FLORIDA DEPARTMENT OF TRANSPORTATION
AVIATION AND SPACEPORT OFFICE

ORMOND BEACH MUNICIPAL AIRPORT (OMN)

DISTRICT 5

REGIONAL RELIEVER AIRPORT

JUNE 2015

STATEWIDE Airfield Pavement Management PROGRAM

FDOT

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
FLP
Office of Freight, Logistics and Passenger Operations

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EXECUTIVE SUMMARY

In 2012, the Florida Department of Transportation (FDOT) Central Aviation Office selected a team lead by Kimley-Horn and Associates, Inc. and including their subconsultants Penuel Consulting and LLC, Roy D. McQueen & Associates, LTD, to provide services in support of FDOT in the continued efforts of updating the existing Statewide Airfield Pavement Management Program (SAPMP). This work is to be completed over the fiscal years of 2013 through 2015.

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

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

In December 2014, a PCI survey inspection was performed at Ormond Beach Municipal Airport. The results of the inspection indicate that, based on ASTM D 5340-12, the airport's airfield pavement facilities had an overall area-weighted average PCI of 68, representing a Fair overall network condition. Table I summarizes the overall condition summary by network level branch in comparison to the FDOT recommended minimum service level and action recommendations for either major rehabilitation or maintenance level activities.

Table I: Condition Summary by Branch

Branch Name	Area Weighted PCI	PCI Range	Average Condition Rating	FDOT Minimum Service Level	MicroPAVER Minimum PCI	Action Required
CENTER APRON	46	46 - 53	POOR	65	65	X
EAST APRON - HANGAR AREA	24	24	SERIOUS	65	65	X
RUN-UP APRON	100	100	GOOD	65	65	
AP T-HANG	71	71	SATISFACTORY	65	65	
WEST APRON	62	29 - 67	FAIR	65	65	X
RUNWAY 17-35	75	74 - 76	SATISFACTORY	75	65	X
RUNWAY 8-26	67	67	FAIR	75	65	X
TAXIWAY ALPHA	100	100	GOOD	65	65	
TAXIWAY BRAVO	55	37 - 100	POOR	65	65	X
TAXIWAY CHARLIE	100	100	GOOD	65	65	
TAXIWAY DELTA	52	43 - 100	POOR	65	65	X
TAXIWAY ECHO	61	41 - 100	FAIR	65	65	X
TAXIWAY FOXTROT	50	48 - 51	POOR	65	65	X
TAXIWAY TO T-HANGARS	31	31	VERY POOR	65	65	X

"Action Required" in Table I is triggered when a section within the identified Branch Facility falls below the FDOT Minimum Service Level. Year 1 Major Rehabilitation needs are triggered in Table III when a section in the identified Branch falls below the MicroPAVER Minimum PCI. Major Rehabilitation is also triggered in Table III when the section PCI is above critical and the section exhibits significant structural related distresses.

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

Table II: Condition Summary by Pavement Facility Use

Use	Average Area-Weighted PCI	Condition Rating
Runway	71	SATISFACTORY
Taxiway	74	SATISFACTORY
Apron	58	FAIR

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

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

- Center Apron – Sections 4204 and 4205
  - Mill and Overlay and Reconstruction attributed to load, climate, and age of pavement.
- East Apron – Section 4305
  - Reconstruction attributed to load, climate, and age of pavement.
- West Apron – Section 4102
  - Reconstruction attributed to load, climate, and age of pavement.
- Taxiway B – Section 205
  - Reconstruction attributed to load, climate, and age of pavement.
- Taxiway D – Section 405
  - Mill and Overlay attributed to climate and age of pavement.
- Taxiway E – Section 505
  - Mill and Overlay attributed to climate and age of pavement.
- Taxiway F – Sections 605 and 650
  - Mill and Overlay attributed to climate and age of pavement.
- Taxiway T-Hangar – Section 2004
  - Reconstruction attributed to load, climate, and age of pavement.

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

Table III: Year-1 Major Rehabilitation Needs for Ormond Beach Municipal Airport

Branch ID	Section ID	Major Rehabilitation Costs	PCI Before M&R	Rehabilitation Activity	PCI After M&R
AP CENTER	4204	$ 88,980.00	52	Mill and Overlay	100
AP CENTER	4205	$ 2,358,399.00	45	Reconstruction	100
AP E	4305	$ 1,135,460.00	23	Reconstruction	100
AP W	4102	$ 445,100.00	28	Reconstruction	100
TW B	205	$ 426,100.00	36	Reconstruction	100
TW D	405	$ 1,404,336.00	42	Mill and Overlay	100
TW E	505	$ 1,127,032.00	40	Mill and Overlay	100
TW F	605	$ 625,410.00	50	Mill and Overlay	100
TW F	650	$ 102,469.00	47	Mill and Overlay	100
TW T-HANG	2004	$ 345,100.00	30	Reconstruction	100
	Total =	$ 8,058,386.00			

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

Since the previous update performed in 2012, significant updates to the ASTM D 5340 Standard Test Method for Airport Pavement Condition Index Surveys have affected the analysis of the program. These include the separation of Weathering and Raveling into two distinct flexible pavement distresses, and the addition of the Alkali-Silica Reaction distress for rigid pavement distresses. Additionally, the deterioration associated with the rigid pavement distress Scaling/Map Cracking has been modified. The change in distress classification, as described in ASTM D

5340-12, may result in small variances in the PCI values from the previous inspection analysis. The update included changes in distress deduction values that may be less than the previous analysis. Please refer to Section 3 Airfield Pavement Condition Index for additional information.

Additionally, pavement repair and rehabilitation work reported by the airports are entered into the SAPMP which can improve PCI values.

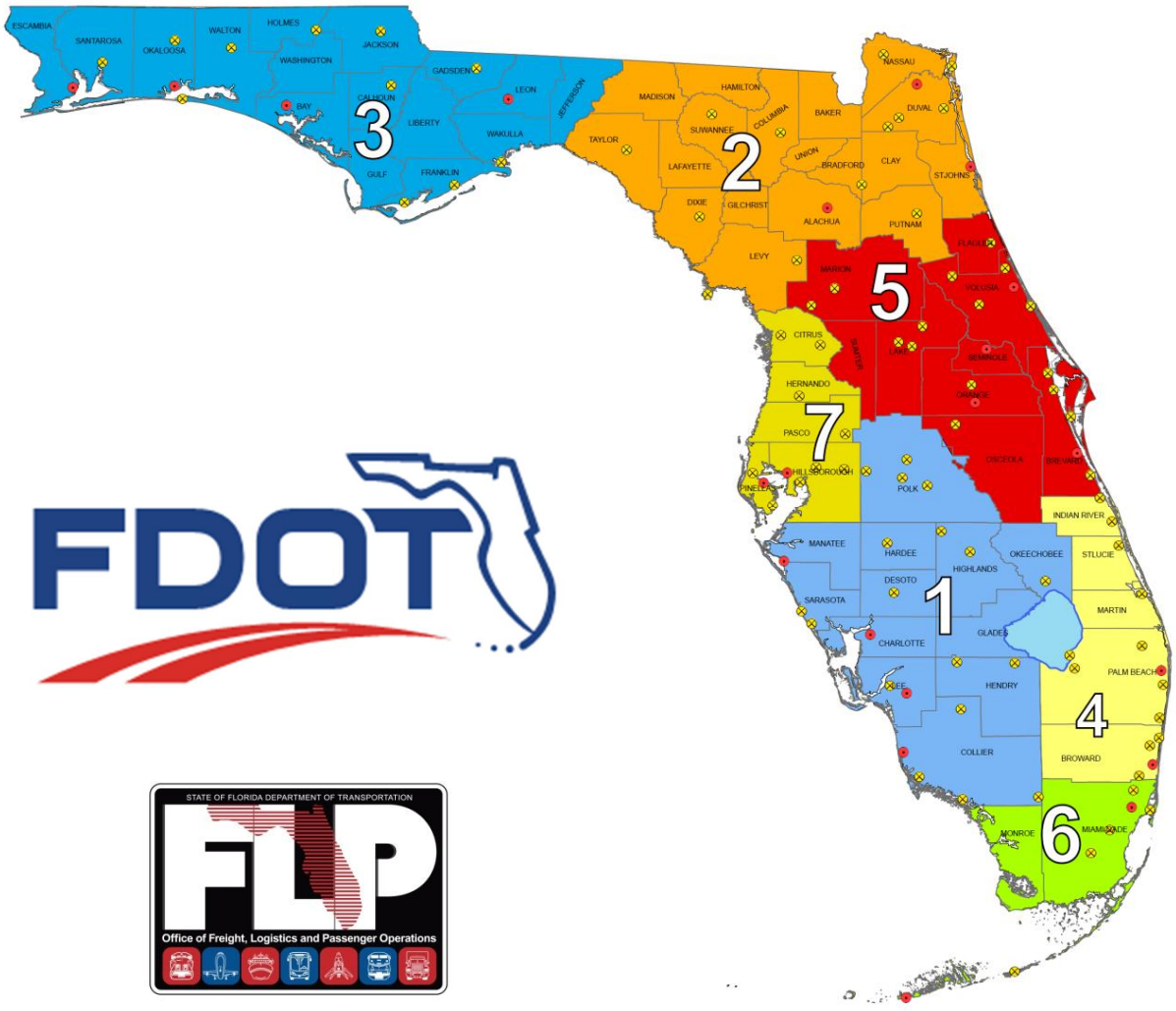
Table IV: 10-Year Preventative Maintenance and Major Rehabilitation

Year	Preventative	Major M&R	Total Year Cost
2015	$ 309,101.52	$ 8,058,387.10	$ 8,367,488.62
2016	$ 142,249.97	$ 7,069,025.57	$ 7,211,275.54
2017	$ 154,248.37	$ -	$ 154,248.37
2018	$ 167,397.86	$ -	$ 167,397.86
2019	$ 159,478.81	$ 925,658.06	$ 1,085,136.87
2020	$ 166,767.87	$ 507,553.50	$ 674,321.36
2021	$ 43,794.07	$ 6,113,167.11	$ 6,156,961.17
2022	$ 101,474.18	$ -	$ 101,474.18
2023	$ 165,038.84	$ -	$ 165,038.84
2024	$ 231,783.70	$ -	$ 231,783.70
Total	$ 1,641,335.19	$ 22,673,791.34	$ 24,315,126.51

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

1. INTRODUCTION

The State of Florida has more than 100 public airports that are vital to the Florida economy as well as the economy of the United States. The aviation system in Florida allows the State to capitalize on an increasingly global marketplace. Florida's system of commercial service and general aviation airports are important to businesses throughout the entire State. Air travel is essential to tourism, Florida's number one industry.



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

The Florida Department of Transportation (FDOT) Central Aviation and Spaceport Office implemented the Statewide Airfield Pavement Management Program (SAPMP) in 1992. In 2012, the FDOT Central Aviation and Spaceport Office selected a team led by Kimley-Horn and Associates, Inc. and including Penuel Consulting, LLC and Roy D. McQueen & Associates, LTD, to provide services in support of the Central Aviation and Spaceport Office Program Manager. The continued evaluation and update of the existing SAPMP is to be completed over fiscal years 2013 through 2015.

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

1.1 Purpose of Pavement Evaluation Report

The purpose of this Airfield Pavement Evaluation Report is to:

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

1.2 FDOT Statewide Airfield Pavement Management Program

In 1992, the FDOT implemented the SAPMP to improve the knowledge of pavement conditions at public airports in the Florida Airports System, identify maintenance and rehabilitation needs at each airport, automate pavement infrastructure information management, and establish standards to address future needs. The 1992 SAPMP implementation provided the FDOT and the participating airports valuable information for establishing and performing timely and appropriate pavement rehabilitation.

During the 1992-1993 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 (M&R) policies, M&R budget costs, and the development of recommendations for performing routine pavement preservation maintenance. This system, known as AIRPAV, was initially developed during the 1992-1993 SAPMP implementation for the analysis of distress data. The AIRPAV system was used again in the 1998-1999 SAPMP update.

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

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

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

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

1.3 Organization

FDOT Central Aviation Office Program Manager

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

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

Consultant

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

Airport Role

The airports are the ultimate beneficiary for each condition survey inspection performed at their respective airfields as part of the SAPMP. The individual airports will be provided final deliverables prepared by the Consultant that have been reviewed and approved by the ASO-PM. The airport should have provided a

current Airport Layout Plan (ALP) to the Consultant and, if they participated in the previous SAPMP, indicate any construction activity that was performed since the previous inspections.

FDOT District Offices

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

1.4 Introduction to Pavement Types and Pavement Management

Pavement Basics

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

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

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

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

Due to the different nature of the pavement types, construction, and their materials; flexible and rigid pavements have different modes of failure and

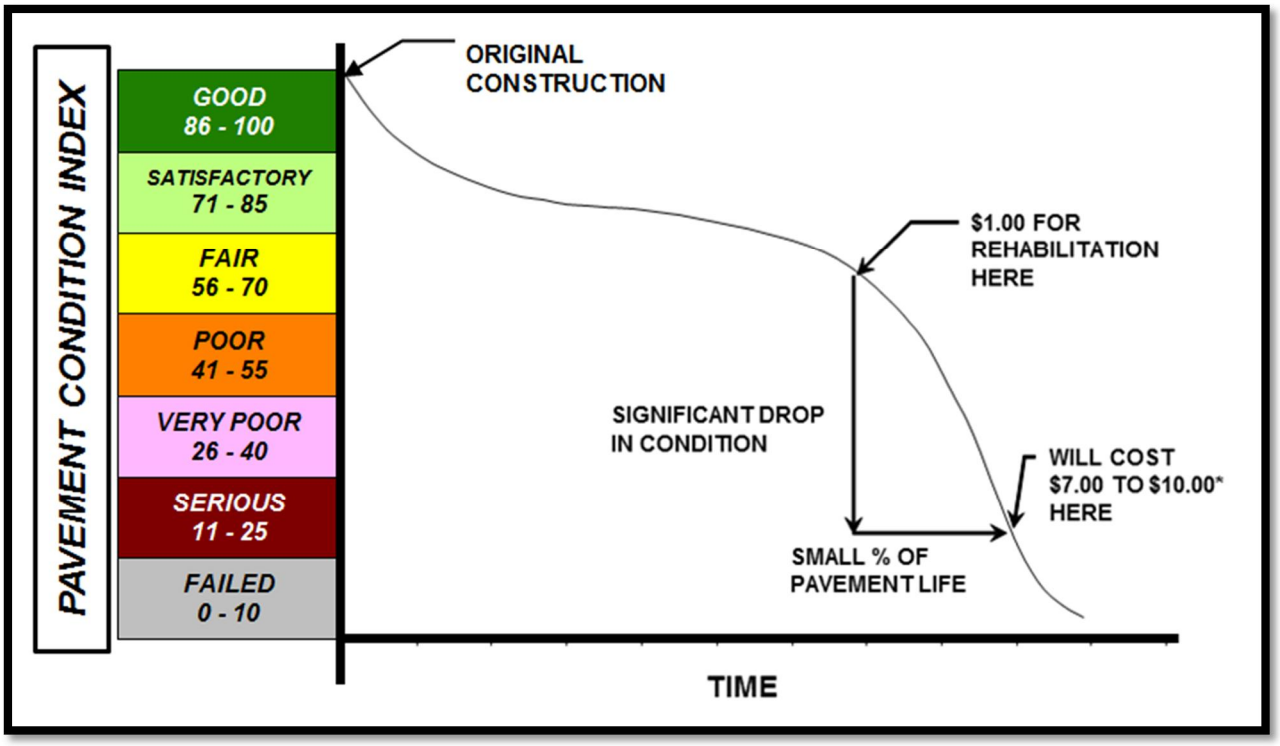
fatigue. This results in varying deterioration and distress development. Understanding the mechanics and modes of failure of the pavement types assists the engineers in making timely, adequate and consistent observations, and in recommending economical maintenance repairs and major rehabilitation to the pavement structures at each airfield.

The Concept of an Airfield Pavement Management System

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

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

Figure 1-1: Pavement Life Cycle



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

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

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

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

Airfield Pavement Inspection Methodology for the SAPMP

Pavement condition assessment requires the application of professional judgments regarding the condition of the pavement. The SAPMP airfield pavement condition survey inspections assess pavement, comparing it to a set of standards in ASTM D 5340-12. As part of this update, SAPMP has adopted the changes made in updates to ASTM D 5340-12. These include the separation of Weathering and Raveling into two distinct flexible pavement distresses, and the addition of the Alkali-Silica Reaction distress for rigid pavement distresses. Additionally, the deterioration associated with the rigid pavement distress Scaling/Map Cracking has been modified which results in moving Map Cracking from Scaling to ASR. In the newest version of ASTM D 5340-12, there are two kinds of Shrinkage Cracking, Drying Shrinkage and Plastic Shrinkage. The difference between these two is that the depth of first one may extend through the entire depth of the slab while the thickness of the latter one normally does not extend very deep into the pavement's surface. Furthermore, the Plastic Shrinkage consists of two subcategories: Plastic shrinkage (caused by atmosphere) and Plastic shrinkage (caused by construction). Another kind of Map Cracking is listed under Plastic shrinkage that is caused by construction, as well as Crazing. This additional type of Shrinkage change in distress classification, as described in ASTM D 5340-12, may result in small variances in the PCI values from the previous inspection analysis.

The pavement condition surveys assess the functional condition of the pavement surface based on surface distresses as defined by the ASTM D 5340-12. Typically, deficiencies within a pavement structure will eventually reflect to the pavement surface as distresses described within ASTM D 5340-12. The SAPMP is specifically a visual evaluation and analysis based on the ASTM D 5340-12. The structural condition and relative support of the pavement layers can be directly quantified

using non-destructive deflection testing (NDT) as well as other in-depth engineering evaluation or sampling and testing methods.

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

In preparation for the PCI survey inspections, the airfield pavements for each airport are divided into branches, sections, and sample units as established by FAA Advisory Circular 150/5380-6C and ASTM D 5340. Further discussion of the process of inventorying and categorizing pavement facilities by use, composition, and history can be found in SECTION 2 *AIRFIELD PAVEMENT NETWORK DEFINITION and PAVEMENT INVENTORY.*

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

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

Flexible Pavements Asphalt Concrete		
Number of Sample Units in Section	Number of Sample Units to Inspect	
	Runway	*Taxiways, Aprons, Others*
1 - 4	1	1
5 - 10	2	1
11 - 15	3	2
16 - 30	5	3
31 - 40	7	4
41 - 50	8	5
≥ 51	20% but ≤ 20	10% but ≤ 10

Rigid Pavements Portland Cement Concrete		
Number of Sample Units in Section	Number of Sample Units to Inspect	
	Runway	*Taxiways, Aprons, Others*
1 - 3	1	1
4 - 6	2	1
7 - 10	3	2
11 - 15	4	2
16 - 20	5	3
21 - 30	7	3
31 - 40	8	4
41 - 50	10	5
≥ 51	20% but ≤ 20	10% but ≤ 10

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

The distress quantities and severity levels from each inspected sample unit are used to compute the PCI value and rating for each Section using the ASTM D 5340-12 and MicroPAVER (also known currently as PAVER) software. Figures 1-2 and 1-3 depict graphical representations of the color ranges associated with PCI values and ranges with a photograph of airfield pavement that exhibited the conditions for both flexible and rigid pavements respectively.

