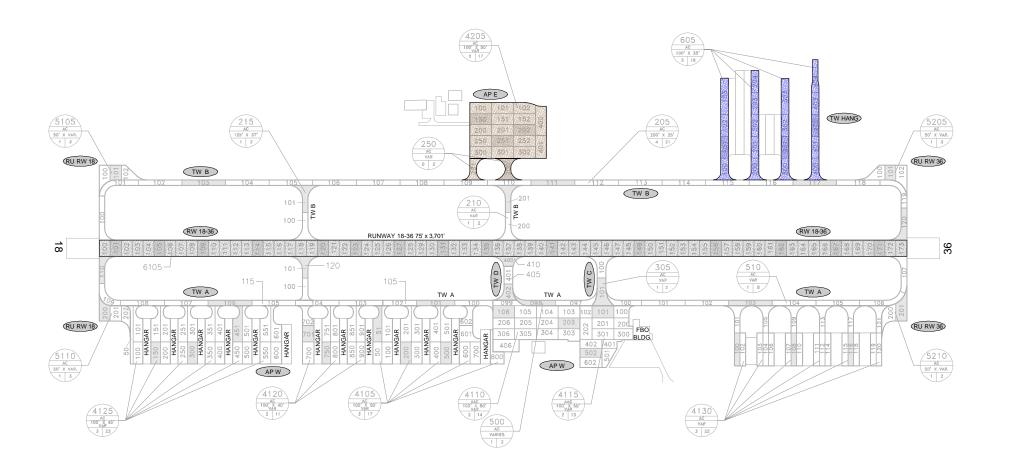
SECTION NOT INSPECTED DUE TO RECENT CONSTRUCTION. SEE SYSTEM INVENTORY MAP FOR CONSTRUCTION DATES.

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

TOTAL SAMPLES INSPECTED = 37 AC: 37 PCC: 0

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





### 

### CONSTRUCTION SINCE LAST INSPECTION & ANTICIPATED CONSTRUCTION ACTIVITY

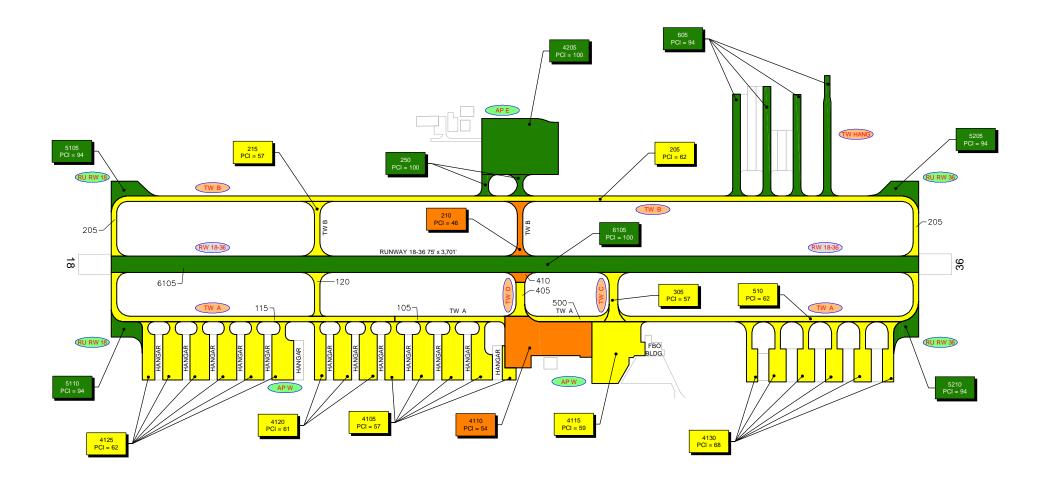
a / it it is it is a second in the in it is a second in its in it is a second in its i				
CONSTRUCTION YEAR	LOCATION	WORK TYPE / PAVEMENT SECTION		
2013	TW HANG	RECONSTRUCTION/ 2" P-401, 6" P-211, 12" P-152		
2015	AP E, TW B	RECONSTRUCTION/ 2" P-401, 6" P-211, 12" P-152		
2016	RW 18-36	MILL AND OVERLAY/ 3" P-401		

#### **LEGEND**

PROJECTS	YEAR	2013
PROJECTS	YEAR	2014
PROJECTS	YEAR	2015
PROJECTS	YEAR	2016
PROJECTS	YEAR	2017
PROJECTS	YEAR	2018
PROJECTS	YEAR	2019
PROJECTS	YEAR	2020
PROJECTS	YEAR	2021
PROJECTS	YEAR	2022

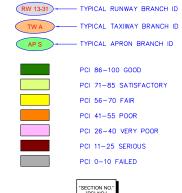
RUNWAY LENGTHS DEPICTED IN THIS DRAWING ARE FOR PAVEMENT MANAGEMENT PURPOSES ONLY AND MAY NOT MATCH PUBLISHED RUNWAY LENGTHS.







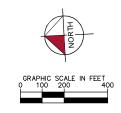
### **LEGEND**

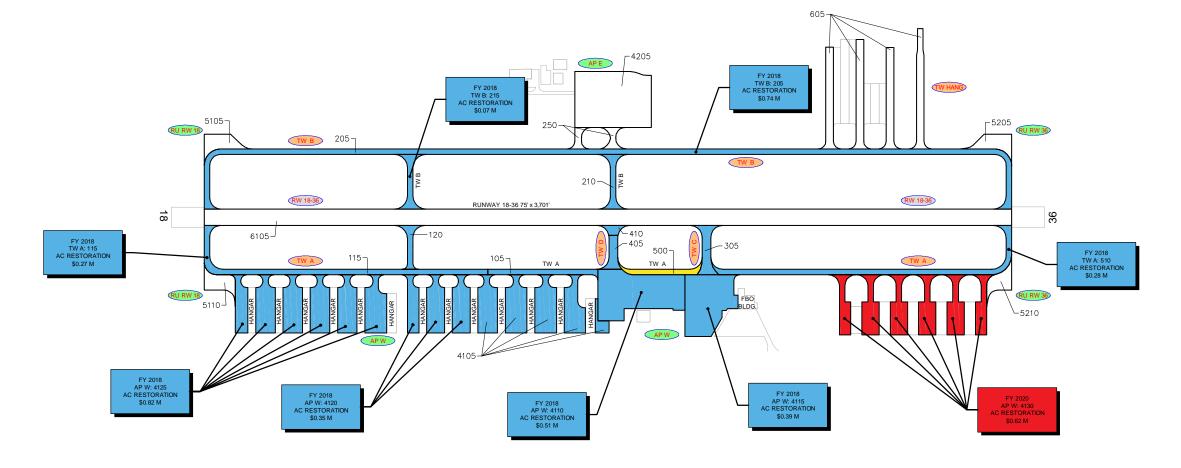




RUNWAY LENGTHS DEPICTED IN THIS DRAWING ARE FOR PAVEMENT MANAGEMENT PURPOSES ONLY AND MAY NOT MATCH PUBLISHED RUNWAY LENGTHS.

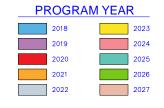






#### **LEGEND**





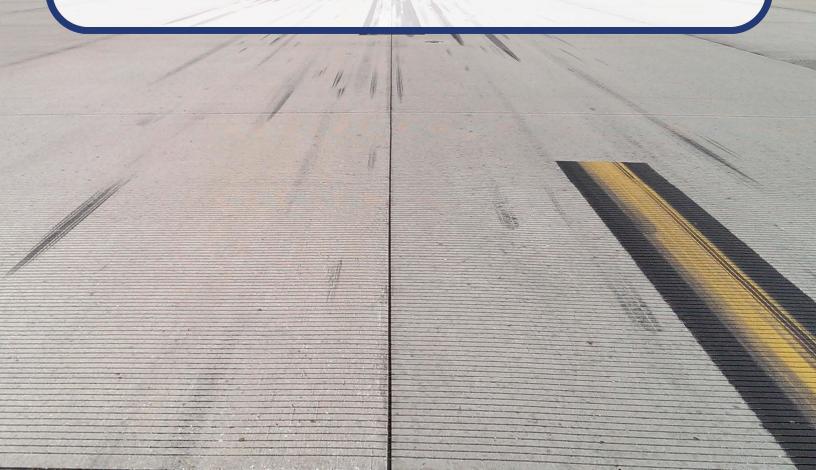
"PROGRAM YEAR"
"BRANCH": "SECTION"
"REHAB ACTIVITY"
"EST. COST"

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



## Appendix D

Inspection Photograph Documentation









Taxiway A, Section 510, Sample Unit 103 - Low Severity (52) Raveling



Taxiway A, Section 105, Sample Unit 101 - Low Severity (48) Longitudinal and Transverse Cracking, Low Severity (52) Raveling, Medium Severity (52) Raveling







Taxiway A, Section 115, Sample Unit 110 - Low Severity (50) Patching, Low Severity (52) Raveling



Taxiway B, Section 205, Sample Unit 103 - Low and Medium Severity (48) Longitudinal and Transverse Cracking, Low Severity (52) Raveling