Figure 1-2: Flexible Pavement, Asphalt Concrete

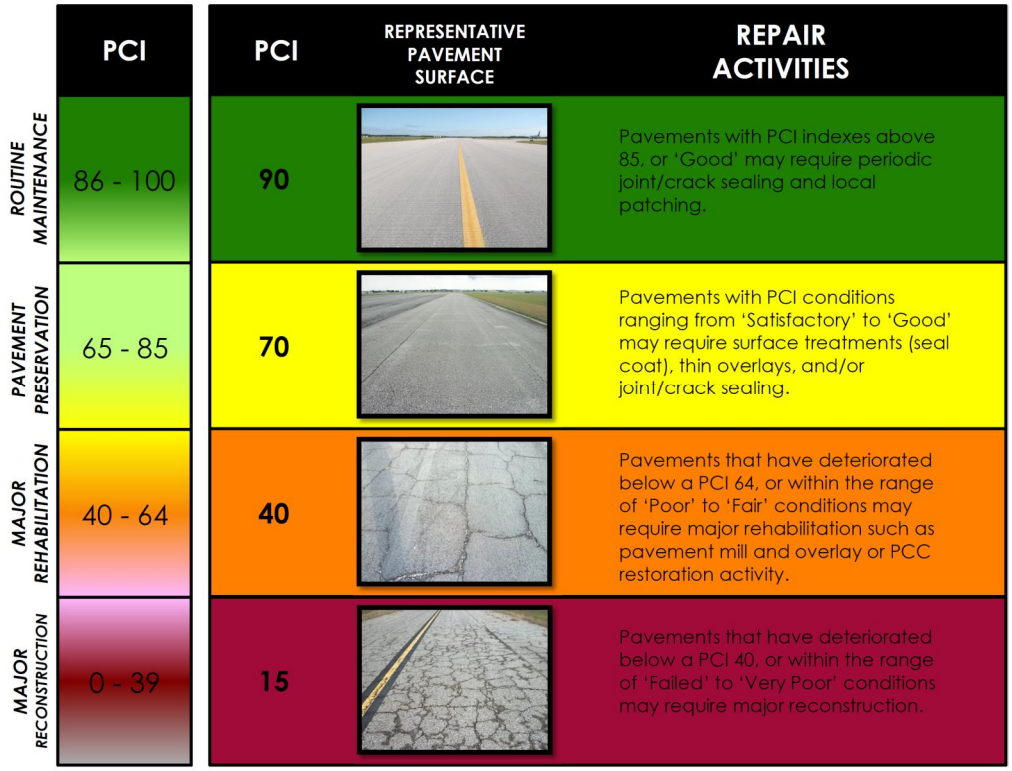
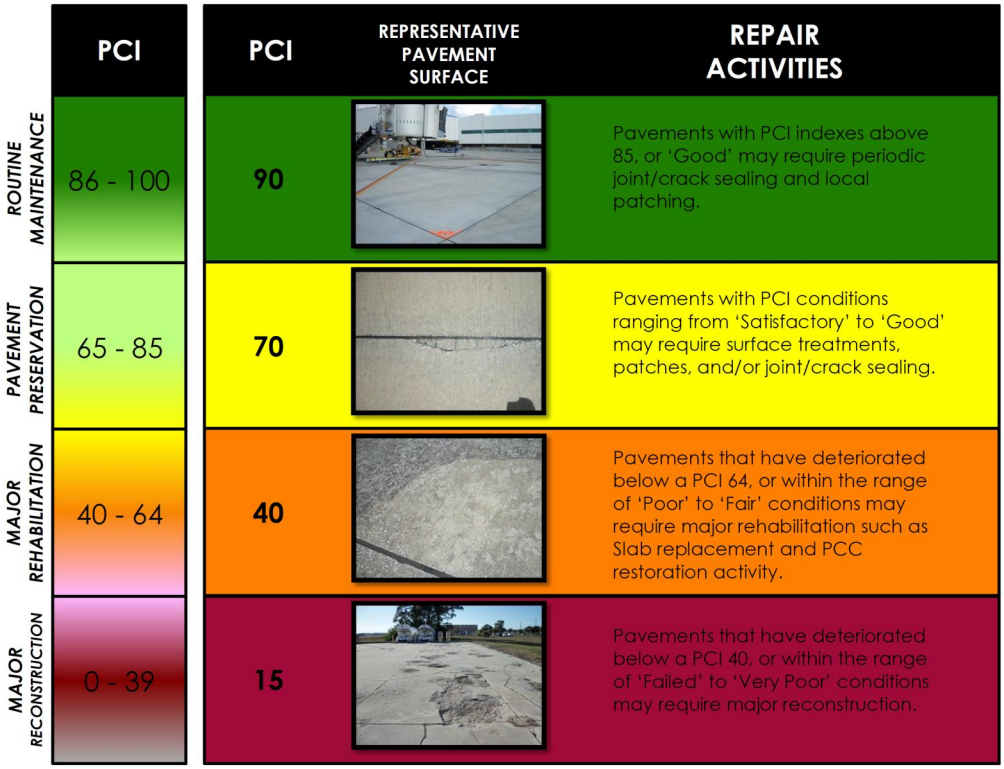


Figure 1-3: Rigid Pavement, Portland Cement Concrete



Using the ASTM D 5340-12 standard seven qualitative ranges, the SAPMP provides a PCI value and a standard qualitative condition rating for the pavement facilities inspected.

2. AIRFIELD PAVEMENT NETWORK DEFINITION AND PAVEMENT INVENTORY

Ormond Beach Municipal Airport (OMN) consists of two runways; RW 8-26, which is 75-ft wide by 4,005-ft long and RW 17-35, which is 100-ft wide by 3,704-ft long. RW 8-26 is served by parallel Taxiway Alpha, which is 35-ft wide. RW 17-35 is served by Taxiways Delta, Echo and Foxtrot, which range from 35-ft to 45-ft wide. Taxiways Bravo and Charlie are used to direct traffic to and from the apron. Currently the airport has multiple T-Hangar and conventional hangar facilities located on the east side of RW 17-35 and tie-down spaces located throughout the apron. All of the pavement for the runway, taxiways, apron and hangars is constructed with Asphalt Concrete. A section of pavement used to access the hangars on the south side of TW Delta is composed of Portland Cement Concrete.

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

Ormond Beach Municipal Airport was established in 1943 as Outlying Field Ormond Beach, which was a naval aviation training field supporting operations at Naval Air Station Deland and Naval Air Station Daytona Beach. Military operations were discontinued at the end of World War II and the airport was deeded to the city by the US Government in 1959. Currently, the airport provides an additional location for flight training operations from nearby Embry-Riddle Aeronautical University at Daytona Beach International Airport.

2.1 Network Definition

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

Branch and Section Identification

Each airport's airfield pavement network is generally subdivided into separate Branches (runways, taxiways, aprons/ramps, or others) that have distinctly different functional identifications and uses. Each Branch is further subdivided into Sections as defined by pavement location, composition, and construction history. A Section is typically understood to be a project level subdivision within a Branch feature. Sections are manageable units to organize data collection and are

treated individually during the maintenance and major rehabilitation planning process. A pavement rank (primary, secondary, or tertiary) is assigned to each Section based on its importance and type of use to airport operations. The pavement rankings designated for each section at this airport were defined by the previous SAPMP, unless changes were communicated by the airport. These Sections are further subdivided into condition survey sample units based on the methodology described in ASTM D 5340.

Airfield Pavement System Inventory and Network Definition Update

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

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

The Airfield Pavement Network Definition Exhibit depicts the airport's pavement limits with Branch and Section delineations. This exhibit also includes the subdivision on Section areas into sample units and is used to identify those sample

units that are to be inspected. The previous SAPMP Airfield Pavement Network Definition Exhibits were used as a base. Updates and information provided by each airport was reviewed and the exhibits were revised appropriately. Characteristics that are considered include; airfield configuration, branch designations (magnetic declination, Airport Layout Plan updates) and pavement composition. The exhibit serves not only as a primary guide for the airfield inspectors but also allows specific distresses found in the re-inspection report to be geographically located.

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

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

Construction Year	Section Location	Work Type/Pavement Section
2013	TAXIWAY A	RE-ALIGNMENT, 4" P-401, 6" P-211, 12" P-152
2013	TAXIWAY C	PAVEMENT REHABILITATION, 2" P-401, 6" H-251 (RECLAIMED BASE), 12" P-152
2013	TAXIWAY E	RE-ALIGNMENT, 4" P-401, 6" P-211, 12" P-152
2013	TAXIWAY B	RE-ALIGNMENT, 4" P-401, 6" P-211, 12" P-152

Airfield Pavement Network Definition & Geographic Information System (GIS)

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

2.2 Pavement Inventory

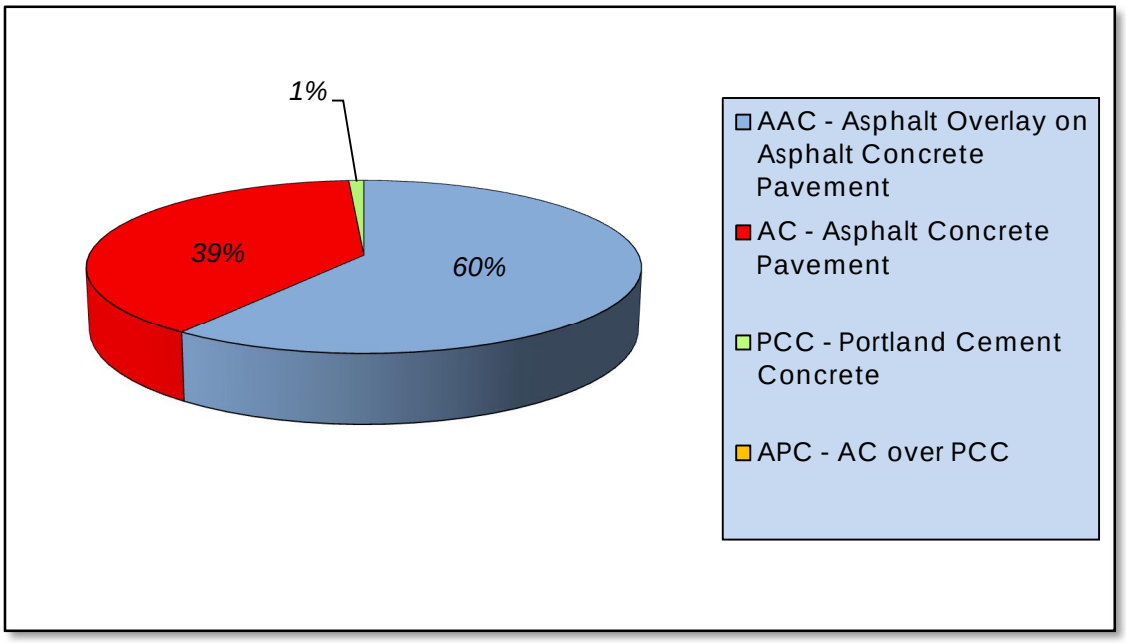
The detailed pavement inventory database was updated to reflect the updates to the Airfield Pavement Network Definition Exhibit, in Appendix A, and field

inspection results. Table 2-2 and Figure 2-1 provides a summary of the pavement inventory attributes at Ormond Beach Municipal Airport for this SAPMP update.

Table 2-2: Pavement Inventory Summary

Airfield Pavement Network Definition		
Number of Branches	14	
Number of Sections	24	
Sample Units	75	
Airfield Pavement Use		
Use	Area (SF)	Relative Area (%)
Runway	663,450	40%
Taxiway	483,228	29%
Apron	495,588	30%
Total =	1,642,266	100%
Airfield Pavement Type		
Type	Area (SF)	Relative Area (%)
Asphalt Concrete (AC)	639,617	39%
Asphalt Overlay (AAC)	985,394	60%
Portland Cement Concrete (PCC)	17,255	1%
AC over PCC (APC)	0	0%

Figure 2-1: Airfield Pavement Type



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

Table 2-3: Airfield Pavement Inventory Details

Branch Name	Branch ID	Section ID	True Area (SF)	Section Rank	Surface Type	Last Const. Date	Total Samples Inspected	Total Samples
RUNWAY 17-35	RW 17-35	6210	29,188	P	AAC	1/1/2008	2	6
RUNWAY 17-35	RW 17-35	6205	341,312	P	AAC	1/1/2008	14	68
RUNWAY 8-26	RW 8-26	6105	292,950	S	AAC	1/1/1977	16	78
RUN-UP APRON	AP RU	5115	28,289	P	AC	1/1/2013	1	6
RUN-UP APRON	AP RU	5110	28,383	P	AC	1/1/2013	1	5
AP T HANG	AP T HANG	4410	54,829	P	AC	1/1/2005	2	11
EAST APRON - HANGAR AREA	AP E	4305	56,773	P	AC	1/1/1984	3	12
CENTER APRON	AP CENTER	4205	134,535	T	AAC	1/1/1992	4	27
CENTER APRON	AP CENTER	4204	5,932	T	AC	7/31/2008	1	2
WEST APRON	AP W	4105	164,592	T	AC	1/1/1992	4	38
WEST APRON	AP W	4102	22,255	P	AC	1/1/1992	1	7

Branch Name	Branch ID	Section ID	True Area (SF)	Section Rank	Surface Type	Last Const. Date	Total Samples Inspected	Total Samples
TAXIWAY TO T-HANGARS	TW T-HANG	2004	17,255	P	PCC	1/1/1992	1	3
TAXIWAY F	TW F	650	6,273	P	AC	1/1/1984	1	1
TAXIWAY F	TW F	605	41,694	P	AC	1/1/1984	2	10
TAXIWAY E	TW E	510	29,167	P	AC	1/1/2013	1	8
TAXIWAY E	TW E	505	56,507	P	AAC	1/1/1990	3	16
TAXIWAY D	TW D	410	14,057	P	AC	1/1/2013	1	3
TAXIWAY D	TW D	405	74,127	P	AAC	1/1/1984	5	15
TAXIWAY C	TW C	305	35,470	P	AAC	1/1/2013	2	9
TAXIWAY B	TW B	210	9,041	P	AC	1/1/2013	1	2
TAXIWAY B	TW B	205	21,305	P	AAC	1/1/1977	2	6
TAXIWAY A	TW A	115	11,172	P	AC	1/1/2013	1	2
TAXIWAY A	TW A	110	11,172	P	AC	1/1/2013	1	2
TAXIWAY A	TW A	100	155,988	P	AC	1/1/2013	5	43

Note: If new construction, then survey date = last construction date and PCI is set to 100 by MicroPAVER.
** Sections not surveyed due to reasons such as re-sectioning, no escort, not accessible at the time of survey. Please refer to Section 3 for discussion on the updates to the ASTM D 5640 that may affect PCI in comparison to previous program update.*

3. AIRFIELD PAVEMENT CONDITION

Airfield pavement distresses and condition were surveyed in accordance with the methods outlined in FAA Advisory Circular 150/5380-6C and ASTM D 5340-12. 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.

The program has been updated from ASTM D 5340-04, released in 2004, to ASTM D 5340-12, released in 2013, for this SAPMP update. The primary updates include the separation of certain distress types and the addition of new types with corresponding changes to PCI calculation. These changes in distress classification may result in small variances in the PCI values from the previous inspection analysis.

Below is a brief description of the changes to the distresses presented in the ASTM D 5340 methodology and a table summarizing the deduction affected.

a) Flexible Asphalt Concrete Pavement distresses for airfield pavements: 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.

b) Rigid Portland Cement Concrete Pavement distresses for airfield pavements: 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.

Distress Updates to Reflect ASTM 5340-12			
Use and Surface Type	Old 5340-04 Distress	New Distress	Deduct Curve
AC/AAC/APC Airfield	(52) Weathering & Raveling - Low	(52) Raveling - Low	No Change
	(52) Weathering & Raveling - Medium	(52) Raveling - Medium	No Change
	(52) Weathering & Raveling - High	(52) Raveling - High	No Change
	N/A	(57) Weathering - Low	New
	N/A	(57) Weathering - Medium	New
	N/A	(57) Weathering - High	New
PCC Airfield	(70) Scaling - Low	(70) Scaling - Low	New
	(70) Scaling - Medium	(70) Scaling - Medium	New
	(70) Scaling - High	(70) Scaling - High	New
	N/A	(76) Alkali Silica Reaction – Low	New
	N/A	(76) Alkali Silica Reaction – Medium	New
	N/A	(76) Alkali Silica Reaction – High	New

3.1 Inspection Methodology

A pavement condition survey inspection is performed by measuring the amount and severity of defined pavement distresses observed within the boundaries of sample units. These distresses, as defined by ASTM D 5340, are generally caused by traffic fatigue loading, exposure to climate and elements, and other airfield specific factors. This data is collected by field personnel experienced in pavement condition survey inspection. Data collection is then transferred into the FDOT MicroPAVER database system. MicroPAVER (also known as PAVER) is used to calculate PCI values using the methodology described in ASTM D 5340-12. The values are calculated for each sample and extrapolated on a Section level to determine an area-weighted PCI value ranging from 0 to 100 and one of seven condition ratings. Tables 3-1 and 3-2 describe the distresses as defined by the ASTM D 5340-12 and adopted for the SAPMP procedures.

Table 3-1: Airfield Pavement Distresses for Asphalt Concrete

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

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

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

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

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

3.2 Airfield Pavement Condition Index Rating Results

From the condition survey inspection performed in 2014 at Ormond Beach Municipal Airport, the overall weighted average PCI value is 68 representing a condition rating of Fair.

Overall the airport exhibited pavement distresses associated with climate and age distresses. Asphalt Concrete pavement distresses include; weathering, raveling, longitudinal and transverse cracking, swelling, and block cracking distresses of which are common of pavements of similar age. Depressions and alligator cracking was observed in isolated locations but was not indicative of the overall facility condition.

Runway 8-26 exhibited low severity raveling in addition to longitudinal and transverse cracking which was primarily located along the paving joints. This distress is common along the paving joints due to the pavement being weakest at this location. Isolated samples exhibited medium severity longitudinal and transverse cracking where there was an increased potential for FOD development and the crack width was greater than ¼ inch.

Runway 17-35 exhibited low severity weathering over most of the surface area, with low severity raveling being found primarily along the wheel paths where aircraft traffic is most prevalent. Low severity longitudinal and transverse cracking was found in small amounts, with most cracks occurring along the paving joints. Towards the northern end of the runway, low severity swelling was observed in several locations.

Taxiway Alpha and Charlie were recently rehabilitated towards the beginning of 2013. These pavement sections were not inspected and their PCI values have been reset to 100.

Taxiway Bravo exhibited significantly aged pavement with large amounts of medium severity block cracking along with longitudinal and transverse cracking. Low severity raveling, swelling and depressions were also identified along the Taxiway Bravo pavement sections. Based the quantities and severities of the observed distresses, the Taxiway Bravo pavements are beyond their useful life and should be considered for upcoming major rehabilitation.

Taxiway Delta exhibited very similar pavement distresses to Taxiway Bravo, with large quantities of medium severity block cracking along with longitudinal and transverse cracking. These medium severity distresses were accompanied with low severity longitudinal and transverse cracking, raveling, swelling and patching. High severity shoving was recorded in an isolated location where the asphalt pavement abutted Portland cement concrete pavement.

Taxiway Echo appeared to be very aged and exhibited low severity raveling and medium severity block cracking throughout.

Taxiway Foxtrot exhibited low and medium severity longitudinal and transverse cracking, accompanied with low severity block cracking, swelling and raveling. Medium severity swelling was observed on the Taxiway Foxtrot connection to the Runway 35 approach end, which could contribute to significant ride quality issues.

The apron pavements exhibited significant quantities of low and medium severity longitudinal and transverse cracking, accompanied with low severity raveling, block cracking and depressions. Medium and high severity raveling was also observed in numerous locations. Medium severity alligator cracking was identified in an isolated location near the hangars which was a sign of significant load based distress due to repeated traffic loading. The most severely distressed pavements on the apron were located in the center strip where aircraft are parked just beyond where Taxiway Bravo intersects Taxiway Delta, as well as the majority of the eastern portions of the apron.

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

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

Figure 3-1: Airfield Pavement Condition Index Rating Summary

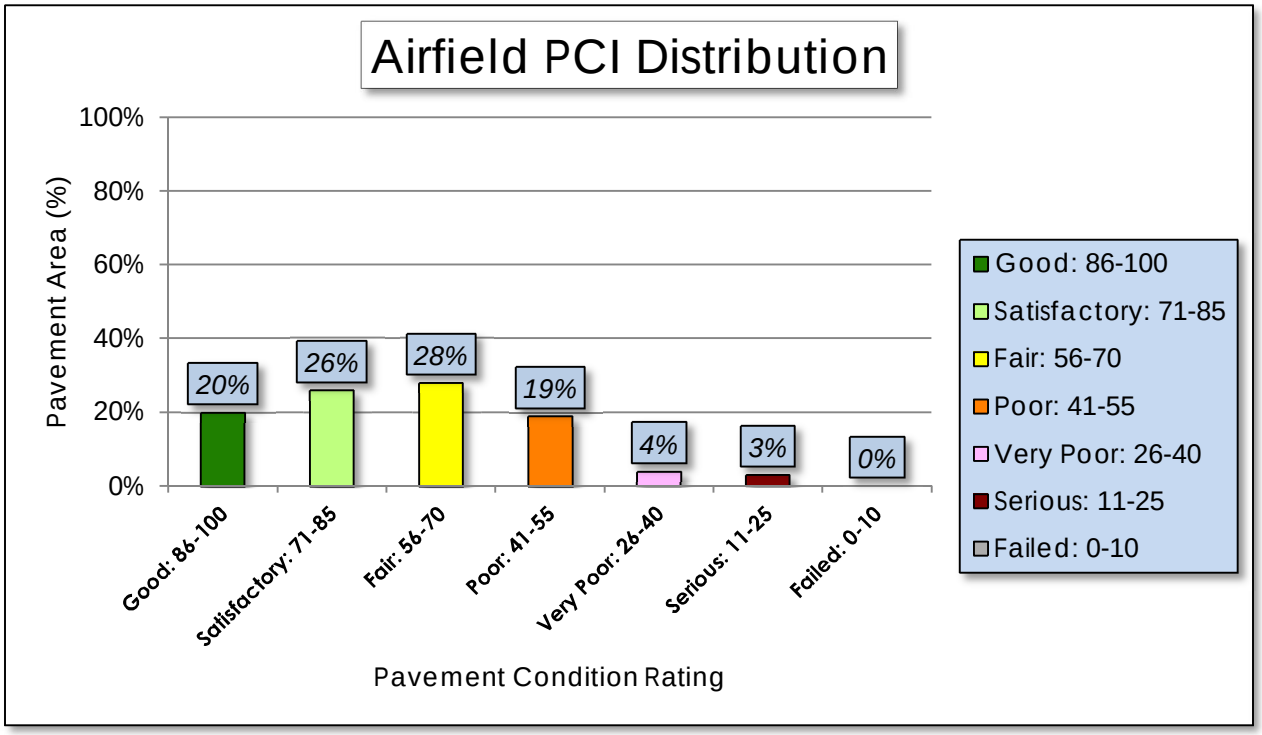


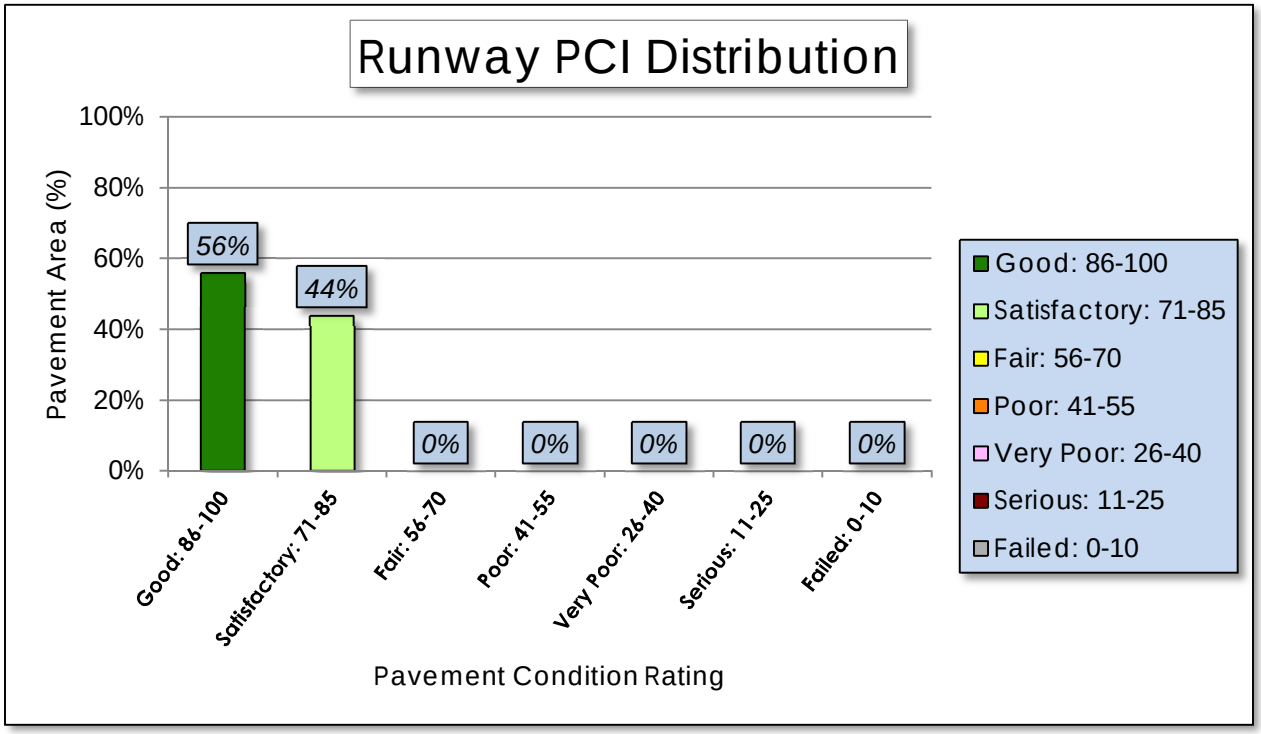
Table 3-3: Pavement Condition Index Rating Summary

Airfield Pavement Use		
Use	Average Area-Weighted PCI	Condition Rating
Runway	71	SATISFACTORY
Taxiway	74	SATISFACTORY
Apron	58	FAIR
Condition Area		
Condition Rating	Area (SF)	Relative Area (%)
Good	322,739	20%
Satisfactory	425,329	26%
Fair	457,542	28%
Poor	319,068	19%
Very Poor	60,815	4%
Serious	56,773	3%
Failed	-	0%

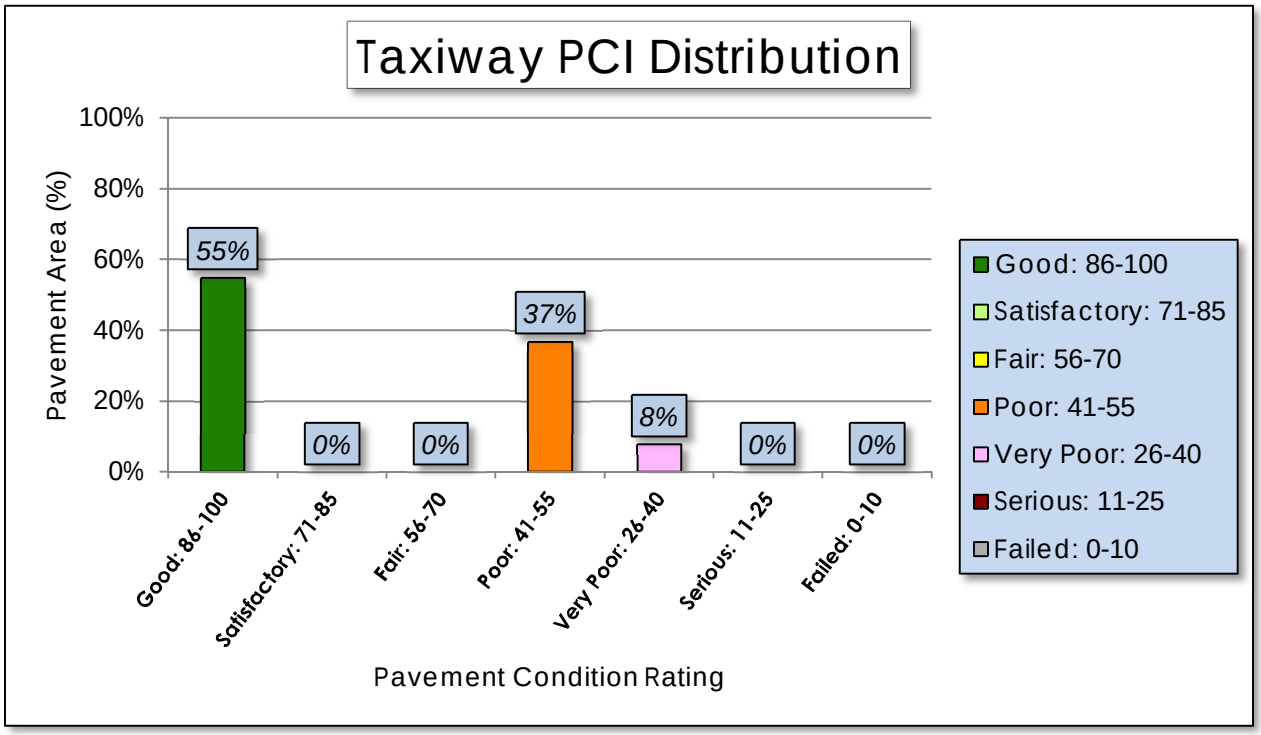
Approximately 46% of the airfield network is in Good and Satisfactory condition, while 26% of the network is in a Poor to Failed condition. Table 3-3 provides a breakdown of total area for each pavement by condition rating. Figures 3.2 a, b, c depict the condition rating of the airfield pavement by Branch Use. Photographs taken during the condition survey inspection are included in Appendix G. The photographs included are intended to be representative of the distress observed.

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

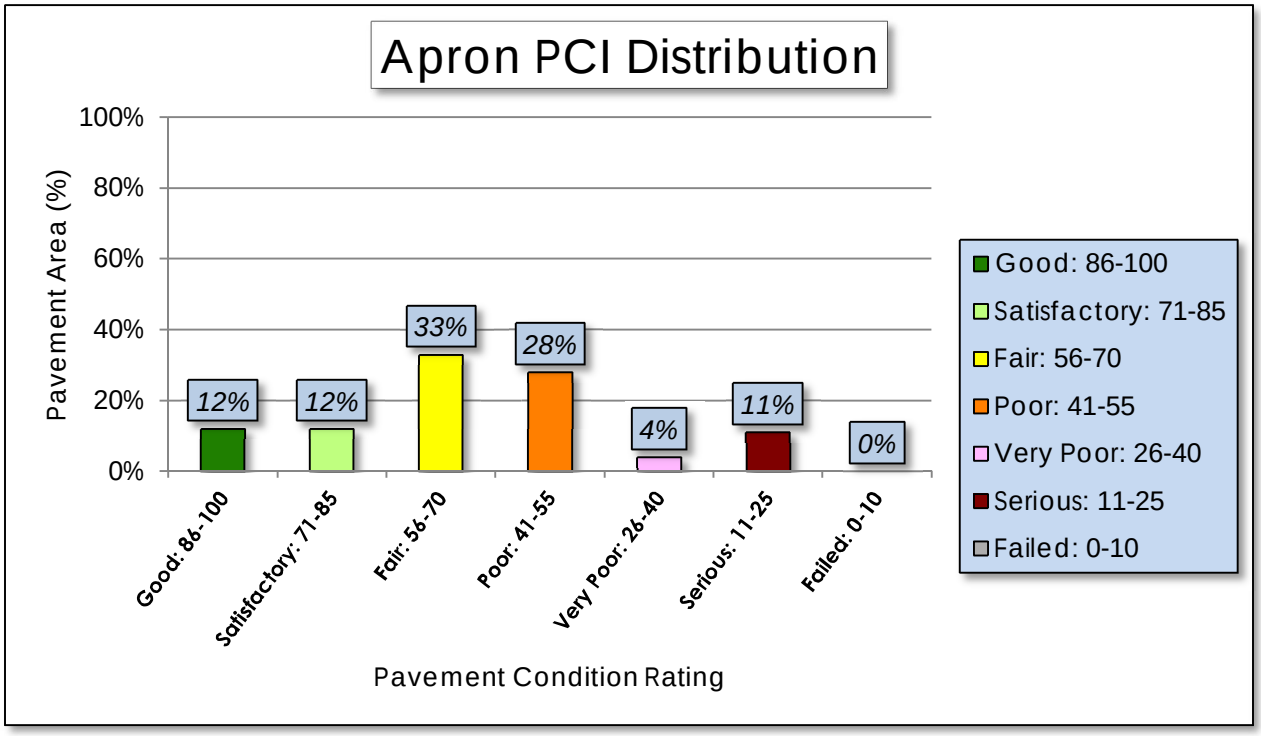
(a) Runway



(b) Taxiway



(c) Apron


Apron PCI Distribution
100%
80%
60%
40%
20%
0%
Pavement Area (%)
12%
12%
33%
28%
4%
11%
0%
Good: 86-100
Satisfactory: 71-85
Fair: 56-70
Poor: 41-55
Very Poor: 26-40
Serious: 11-25
Failed: 0-10
Pavement Condition Rating

4. PAVEMENT PERFORMANCE

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

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

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

>FACILITY USE (Runway, Taxiway, or Apron)

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

The historic trends of pavement performance at Florida airport facilities for all performance models are consolidated within the program database. This information is utilized in the prediction of pavement performance based on the current PCI determined from the inspections that took place between 2013 and 2015. Major rehabilitation is planned based on the predicted PCI. The intent of this is for both the individual airport and the FDOT District personnel to be aware of anticipated major rehabilitation work based on condition.