Taxiway B, Section 205, Sample Unit 111 - Low and Medium Severity (48) Longitudinal and Transverse Cracking, Low Severity (52) Raveling



Taxiway B, Section 205, Sample Unit 120 - Low Severity (48) Longitudinal and Transverse Cracking, High Severity (48) Longitudinal and Transverse Cracking, Low Severity (52) Raveling







Apron West, Section 4130, Sample Unit 108 - Low Severity (48) Longitudinal and Transverse Cracking, Low Severity (50) Patching, Low Severity (52) Raveling, Low Severity (57) Weathering



Apron West, Section 4110, Sample Unit 106 - Low and Medium Severity (48) Longitudinal and Transverse Cracking, Low Severity (52) Raveling, Medium Severity (52) Raveling





Apron West, Section 4125, Sample Unit 300 - Low Severity (48) Longitudinal and Transverse Cracking, Low Severity (52) Raveling

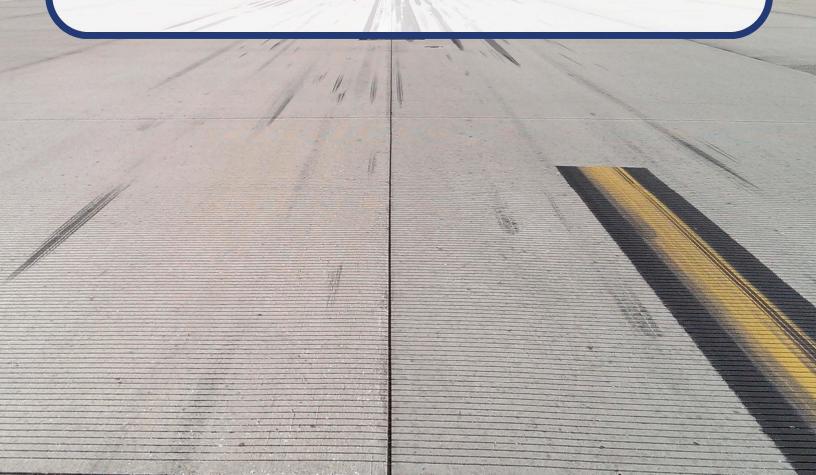


Taxiway To Hangar, Section 605, Sample Unit 301 - Low Severity (57) Weathering



# Appendix E

Inspection Distress Details



### **Re-Inspection Report**

**FDOT** 

**Generated Date** 7/26/2017 Page 1 of 27

Guicia	ated Date		7/26	5/2017										age 1 of
Netwoi	r <b>k:</b> 2R4					Nan	ne:	PETER PR	INCE FIE	ELD				
Branch	a: APE		ľ	Name:	APRO	N EAS	Т	1	Use: A	PRON	Area:	88,	496 SqFt	
Section	<b>1:</b> 4205	0	of 1	Fro	m:	-				То: -		I	ast Const.:	4/1/2015
Surfac	e: AC	Family:	C9N:	59-GA-AP-A	.C	Zon	ie:			Category:		F	Rank: P	
Area:	8	38,496 SqFt		Length:		350 I	₹t	Widt	h:	235 Ft				
Slabs:		Slab Lei	ngth:		Ft		Slab Wid	th:		Ft	Join	t Length:	Ft	
Should	er:	Street T	ype:				Grade:	0			Lan	<b>es:</b> 0		
Section	Comments:													
Work l	<b>Date:</b> 1/1/1992	W	ork Ty	pe: BUILT					Code	: IMPORTED		Is Major M&	R: True	
Work l	<b>Date:</b> 1/1/1998	W	ork Ty	pe: REPAIR	2				Code	: IMPORTED		Is Major M&	R: False	
Work l	<b>Date:</b> 4/1/2015	W	ork Ty	pe: Complet	te Recor	nstructio	on - AC		Code	: CR-AC		Is Major M&	R: True	
Last In	sp. Date: 8/28/	2013		TotalSam	ples:	12		Su	rveyed:	2				
Condit	ions: PCI:	50			NC	)TE: **	** Pre-Con	struction I	PCI ***					
Inspect	tion Comments:													
Sample	Number: 150	Tyj	pe:	R	A	Area:	4	6000.00 Sq	Ft	PCI: 53	3			
Sample	e Comments:													
	LONGITUDINA CRACKING	L/TRANSVER	SE H		38.00	Ft								
	LONGITUDINA CRACKING	L/TRANSVER	SE M	1	70.00	Ft								
	LONGITUDINA CRACKING	L/TRANSVER	SE L		50.00	Ft								
	LONGITUDINA CRACKING	L/TRANSVER	SE H		130.00	Ft								
	LONGITUDINA CRACKING	L/TRANSVER	SE M	1	199.00	Ft								
57	WEATHERING		L	5	5000.00	SqFt								
Sample	e Number: 251	$Ty_{J}$	pe:	R	A	Area:	5	5000.00 Sq	Ft	<b>PCI:</b> 48	3			
Sample	e Comments:													
43	BLOCK CRACK	ING	M	<b>1</b> 1	000.00	SqFt								
	LONGITUDINA CRACKING	L/TRANSVER	SE M	1	58.00	Ft								
	WEATHERING		L		00.000									
	LONGITUDINA CRACKING	L/TRANSVER	SE H		100.00	Ft								
48	LONGITUDINA CRACKING	L/TRANSVER	SE L		42.00	Ft								
	CKACKING													