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

Figure 4-1: Runway Pavement Performance Prediction Summary

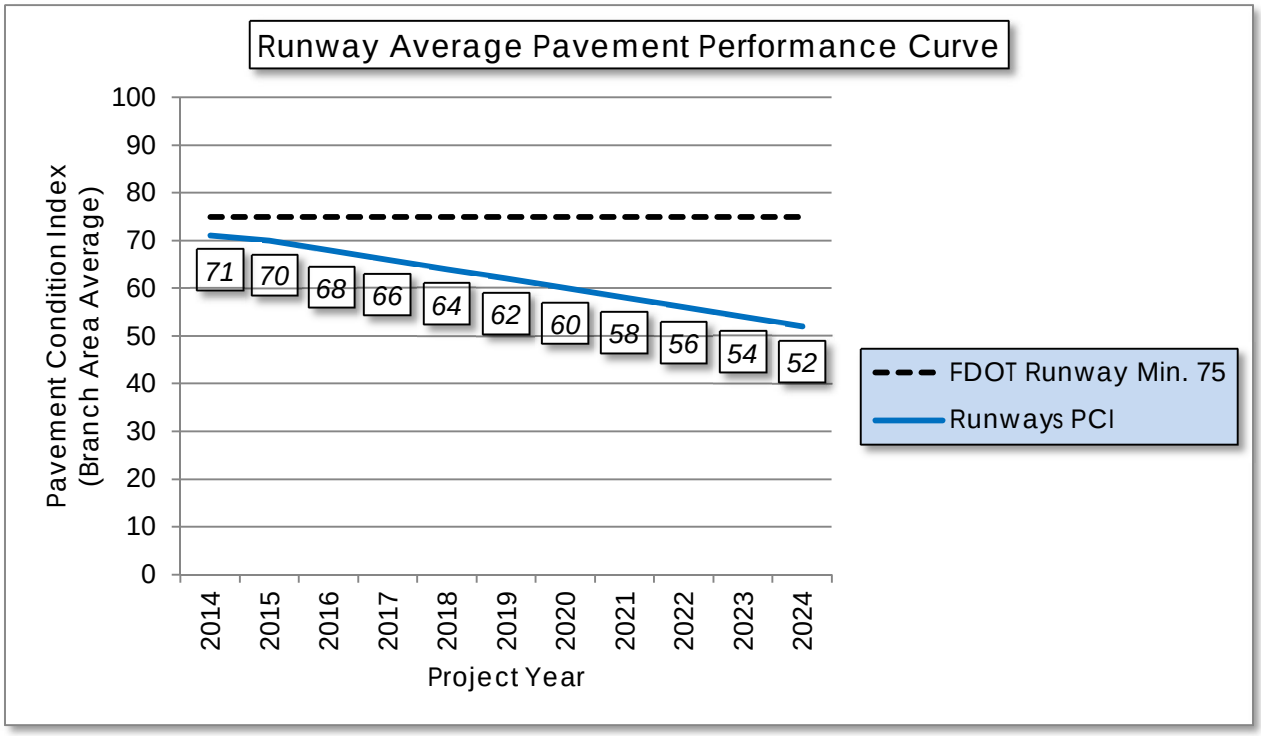


Figure 4-2: Taxiway Pavement Performance Prediction Summary

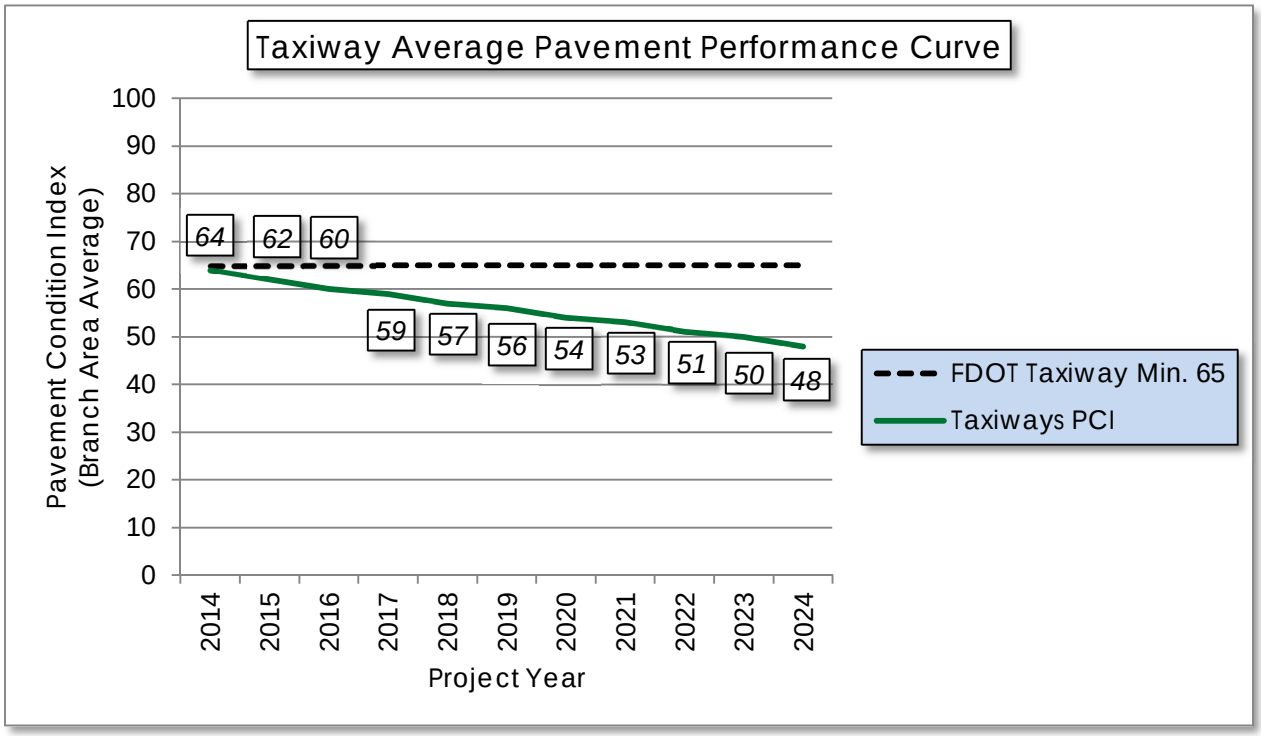
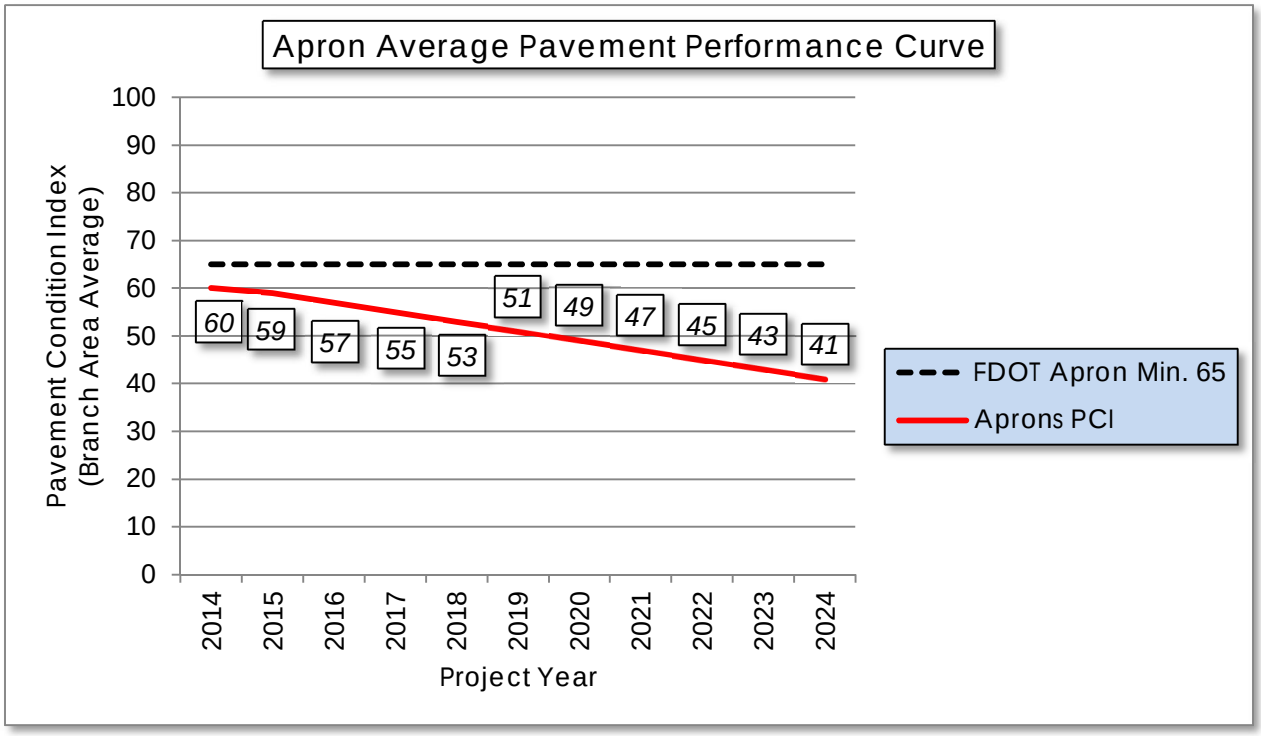


Figure 4-3: Apron Pavement Performance Prediction Summary



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

5. AIRFIELD PAVEMENT MAINTENANCE POLICIES AND COSTS

5.1 Policies

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

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

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

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

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

Table 5-2: Recommended PCC Maintenance and Repair Policy

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

Surface Type	Distress Code	Distress Name	Severity	Maintenance Work Type	Work Unit
	75	Corner Spalling	L, M, H	Partial Patch - PCC	Square Feet
	76	Alkali-Silica Reaction	L	Seal Coat Treatment	Square Feet
	76	Alkali-Silica Reaction	M	Micro-mill and Seal - PCC	Square Feet
	76	Alkali-Silica Reaction	H	Slab Replacement / Full Depth Patch	Square Feet

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

The FDOT has recommended minimum service level PCI for airports based on pavement facility use, airport type, and expected loading frequency. This minimum service level PCI is recommended to ensure the pavement provides a safe operational surface and efficiently uses maintenance and rehabilitation budgets. Separately, the Critical PCI is a value based on historic pavement performance trends and costs. It is at a PCI value of 65, for most airports, at which major rehabilitation is recommended over maintenance level efforts. Table 5-3 identifies the FDOT recommended PCI by use and the critical PCI value for the most important pavements at the airport. This is due to the condition of the pavement and the cost effectiveness of the work. A very important concept of a good pavement management system is the proactive preservation of

pavements that are above Critical PCI condition. Conversely, allowing pavement to deteriorate beyond maintenance and performing "worst first" major rehabilitation may cost much more over the life of a pavement.

Table 5-3: Critical and Minimum Service Level PCI for Regional Reliever Airports

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

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

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

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

The PCI standard scale ranges from a value of 0, typically representing a pavement in a failed condition, to a value of 100 which typically represents a pavement in new or good condition. Generally, airfield pavement sections with a PCI of 75 or higher that are not exhibiting distresses due to aircraft loading will benefit from maintenance activities such as crack sealing, patching, and surface treatments. Pavement sections with PCI values within the range of 40 to 74 may require major rehabilitation, such as a mill and overlay. Lastly, pavement sections with a PCI value of 40 or less are recommended to undergo pavement

reconstruction. Generally pavement reconstruction is the only practical means of restoration due to the substantial distresses observed in the pavement structure. Since PCI values are based solely on the visual determination of pavement distresses and deterioration, this method does not provide a direct measure of structural integrity.

5.2 Unit Costs

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

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

5.3 Maintenance, Repair, and Major Rehabilitation

FDOT recognizes that although pavement mill and overlay is recommended for flexible asphalt concrete pavement within a PCI range from 40 to 74, it is conceivable that airports may not have adequate funding to perform this type of major rehabilitation. A comprehensive surface treatment; per the treatments described in FAA AC 150/5370-10G Standards for Specifying Construction of Airports, as a maintenance rehabilitation activity, can be used in lieu of asphalt concrete pavement mill and overlay. However, it should be understood that these measures provide only a short term extension of pavement life. While the cost of surface treatments are significantly lower than that of pavement mill and overlay, it is not intended or implied to be a full rehabilitative measure for long term benefit. Table 5-5 and Table 5-6 provide budget costs associated with the work types shown in the table.

Table 5-5: AC Maintenance Unit Costs

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

Table 5-6: PCC Maintenance Unit Costs

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

As part of the SAPMP update, the distress data observed at each airport during the inspection is extrapolated on a section basis to make maintenance recommendations. These recommendations are a direct result of the distress types, severities, and quantities observed at the time of inspection. The maintenance recommendations and planning costs are correlated with the airport's airfield pavement network's overall area weighted PCI and used to plan

future maintenance costs. Future maintenance costs are planning budgets that are not specific to a pavement section, but are estimates for the entire airfield. Table 5-7 provides budget costs associated with the rehabilitation activities.

Table 5-7: Rehabilitation Activities and Unit Costs by Condition for Regional Reliever Airports

Category	Activity	PCI Range	Cost/SqFt
Rehabilitation	▪ Mill and Overlay (AC)	40 - 74	$10.00
	▪ Concrete Pavement Restoration (PCC)		$15.00
	▪ Full Depth Pavement Reconstruction	0 - 39	$20.00

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

6. MAJOR PAVEMENT REHABILITATION NEEDS

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

The objective of the major pavement rehabilitation needs analysis is to provide planning level projects within an airport's airfield pavement network. Major rehabilitation activities are recommended when a pavement section has deteriorated below the Critical PCI value from a functionality perspective. In addition, major rehabilitation is also recommended when the Section PCI is above the Critical PCI but the Section has load-related PCI distresses. However, most major rehabilitation work is recommended when the Section PCI is below the Critical PCI, which is when maintenance and repair level activities are not considered to be cost effective.

Major rehabilitation is identified within the SAPMP as major construction activity that would result in an improvement or "resetting" of the pavement section's PCI to a value of 100. Such activities could include; mill and hot-mix asphalt overlay and re-construction. This analysis was conducted with no constraints to budgets as a means to identify all pavement projects based on Critical PCI for a 10-year duration. It is recommended that the airport use this as a planning tool for future project development and prioritization. Table 6-1 depicts the major rehabilitation work identified on the pavement section level based on current and predicted pavement PCI.

Airports should consider the major rehabilitation work types of mill and overlay, PCC restoration, and reconstruction planning level classifications only. Additional design level investigation in accordance to the FAA Advisory Circulars will be required to identify specific areas within each section that are subject to reconstruction, mill and overlay, and PCC restoration. The work and budgets identified are intended for the planning level not the design level. Areas identified as mill and overlay may in fact require select areas of reconstruction should load-based distresses observed warrant it.

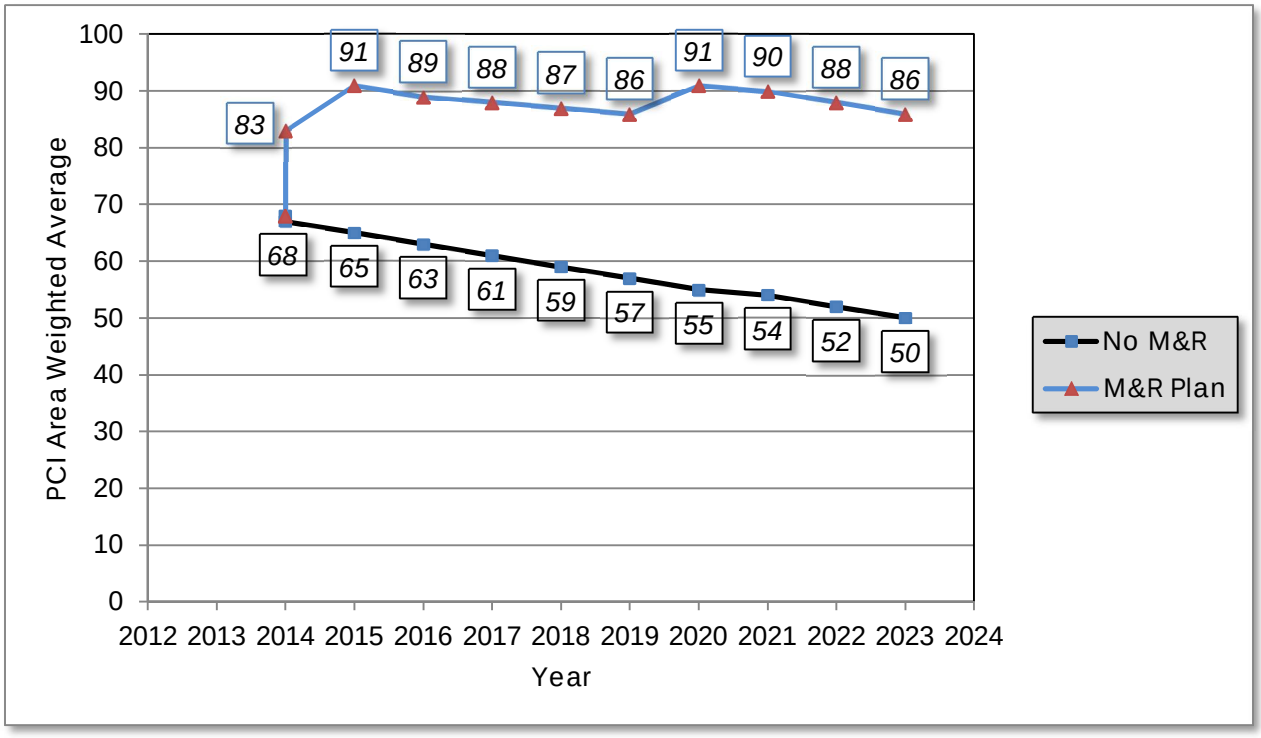
Table 6-1: Summary of Major Rehabilitation

Year	Branch ID	Section ID	Major M&R Costs*	PCI Before M&R	M&R Activity	PCI After M&R
2015	AP CENTER	4204	$ 88,980.00	52	Mill and Overlay	100
2015	AP CENTER	4205	$ 2,358,399.00	45	Reconstruction	100
2015	AP E	4305	$ 1,135,460.00	23	Reconstruction	100
2015	AP W	4102	$ 445,100.00	28	Reconstruction	100
2015	TW B	205	$ 426,100.00	36	Reconstruction	100
2015	TW D	405	$ 1,404,336.00	42	Mill and Overlay	100
2015	TW E	505	$ 1,127,032.00	40	Mill and Overlay	100
2015	TW F	605	$ 625,410.00	50	Mill and Overlay	100
2015	TW F	650	$ 102,469.00	47	Mill and Overlay	100
2015	TW T-HANG	2004	$ 345,100.00	30	Reconstruction	100
2016	AP W	4105	$ 2,542,947.00	64	Mill and Overlay	100
2016	RW 8-26	6105	$ 4,526,079.00	64	Mill and Overlay	100
2019	AP T HANG	4410	$ 925,658.00	63	Mill and Overlay	100
2020	RW 17-35	6210	$ 507,553.00	64	Mill and Overlay	100
2021	RW 17-35	6205	$ 6,113,167.00	65	Mill and Overlay	100
		Total =	$22,673,790.00			

**Costs are adjusted for inflation at 3%.*

The 10-year major rehabilitation program addresses those pavement sections that have a current or project PCI that is below the Critical PCI of 65 during the 10-year analysis period. The unconstrained or "unlimited budget" Major Rehabilitation Program is compared to a "No Major Rehabilitation Program" scenario in Figure 6-1. As shown, if no major rehabilitation work is completed in the next 10 years at your airport, the average PCI may be 36 points less than a plan that provides timely repairs to the airfield pavements.

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



7. PREVENTATIVE AND MAJOR REHABILITATION PLANNING

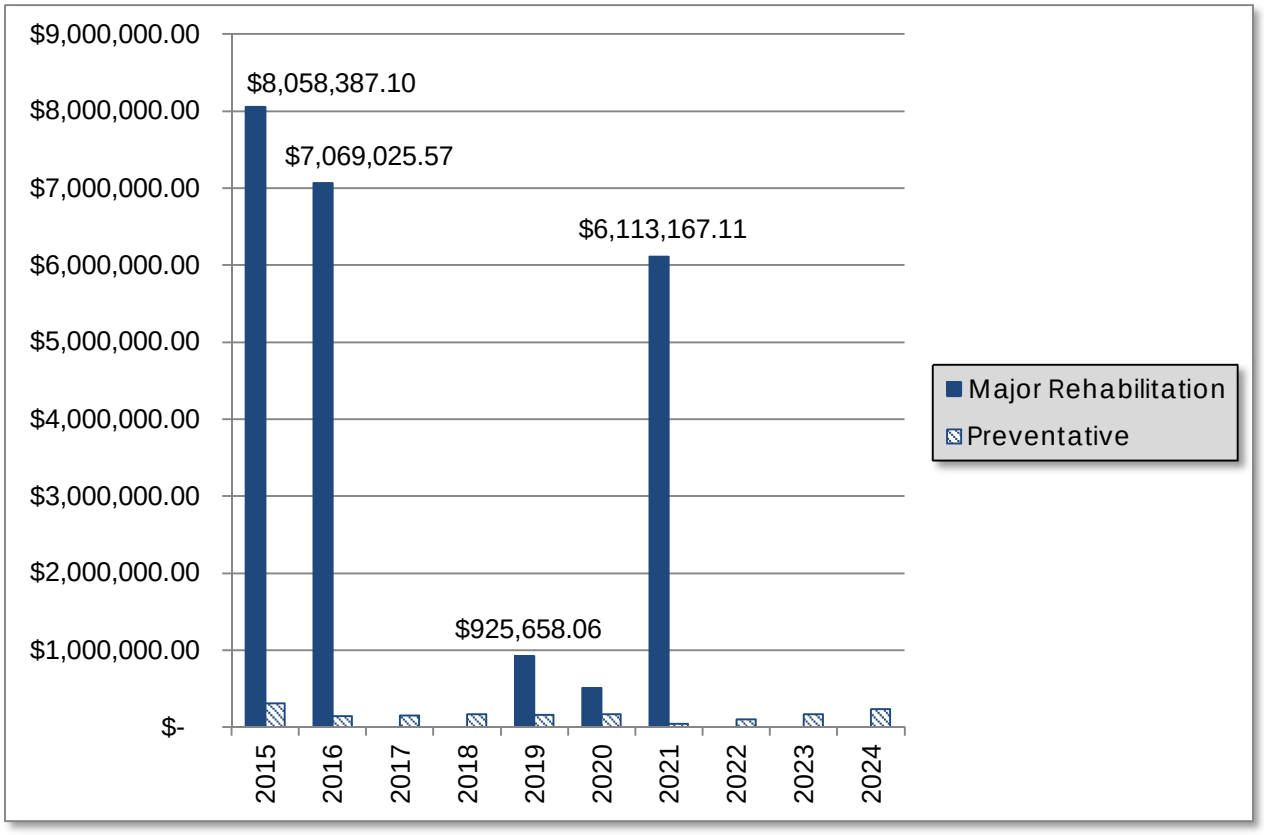
The preventative and major rehabilitation results include activities that are based on distresses observed and unconstrained by budget limits. FDOT recognizes that the projects identified as Year-1 needs in 2015, based on condition, may exceed a typical annual budget level. It is recommended that each airport further evaluate each project's feasibility and desirability based on the airport's future development plans and budgeting scenarios.

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

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

Program Year	Preventative	Major Rehabilitation	Total Year Costs
2015	$ 309,101.52	$ 8,058,387.10	$ 8,367,488.62
2016	$ 142,249.97	$ 7,069,025.57	$ 7,211,275.54
2017	$ 154,248.37	$ -	$ 154,248.37
2018	$ 167,397.86	$ -	$ 167,397.86
2019	$ 159,478.81	$ 925,658.06	$ 1,085,136.87
2020	$ 166,767.87	$ 507,553.50	$ 674,321.36
2021	$ 43,794.07	$ 6,113,167.11	$ 6,156,961.17
2022	$ 101,474.18	$ -	$ 101,474.18
2023	$ 165,038.84	$ -	$ 165,038.84
2024	$ 231,783.70	$ -	$ 231,783.70
		Total =	$ 24,315,126.51

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



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

- Center Apron – Sections 4204 and 4205
  - Mill and Overlay and Reconstruction attributed to load, climate, and age of pavement.
- East Apron – Section 4305
  - Reconstruction attributed to load, climate, and age of pavement.
- West Apron – Section 4102
  - Reconstruction attributed to load, climate, and age of pavement.
- Taxiway B – Section 205
  - Reconstruction attributed to load, climate, and age of pavement.
- Taxiway D – Section 405
  - Mill and Overlay attributed to climate and age of pavement.
- Taxiway E – Section 505
  - Mill and Overlay attributed to climate and age of pavement.
- Taxiway F – Sections 605 and 650
  - Mill and Overlay attributed to climate and age of pavement.

- Taxiway T-Hangar – Section 2004
  - Reconstruction attributed to load, climate, and age of pavement.

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

8. VISUAL AID EXHIBITS

8.1 Airfield Pavement Network Definition Exhibit

The Airfield Pavement Network Definition Exhibit in Appendix A depicts the airfield layout in a manner that defines the airfield pavement infrastructure as branches, sections, and sample units in accordance with the ASTM D 5340-12. The exhibits are prepared and updated with information provided by the airport and from aerial imagery from the FDOT Surveying and Mapping publications.