Network:   284												
Section:	Netw	ork: 2R4			Nan	ne: PETER	R PRINCE F	IELD				
Name	Bran	ch: AP W		Name:	APRON WES	ST	Use:	APRON	Area:	473,584	4 SqFt	
Area:   89,498 SqFt   Length:   300 Ft   Width:   267 Ft     Slab Length:   Ft   Slab Width:   Ft   Joint Length:   Ft     Shoulder:   Street Type:   Grade:   0   Lanes:   0     Section Comments:	Section	on: 4105	of 6		From: -			То: -		Las	t Const.:	1/1/1992
Slab   Length   Fr   Slab   Width   Fr   Slab   Width   Fr   Lanes   O	Surfa	nce: AC	Family: C91	N59-GA-	AP-AC Zon	e:		Category:		Rar	nk: P	
Shoulder:   Street Type:   Grade: 0   Lanes: 0	Area	<b>:</b> 89,49	8 SqFt	Length	300 F	<sup>2</sup> t <b>V</b>	Vidth:	267 Ft				
Section Comments:	Slabs	:	Slab Length:		Ft	Slab Width:		Ft	Joint L	ength:	Ft	
Work Date: 1/1/1992   Work Type: OVERLAY   Code: IMPORTED   Is Major M&R: True	Shou	lder:	Street Type:			Grade: 0			Lanes:	0		
Work Date: 1/1/1992   Work Type: BUILT   Code: IMPORTED   Is Major M&R: True	Secti	on Comments:										
Last Insp. Date: 3/21/2017   TotalSamples: 17   Surveyed: 3	Worl	<b>Date:</b> 1/1/1992	Work T	ype: OV	VERLAY		Cod	le: IMPORTED	Is I	Major M&R:	True	
Conditions:   PCI:   57	Worl	<b>Carte:</b> 1/1/1992	Work T	ype: BU	JILT		Cod	le: IMPORTED	Is I	Major M&R:	True	
Name   Number   200   Type: R   Area:   4950.00 SqFt   PCI: 57	Last	Insp. Date: 3/21/2017	7	Tota	lSamples: 17		Surveyed	: 3				
Sample Number: 200         Type:         R         Area:         4950.00 SqFt         PCI:         57           Sample Comments:           48         L & T CR         L         170.00 Ft         48         L & T CR         M         60.00 Ft         48         L & T CR         M         60.00 Ft         48         L & T CR         M         4000.00 SqFt         48         4950.00 SqFt         PCI:         56           Sample Number: 500         Type:         R         Area:         4950.00 SqFt         PCI:         56           Sample Comments:           52         RAVELING         M         950.00 SqFt         PCI:         56           Sample Comments:           Sample Number: 51         Type:         R         Area:         5367.00 SqFt         PCI:         57           Sample Number: 51         Type:         R         Area:         5367.00 SqFt         PCI:         57           Sample Comments:           48         L & T CR         L         300.00 Ft         52         RAVELING         L         4617.00 SqFt           52         RAVELING         M         750.00 SqFt         PCI:	Cond	litions: PCI: 57										
Sample Comments:         48       L & T CR       M       60.00 Ft         52       RAVELING       L       4000.00 SqFt         52       RAVELING       M       950.00 SqFt         Sample Number: 500       Type: R       A rea:       4950.00 SqFt       PCI: 56         Sample Comments:         52       RAVELING       M       950.00 SqFt       PCI: 56         48       L & T CR       L       255.00 Ft         48       L & T CR       M       62.00 Ft         52       RAVELING       M       62.00 Ft         52       RAVELING       L       4000.00 SqFt         Sample Number: 51       Type: R       A rea:       5367.00 SqFt       PCI: 57         Sample Comments:         48       L & T CR       L       300.00 Ft         52       RAVELING       L       4617.00 SqFt         52       RAVELING       L       4617.00 SqFt         52       RAVELING       M       750.00 SqFt	Inspe	ection Comments:										
48  L & T CR	Samp	ole Number: 200	Type:	R	Area:	4950.0	0 SqFt	<b>PCI:</b> 57				
48       L & T CR       M       60.00 Ft         52       RAVELING       L       4000.00 SqFt         52       RAVELING       M       950.00 SqFt         Sample Number: 500       Type: R       A rea:       4950.00 SqFt       PCI: 56         Sample Comments:         52       RAVELING       M       950.00 SqFt         48       L & T CR       L       255.00 Ft         48       L & T CR       M       62.00 Ft         52       RAVELING       L       4000.00 SqFt         Sample Number: 51       Type: R       A rea:       5367.00 SqFt       PCI: 57         Sample Comments:         48       L & T CR       L       300.00 Ft         52       RAVELING       L       4617.00 SqFt         52       RAVELING       L       4617.00 SqFt         52       RAVELING       M       750.00 SqFt	Samp	ole Comments:										
48       L & T CR       M       60.00 Ft         52       RAVELING       L       4000.00 SqFt         52       RAVELING       M       950.00 SqFt         Sample Number: 500       Type: R       A rea:       4950.00 SqFt       PCI: 56         Sample Comments:         52       RAVELING       M       950.00 SqFt         48       L & T CR       L       255.00 Ft         48       L & T CR       M       62.00 Ft         52       RAVELING       L       4000.00 SqFt         Sample Number: 51       Type: R       A rea:       5367.00 SqFt       PCI: 57         Sample Comments:         48       L & T CR       L       300.00 Ft         52       RAVELING       L       4617.00 SqFt         52       RAVELING       L       4617.00 SqFt         52       RAVELING       M       750.00 SqFt	48	L & T CR	]	L	170.00 Ft							
52       RAVELING       M       950.00       SqFt         Sample Number: 500       Type:       R       Area:       4950.00       SqFt         Sample Comments:         52       RAVELING       M       950.00       SqFt         48       L & T CR       L       255.00       Ft         48       L & T CR       M       62.00       Ft         52       RAVELING       L       4000.00       SqFt         Sample Number: 51       Type:       R       Area:       5367.00       SqFt       PCI:       57         Sample Comments:         48       L & T CR       L       300.00       Ft         52       RAVELING       L       4617.00       SqFt         52       RAVELING       M       750.00       SqFt	48		]	M								
Sample Number:         500         Type:         R         Area:         4950.00 SqFt         PCI:         56           Sample Comments:           52         RAVELING         M         950.00 SqFt           48         L & T CR         L         255.00 Ft           48         L & T CR         M         62.00 Ft           52         RAVELING         L         4000.00 SqFt           Sample Number:         51         Type:         R         Area:         5367.00 SqFt         PCI:         57           Sample Comments:           48         L & T CR         L         300.00 Ft         52         RAVELING         L         4617.00 SqFt           52         RAVELING         M         750.00 SqFt         750.00 SqFt         750.00 SqFt	52	RAVELING	]	L	4000.00 SqFt							
Sample Comments:       52     RAVELING     M     950.00 SqFt       48     L & T CR     L     255.00 Ft       48     L & T CR     M     62.00 Ft       52     RAVELING     L     4000.00 SqFt       Sample Number: 51     Type: R     Area: 5367.00 SqFt     PCI: 57       Sample Comments:       48     L & T CR     L     300.00 Ft       52     RAVELING     L     4617.00 SqFt       52     RAVELING     M     750.00 SqFt	52	RAVELING	1	M								
52 RAVELING M 950.00 SqFt 48 L & T CR L 255.00 Ft 48 L & T CR M 62.00 Ft 52 RAVELING L 4000.00 SqFt  Sample Number: 51 Type: R Area: 5367.00 SqFt PCI: 57  Sample Comments:  48 L & T CR L 300.00 Ft 52 RAVELING L 4617.00 SqFt 52 RAVELING L 4617.00 SqFt 52 RAVELING M 750.00 SqFt	Samp	ole Number: 500	Type:	R	Area:	4950.0	0 SqFt	<b>PCI:</b> 56				
48       L & T CR       L       255.00 Ft         48       L & T CR       M       62.00 Ft         52       RAVELING       L       4000.00 SqFt         Sample Number: 51       Type: R       Area: 5367.00 SqFt       PCI: 57         Sample Comments:         48       L & T CR       L       300.00 Ft         52       RAVELING       L       4617.00 SqFt         52       RAVELING       M       750.00 SqFt	Samp	ole Comments:										
48       L & T CR       L       255.00 Ft         48       L & T CR       M       62.00 Ft         52       RAVELING       L       4000.00 SqFt         Sample Number: 51       Type: R       Area: 5367.00 SqFt       PCI: 57         Sample Comments:         48       L & T CR       L       300.00 Ft         52       RAVELING       L       4617.00 SqFt         52       RAVELING       M       750.00 SqFt	52	RAVELING	1	М	950.00 SaFt							
48       L & T CR       M       62.00 Ft         52       RAVELING       L       4000.00 SqFt         Sample Number: 51       Type: R       A rea: 5367.00 SqFt       PCI: 57         Sample Comments:         48       L & T CR       L       300.00 Ft         52       RAVELING       L       4617.00 SqFt         52       RAVELING       M       750.00 SqFt												
52 RAVELING       L 4000.00 SqFt         Sample Number: 51       Type: R Area: 5367.00 SqFt       PCI: 57         Sample Comments:         48 L & T CR												
Sample Comments:           48         L & T CR         L         300.00         Ft           52         RAVELING         L         4617.00         SqFt           52         RAVELING         M         750.00         SqFt		RAVELING	]	L	4000.00 SqFt							
48 L & T CR L 300.00 Ft 52 RAVELING L 4617.00 SqFt 52 RAVELING M 750.00 SqFt	Samp	ole Number: 51	Type:	R	Area:	5367.0	0 SqFt	<b>PCI:</b> 57				
52       RAVELING       L       4617.00       SqFt         52       RAVELING       M       750.00       SqFt	Samp	ole Comments:										
52       RAVELING       L       4617.00       SqFt         52       RAVELING       M       750.00       SqFt	48	L & T CR	]	L	300.00 Ft							
52 RAVELING M 750.00 SqFt					4617.00 SaFt							

Network	: 2R4					Naı	ne:	PETER PRIN	ICE FIEI	LD						
Branch:	AP W			Name:	APRO	ON WES	ST	Us	se: AI	PRON	A	Area:		473,58	34 SqFt	
Section:	4110		of 6		From:	-				То: -				La	st Const	.: 1/1/2000
Surface:	AAC	Fan	nily: C	9N59-GA	-AP-AC	Zor	ne:			Category:				Ra	nk: P	
Area:		72,218 Sq	Ft	Leng	th:	400 1	Ft	Width:		150 F	t					
Slabs:		Sla	ab Length	:	Ft		Slab Wio	dth:		Ft		Joint I	Lengtl	h:		Ft
Shoulder	r <b>:</b>	Str	reet Type:				Grade:	0				Lanes	: 0	)		
Section (	Comments:															
Work Da	ate: 1/1/1970	)	Work	Type: C	VERLAY				Code:	IMPORTE	ED	Is	Majo	r M&R	: True	
Work Da	ate: 1/1/1970	)	Work	Type: B	UILT				Code:	IMPORTE	ED	Is	Majo	r M&R	: True	
Work Da	ate: 1/1/2000	)	Work	Type: M	IILL and OVE	ERLAY			Code:	ML-OV		Is	Majo	r M&R	: True	
				JI	nee und o ve											
Last Ins	p. Date: 3/2				alSamples:			Surv	veyed:	2						
Last Insp	•	1/2017						Surv	veyed:	2						
Conditio		1/2017						Surv	veyed:	2						
Conditio	ons: PCI:	54 54	Type:		alSamples:			<b>Surv</b> 5496.00 SqF0	•	PCI:	54					
Condition Inspection Sample 1	ons: PCI:	54 54		Tot	alSamples:	14			•		54					
Condition Inspection Sample I Sample (	ons: PCI: on Comments Number: 10	54 54		Tot	alSamples:	14 Area:			•		54					
Condition Inspection Sample Inspection Sample Inspection Sample Inspection	ons: PCI: on Comments Number: 10 Comments:	54 54		Tot	410.00 60.00	14 Area: Ft Ft			•		54					
Condition Inspection Sample I Sample 0 48 L 48 L 52 R	ons: PCI: on Comments  Number: 10  Comments: & T CR & T CR AVELING	54 54		Tot R	410.00 60.00 4896.00	14 Area: Ft Ft SqFt			•		54					
Condition Inspection Sample 1 Sample 4 48 L 48 L 52 R 52 R	ons: PCI: on Comments  Number: 10  Comments: & T CR & T CR AVELING  AVELING	54 54 8:		R L M L M	410.00 60.00 4896.00 600.00	Area:  Ft Ft SqFt SqFt			•		54					
Condition Inspection Sample I Sample ( 48 L 48 L 52 R 52 R	ons: PCI: on Comments  Number: 10  Comments: & T CR & T CR AVELING	54 54 8:		R L M L	410.00 60.00 4896.00 600.00	14 Area: Ft Ft SqFt			•		54					
Condition Inspection Sample Condition Sample Condition 48 L 48 L 52 R 52 R 49 O	ons: PCI: on Comments  Number: 10  Comments: & T CR & T CR AVELING  AVELING	54 55: 06		R L M L M	410.00 60.00 4896.00 600.00 10.00	Area:  Ft Ft SqFt SqFt										
Condition Inspection Sample I Sample I 48 L 48 L 52 R 52 R 49 O Sample I	ons: PCI: on Comments Number: 10 Comments: & T CR & T CR & T CR AVELING AVELING OIL SPILLAG	54 55: 06	Type:	R R L M L M N	410.00 60.00 4896.00 600.00 10.00	Area:  Ft Ft SqFt SqFt SqFt SqFt		5496.00 SqFi		PCI:						
Condition Inspection Sample I Sample Q 48 L 48 L 52 R 52 R 52 R 49 O Sample I Sample Q	ons: PCI: on Comments  Number: 10  Comments: & T CR & T CR AVELING AVELING OIL SPILLAG  Number: 20	E D3	Type:	R R L M L M N	410.00 60.00 4896.00 600.00	Area:  Ft Ft SqFt SqFt SqFt SqFt		5496.00 SqFi		PCI:						
Condition Inspection Sample I Sample I 48 L 48 L 52 R 52 R 49 O Sample I Sample I Sample I	ons: PCI: on Comments  Number: 10  Comments: & T CR & T CR A VELING AVELING OIL SPILLAG  Number: 20  Comments:	E D3	Type:	R L M L M N R	410.00 60.00 4896.00 600.00	Area:  Ft Ft SqFt SqFt SqFt SqFt SqFt		5496.00 SqFi		PCI:						
Condition Inspection Sample I Sample I 48 L 48 L 52 R 52 R 49 O Sample I Sample I Sample I 49 C 48 L	ons: PCI: on Comments  Number: 10  Comments: & T CR & T CR AVELING AVELING OIL SPILLAG  Number: 20  Comments:	E D3	Type:	Total R  L M L M N R	410.00 60.00 4896.00 600.00 10.00	14 Area: Ft Ft SqFt SqFt SqFt Area: SqFt Ft		5496.00 SqFi		PCI:						