8.2 Airfield Pavement System Inventory Exhibit

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

8.3 Airfield Pavement Condition Index Rating Exhibit

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

8.4 Airfield Pavement Major Rehabilitation Exhibit

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

8.5 Airfield Pavement Condition Survey Inspection Photographs

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

9. RECOMMENDATIONS

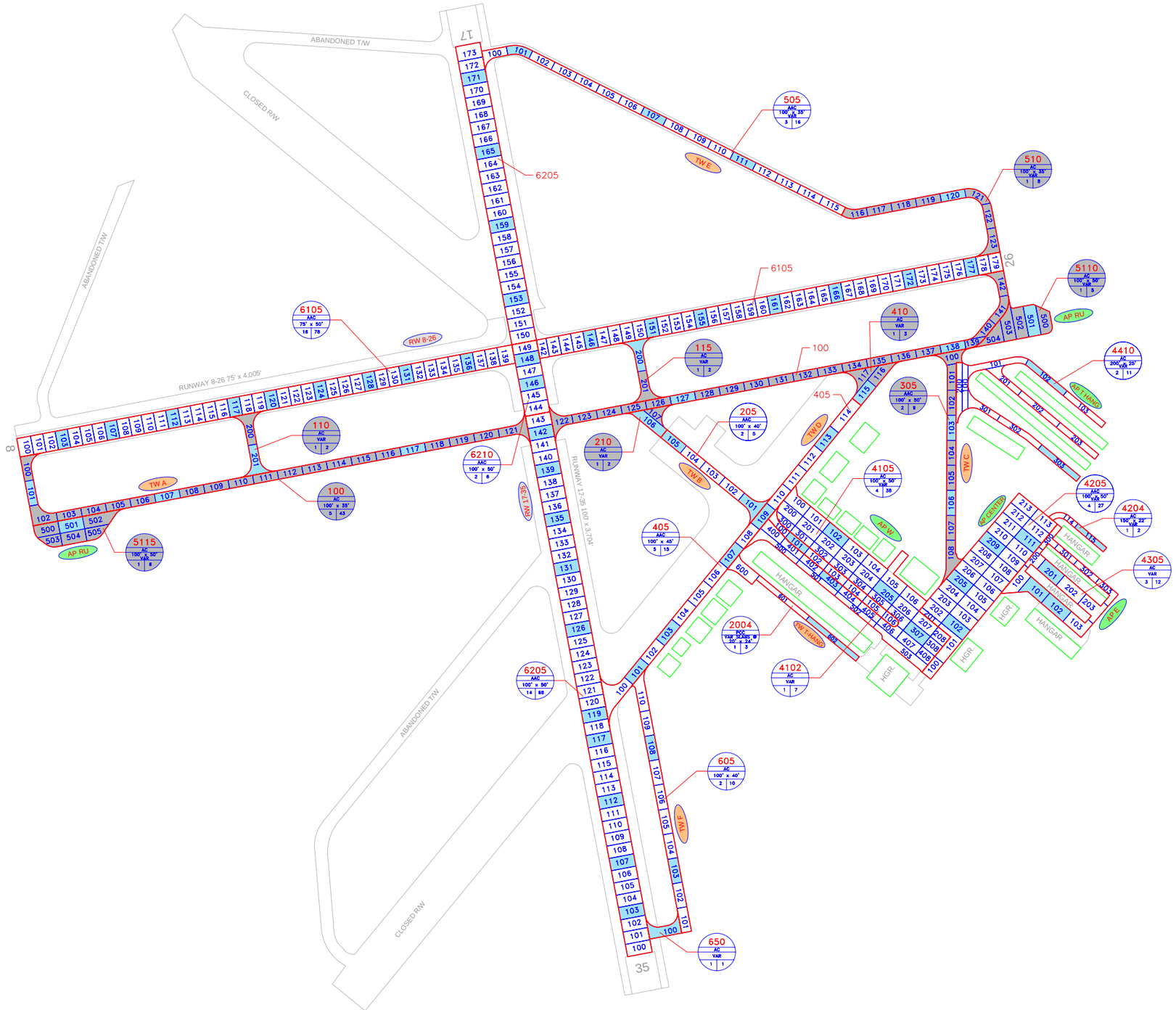
The recommendations developed are intended for the planning level for each airport. Additional project specific investigation in accordance with the FAA Advisory Circulars is recommended to further refine the project scope and budget requirements.

The following recommendations were made based on the 2014 condition survey inspection, condition analysis, and maintenance/rehabilitation analysis results:

- Center Apron – Sections 4204 and 4205
  - Mill and Overlay and Reconstruction attributed to load, climate, and age of pavement.
- East Apron – Section 4305
  - Reconstruction attributed to load, climate, and age of pavement.
- West Apron – Sections 4102 and 4105
  - Reconstruction and Mill and Overlay attributed to load, climate, and age of pavement.
- Taxiway B – Section 205
  - Reconstruction attributed to load, climate, and age of pavement.
- Taxiway D – Section 405
  - Mill and Overlay attributed to climate and age of pavement.
- Taxiway E – Section 505
  - Mill and Overlay attributed to climate and age of pavement.
- Taxiway F – Sections 605 and 650
  - Mill and Overlay attributed to climate and age of pavement.
- Taxiway T-Hangar – Section 2004
  - Reconstruction attributed to load, climate, and age of pavement.
- Runway 8-26 – Section 6105
  - Mill and Overlay attributed to climate and age of pavement.
- T-Hangar Apron – Section 4410
  - Mill and Overlay attributed to climate and age of pavement.
- Runway 17-35 – Section 6205 and 6210
  - Mill and Overlay attributed to climate and age of pavement.

APPENDIX A

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



LEGEND

- RW 13-31 — TYPICAL RUNWAY BRANCH ID
- TW A — TYPICAL TAXIWAY BRANCH ID
- AP S — TYPICAL APRON BRANCH ID
- 4105 — SECTION NUMBER
  - AC — PAVEMENT TYPE
  - 100' x 50' — TYPICAL SAMPLE UNIT INFORMATION; FLEXIBLE (AC) PAVEMENT LENGTH & WIDTH; RIGID (PCC) PAVEMENT NO. OF SLABS AND SLAB SIZE
  - 5 — NUMBER OF SAMPLE UNITS IN SECTION
  - 14 — NUMBER OF SAMPLE UNITS TO BE INSPECTED
- 605 — SECTION NOT INSPECTED DUE TO RECENT CONSTRUCTION. SEE SYSTEM INVENTORY MAP FOR CONSTRUCTION DATES.
- 100 — INSPECTED SAMPLE UNITS. GPS COORDINATES ARE AT THE CENTROID OF THE SAMPLE UNIT.

TOTAL SAMPLES INSPECTED = 75

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

NUMBER	DATE	REVISIONS

DESIGNED:	KHA	DRAWN:	KHA	CHECKED:	KHA	DATE:	2015

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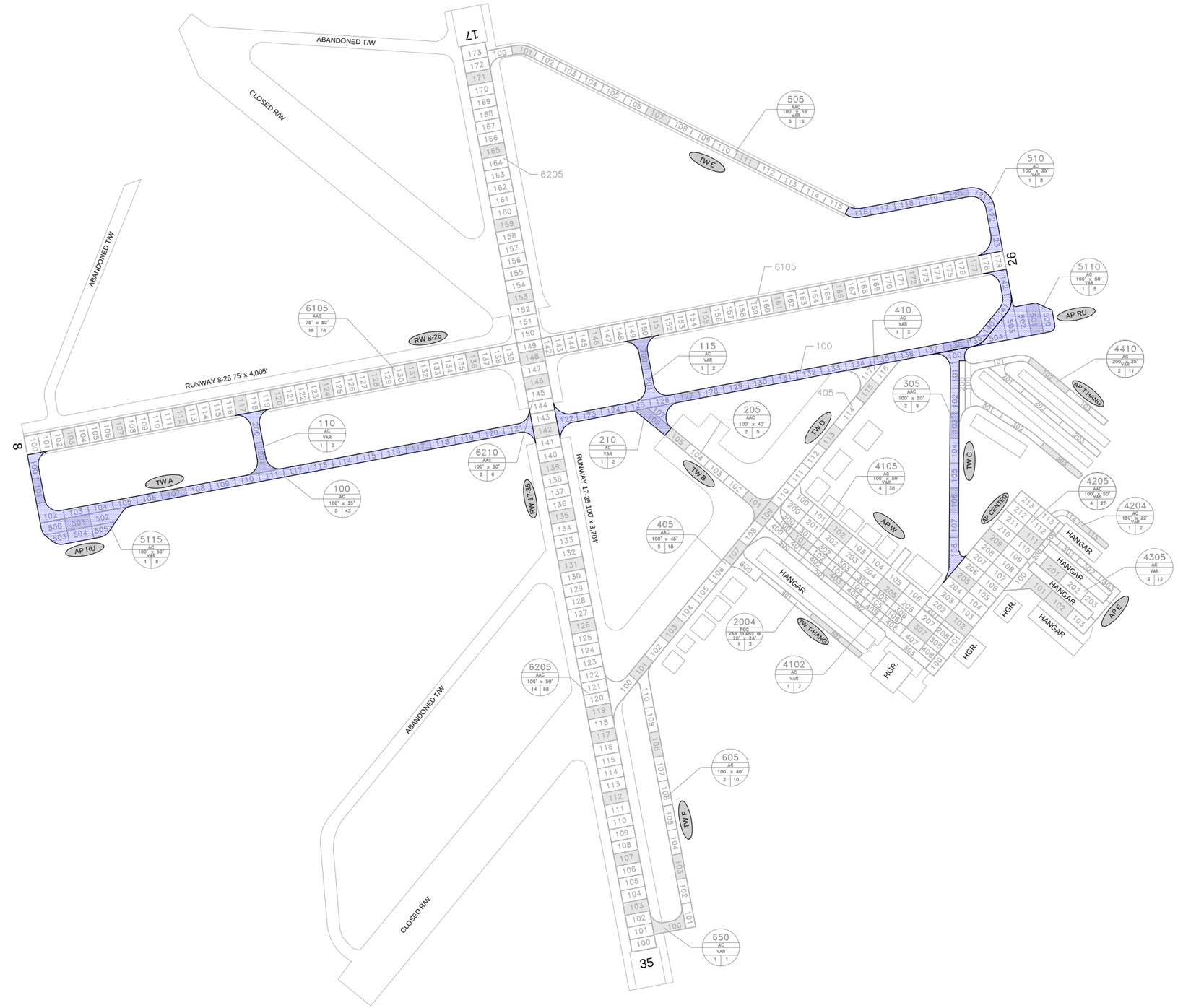
OFFICE OF FREIGHT, LOGISTICS & PASSENGER OPERATIONS

AIRFIELD PAVEMENT NETWORK DEFINITION EXHIBIT

ORMOND BEACH MUNICIPAL AIRPORT
VOLUSIA COUNTY, FLORIDA

FLORIDA DEPARTMENT OF TRANSPORTATION - AVIATION AND SPACEPORT OFFICE

IDENTIFIER: OMN
FDOT DISTRICT: 5



NORTH

GRAPHIC SCALE IN FEET
0 100 200 400

CONSTRUCTION SINCE LAST INSPECTION & ANTICIPATED CONSTRUCTION ACTIVITY

CONSTRUCTION YEAR	LOCATION	WORK TYPE / PAVEMENT SECTION
2013	TAXIWAY A	RE-ALIGNMENT, 4" P-401, 6" P-211, 12" P-152
2013	TAXIWAY C	PAVEMENT REHABILITATION, 2" P-401, 6" H-251 (RECLAIMED BASE), 12" P-152
2013	TAXIWAY E	RE-ALIGNMENT, 4" P-401, 6" P-211, 12" P-152
2013	TAXIWAY B	RE-ALIGNMENT, 4" P-401, 6" P-211, 12" P-152

LEGEND

- PROJECTS YEAR 2010
- PROJECTS YEAR 2011
- PROJECTS YEAR 2012
- PROJECTS YEAR 2013
- PROJECTS YEAR 2014
- PROJECTS YEAR 2015
- PROJECTS YEAR 2016
- PROJECTS YEAR 2017
- PROJECTS YEAR 2018
- PROJECTS YEAR 2019

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

NUMBER	DATE	REVISIONS

DESIGNED:	KHA	DRAWN:	KHA	CHECKED:	KHA	DATE:	2015

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OFFICE OF FREIGHT, LOGISTICS & PASSENGER OPERATIONS

AIRFIELD PAVEMENT SYSTEM INVENTORY EXHIBIT

ORMOND BEACH MUNICIPAL AIRPORT
VOLUSIA COUNTY, FLORIDA

FLORIDA DEPARTMENT OF TRANSPORTATION - AVIATION AND SPACEPORT OFFICE

IDENTIFIER: OMN
FDOT DISTRICT: 5

Table A-1: Pavement Geometry Inventory

Branch Name	Branch ID	Branch Use	Section ID	Length (FT)	Width (FT)	True Area (FT^2)	Section Rank	Surface Type	Last Const. Date	Last Insp. Date	Total Samples
RUNWAY 17-35	RW 17-35	RUNWAY	6210	207	100	29,188	P	AAC	1/1/2008	12/4/2014	6
RUNWAY 17-35	RW 17-35	RUNWAY	6205	3,420	100	341,312	P	AAC	1/1/2008	12/4/2014	68
RUNWAY 8-26	RW 8-26	RUNWAY	6105	4,000	75	292,950	S	AAC	1/1/1977	12/4/2014	78
RUN-UP APRON	AP RU	APRON	5115	300	100	28,289	P	AC	1/1/2013	1/1/2013	6
RUN-UP APRON	AP RU	APRON	5110	300	100	28,383	P	AC	1/1/2013	1/1/2013	5
AP T HANG	AP T HANG	APRON	4410	2,000	25	54,829	P	AC	1/1/2005	12/4/2014	11
EAST APRON - HANGAR AREA	AP E	APRON	4305	360	133	56,773	P	AC	1/1/1984	12/4/2014	12
CENTER APRON	AP CENTER	APRON	4205	450	200	134,535	T	AAC	1/1/1992	12/4/2014	27
CENTER APRON	AP CENTER	APRON	4204	285	22	5,932	T	AC	7/31/2008	12/4/2014	2
WEST APRON	AP W	APRON	4105	835	180	164,592	T	AC	1/1/1992	12/4/2014	38
WEST APRON	AP W	APRON	4102	670	34	22,255	P	AC	1/1/1992	12/4/2014	7
TAXIWAY TO T-HANGARS	TW T-HANG	TAXIWAY	2004	640	22	17,255	P	PCC	1/1/1992	12/4/2014	3
TAXIWAY F	TW F	TAXIWAY	650	130	40	6,273	P	AC	1/1/1984	12/4/2014	1
TAXIWAY F	TW F	TAXIWAY	605	1,040	40	41,694	P	AC	1/1/1984	12/4/2014	10
TAXIWAY E	TW E	TAXIWAY	510	800	35	29,167	P	AC	1/1/2013	1/1/2013	8
TAXIWAY E	TW E	TAXIWAY	505	2,060	35	56,507	P	AAC	1/1/1990	12/4/2014	16
TAXIWAY D	TW D	TAXIWAY	410	200	40	14,057	P	AC	1/1/2013	1/1/2013	3
TAXIWAY D	TW D	TAXIWAY	405	2,160	45	74,127	P	AAC	1/1/1984	12/4/2014	15
TAXIWAY C	TW C	TAXIWAY	305	1,160	50	35,470	P	AAC	1/1/2013	1/1/2013	9
TAXIWAY B	TW B	TAXIWAY	210	390	40	9,041	P	AC	1/1/2013	1/1/2013	2
TAXIWAY B	TW B	TAXIWAY	205	630	40	21,305	P	AAC	1/1/1977	12/4/2014	6

Branch Name	Branch ID	Branch Use	Section ID	Length (FT)	Width (FT)	True Area (FT^2)	Section Rank	Surface Type	Last Const. Date	Last Insp. Date	Total Samples
TAXIWAY A	TW A	TAXIWAY	115	200	40	11,172	P	AC	1/1/2013	1/1/2013	2
TAXIWAY A	TW A	TAXIWAY	110	200	40	11,172	P	AC	1/1/2013	1/1/2013	2
TAXIWAY A	TW A	TAXIWAY	100	4,450	35	155,988	P	AC	1/1/2013	1/1/2013	43

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

** Sections not surveyed due to reasons such as re-sectioning, no escort, not accessible at the time of survey. Please refer to Section 3 for discussion on the updates to the ASTM D 5640 that may affect PCI in comparison to previous program update.*

Network: OMN **Branch**: AP CENTER (CENTER APRON) **Section:** 4204 **Surface:** AC
L.C.D.: 07/31/2008 **Use:** APRON **Rank** T **Length:** 285.00 Ft **Width:** 22.00 Ft **True Area:** 5,932.00 SqF

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
07/31/2008	INITIAL	Initial Construction	$0	0.00	True	

Network: OMN **Branch**: AP CENTER (CENTER APRON) **Section:** 4205 **Surface:** AAC
L.C.D.: 01/01/1992 **Use:** APRON **Rank** T **Length:** 450.00 Ft **Width:** 200.00 Ft **True Area:** 134.535.00 SqF

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
01/01/1992	IMPORTED	OVERLAY			True	1992: AC OVERLAY
01/01/1979	IMPORTED	BUILT		1.00	True	1979: 1" TYPE S1 AC OVERLAY PLACED ON EXISTING AC ON BASE COURSE

Network: OMN **Branch**: AP E (EAST APRON - HANGAR AREA) **Section:** 4305 **Surface:** AC
L.C.D.: 01/01/1984 **Use:** APRON **Rank** P **Length:** 360.00 Ft **Width:** 133.00 Ft **True Area:** 56.773.00 SqF

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
01/01/1984	IMPORTED	BUILT			True	ESTIMATE 1984 AC PAVEMENT
01/01/1984	IMPORTED	OVERLAY			True	SOIL: SP

Network: OMN **Branch**: AP RU (RUN-UP APRON) **Section:** 5110 **Surface:** AC
L.C.D.: 01/01/2013 **Use:** APRON **Rank** P **Length:** 300.00 Ft **Width:** 100.00 Ft **True Area:** 28,383.00 SqF

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
01/01/2013	NU-IN	New Construction - Initial	$0	0.00	True	4" P401, 6" P211, 12" P152

Network: OMN **Branch**: AP RU (RUN-UP APRON) **Section:** 5115 **Surface:** AC
L.C.D.: 01/01/2013 **Use:** APRON **Rank** P **Length:** 300.00 Ft **Width:** 100.00 Ft **True Area:** 28,289.00 SqF

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
01/01/2013	NU-IN	New Construction - Initial	$0	0.00	True	4" P401, 6" P211, 12" P152

Network: OMN **Branch**: AP T HANG (AP T HANG) **Section:** 4410 **Surface:** AC
L.C.D.: 01/01/2005 **Use:** APRON **Rank** P **Length:** 2,000.00 Ft **Width:** 25.00 Ft **True Area:** 54,829.00 SqF

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
01/01/2005	NC-AC	New Construction - AC	$0	0.00	True	

Network: OMN **Branch**: AP W (WEST APRON) **Section:** 4102 **Surface:** AC
L.C.D.: 01/01/1992 **Use:** APRON **Rank** P **Length:** 670.00 Ft **Width:** 34.00 Ft **True Area:** 22.255.00 SqF

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
01/01/1992	IMPORTED	BUILT		2.00	True	1992: 2" P-401 ON 6" RECLAIMED PAVEMENT BASE
01/01/1992	IMPORTED	OVERLAY			True	SOIL: SP

Network: OMN **Branch**: AP W (WEST APRON) **Section:** 4105 **Surface:** AC
L.C.D.: 01/01/1992 **Use:** APRON **Rank** T **Length:** 835.00 Ft **Width:** 180.00 Ft **True Area:** 164,592.00 SqF