Network: 2R4		Name:	PETER PRINCE	FIELD			
Branch: AP W	Name:	APRON WEST	Use:	APRON	Area:	473,584 SqFt	
Section: 4115	of 6	From: -		То: -		Last Const.: 1/	1/2000
Surface: AAC	Family: C9N59-GA-A	P-AC Zone:		Category:		Rank: P	
<b>Area:</b> 55,81	12 SqFt Length:	250 Ft	Width:	150 Ft			
Slabs:	Slab Length:	Ft Slal	b Width:	Ft	Joint L	ength: Ft	
Shoulder:	Street Type:	Gra	nde: 0		Lanes:	0	
Section Comments:							
Work Date: 1/1/1968	Work Type: BUII	LT	C	ode: IMPORTED	) Is I	Major M&R: True	
Work Date: 1/1/2000	Work Type: MIL	L and OVERLAY	C	ode: ML-OV	Is I	Major M&R: True	
<b>Last Insp. Date:</b> 3/21/2017	7 TotalS	Samples: 13	Surveye	ed: 2			
_	7 TotalS	samples: 13	Surveye	ed: 2			
Conditions: PCI: 59	7 TotalS	amples: 13	Surveye	ed: 2			
Conditions: PCI: 59 Inspection Comments:	7 TotalS  Type: R	Samples: 13	Surveye 5534.00 SqFt	ed: 2	59		
Conditions: PCI: 59 Inspection Comments: Sample Number: 101					59		
Conditions: PCI: 59 Inspection Comments: Sample Number: 101 Sample Comments:		Area:			59		
Conditions: PCI: 59 Inspection Comments: Sample Number: 101 Sample Comments: 45 DEPRESSION	Type: R				59		
Conditions: PCI: 59 Inspection Comments: Sample Number: 101 Sample Comments: 45 DEPRESSION	Type: R	Area:			59		
Conditions: PCI: 59 Inspection Comments: Sample Number: 101 Sample Comments: 45 DEPRESSION 48 L & T CR	Type: R  L L	Area: 12.00 SqFt 606.00 Ft			59		
Conditions: PCI: 59 Inspection Comments: Sample Number: 101 Sample Comments: 45 DEPRESSION 48 L & T CR 52 RAVELING 52 RAVELING	Type: R  L  L  L	Area:  12.00 SqFt 606.00 Ft 5234.00 SqFt					
Conditions: PCI: 59 Inspection Comments:  Sample Number: 101 Sample Comments:  45 DEPRESSION 48 L & T CR 52 RAVELING 52 RAVELING 52 RAVELING 53 RAVELING 54 Sample Number: 502	Type: R  L L L M	Area:  12.00 SqFt 606.00 Ft 5234.00 SqFt 300.00 SqFt	5534.00 SqFt	PCI:			
Conditions: PCI: 59 Inspection Comments:  Sample Number: 101 Sample Comments:  45 DEPRESSION 48 L & T CR 52 RAVELING 52 RAVELING 52 RAVELING 53 Sample Number: 502 Sample Comments:	Type: R  L L L M  Type: R	Area:  12.00 SqFt 606.00 Ft 5234.00 SqFt 300.00 SqFt  Area:	5534.00 SqFt	PCI:			
Conditions: PCI: 59 Inspection Comments:  Sample Number: 101 Sample Comments:  45 DEPRESSION 48 L & T CR 52 RAVELING	Type: R  L L L M	Area:  12.00 SqFt 606.00 Ft 5234.00 SqFt 300.00 SqFt	5534.00 SqFt	PCI:			
Conditions: PCI: 59 Inspection Comments:  Sample Number: 101 Sample Comments:  45 DEPRESSION 48 L & T CR 52 RAVELING 52 RAVELING 52 RAVELING 52 RAVELING 53 Sample Number: 502 Sample Comments:  48 L & T CR	Type: R  L L L M  Type: R	Area:  12.00 SqFt 606.00 Ft 5234.00 SqFt 300.00 SqFt  Area:	5534.00 SqFt	PCI:			

Network: 2R4		Name:	PETER PRINCE	FIELD		
Branch: AP W	Name:	APRON WEST	Use:	APRON	Area:	473,584 SqFt
Section: 4120	of 6	From: -		То: -		<b>Last Const.:</b> 1/1/1995
Surface: AC	Family: C9N59-GA-	AP-AC Zone:		Category:		Rank: P
Area: 50,5	S45 SqFt Length	210 Ft	Width:	267 Ft		
Slabs:	Slab Length:	Ft Sla	b Width:	Ft	Joint Length	: Ft
Shoulder:	Street Type:	Gr	<b>ade:</b> 0		Lanes: 0	
Section Comments:						
Work Date: 1/1/1995	Work Type: BU	JILT	Co	ode: IMPORTED	Is Major	M&R: True
Last Insp. Date: 3/21/201	17 Tota	lSamples: 11	Surveye	<b>d:</b> 2		
Conditions: PCI: 61						
Inspection Comments:						
Sample Number: 701	Type: R	Area:	3975.00 SqFt	<b>PCI:</b> 62		
Sample Comments:						
48 L & T CR	L	180.00 Ft				
52 RAVELING	L	3400.00 SqFt				
52 RAVELING	M	575.00 SqFt				
Sample Number: 750	Type: R	Area:	4050.00 SqFt	<b>PCI:</b> 61		
Sample Comments:						
48 L & T CR	L	175.00 Ft				
52 RAVELING	L	3350.00 SqFt				
52 RAVELING	M	700.00 SqFt				

Netwo	ork: 2R4					Na	me: PETI	ER PRINCI	E FIELD				
Brancl	h: AP W			Nan	ne: APRO	ON WE	ST	Use:	APRON		Area:	47	3,584 SqFt
Section	n: 4125		of 6		From:	-			То: -				<b>Last Const.:</b> 1/1/199
Surfac	e: AC	Famil	y: C9	9N59-	GA-AP-AC	Zoi	ne:		Category	7 <b>:</b>			Rank: P
Area:		117,425 SqFt		Le	ngth:	440	Ft	Width:	267	Ft			
Slabs:		Slab	Length	:	Ft		Slab Width:		Ft		Joint Len	gth:	Ft
Should	der:	Stree	t Type:				Grade: 0				Lanes:	0	
Section	n Comments:												
Work	<b>Date:</b> 1/1/199	16	Work	Type:	BUILT			(	Code: IMPOR	TED	Is Ma	ajor M	I&R: True
Condi	nsp. Date: 3/ctions: PCI:	62		7	FotalSamples:	23		Survey	<b>ed:</b> 3				
Sampl	e Number: 1	.50	Type:	F	₹ ,	Area:	4450	.00 SqFt	PC	<b>[:</b> 62			
Sampl	e Comments:												
52 48 52	RAVELING L & T CR RAVELING			M L L	900.00 41.00 3550.00	Ft							
Sampl	e Number: 3	300	Type:	F	₹ .	Area:	4450	.00 SqFt	PC	<b>[:</b> 61			
Sampl	e Comments:												
48 52 52	L & T CR RAVELING RAVELING			L L M	156.00 3550.00 900.00	SqFt							
Sampl	e Number: 4	151	Type:	F	₹ .	Area:	5799	.00 SqFt	PC	<b>[:</b> 63			
Sampl	e Comments:												
48 52 52	L & T CR RAVELING RAVELING			L L M	129.00 4799.00 1000.00	SqFt							

Bran	ch: AP	W			Name:	APRON WE	ST	Use:	APRON	Area	a:	473,584 Sq	Ft
Section	on: 4130		0	f 6	I	From: -			То: -			Last Co	nst.: 1/1/200
Surfa	ice: AC		Family:	C9N	159-GA-AI	P-AC Zoi	ne:		Category:			Rank:	P
Area	:	88,0	)86 SqFt		Length:	275	Ft	Width:	275 F	't			
Slabs	:		Slab Ler	gth:		Ft	Slab Width:		Ft		Joint Lengtl	h:	Ft
Shou	lder:		Street T	ype:			Grade: 0				Lanes: (	)	
Section	on Comment	s:											
Worl	<b>Date:</b> 1/1/2	2007	W	ork T	ype: New	Construction - AC		C	ode: NC-AC		Is Majo	r M&R: Tr	ue
Last	Insp. Date:	3/21/20	17		TotalS	amples: 22		Surveye	<b>d:</b> 3				
Cond	litions: PO	CI: 68											
Inspe	ection Comm	ents:											
 Samp	ole Number:	100	Tyj	e:	R	Area:	3750	0.00 SqFt	PCI:	79			
Samp	ole Comment	ts:											
52	RAVELIN	G		I	_	1000.00 SqFt							
57	WEATHE	RING		I	_	2750.00 SqFt							
Samp	ole Number:	108	Tyj	e:	R	Area:	3750	0.00 SqFt	PCI:	65			
Samp	ole Comment	s:											
48	L & T CR			Ι		100.00 Ft							
52	RAVELIN	G		I	_	1000.00 SqFt							
57	WEATHE	RING		I	_	2009.00 SqFt							
50	PATCHIN	G		I	_	741.00 SqFt							
Samp	ole Number:	116	Tyj	e:	R	Area:	3750	0.00 SqFt	PCI:	60			
Samp	ole Comment	ts:											
48	L & T CR			I	_	105.00 Ft							
52	RAVELIN	G		I		1000.00 SqFt							
57	WEATHE			I		1450.00 SqFt							
50	PATCHIN			I		1300.00 SqFt							

PETER PRINCE FIELD

Name:

Network:

2R4

PETER PRINCE FIELD 2R4 Network: Name: **Branch: RU RW 18** Name: **RUN-UP RUNWAY 18** Use: APRON Area: 23,004 SqFt **Section:** 5105 of 2 From: To: -**Last Const.:** 1/1/2011 Surface: ACFamily: C9N59-GA-AP-AC Zone: Category: Rank: P Width: Area: 11,805 SqFt Length: 150 Ft 50 Ft Slabs: Slab Length: Ft Slab Width: Ft Joint Length: Ft **Street Type:** 0 Lanes: **Shoulder:** Grade: **Section Comments:** Work Date: 1/1/2011 Work Type: New Construction - Initial Code: NU-IN Is Major M&R: True **Last Insp. Date:** 3/21/2017 **TotalSamples:** 3 Surveyed: 1 **Conditions:** PCI: **Inspection Comments:** 3427.00 SqFt Sample Number: 101 R **PCI:** 94 Type: Area:

**Sample Comments:** 

57 WEATHERING L 3427.00 SqFt

PETER PRINCE FIELD 2R4 Network: Name: **Branch: RU RW 18** Name: **RUN-UP RUNWAY 18** Use: APRON Area: 23,004 SqFt **Section:** 5110 of 2 From: To: -**Last Const.:** 1/1/2011 Surface: AC Family: C9N59-GA-AP-AC Zone: Category: Rank: P Width: Area: 11,199 SqFt Length: 150 Ft 50 Ft Slabs: Slab Length: Ft Slab Width: Ft Joint Length: Ft **Street Type:** 0 Lanes: **Shoulder:** Grade: **Section Comments:** Work Date: 1/1/2011 Work Type: New Construction - Initial Code: NU-IN Is Major M&R: True **Last Insp. Date:** 3/21/2017 **TotalSamples:** 3 Surveyed: 1 **Conditions:** PCI: **Inspection Comments:** 4149.00 SqFt Sample Number: 200 R **PCI:** 94 Type: Area: **Sample Comments:** 

57

WEATHERING

L

4149.00 SqFt

PETER PRINCE FIELD 2R4 Network: Name: **Branch:** RU RW 36 Name: **RUN-UP RUNWAY 36** Use: APRON Area: 22,665 SqFt **Section:** 5205 of 2 From: To: -**Last Const.:** 1/1/2011 Surface: ACFamily: C9N59-GA-AP-AC Zone: Category: Rank: P Width: Area: 12,428 SqFt Length: 160 Ft 50 Ft Slabs: Slab Length: Ft Slab Width: Ft Joint Length: Ft **Street Type:** 0 Lanes: **Shoulder:** Grade: **Section Comments:** Work Date: 1/1/2011 Work Type: New Construction - Initial Code: NU-IN Is Major M&R: True **Last Insp. Date:** 3/21/2017 **TotalSamples:** 3 Surveyed: 1 **Conditions:** PCI: **Inspection Comments:** 3446.00 SqFt Sample Number: 101 R **PCI:** 94 Type: Area:

**Sample Comments:** 

PETER PRINCE FIELD 2R4 Network: Name: **Branch:** RU RW 36 Name: **RUN-UP RUNWAY 36** Use: APRON Area: 22,665 SqFt **Section:** 5210 of 2 From: To: -**Last Const.:** 1/1/2011 Surface: AC Family: C9N59-GA-AP-AC Zone: Category: Rank: P Width: Area: 10,237 SqFt Length: 200 Ft 50 Ft Slabs: Slab Length: Ft Slab Width: Ft Joint Length: Ft **Street Type:** 0 Lanes: **Shoulder:** Grade: **Section Comments:** Work Date: 1/1/2011 Work Type: New Construction - Initial Code: NU-IN Is Major M&R: True **Last Insp. Date:** 3/21/2017 **TotalSamples:** 2 Surveyed: 1 **Conditions:** PCI: **Inspection Comments:** 5193.00 SqFt Sample Number: 201 R **PCI:** 94 Type: Area: **Sample Comments:** 

WEATHERING

L

5193.00 SqFt

Netwo	rk: 2R4			Nai	me: PET	ER PRIN	CE FIEI	LD			
Brancl	h: RW 18-36	Na	me: RUNV	WAY 1	8-36	Use	: RU	JNWAY	Area:	277,500	SqFt
Section	<b>n:</b> 6105 of	1	From:	_				To: -			Const.: 9/1/2016
Surfac	e: AAC Family: C		-GA-RW-AAC-	Zoi	ne:			Category:		Rank	
Area:	277,500 SqFt	L	ength:	3,700	Ft	Width:		75 Ft			
Slabs:	Slab Length		Ft		Slab Width:			Ft	Joi	int Length:	Ft
Should	ler: Street Type	:			Grade: 0				La	nes: 0	
Section	n Comments:										
Work	<b>Date:</b> 1/1/1968 <b>Work</b>	Тур	e: BUILT				Code:	IMPORTED		Is Major M&R:	True
Work	<b>Date:</b> 1/1/1992 <b>Work</b>	Тур	: OVERLAY				Code:	IMPORTED		Is Major M&R:	True
Work	<b>Date:</b> 1/1/1992 <b>Work</b>	Тур	e: OVERLAY				Code:	IMPORTED		Is Major M&R:	True
Work	<b>Date:</b> 9/1/2016 <b>Work</b>	Тур	e: MILL and OVE	RLAY			Code:	ML-OV		Is Major M&R:	True
Last In	nsp. Date: 8/28/2013		TotalSamples:	74		Surve	eyed:	15			
Condi			_	)TE: *	** Pre-Constru						
Inspec	tion Comments:										
Sampl	e Number: 101 Type:		R A	Area:	3750	0.00 SqFt		<b>PCI:</b> 64			
Sampl	e Comments:										
57 48	WEATHERING LONGITUDINAL/TRANSVERSE	L L	3750.00 163.00	_							
52	CRACKING RAVELING	L	3750.00	SaFt							
48	LONGITUDINAL/TRANSVERSE CRACKING		82.00	-							
Sampl	e Number: 105 Type:		R A	Area:	3750	0.00 SqFt		<b>PCI:</b> 64			
Sampl	e Comments:										
57	WEATHERING	L	3750.00	SqFt							
48	LONGITUDINAL/TRANSVERSE CRACKING RAVELING		269.00								
	e Number: 109 Type:	L	3750.00 R	Sqrt Area:	375(	0.00 SqFt		<b>PCI:</b> 59			
•	e Comments:		K F	aica.	3730	7.00 Sqrt		rci. 39			
	WEATHERING LONGITUDINAL/TRANSVERSE	L L	3750.00 71.00	_							
48	CRACKING LONGITUDINAL/TRANSVERSE CRACKING	L	110.00	Ft							
52	RAVELING	L	3750.00	_							
48	LONGITUDINAL/TRANSVERSE CRACKING	M	67.00	Ft							
Sampl	e Number: 114 Type:		R A	Area:	3750	).00 SqFt		<b>PCI:</b> 54			
_	e Comments:					-					
57	WEATHERING	L	3750.00	SaFt							
48	LONGITUDINAL/TRANSVERSE		188.00								
	CRACKING LONGITUDINAL/TRANSVERSE CRACKING	M	117.00	Ft							
52	RAVELING	L	3750.00	SqFt							
48	LONGITUDINAL/TRANSVERSE CRACKING	Н	14.00	Ft							
_	e Number: 120 Type:		R A	Area:	3750	0.00 SqFt		<b>PCI:</b> 62			
Sampl	e Comments:										
48	LONGITUDINAL/TRANSVERSE CRACKING	L	259.00	Ft							
48	LONGITUDINAL/TRANSVERSE CRACKING	M	20.00	Ft						E-	-12