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
01/01/1992	IMPORTED	BUILT		2.00	True	1992: SEAL ON 2" P-401 ON 6" RECLAIMED PAVEMENT BASE
01/01/1992	IMPORTED	OVERLAY			True	SOIL: SP

Network: OMN **Branch**: RW 17-35 (RUNWAY 17-35) **Section:** 6205 **Surface:** AAC
L.C.D.: 01/01/2008 **Use:** RUNWAY **Rank** P **Length:** 3,420.00 Ft **Width:** 100.00 Ft **True Area:** 341,312.00 SqF

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
01/01/2008	ML-OL	Mill and Overlay	$0	0.00	True	
01/01/1983	IMPORTED	OVERLAY		0.00	True	THIS PAVEMENT HAD VERY UNUSUAL DISTRESS THAT WAS RECORDED AS SWELL. T
01/01/1983	IMPORTED	OVERLAY			True	IN RANDOM LOCATIONS AND OFTEN TIMES HAD CRACKING OCCURING WITH THEM.
01/01/1983	IMPORTED	OVERLAY		2.50	True	1983: 2.5" P-401 ON 1" - 3.5" LEVELING COURSE
01/01/1943	IMPORTED	BUILT		1.00	True	1943: 1" DOUBLE BITUMINOUS SURFACE ON 6" LIME ROCK BASE

Network: OMN **Branch**: RW 17-35 (RUNWAY 17-35) **Section:** 6210 **Surface:** AAC
L.C.D.: 01/01/2008 **Use:** RUNWAY **Rank** P **Length:** 207.00 Ft **Width:** 100.00 Ft **True Area:** 29,188.00 SqF

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
01/01/2008	ML-OL	Mill and Overlay	$0	0.00	True	
01/01/1973	IMPORTED	OVERLAY			True	ASSUME: 1973 AC OVERLAY
01/01/1943	IMPORTED	BUILT		1.00	True	1943: 1" DOUBLE BITUMINOUS SURFACE ON 6" LIME ROCK BASE

Network: OMN **Branch**: RW 8-26 (RUNWAY 8-26) **Section:** 6105 **Surface:** AAC
L.C.D.: 01/01/1977 **Use:** RUNWAY **Rank** S **Length:** 4,000.00 Ft **Width:** 75.00 Ft **True Area:** 292,950.00 SqF

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
01/01/1977	IMPORTED	OVERLAY			True	1977: VARIABLE THICKNESS TYPE 1 ASPHALT CONCRETE
01/01/1943	IMPORTED	BUILT		1.00	True	1943: 1" DOUBLE BITUMINOUS SURFACE ON 6" LIME ROCK BASE

Network: OMN **Branch**: TW A (TAXIWAY A) **Section:** 100 **Surface:** AC
L.C.D.: 01/01/2013 **Use:** TAXIWAY **Rank** P **Length:** 4,450.00 Ft **Width:** 35.00 Ft **True Area:** 155,988.00 SqF

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
01/01/2013	NU-IN	New Construction - Initial	$0	0.00	True	4" P401, 6" P211, 12" P152

Network: OMN **Branch**: TW A (TAXIWAY A) **Section:** 110 **Surface:** AC
L.C.D.: 01/01/2013 **Use:** TAXIWAY **Rank** P **Length:** 200.00 Ft **Width:** 40.00 Ft **True Area:** 11,172.00 SqF

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
01/01/2013	NU-IN	New Construction - Initial	$0	0.00	True	4" P401, 6" P211, 12" P152

Network: OMN **Branch**: TW A (TAXIWAY A) **Section:** 115 **Surface:** AC
L.C.D.: 01/01/2013 **Use:** TAXIWAY **Rank** P **Length:** 200.00 Ft **Width:** 40.00 Ft **True Area:** 11,172.00 SqF

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
01/01/2013	NU-IN	New Construction - Initial	$0	0.00	True	4" P401, 6" P211, 12" P152

Network: OMN **Branch**: TW B (TAXIWAY B) **Section:** 205 **Surface:** AAC
L.C.D.: 01/01/1977 **Use:** TAXIWAY **Rank** P **Length:** 630.00 Ft **Width:** 40.00 Ft **True Area:** 21,305.00 SqF

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
01/01/1977	IMPORTED	OVERLAY			True	1977: TYPE 1 ASPHALT CONCRETE (NO THICNESS INFO)
01/01/1977	IMPORTED	OVERLAY			True	SOIL: SP

01/01/1943	IMPORTED	BUILT		1.00	True	1943: 1" DOUBLE BITUMINOUS SURFACE ON 6" LIME ROCK BASE

Network: OMN **Branch**: TW B (TAXIWAY B) **Section:** 210 **Surface:** AC
L.C.D.: 01/01/2013 **Use:** TAXIWAY **Rank** P **Length:** 390.00 Ft **Width:** 40.00 Ft **True Area:** 9,041.00 SqF

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
01/01/2013	CR-AC	Complete Reconstruction - AC	$0	0.00	True	
01/01/1977	IMPORTED	OVERLAY			True	1977: AC OVERLAY (NO THICKNESS INFO)
01/01/1943	IMPORTED	BUILT		1.00	True	1943: 1" AC SURFACE ON 6" LIME ROCK BASE

Network: OMN **Branch**: TW C (TAXIWAY C) **Section:** 305 **Surface:** AAC
L.C.D.: 01/01/2013 **Use:** TAXIWAY **Rank** P **Length:** 1,160.00 Ft **Width:** 50.00 Ft **True Area:** 35,470.00 SqF

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
01/01/2013	ML-OV	MILL and OVERLAY	$0	0.00	True	2" P401, 6" H251, 12" P152
01/01/1990	IMPORTED	OVERLAY		6.00	True	ESISTING 6" AC ON 6" CRUSHED SHELL BASE
01/01/1990	IMPORTED	BUILT		2.00	True	1990: 2" P-401 OVERLAY PLACED ON

Network: OMN **Branch**: TW D (TAXIWAY D) **Section:** 405 **Surface:** AAC
L.C.D.: 01/01/1984 **Use:** TAXIWAY **Rank** P **Length:** 2,160.00 Ft **Width:** 45.00 Ft **True Area:** 74,127.00 SqF

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
01/01/1984	IMPORTED	OVERLAY			True	SOIL: SP
01/01/1984	IMPORTED	OVERLAY		3.00	True	1984: 3" RECYCLED HOT MIX AC
01/01/1943	IMPORTED	BUILT		1.00	True	1943: 1" BITUMINOUS SURFACE ON 6" LIME ROCK BASE

Network: OMN **Branch**: TW D (TAXIWAY D) **Section:** 410 **Surface:** AC
L.C.D.: 01/01/2013 **Use:** TAXIWAY **Rank** P **Length:** 200.00 Ft **Width:** 40.00 Ft **True Area:** 14,057.00 SqF

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
01/01/2013	NU-IN	New Construction - Initial	$0	0.00	True	4" P401, 6" P211, 12" P152

Network: OMN **Branch**: TW E (TAXIWAY E) **Section:** 505 **Surface:** AAC
L.C.D.: 01/01/1990 **Use:** TAXIWAY **Rank** P **Length:** 2,060.00 Ft **Width:** 35.00 Ft **True Area:** 56,507.00 SqF

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
01/01/1990	IMPORTED	OVERLAY		2.00	True	1990: 2" P-401 OVERLAY
01/01/1990	IMPORTED	OVERLAY			True	SOIL: SP
01/01/1943	IMPORTED	BUILT		4.50	True	1943: 4.5" AC ON 5" TAN SHELL ON 6" DARK GREY SAND

Network: OMN **Branch**: TW E (TAXIWAY E) **Section:** 510 **Surface:** AC
L.C.D.: 01/01/2013 **Use:** TAXIWAY **Rank** P **Length:** 800.00 Ft **Width:** 35.00 Ft **True Area:** 29,167.00 SqF

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
01/01/2013	NU-IN	New Construction - Initial	$0	0.00	True	4" P401, 6" P211, 12" P152

Network: OMN **Branch**: TW F (TAXIWAY F) **Section:** 605 **Surface:** AC
L.C.D.: 01/01/1984 **Use:** TAXIWAY **Rank** P **Length:** 1,040.00 Ft **Width:** 40.00 Ft **True Area:** 41,694.00 SqF

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
01/01/1984	IMPORTED	BUILT		2.00	True	1984: 2" RECYCLED HOT MIX ON 6" LIME ROCK BASE ON 2" WORK PLATFORM
01/01/1984	IMPORTED	OVERLAY			True	SOIL: SP

Network: OMN **Branch:** TW F (TAXIWAY F) **Section:** 650 **Surface:** AC
L.C.D.: 01/01/1984 **Use:** TAXIWAY **Rank** P **Length:** 130.00 Ft **Width:** 40.00 Ft **True Area:** 6,273.00 SqF

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
01/01/1984	IMPORTED	OVERLAY			True	SOIL: SP
01/01/1984	IMPORTED	BUILT		2.00	True	1984: 2" RECYCLED HOT MIX ON 6" LIME ROCK BASE ON 2" WORK PLATFORM

Network: OMN **Branch:** TW T-HANG (TAXIWAY TO T-HANGARS) **Section:** 2004 **Surface:** PCC
L.C.D.: 01/01/1992 **Use:** TAXIWAY **Rank** P **Length:** 640.00 Ft **Width:** 22.00 Ft **True Area:** 17,255.00 SqF

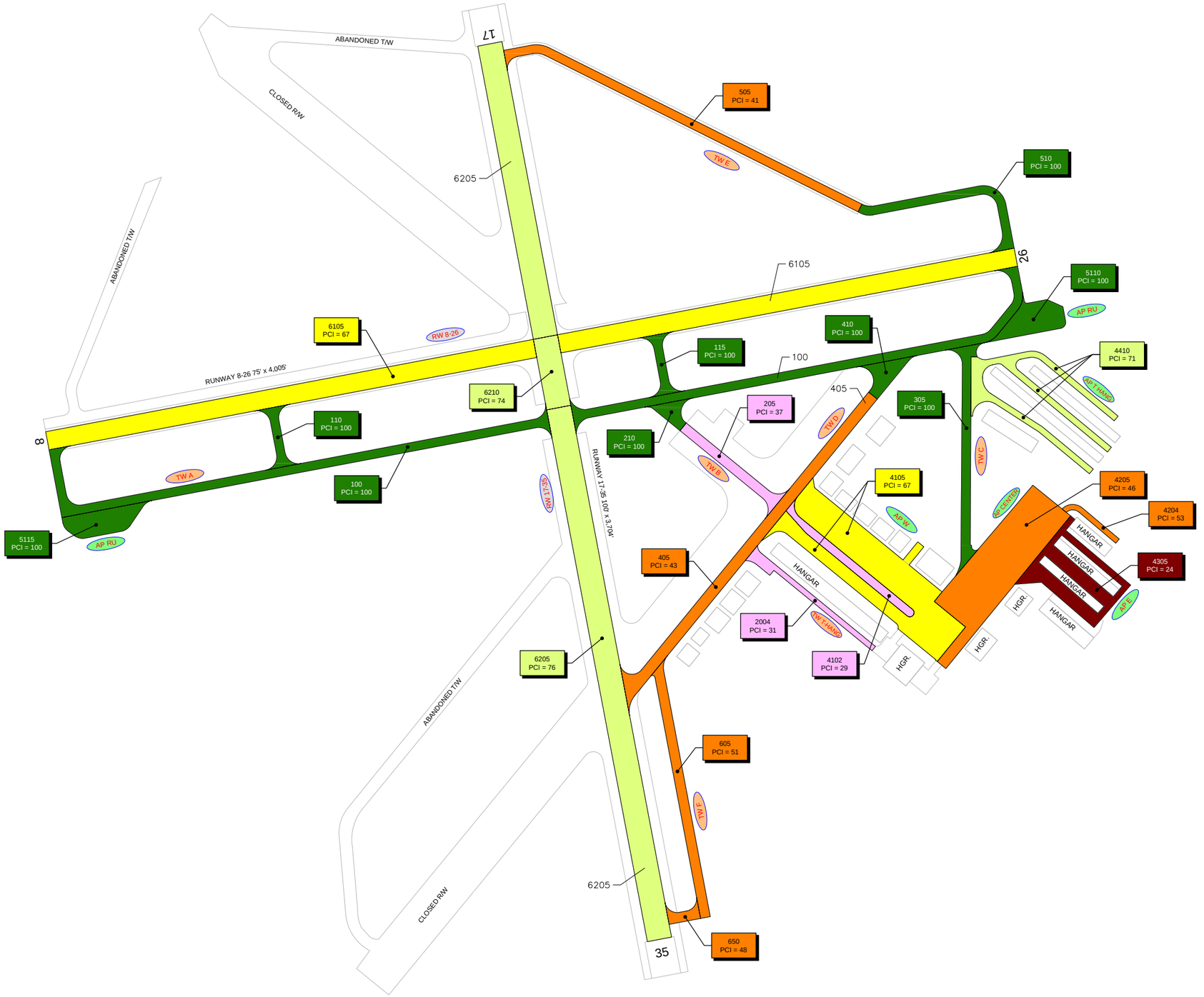
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
01/01/1992	INITIAL	Initial Construction	$0	0.00	True	

Summary:

Work Description	Section Count	Area Total (SqFt)	Thickness Avg (in)	Thickness STD (in)
BUILT	14	1,286,022.00	1.65	.99
Complete Reconstruction - AC	1	9,041.00	.00	
Initial Construction	2	23,187.00	.00	.00
Mill and Overlay	3	405,970.00	.00	.00
New Construction - AC	1	54,829.00	.00	
New Construction - Initial	7	278,228.00	.00	.00
OVERLAY	19	2,120,585.00	2.70	2.17

APPENDIX B

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



LEGEND

- RW 13-31 — TYPICAL RUNWAY BRANCH ID
- TW A — TYPICAL TAXIWAY BRANCH ID
- AP S — TYPICAL APRON BRANCH ID

- PCI 86–100 GOOD
- PCI 71–85 SATISFACTORY
- PCI 56–70 FAIR
- PCI 41–55 POOR
- PCI 26–40 VERY POOR
- PCI 11–25 SERIOUS
- PCI 0–10 FAILED

"SECTION NO."
"PCI NO."

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

NUMBER	DATE	REVISIONS

DESIGNED:	KHA	DRAWN:	KHA	CHECKED:	KHA	DATE:	2015

K:\OFB_Aviation\AIRFIELD\ADO\PLANSHEETS\OMN – ORMOND BEACH MUNICIPAL AIRPORT\EXHIBIT\203-OMN-CONDITION.dwg PLOTTED: May 1, 2015 – 11:18 AM, BY: Steve, Art

OFFICE OF FREIGHT, LOGISTICS & PASSENGER OPERATIONS

AIRFIELD PAVEMENT CONDITION INDEX RATING EXHIBIT

ORMOND BEACH MUNICIPAL AIRPORT
VOLUSIA COUNTY, FLORIDA

FLORIDA DEPARTMENT OF TRANSPORTATION - AVIATION AND SPACEPORT OFFICE

IDENTIFIER: OMN
FDOT DISTRICT: 5

Table B-1: Pavement Condition Index Inventory

Branch Name	Branch ID	Branch Use	Section ID	True Area (FT^2)	Section Rank	Surface Type	PCI	PCI Category	Total Inspection Samples	Total Samples
RUNWAY 17-35	RW 17-35	RUNWAY	6210	29,188	P	AAC	74	Satisfactory	2	6
RUNWAY 17-35	RW 17-35	RUNWAY	6205	341,312	P	AAC	76	Satisfactory	14	68
RUNWAY 8-26	RW 8-26	RUNWAY	6105	292,950	S	AAC	67	Fair	16	78
RUN-UP APRON	AP RU	APRON	5115	28,289	P	AC	100	Good	1	6
RUN-UP APRON	AP RU	APRON	5110	28,383	P	AC	100	Good	1	5
AP T HANG	AP T HANG	APRON	4410	54,829	P	AC	71	Satisfactory	2	11
EAST APRON - HANGAR AREA	AP E	APRON	4305	56,773	P	AC	24	Serious	3	12
CENTER APRON	AP CENTER	APRON	4205	134,535	T	AAC	46	Poor	4	27
CENTER APRON	AP CENTER	APRON	4204	5,932	T	AC	53	Poor	1	2
WEST APRON	AP W	APRON	4105	164,592	T	AC	67	Fair	4	38
WEST APRON	AP W	APRON	4102	22,255	P	AC	29	Very Poor	1	7
TAXIWAY TO T-HANGARS	TW T-HANG	TAXIWAY	2004	17,255	P	PCC	31	Very Poor	1	3
TAXIWAY F	TW F	TAXIWAY	650	6,273	P	AC	48	Poor	1	1
TAXIWAY F	TW F	TAXIWAY	605	41,694	P	AC	51	Poor	2	10
TAXIWAY E	TW E	TAXIWAY	510	29,167	P	AC	100	Good	1	8
TAXIWAY E	TW E	TAXIWAY	505	56,507	P	AAC	41	Poor	3	16
TAXIWAY D	TW D	TAXIWAY	410	14,057	P	AC	100	Good	1	3
TAXIWAY D	TW D	TAXIWAY	405	74,127	P	AAC	43	Poor	5	15
TAXIWAY C	TW C	TAXIWAY	305	35,470	P	AAC	100	Good	2	9
TAXIWAY B	TW B	TAXIWAY	210	9,041	P	AC	100	Good	1	2
TAXIWAY B	TW B	TAXIWAY	205	21,305	P	AAC	37	Very Poor	2	6
TAXIWAY A	TW A	TAXIWAY	115	11,172	P	AC	100	Good	1	2
TAXIWAY A	TW A	TAXIWAY	110	11,172	P	AC	100	Good	1	2
TAXIWAY A	TW A	TAXIWAY	100	155,988	P	AC	100	Good	5	43

Note: If new construction, then survey date = last construction date and PCI is set to 100 by MicroPAVER.
** Sections not surveyed due to reasons such as re-sectioning, no escort, not accessible at the time of survey. Please refer to Section 3 for discussion on the updates to the ASTM D 5640 that may affect PCI in comparison to previous program update.*

APPENDIX C

- BRANCH CONDITION REPORT
- SECTION CONDITION REPORT

Date: 1 /5/2015

Branch Condition Report

Pavement Database: FDOT NetworkID: OMN

Branch ID	Number of Sections	Sum Section Length (Ft)	Avg Section Width (Ft)	True Area (SqFt)	Use	Average PCI	PCI Standard Deviation	Weighted Average PCI
AP CENTER (CENTER APRON)	2	735.00	111.00	140,467.00	APRON	49.50	3.50	46.30
AP E (EAST APRON - HANGAR AREA)	1	360.00	133.00	56,773.00	APRON	24.00	0.00	24.00
AP RU (RUN-UP APRON)	2	600.00	100.00	56,672.00	APRON	100.00	0.00	100.00
AP T HANG (AP T HANG)	1	2,000.00	25.00	54,829.00	APRON	71.00	0.00	71.00
AP W (WEST APRON)	2	1,505.00	107.00	186,847.00	APRON	48.00	19.00	62.47
RW 17-35 (RUNWAY 17-35)	2	3,627.00	100.00	370,500.00	RUNWAY	75.00	1.00	75.84
RW 8-26 (RUNWAY 8-26)	1	4,000.00	75.00	292,950.00	RUNWAY	67.00	0.00	67.00
TW A (TAXIWAY A)	3	4,850.00	38.33	178,332.00	TAXIWAY	100.00	0.00	100.00
TW B (TAXIWAY B)	2	1,020.00	40.00	30,346.00	TAXIWAY	68.50	31.50	55.77
TW C (TAXIWAY C)	1	1,160.00	50.00	35,470.00	TAXIWAY	100.00	0.00	100.00
TW D (TAXIWAY D)	2	2,360.00	42.50	88,184.00	TAXIWAY	71.50	28.50	52.09
TW E (TAXIWAY E)	2	2,860.00	35.00	85,674.00	TAXIWAY	70.50	29.50	61.09
TW F (TAXIWAY F)	2	1,170.00	40.00	47,967.00	TAXIWAY	49.50	1.50	50.61
TW T-HANG (TAXIWAY TO T-HANGARS)	1	640.00	22.00	17,255.00	TAXIWAY	31.00	0.00	31.00