57 52	WEATHERING RAVELING	L L		3750.00 SqFt 2460.00 SqFt			
					2550 00 G F	DOI 50	
_	le Number: 123 Type: le Comments:		R	Area:	3750.00 SqFt	<b>PCI:</b> 59	
48	LONGITUDINAL/TRANSVERSE CRACKING	M		60.00 Ft			
52	RAVELING	L		3750.00 SqFt			
57	WEATHERING	L		3750.00 SqFt			
48	LONGITUDINAL/TRANSVERSE CRACKING	L		293.00 Ft			
Sampl	le Number: 127 Type:		R	Area:	3750.00 SqFt	<b>PCI:</b> 59	
Sampl	le Comments:						
48	LONGITUDINAL/TRANSVERSE CRACKING	M		43.00 Ft			
48	LONGITUDINAL/TRANSVERSE CRACKING	L		332.00 Ft			
57	WEATHERING	L		3750.00 SqFt			
52	RAVELING	L		3750.00 SqFt			
Sampl	le Number: 131 Type:		R	Area:	3750.00 SqFt	<b>PCI:</b> 59	
Sampl	le Comments:						
48	LONGITUDINAL/TRANSVERSE CRACKING	L		129.00 Ft			
52	RAVELING	L		3750.00 SqFt			
57	WEATHERING	L		3750.00 SqFt			
48	LONGITUDINAL/TRANSVERSE CRACKING	L		167.00 Ft			
48	LONGITUDINAL/TRANSVERSE CRACKING	M		64.00 Ft			
Sampl	le Number: 135 Type:		R	Area:	3750.00 SqFt	<b>PCI:</b> 64	
Sampl	le Comments:						
_		T		2750.00 C-E4			
52 57	RAVELING WEATHERING	L L		3750.00 SqFt 3750.00 SqFt			
48	LONGITUDINAL/TRANSVERSE CRACKING			150.00 Sqrt			
48	LONGITUDINAL/TRANSVERSE CRACKING	L		174.00 Ft			
Sampl	le Number: 141 Type:		R	Area:	3750.00 SqFt	<b>PCI:</b> 59	
Sampl	le Comments:						
48	LONGITUDINAL/TRANSVERSE CRACKING	L		120.00 Ft			
57	WEATHERING	L		3750.00 SqFt			
52	RAVELING	L		3750.00 SqFt			
48	LONGITUDINAL/TRANSVERSE CRACKING	L		97.00 Ft			
48	LONGITUDINAL/TRANSVERSE CRACKING	M		84.00 Ft			
Sampl	le Number: 149 Type:		R	Area:	3750.00 SqFt	<b>PCI:</b> 64	
_	le Comments:				•		
48	LONGITUDINAL/TRANSVERSE CRACKING	L		121.00 Ft			
57	WEATHERING	L		3750.00 SqFt			
52	RAVELING	L		3750.00 SqFt			
48	LONGITUDINAL/TRANSVERSE CRACKING	L		150.00 Ft			
Sampl	le Number: 156 Type:		R	Area:	3750.00 SqFt	<b>PCI:</b> 59	
Sampl	le Comments:						
48	LONGITUDINAL/TRANSVERSE CRACKING	L		195.00 Ft			
48	LONGITUDINAL/TRANSVERSE CRACKING	M		35.00 Ft			
48	LONGITUDINAL/TRANSVERSE CRACKING	L		100.00 Ft			E-13

52	RAVELING	L		3750.00 SqFt			
57	WEATHERING	L		3750.00 SqFt			
Samp	de Number: 162 Type:		R	Area:	3750.00 SqFt	PCI:	64
Samp	le Comments:						
48	LONGITUDINAL/TRANSVERSE CRACKING	L		165.00 Ft			
48	LONGITUDINAL/TRANSVERSE CRACKING	L		179.00 Ft			
52	RAVELING	L		3750.00 SqFt			
57	WEATHERING	L		3750.00 SqFt			
Samp	ole Number: 167 Type:		R	Area:	3750.00 SqFt	PCI:	59
Samp	le Comments:						
52	RAVELING	L		3750.00 SqFt			
57	WEATHERING	L		3750.00 SqFt			
48	LONGITUDINAL/TRANSVERSE CRACKING	L		228.00 Ft			
48	LONGITUDINAL/TRANSVERSE CRACKING	M		70.00 Ft			
Samp	de Number: 171 Type:		R	Area:	3750.00 SqFt	PCI:	66
Samp	le Comments:						
48	LONGITUDINAL/TRANSVERSE CRACKING	M		62.00 Ft			
48	LONGITUDINAL/TRANSVERSE CRACKING	L		271.00 Ft			
57	WEATHERING	L		3750.00 SqFt			
52	RAVELING	L		1450.00 SqFt			

Network:	2R4				Naı	ne: PE	TER PRINCE	FIELD			
Branch:	TW A		Name:	TAX	IWAY A	Α	Use:	TAXIWAY	Area:	106,175 SqFt	
Section:	105	of	5	From:	-			То: -		Last Const.:	1/1/1992
Surface:	AC	Family:	C9N59-GA	-TW-AC	Zor	ne:		Category:		Rank: T	
Area:	12,	759 SqFt	Lengt	h:	500	Ft	Width:	25 Ft			
Slabs:		Slab Len	gth:	Ft		Slab Width:		Ft	Joint Lengt	h: Ft	
Shoulder:		Street Ty	pe:			Grade: 0	)		Lanes:	0	
Section Co	mments:										
Work Date	e: 1/1/1992	Wo	ork Type: O	VERLAY			C	ode: IMPORTED	Is Majo	or M&R: True	
Work Date	e: 1/1/1992	Wo	ork Type: B	UILT			C	ode: IMPORTED	Is Majo	or M&R: True	
Last Insp.	<b>Date:</b> 3/21/20	)17	Tot	alSamples:	3		Surveye	ed: 1			
Conditions	s: <b>PCI</b> : 62	2									
Inspection	Comments:										
Sample Nu	mber: 101	Тур	e: R		Area:	437	5.00 SqFt	PCI: 62	2		
Sample Co	mments:										
48 L&	T CR		L	278.00	) Ft						
	VELING		L	3975.00	_						
52 RA	VELING		M	400.00	SqFt						

Network: 2R4		Nar	ne: PETER PRINCE	FIELD		
Branch: TW A	Name:	TAXIWAY A	Use:	TAXIWAY	Area: 1	06,175 SqFt
Section: 115	of 5	From: -		То: -		<b>Last Const.:</b> 1/1/1995
Surface: AC	Family: C9N59-GA-	TW-AC Zor	ne:	Category:		Rank: P
Area: 38	3,153 SqFt Length	1,300 1	Ft Width:	25 Ft		
Slabs:	Slab Length:	Ft	Slab Width:	Ft	Joint Length:	Ft
Shoulder:	Street Type:		Grade: 0		Lanes: 0	
<b>Section Comments:</b>						
Work Date: 1/1/1995	Work Type: BU	JILT	C	Code: IMPORTED	Is Major N	M&R: True
Last Insp. Date: 3/21/2		ISamples: 8	Surveye	ed: 2		
Conditions: PCI: 5	59					
<b>Inspection Comments:</b>						
Sample Number: 106	Type: R	Area:	5000.00 SqFt	<b>PCI:</b> 59		
Sample Comments:						
48 L & T CR	L	425.00 Ft				
52 RAVELING	L	4500.00 SqFt				
52 RAVELING	M	500.00 SqFt				
Sample Number: 110	Type: R	Area:	3662.00 SqFt	<b>PCI:</b> 59		
Sample Comments:						
48 L & T CR	L	58.00 Ft				
52 RAVELING	L	2462.00 SqFt				
50 PATCHING	L	1000.00 SqFt				
52 RAVELING	M	200.00 SqFt				