Use Category	Number of Sections	Total Area (SqFt)	Arithmetic Average PCI	Average PCI STD.	Weighted Average PCI
APRON	8	495,588.00	61.25	27.06	58.72
RUNWAY	3	663,450.00	72.33	3.86	71.94
TAXIWAY	13	483,228.00	73.15	29.35	74.21
All	24	1,642,266.00	69.08	27.26	68.62

Date: 1 /5/2015

Section Condition Report

Pavement Database: FDOT NetworkID: OMN

Branch ID	Section ID	Last Const. Date	Surface	Use	Rank	Lanes	True Area (SqFt)	Last Inspection Date	Age At Inspection	PCI
AP CENTER (CENTER APRON)	4204	07/31/2008	AC	APRON	T	0	5,932.00	12/04/2014	6	53.00
AP CENTER (CENTER APRON)	4205	01/01/1992	AAC	APRON	T	0	134,535.00	12/04/2014	22	46.00
AP E (EAST APRON - HANGAR AREA)	4305	01/01/1984	AC	APRON	P	0	56,773.00	12/04/2014	30	24.00
AP RU (RUN-UP APRON)	5110	01/01/2013	AC	APRON	P	0	28,383.00	01/01/2013	0	100.00
AP RU (RUN-UP APRON)	5115	01/01/2013	AC	APRON	P	0	28,289.00	01/01/2013	0	100.00
AP T HANG (AP T HANG)	4410	01/01/2005	AC	APRON	P	0	54,829.00	12/04/2014	9	71.00
AP W (WEST APRON)	4102	01/01/1992	AC	APRON	P	0	22,255.00	12/04/2014	22	29.00
AP W (WEST APRON)	4105	01/01/1992	AC	APRON	T	0	164,592.00	12/04/2014	22	67.00
RW 17-35 (RUNWAY 17-35)	6205	01/01/2008	AAC	RUNWAY	P	0	341,312.00	12/04/2014	6	76.00
RW 17-35 (RUNWAY 17-35)	6210	01/01/2008	AAC	RUNWAY	P	0	29,188.00	12/04/2014	6	74.00
RW 8-26 (RUNWAY 8-26)	6105	01/01/1977	AAC	RUNWAY	S	0	292,950.00	12/04/2014	37	67.00
TW A (TAXIWAY A)	100	01/01/2013	AC	TAXIWAY	P	0	155,988.00	01/01/2013	0	100.00
TW A (TAXIWAY A)	110	01/01/2013	AC	TAXIWAY	P	0	11,172.00	01/01/2013	0	100.00
TW A (TAXIWAY A)	115	01/01/2013	AC	TAXIWAY	P	0	11,172.00	01/01/2013	0	100.00
TW B (TAXIWAY B)	205	01/01/1977	AAC	TAXIWAY	P	0	21,305.00	12/04/2014	37	37.00
TW B (TAXIWAY B)	210	01/01/2013	AC	TAXIWAY	P	0	9,041.00	01/01/2013	0	100.00
TW C (TAXIWAY C)	305	01/01/2013	AAC	TAXIWAY	P	0	35,470.00	01/01/2013	0	100.00
TW D (TAXIWAY D)	405	01/01/1984	AAC	TAXIWAY	P	0	74,127.00	12/04/2014	30	43.00
TW D (TAXIWAY D)	410	01/01/2013	AC	TAXIWAY	P	0	14,057.00	01/01/2013	0	100.00
TW E (TAXIWAY E)	505	01/01/1990	AAC	TAXIWAY	P	0	56,507.00	12/04/2014	24	41.00
TW E (TAXIWAY E)	510	01/01/2013	AC	TAXIWAY	P	0	29,167.00	01/01/2013	0	100.00
TW F (TAXIWAY F)	605	01/01/1984	AC	TAXIWAY	P	0	41,694.00	12/04/2014	30	51.00
TW F (TAXIWAY F)	650	01/01/1984	AC	TAXIWAY	P	0	6,273.00	12/04/2014	30	48.00
TW T-HANG (TAXIWAY TO T-HANGARS)	2004	01/01/1992	PCC	TAXIWAY	P	0	17,255.00	12/04/2014	22	31.00

Section Condition Report

Pavement Database: FDOT

Age Category	Average Age At Inspection	Total Area (SqFt)	Number of Sections	Arithmetic Average PCI	PCI Standard Deviation	Weighted Average PCI
0-02	**0.00**	**322,739.00**	**9**	**100.00**	**0.00**	**100.00**
06-10	**6.75**	**431,261.00**	**4**	**68.50**	**10.54**	**74.91**
21-25	**22.40**	**395,144.00**	**5**	**42.80**	**15.24**	**52.42**
26-30	**30.00**	**178,867.00**	**4**	**41.50**	**12.12**	**39.01**
36-40	**37.00**	**314,255.00**	**2**	**52.00**	**21.21**	**64.97**
All	**13.88**	**1,642,266.00**	**24**	**69.08**	**27.85**	**68.62**

APPENDIX D

- PAVEMENT PERFORMANCE PREDICTION
- PAVEMENT PERFORMANCE BY PAVEMENT USE

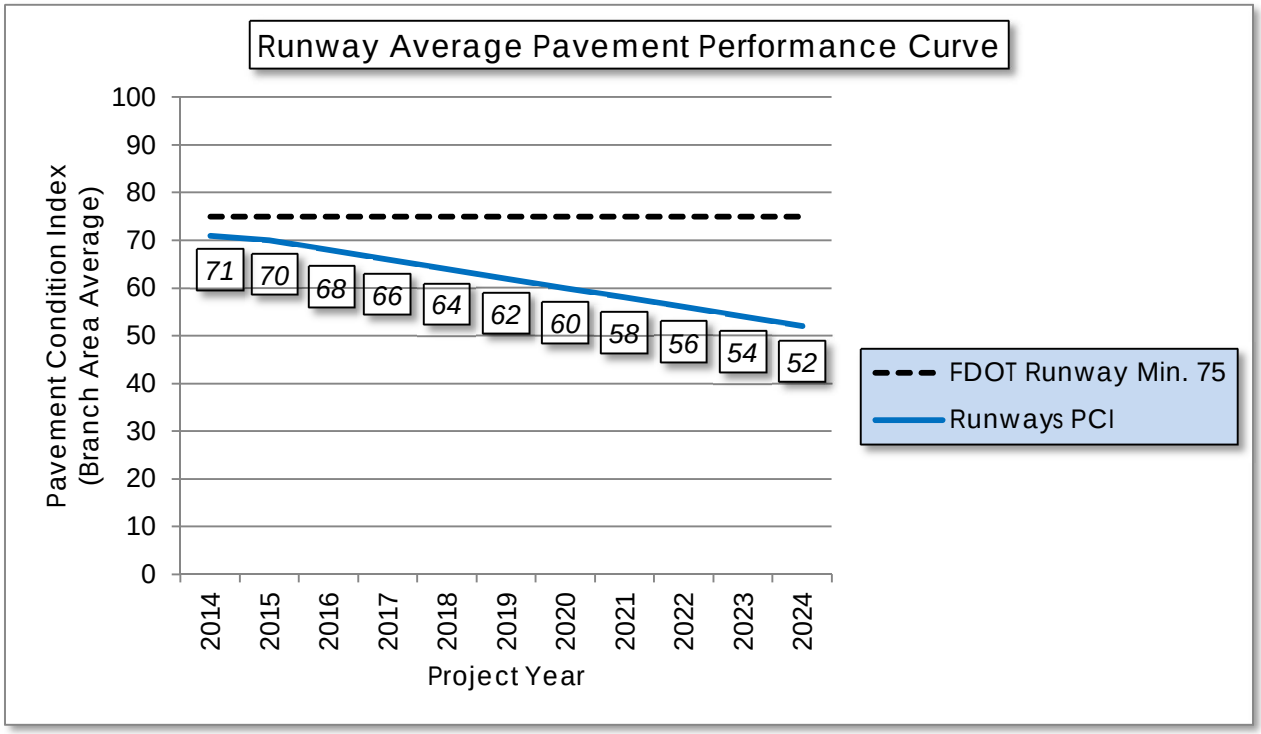
Table D-1: Pavement Performance Prediction

Branch ID	Section ID	Current PCI	Pavement Performance Model - PCI									
			2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
AP CENTER	4204	53	52	50	48	46	44	42	41	39	37	35
AP CENTER	4205	46	45	43	41	38	36	34	32	30	28	25
AP E	4305	24	23	21	19	17	15	13	12	10	8	6
AP RU	5110	100	95	93	92	90	88	86	84	82	80	78
AP RU	5115	100	95	93	92	90	88	86	84	82	80	78
AP T HANG	4410	71	70	68	66	64	62	60	59	57	55	53
AP W	4102	29	28	26	24	22	20	18	17	15	13	11
AP W	4105	67	66	64	62	60	58	56	55	53	51	49
RW 17-35	6205	76	75	73	71	69	67	65	63	61	59	57
RW 17-35	6210	74	73	71	69	67	65	63	61	59	57	55
RW 8-26	6105	67	66	64	62	60	58	56	54	52	50	48
TW A	100	100	97	95	94	93	91	90	88	87	86	84
TW A	110	100	97	95	94	93	91	90	88	87	86	84
TW A	115	100	97	95	94	93	91	90	88	87	86	84
TW B	205	37	36	34	32	31	29	27	25	23	22	20
TW B	210	100	97	95	94	93	91	90	88	87	86	84
TW C	305	100	96	94	92	90	88	86	85	83	81	79
TW D	405	43	42	40	38	37	35	33	31	29	28	26
TW D	410	100	97	95	94	93	91	90	88	87	86	84
TW E	505	41	40	38	36	35	33	31	29	27	26	24
TW E	510	100	97	95	94	93	91	90	88	87	86	84
TW F	605	51	50	49	48	46	45	43	42	41	39	38
TW F	650	48	47	46	45	43	42	40	39	38	36	35
TW T-HANG	2004	31	30	29	28	27	26	25	24	22	21	20

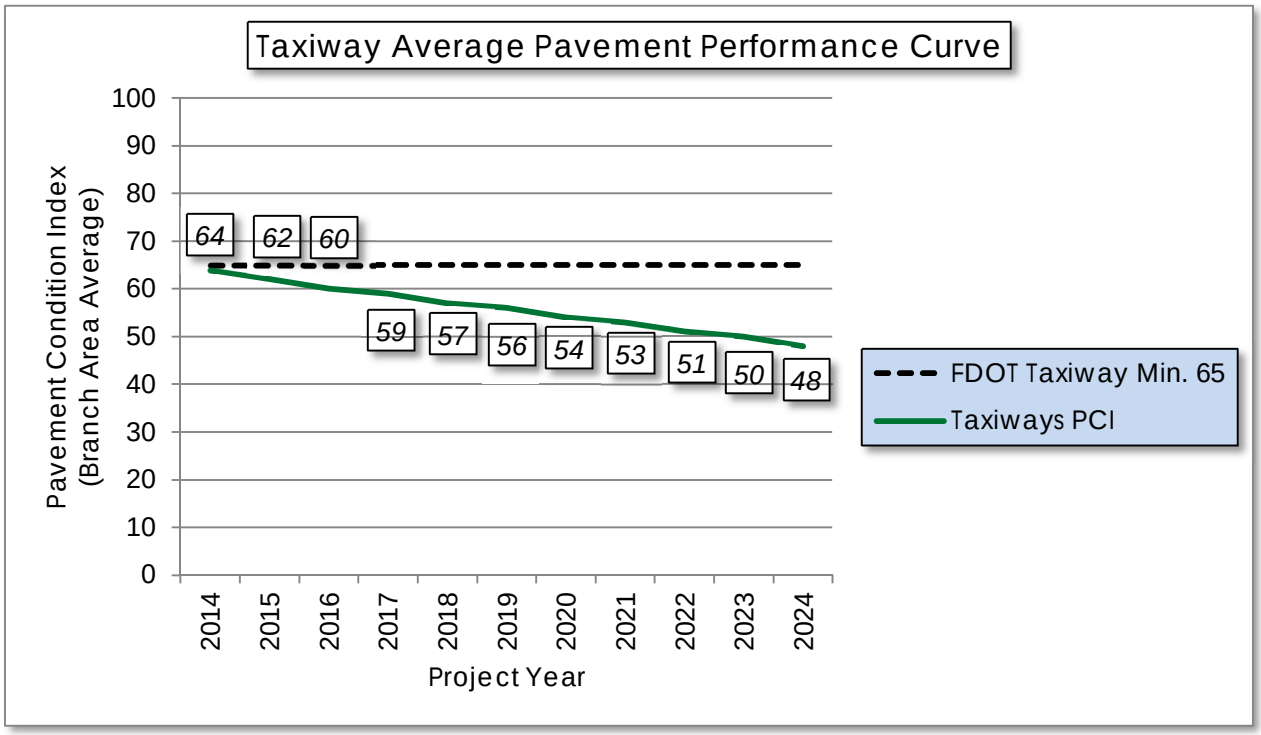
Note: If new construction, then survey date = last construction date and PCI is set to 100 by MicroPAVER.
** Sections not surveyed due to reasons such as re-sectioning, no escort, not accessible at the time of survey. Please refer to Section 3 for discussion on the updates to the ASTM D 5640 that may affect PCI in comparison to previous program update.*

Figure D-1: Pavement Performance by Pavement Use

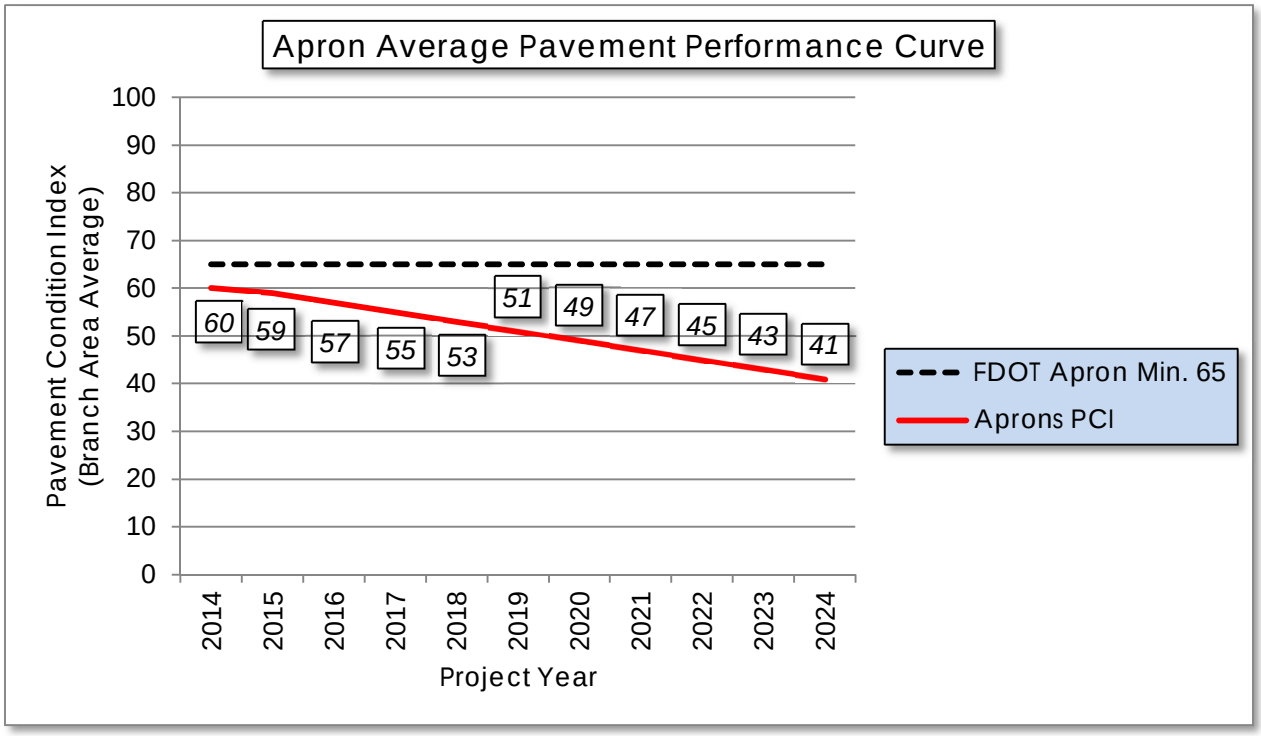
(a) Runway



(b) Taxiway



(c) Apron


Apron Average Pavement Performance Curve
Pavement Condition Index (Branch Area Average)
100
90
80
70
60
50
40
30
20
10
0
60
59
57
55
53
51
49
47
45
43
41
2014
2015
2016
2017
2018
2019
2020
2021
2022
2023
2024
Project Year
FDOT Apron Min. 65
Aprons PCI

APPENDIX E

- YEAR-1 PREVENTATIVE ACTIVITIES

Table E-1: Year-1 Preventative Activities

Branch Name	Branch ID	Section ID	Distress Description	Distress Severity	Work Description	Work Quantity	Work Unit	Unit Cost	Work Cost
CENTER APRON	AP CENTER	4204	BLOCK CR	L	Surface Seal	68.30	SqFt	$0.55	$ 37.57
CENTER APRON	AP CENTER	4204	L & T CR	L	Crack Sealing - AC	618.40	Ft	$2.75	$ 1,700.50
CENTER APRON	AP CENTER	4204	L & T CR	M	Crack Sealing - AC	122.20	Ft	$2.75	$ 336.15
CENTER APRON	AP CENTER	4204	RAVELING	H	Patching - AC Partial Depth	36.00	SqFt	$3.00	$ 107.85
CENTER APRON	AP CENTER	4204	RAVELING	L	Surface Seal	5,896.00	SqFt	$0.55	$ 3,242.85
CENTER APRON	AP CENTER	4205	BLOCK CR	L	Surface Seal	57,984.50	SqFt	$0.55	$ 31,891.72
CENTER APRON	AP CENTER	4205	DEPRESSION	L	Patching - AC Full Depth	94.10	SqFt	$5.00	$ 470.38
CENTER APRON	AP CENTER	4205	L & T CR	M	Crack Sealing - AC	1,248.20	Ft	$2.75	$ 3,432.68
CENTER APRON	AP CENTER	4205	L & T CR	L	Crack Sealing - AC	4,638.20	Ft	$2.75	$ 12,755.12
CENTER APRON	AP CENTER	4205	OIL SPILLAGE	N	Surface Seal	189.20	SqFt	$0.55	$ 104.08
CENTER APRON	AP CENTER	4205	PATCHING	M	Patching - AC Full Depth	3,070.20	SqFt	$5.00	$ 15,350.93
CENTER APRON	AP CENTER	4205	PATCHING	H	Patching - AC Full Depth	1,809.60	SqFt	$5.00	$ 9,047.76
CENTER APRON	AP CENTER	4205	RAVELING	L	Surface Seal	80,163.90	SqFt	$0.55	$ 44,090.50
CENTER APRON	AP CENTER	4205	RAVELING	H	Patching - AC Partial Depth	39.40	SqFt	$3.00	$ 118.26
CENTER APRON	AP CENTER	4205	RAVELING	M	Surface Seal	23,000.60	SqFt	$0.55	$ 12,650.46