Network:	2R4			Nai	ne: PET	TER PRINCE	FIELD			
Branch:	TW A		Name:	TAXIWAY A	Α	Use:	TAXIW	AY	Area:	106,175 SqFt
Section:	120	0	f 5	From: -			To:	-		Last Const.: 1/1/1996
Surface:	AC	Family:	C9N59-GA-	TW-AC Zoi	ne:		Categ	gory:		Rank: P
Area:		6,724 SqFt	Length	200 i	Ft	Width:		25 Ft		
Slabs:		Slab Len	ngth:	Ft	Slab Width:		Ft		Joint Lengt	<b>h:</b> Ft
Shoulder:		Street Ty	ype:		Grade: 0				Lanes:	0
Section Co	mments:									
Work Date	e: 1/1/1996	W	ork Type: BU	JILT		C	Code: IMP	ORTED	Is Majo	or M&R: True
Last Insp.	<b>Date:</b> 3/21	1/2017	Tota	lSamples: 2		Surveye	e <b>d:</b> 1			
Conditions	s: PCI:	61								
Inspection	Comments	:								
Sample Nu	mber: 10	1 <b>Ty</b> I	pe: R	Area:	3908	8.00 SqFt	]	PCI: 61		
Sample Co	mments:									
48 L&	T CR		L	185.00 Ft						
52 RA	VELING		L	2108.00 SqFt						
50 PA	TCHING		L	1800.00 SqFt						

Network:	2R4			Nam	e: PETER PRINC	E FIELD		
Branch:	TW A		Name:	TAXIWAY A	Use:	TAXIWAY	Area:	106,175 SqFt
Section:	500	of	f 5	From: -		То: -		Last Const.: 1/1/2007
Surface:	AC	Family:	C9N59-GA-T	W-AC Zone	<b>::</b>	Category:		Rank: P
Area:		9,348 SqFt	Length:	380 F	Width:	25 Ft		
Slabs:		Slab Len	gth:	Ft	Slab Width:	Ft	Joint Leng	th: Ft
Shoulder:		Street Ty	pe:		Grade: 0		Lanes:	0
Section Co	mments:							
Work Date	: 1/1/2007	W	ork Type: New	Construction - AC		Code: NC-AC	Is Maj	or M&R: True
Last Insp. l	<b>Date:</b> 3/21	1/2017	Totals	Samples: 2	Surve	v <b>ed:</b> 1		
Conditions	: PCI:	70						
Inspection	Comments	:						
Sample Nu	mber: 98	Тур	oe: R	Area:	4347.00 SqFt	PCI: 7	0	
Sample Co	mments:							
52 RAV	VELING		L	3900.00 SqFt				
	PRESSION		L	9.00 SqFt				
52 RAV	VELING		M	5.00 SqFt				

Network:	2R4			Name:	PETER PRINCE	FIELD		
Branch:	TW A		Name:	TAXIWAY A	Use:	TAXIWAY	Area:	106,175 SqFt
Section:	510	of	5 I	rom: -		То: -		Last Const.: 1/1/2001
Surface:	AC	Family:	C9N59-GA-TV	V-AC Zone:		Category:		Rank: P
Area:		39,191 SqFt	Length:	1,518 Ft	Width:	25 Ft		
Slabs:		Slab Len	gth:	Ft SI	ab Width:	Ft	Joint Lei	ngth: Ft
Shoulder:		Street Ty	pe:	G	rade: 0		Lanes:	0
Section Co	omments:							
Work Date	e: 1/1/2001	1 <b>W</b> o	ork Type: New	Construction - AC	C	Code: NC-AC	Is M	ajor M&R: True
Last Insp.	<b>Date:</b> 3/2	21/2017	TotalS	amples: 8	Survey	ed: 1		
Conditions	s: PCI:	62						
Inspection	Comment	s:						
Sample Nu	umber: 10	03 <b>Typ</b>	e: R	Area:	5000.00 SqFt	PCI: 62	2	
Sample Co	omments:							
52 RA	VELING		L	4200.00 SqFt				
48 L &	k T CR		L	208.00 Ft				

RAVELING

M

800.00 SqFt

Netwo	ork: 2R4			Nar	ne: PETE	R PRINCE	FIELD			
Branc	ch: TW B		Name:	TAXIWAY E	3	Use:	TAXIWAY	Area:	13	31,828 SqFt
Section	on: 205	of 4		From: -			То: -			<b>Last Const.:</b> 1/1/199
Surfa	ice: AC	Family: C	N59-GA-	ΓW-AC <b>Zor</b>	ne:		Category:			Rank: P
Area:	: 104,96	58 SqFt	Length	4,200 1	Ft <b>V</b>	Width:	25 Ft			
Slabs	:	Slab Length	:	Ft	Slab Width:		Ft	Join	t Length:	Ft
Shoul	lder:	Street Type:			Grade: 0			Lane	es: 0	
Sectio	on Comments:									
Work	<b>Date:</b> 1/1/1992	Work	Type: BU	TILT		C	ode: IMPORTE	D ]	s Major N	<b>1&amp;R:</b> True
Last l	Insp. Date: 3/21/201	7	Total	Samples: 21		Surveye	<b>d:</b> 4			
Cond	itions: PCI: 62									
Inspe	ection Comments:									
Samp	ole Number: 103	Type:	R	Area:	5000.0	00 SqFt	PCI:	64		
Samp	ole Comments:									
48	L & T CR		L	224.00 Ft						
48	L & T CR		M	36.00 Ft						
52	RAVELING		L	5000.00 SqFt						
Samp	ole Number: 111	Type:	R	Area:	5000.0	00 SqFt	PCI:	65		
Samp	ole Comments:									
48	L & T CR		L	84.00 Ft						
48	L & T CR		M	181.00 Ft						
52	RAVELING		L	5000.00 SqFt						
Samp	ole Number: 117	Type:	R	Area:	5000.0	00 SqFt	PCI:	64		
Samp	ole Comments:									
48	L & T CR		L	112.00 Ft						
48	L & T CR		M	110.00 Ft						
52	RAVELING		L	5000.00 SqFt						
Samp	ole Number: 120	Type:	R	Area:	4427.0	00 SqFt	PCI:	54		
Samp	ole Comments:									
50	PATCHING		L	1000.00 SqFt						
48	L & T CR		L	121.00 Ft						
48	L & T CR		M	130.00 Ft						
48	L & T CR		Н	9.00 Ft						
52	RAVELING		L	3427.00 SqFt						

Networ	k: 2R4				Nan	ne: PET	ER PRINCE	FIELD			
Branch	: TW B		Name:	TAXI	WAY B		Use:	TAXIWAY	Area:	131,828 SqFt	
Section	: 210	0	f 4	From:	-			То: -		Last Const.:	1/1/1992
Surface	: AC	Family:	C9N59-GA-	ΓW-AC	Zon	e:		Category:		Rank: P	
Area:		8,970 SqFt	Length	:	250 F	it .	Width:	25 Ft			
Slabs:		Slab Ler	ngth:	Ft		Slab Width:		Ft	Joint Leng	gth: Ft	
Should	er:	Street T	ype:			Grade: 0			Lanes:	0	
Section	Comments:										
Work I	Date: 1/1/1992	W	ork Type: OV	ERLAY			C	ode: IMPORTED	Is Ma	jor M&R: True	
Work l	Date: 1/1/1992	W	ork Type: BU	ILT			C	ode: IMPORTED	Is Ma	jor M&R: True	
Last In	sp. Date: 3/21	1/2017	Tota	Samples:	2		Surveye	e <b>d:</b> 1			
Condit	ions: PCI:	46									
nspect	ion Comments	:									
Sample	Number: 20	1 <b>Ty</b> ]	pe: R		\rea:	4547	7.00 SqFt	PCI: 4	6		
Sample	Comments:	Sample geome	etry has been up	odated to con	ply with	h ASTM standa	ards				
18	L & T CR		L	35.00	Ft						
18	L & T CR		M	266.00	Ft						
52	RAVELING		L	3900.00	SqFt						
18	L & T CR		H	10.00							

5.00 SqFt 20.00 SqFt 647.00 SqFt

L

M

45

52

RAVELING

DEPRESSION

PETER PRINCE FIELD 2R4 Network: Name: **Branch:** TW B Name: TAXIWAY B Use: TAXIWAY Area: 131,828 SqFt **Section:** 215 of 4 From: To: **Last Const.:** 1/1/1996 Surface: ACFamily: C9N59-GA-TW-AC Zone: Category: Rank: P 250 Ft Area: 9,340 SqFt Length: Width: 25 Ft Slabs: Slab Length: Ft Slab Width: Ft Joint Length: Ft **Street Type:** 0 **Shoulder:** Grade: Lanes: **Section Comments: Work Date:** 1/1/1996 Work Type: BUILT Code: IMPORTED Is Major M&R: True **Last Insp. Date:** 3/21/2017 **TotalSamples:** 2 Surveyed: 1 **Conditions:** PCI: **Inspection Comments:** Sample Number: 101 4670.00 SqFt R **PCI:** 57 Type: Area:

Sam	Sample Comments:								
48	L & T CR	L	128.00	Ft					
48	L & T CR	M	145.00	Ft					
52	RAVELING	L	4270.00	SqFt					
52	RAVELING	M	400.00	SqFt					

Netwo	rk: 2R4				Nam	ne: PE'	TER PRINCI	E FIELD				
Branc	h: TW B		Name	TAXI	WAY B		Use:	TAXIV	VAY	Area:	131,828 SqF	't
Section	n: 250	of	4	From:	-			To:	-		Last Con	ast.: 4/1/2015
Surfac	e: AC	Family: (	C9N59-GA	A-TW-AC	Zone	e:		Cat	egory:		Rank: I	•
Area:		8,550 SqFt	Leng	th:	120 F	't	Width:		35 Ft			
Slabs:		Slab Lengt	h:	Ft		Slab Width:		Ft		Joint Leng	th:	Ft
Should	ler:	Street Type	e:			Grade: 0				Lanes:	0	
Section	n Comments:											
Work	<b>Date:</b> 1/1/1992	Wor	k Type: B	BUILT			(	Code: IM	PORTED	Is Maj	or M&R: True	e
Work	<b>Date:</b> 4/1/2015	Wor	k Type: C	Complete Recor	structio	n - AC	(	Code: CR	-AC	Is Maj	or M&R: True	e
Last I	nsp. Date: 8/2	8/2013	Tot	talSamples:	1		Survey	<b>ed:</b> 1				
Condi	tions: PCI:	52		NO	)TE: **	* Pre-Constr	uction PCI *	**				
Inspec	tion Comments	s <b>:</b>										
Sampl	e Number: 20	00 Type:	R	A	Area:	461	7.00 SqFt		<b>PCI:</b> 52			
Sampl	e Comments:											
48	LONGITUDIN CRACKING	IAL/TRANSVERSE	М	70.00	Ft							
48	LONGITUDIN CRACKING	IAL/TRANSVERSE	Н	192.00	Ft							
48	LONGITUDIN CRACKING	IAL/TRANSVERSE	L	69.00	Ft							
57	WEATHERING	G	M	4617.00	SqFt							

Network:	2R4			1	Name: PI	ETER PRINCE	FIELD		
Branch:	TW C		Name:	TAXIWA	Y C	Use:	TAXIWAY	Area:	11,689 SqFt
Section:	305	0	of 1	From: -			То: -		<b>Last Const.:</b> 1/1/196
Surface:	AC	Family:	C9N59-GA	-TW-AC	Zone:		Category:		Rank: P
Area:		11,689 SqFt	Lengt	h: 25	0 Ft	Width:	40 Ft		
Slabs:		Slab Lei	ngth:	Ft	Slab Width	:	Ft	Joint Length:	: Ft
Shoulder:		Street T	ype:		Grade:	0		Lanes: 0	
Section Co	mments:								
Work Date	e: 1/1/1968	W	ork Type: O	VERLAY		C	dode: IMPORTED	Is Major	M&R: True
Work Date	e: 1/1/1968	W	ork Type: B	UILT		C	dode: IMPORTED	Is Major	M&R: True
Last Insp.	<b>Date:</b> 3/2	1/2017	Tota	alSamples: 2		Surveye	ed: 1		
Conditions	s: PCI:	57							
Inspection	Comments	:							
Sample Nu	imber: 10	1 <b>Ty</b> j	pe: R	Area	: 64	41.00 SqFt	PCI: 5	7	
Sample Co	omments:								
45 DEI	PRESSION		L	3.00 Sq	Ft				
48 L &	T CR		L	281.00 Ft					
48 L&	T CR		M	75.00 Ft					
52 RA	VELING		L	5300.00 Sq	Ft				
52 RA	VELING		M	1141.00 Sq	_				

Network:	2R4				Nar	ne: PET	ER PRINCE	E FIEI	LD				
Branch:	TW D		Name:	TAXIV	VAY I	)	Use:	TA	AXIWAY	Area:	10,289	SqFt	
Section:	405	0	of 2	From:					То: -		Last	Const.:	1/1/1992
Surface:	AAC	Family:	C9N59-GA-	TW-AC	Zor	ie:			Category:		Rank	<b>:</b> P	
Area:		7,141 SqFt	Lengtl	ı:	160 l	₹t	Width:		40 Ft				
Slabs:		Slab Lei	ngth:	Ft		Slab Width:			Ft	Joint Leng	th:	F	<sup>7</sup> t
Shoulder:		Street T	ype:			Grade: 0				Lanes:	0		
Section Co	mments:												
Work Date	: 1/1/1970	W	ork Type: O	VERLAY			(	Code:	IMPORTED	Is Maj	or M&R:	True	
Work Date	: 1/1/1970	W	ork Type: BU	JILT			(	Code:	IMPORTED	Is Maj	or M&R:	True	
Work Date	: 1/1/1992	W	ork Type: M	ILL and OVE	RLAY		(	Code:	ML-OV	Is Maj	or M&R:	True	
Last Insp. 1	<b>Date:</b> 3/21	/2017	Tota	lSamples:	2		Survey	ed:	1				
Conditions	: PCI:	56											
Inspection	Comments	•											
Sample Nu	mber: 40	2 <b>Ty</b>	pe: R	A	rea:	3937	7.00 SqFt		<b>PCI:</b> 56				
Sample Co	mments:												
48 L&	TCR		L	200.00	Ft								
48 L &	TCR		M	83.00	Ft								
52 RA	VELING		L	3300.00	SqFt								
52 RA	VELING		M	637.00	SqFt								

Network:	2R4				Nam	e: PET	ER PRINCI	E FIELD			
Branch:	TW D		Name:	TAXIV	WAY D		Use:	TAXIWAY	Area:	10,289	9 SqFt
Section:	410	O	f 2	From:	-			То: -		Las	t Const.: 1/1/199
Surface:	AAC	Family:	C9N59-GA-T APC	W-AAC-	Zone	e:		Category:		Rar	nk: P
Area:		3,148 SqFt	Length:		40 Ft	t	Width:	40 Ft			
Slabs:		Slab Len	ngth:	Ft		Slab Width:		Ft	Joint Le	ngth:	Ft
Shoulder:		Street Ty	ype:			Grade: 0			Lanes:	0	
Section Co	mments:										
Work Date	: 1/1/1970	W	ork Type: BUI	LT			(	Code: IMPORTED	Is M	lajor M&R:	True
Work Date	: 1/1/1992	W	ork Type: OVI	ERLAY			(	Code: IMPORTED	Is M	lajor M&R:	True
Last Insp.	<b>Date:</b> 3/2	1/2017	TotalS	amples:	1		Survey	<b>ed:</b> 1			
Conditions	: PCI:	50									
Inspection	Comments	:									
Sample Nu	mber: 40	0 Тур	pe: R	A	rea:	3148	3.00 SqFt	PCI:	50		
Sample Co	mments:										
48 L&	T CR		L	112.00	Ft						
48 L&	T CR		M	12.00	Ft						
52 RA	VELING		L	1498.00	SqFt						
50 PA7	ГСНING		L	1600.00	-						
52 RA	VELING		M	50.00	~ ~						

Branch:	TW HANG		Name:	TAXIWAY TO HAN	GAR Use:	TAXIWAY	Area:	70,365 SqFt
Section:	605	of	1	From: -		То: -		<b>Last Const.:</b> 8/1/2013
Surface:	AC	Family: (	C9N59-GA	-TW-AC Zone:		Category:		Rank: P
Area:	70,	365 SqFt	Lengt	<b>h:</b> 400 Ft	Width:	35 Ft		
Slabs:		Slab Lengt	h:	Ft Slab V	Vidth:	Ft	Joint Lengtl	n: Ft
Shoulder:	:	Street Type	e:	Grade	: 0		Lanes: 0	)
Section Co	comments:							
Work Dat	te: 8/1/2013	Worl	k Type: N	ew Construction - Initial	C	ode: NU-IN	Is Majo	r M&R: True
Last Insp.	. Date: 3/21/20	17	Tot	alSamples: 18	Surveye	ed: 3		
Condition	ns: PCI: 94	ļ						
Inspection	n Comments:							
Sample N	umber: 101	Type:	R	Area:	3500.00 SqFt	<b>PCI:</b> 94		
Sample Co	Comments:							
57 WI	EATHERING		L	3500.00 SqFt				
Sample N	Jumber: 301	Type:	R	Area:	3500.00 SqFt	<b>PCI:</b> 94		
Sample Co	Comments:							
-			_	2500 00 G F:				
-	EATHERING		L	3500.00 SqFt				
57 WI	EATHERING lumber: 402	Type:		3500.00 SqFt  Area:	3500.00 SqFt	<b>PCI:</b> 94		
57 WI	Tumber: 402	Type:			3500.00 SqFt	<b>PCI</b> : 94		

Name:

Network:

2R4

PETER PRINCE FIELD