Branch Name	Branch ID	Section ID	Distress Description	Distress Severity	Work Description	Work Quantity	Work Unit	Unit Cost	Work Cost
EAST APRON	AP E	4305	ALLIGATOR CR	M	Patching - AC Full Depth	970.90	SqFt	$5.00	$ 4,854.60
EAST APRON	AP E	4305	BLOCK CR	L	Surface Seal	37,251.80	SqFt	$0.55	$ 20,488.64
EAST APRON	AP E	4305	BLOCK CR	M	Patching - AC Full Depth	5,558.40	SqFt	$5.00	$ 27,791.80
EAST APRON	AP E	4305	DEPRESSION	M	Patching - AC Full Depth	134.00	SqFt	$5.00	$ 669.98
EAST APRON	AP E	4305	DEPRESSION	L	Patching - AC Full Depth	823.80	SqFt	$5.00	$ 4,118.92
EAST APRON	AP E	4305	L & T CR	L	Crack Sealing - AC	186.30	Ft	$2.75	$ 512.21
EAST APRON	AP E	4305	L & T CR	M	Crack Sealing - AC	816.90	Ft	$2.75	$ 2,246.54
EAST APRON	AP E	4305	PATCHING	M	Patching - AC Full Depth	176.90	SqFt	$5.00	$ 884.39
EAST APRON	AP E	4305	RAVELING	H	Patching - AC Partial Depth	45.70	SqFt	$3.00	$ 137.24
EAST APRON	AP E	4305	RAVELING	M	Surface Seal	56,599.80	SqFt	$0.55	$ 31,130.16
AP T-HANG	AP T HANG	4410	L & T CR	L	Crack Sealing - AC	66.20	Ft	$2.75	$ 182.01
AP T-HANG	AP T HANG	4410	RAVELING	L	Surface Seal	54,829.00	SqFt	$0.55	$ 30,156.20
WEST APRON	AP W	4102	BLOCK CR	M	Patching - AC Full Depth	22,255.00	SqFt	$5.00	$ 111,275.10
WEST APRON	AP W	4102	OIL SPILLAGE	N	Surface Seal	143.20	SqFt	$0.55	$ 78.77
WEST APRON	AP W	4102	RAVELING	M	Surface Seal	59.50	SqFt	$0.55	$ 32.72
WEST APRON	AP W	4102	RAVELING	L	Surface Seal	8,903.30	SqFt	$0.55	$ 4,896.87

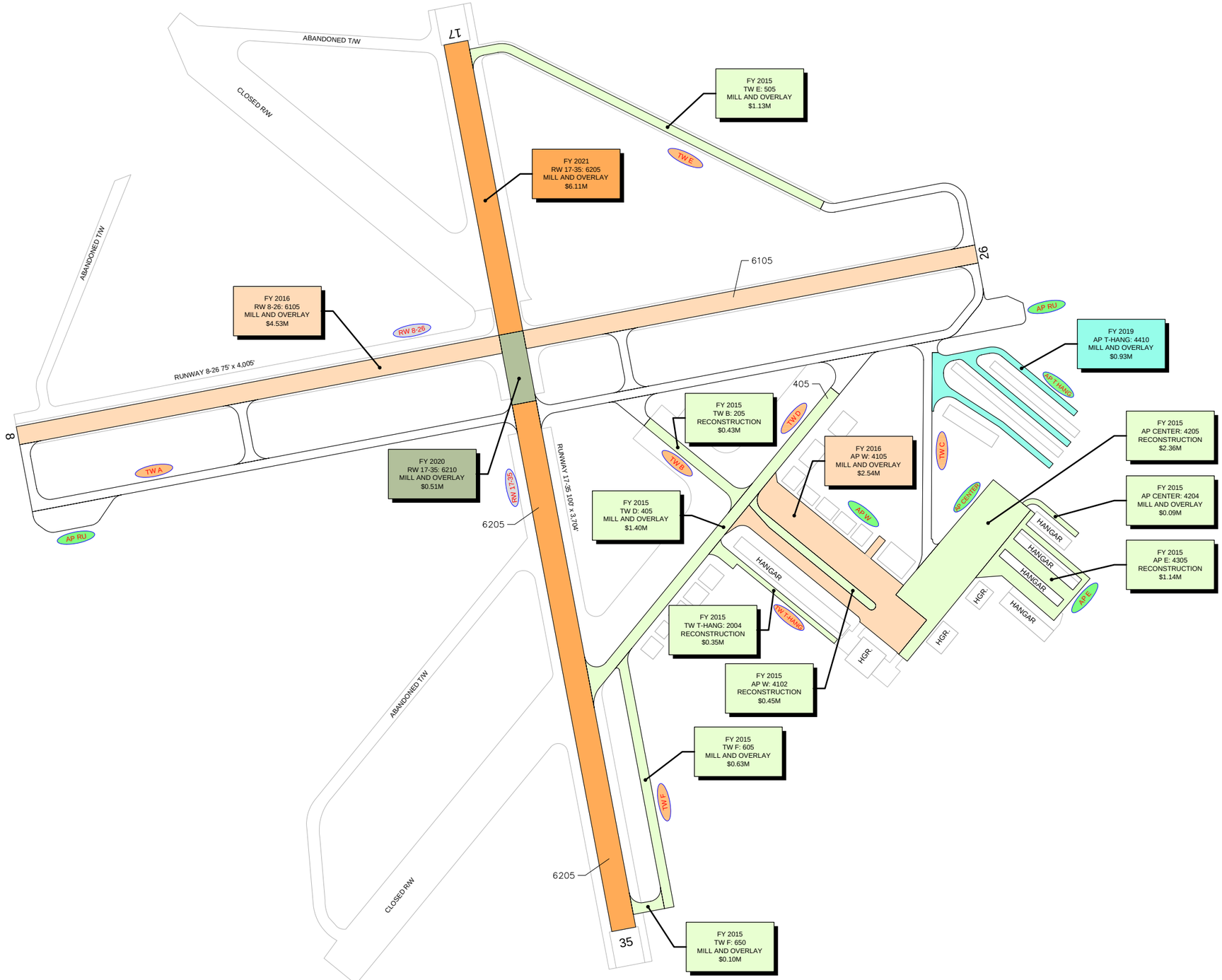
Branch Name	Branch ID	Section ID	Distress Description	Distress Severity	Work Description	Work Quantity	Work Unit	Unit Cost	Work Cost
WEST APRON	AP W	4105	L & T CR	L	Crack Sealing - AC	12,253.00	Ft	$2.75	$ 33,695.60
WEST APRON	AP W	4105	L & T CR	M	Crack Sealing - AC	905.30	Ft	$2.75	$ 2,489.45
WEST APRON	AP W	4105	OIL SPILLAGE	N	Surface Seal	406.20	SqFt	$0.55	$ 223.42
WEST APRON	AP W	4105	RAVELING	M	Surface Seal	73.20	SqFt	$0.55	$ 40.23
WEST APRON	AP W	4105	RAVELING	L	Surface Seal	34,747.20	SqFt	$0.55	$ 19,111.12
WEST APRON	AP W	4105	RAVELING	H	Patching - AC Partial Depth	109.70	SqFt	$3.00	$ 329.18
RUNWAY 17-35	RW 17-35	6205	L & T CR	L	Crack Sealing - AC	414.50	Ft	$2.75	$ 1,139.74
RUNWAY 17-36	RW 17-35	6205	RAVELING	L	Surface Seal	103,612.60	SqFt	$0.55	$ 56,987.39
RUNWAY 17-37	RW 17-35	6210	L & T CR	L	Crack Sealing - AC	268.50	Ft	$2.75	$ 738.46
RUNWAY 17-38	RW 17-35	6210	RAVELING	L	Surface Seal	8,756.40	SqFt	$0.55	$ 4,816.06
RUNWAY 8-26	RW 8-26	6105	L & T CR	M	Crack Sealing - AC	224.60	Ft	$2.75	$ 617.64
RUNWAY 8-27	RW 8-26	6105	L & T CR	L	Crack Sealing - AC	15,296.90	Ft	$2.75	$ 42,066.35
RUNWAY 8-28	RW 8-26	6105	RAVELING	L	Surface Seal	292,950.00	SqFt	$0.55	$ 161,123.84
TAXIWAY B	TW B	205	BLOCK CR	M	Patching - AC Full Depth	5,962.10	SqFt	$5.00	$ 29,810.57
TAXIWAY B	TW B	205	DEPRESSION	L	Patching - AC Full Depth	25.30	SqFt	$5.00	$ 126.55
TAXIWAY B	TW B	205	L & T CR	L	Crack Sealing - AC	379.30	Ft	$2.75	$ 1,043.20

Branch Name	Branch ID	Section ID	Distress Description	Distress Severity	Work Description	Work Quantity	Work Unit	Unit Cost	Work Cost
TAXIWAY B	TW B	205	L & T CR	M	Crack Sealing - AC	1,608.80	Ft	$2.75	$ 4,424.16
TAXIWAY B	TW B	205	RAVELING	L	Surface Seal	21,305.00	SqFt	$0.55	$ 11,717.85
TAXIWAY D	TW D	405	BLOCK CR	M	Patching - AC Full Depth	12,624.70	SqFt	$5.00	$ 63,123.31
TAXIWAY D	TW D	405	BLOCK CR	L	Surface Seal	2,998.00	SqFt	$0.55	$ 1,648.93
TAXIWAY D	TW D	405	L & T CR	L	Crack Sealing - AC	593.00	Ft	$2.75	$ 1,630.79
TAXIWAY D	TW D	405	L & T CR	M	Crack Sealing - AC	5,040.60	Ft	$2.75	$ 13,861.73
TAXIWAY D	TW D	405	PATCHING	M	Patching - AC Full Depth	957.20	SqFt	$5.00	$ 4,786.22
TAXIWAY D	TW D	405	RAVELING	L	Surface Seal	58,708.60	SqFt	$0.55	$ 32,289.99
TAXIWAY D	TW D	405	SHOVING	H	Grinding (Localized)	35.00	Ft	$2.10	$ 73.49
TAXIWAY D	TW D	405	SWELLING	M	Patching - AC Full Depth	623.50	SqFt	$5.00	$ 3,117.67
TAXIWAY E	TW E	505	BLOCK CR	M	Patching - AC Full Depth	56,280.10	SqFt	$5.00	$ 281,400.68
TAXIWAY E	TW E	505	RAVELING	L	Surface Seal	56,280.10	SqFt	$0.55	$ 30,954.30
TAXIWAY F	TW F	605	BLOCK CR	L	Surface Seal	17,355.10	SqFt	$0.55	$ 9,545.40
TAXIWAY F	TW F	605	L & T CR	L	Crack Sealing - AC	2,110.80	Ft	$2.75	$ 5,804.58
TAXIWAY F	TW F	605	L & T CR	M	Crack Sealing - AC	651.50	Ft	$2.75	$ 1,791.54
TAXIWAY F	TW F	605	RAVELING	L	Surface Seal	41,694.00	SqFt	$0.55	$ 22,931.89

Branch Name	Branch ID	Section ID	Distress Description	Distress Severity	Work Description	Work Quantity	Work Unit	Unit Cost	Work Cost
TAXIWAY F	TW F	650	L & T CR	L	Crack Sealing - AC	394.00	Ft	$2.75	$ 1,083.50
TAXIWAY F	TW F	650	L & T CR	M	Crack Sealing - AC	212.00	Ft	$2.75	$ 583.00
TAXIWAY F	TW F	650	RAVELING	L	Surface Seal	5,025.00	SqFt	$0.55	$ 2,763.77
TAXIWAY F	TW F	650	SWELLING	M	Patching - AC Full Depth	51.90	SqFt	$5.00	$ 259.57
TAXIWAY TO T-HANGARS	TW T-HANG	2004	JT SEAL DMG	L	Joint Seal - PCC	628.70	Ft	$3.00	$ 1,886.00
TAXIWAY TO T-HANGARS	TW T-HANG	2004	SHAT. SLAB	L	Slab Replacement - PCC	15,950.80	SqFt	$45.00	$ 717,784.66
TAXIWAY TO T-HANGARS	TW T-HANG	2004	SHAT. SLAB	M	Slab Replacement - PCC	1,329.20	SqFt	$45.00	$ 59,815.39
								Total =	$ 2,002,430.18

APPENDIX F

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



NUMBER	DATE	REVISIONS

DESIGNED:	KHA	DRAWN:	KHA	CHECKED:	KHA	DATE:	2015

K:\AVIS_Aviation\142170027\ADD\PLANSHEETS\OMN - ORMOND BEACH MUNICIPAL AIRPORT\EXHIBIT\2054-OMN-REHAB.dwg PLOTTED: May 1, 2015 - 11:19 AM, BY: Steve Art

OFFICE OF FREIGHT, LOGISTICS & PASSENGER OPERATIONS

AIRFIELD PAVEMENT 10-YEAR MAJOR REHABILITATION EXHIBIT

ORMOND BEACH MUNICIPAL AIRPORT
VOLUSIA COUNTY, FLORIDA

FLORIDA DEPARTMENT OF TRANSPORTATION - AVIATION AND SPACEPORT OFFICE

IDENTIFIER: OMN
FDOT DISTRICT: 5

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

Year	Branch ID	Section ID	Major M&R Costs*	PCI Before M&R	M&R Activity	PCI After M&R
2015	AP CENTER	4204	$ 88,980.00	52	Mill and Overlay	100
2015	AP CENTER	4205	$ 2,358,399.00	45	Reconstruction	100
2015	AP E	4305	$ 1,135,460.00	23	Reconstruction	100
2015	AP W	4102	$ 445,100.00	28	Reconstruction	100
2015	TW B	205	$ 426,100.00	36	Reconstruction	100
2015	TW D	405	$ 1,404,336.00	42	Mill and Overlay	100
2015	TW E	505	$ 1,127,032.00	40	Mill and Overlay	100
2015	TW F	605	$ 625,410.00	50	Mill and Overlay	100
2015	TW F	650	$ 102,469.00	47	Mill and Overlay	100
2015	TW T-HANG	2004	$ 345,100.00	30	Reconstruction	100
2016	AP W	4105	$ 2,542,947.00	64	Mill and Overlay	100
2016	RW 8-26	6105	$ 4,526,079.00	64	Mill and Overlay	100
2019	AP T HANG	4410	$ 925,658.00	63	Mill and Overlay	100
2020	RW 17-35	6210	$ 507,553.00	64	Mill and Overlay	100
2021	RW 17-35	6205	$ 6,113,167.00	65	Mill and Overlay	100
		Total =	$22,673,790.00			

** Costs are adjusted for inflation AT 3%*

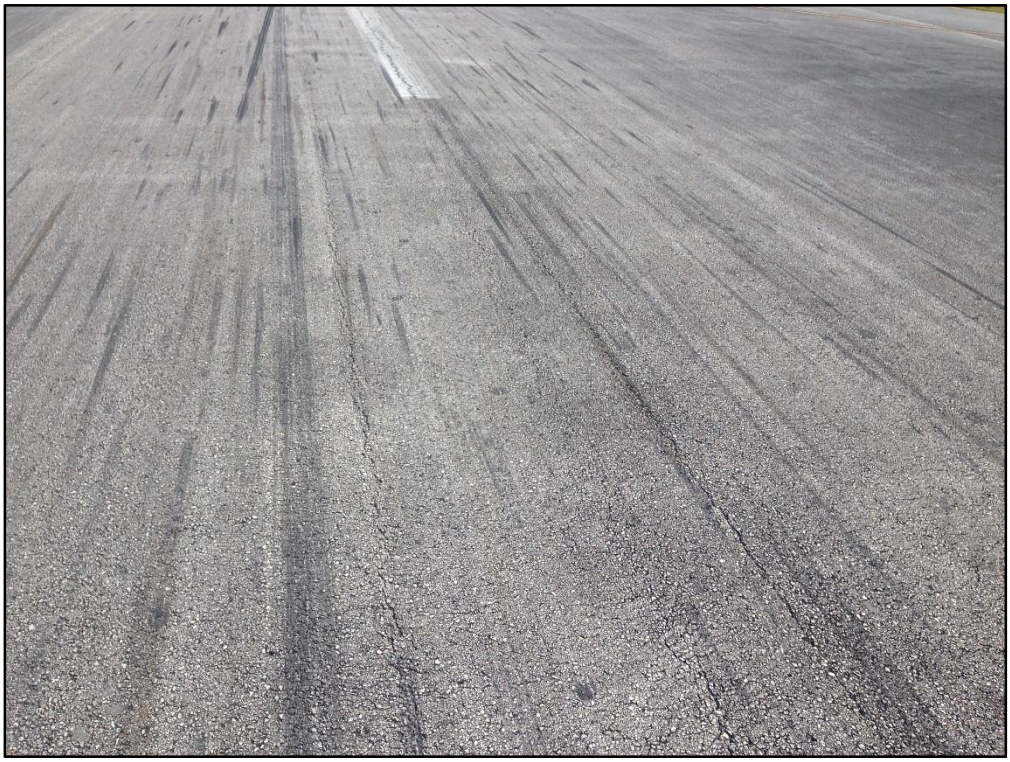
APPENDIX G

- PHOTOGRAPHS

Runway 17-35, Section 6205, Sample Unit 164 – Low Severity (56) Swelling, Low Severity (52) Raveling, Low Severity (57) Weathering

Runway 17-35, Section 6205, Sample Unit 148 – Low Severity (48) Longitudinal and Transverse Cracking, Low Severity (52) Raveling, Low Severity (57) Weathering

Runway 8-26, Section 6105, Sample Unit 166 – Low Severity (48) Longitudinal and Transverse Cracking, Low Severity (52) Raveling



Runway 8-26, Section 6105, Sample Unit 117 – Low Severity (48) Longitudinal and Transverse Cracking, Low Severity (52) Raveling

Taxiway Foxtrot, Section 650, Sample Unit 100 – Low Severity (56) Swelling, Medium Severity (56) Swelling, Low Severity (48) Longitudinal and Transverse Cracking, Medium Severity (48) Longitudinal and Transverse Cracking, Low Severity (52) Raveling

Taxiway Foxtrot, Section 605, Sample Unit 103 – Low Severity (48) Longitudinal and Transverse Cracking, Medium Severity (48) Longitudinal and Transverse Cracking, Low Severity (43) Block Cracking, Low Severity (56) Swelling, Low Severity (52) Raveling

Taxiway Delta, Section 405, Sample Unit 103 – Medium Severity (43) Block Cracking, Medium Severity (48) Longitudinal and Transverse Cracking, Low Severity (52) Raveling

Taxiway Delta, Section 405, Sample Unit 107 – High Severity (54) Shoving, Low Severity (52) Raveling

Taxiway Delta, Section 405, Sample Unit 109 – Medium Severity (56) Swelling, Low Severity (48) Longitudinal and Transverse Cracking, Medium Severity (48) Longitudinal and Transverse Cracking, Low Severity (52) Raveling

Taxiway Bravo, Section 205, Sample Unit 105 – Medium Severity (43) Block Cracking, Low Severity (48) Longitudinal and Transverse Cracking, Medium Severity (48) Longitudinal and Transverse Cracking, Low Severity (52) Raveling, Low Severity (56) Swelling

Apron Center, Section 4205, Sample Unit 111 – Low Severity (48) Longitudinal and Transverse Cracking, Medium Severity (48) Longitudinal and Transverse Cracking, Low Severity (52) Raveling

Apron West, Section 4102, Sample Unit 101 – Medium Severity (43) Block Cracking, Low Severity (56) Swelling, Low Severity (52) Raveling, Low Severity (57) Weathering

APPENDIX H

- DISTRESS DATA – RE-INSPECTION REPORT

Re-inspection Report

FDOT
Report Generated Date: January 05, 2015

Network: OMN Name: ORMOND BEACH MUNICIPAL AIRPORT

Branch: AP CENTER Name: CENTER APRON Use: APRON Area: 140,467.00SqFt

Section: 4204 of 2 From: - To: - Last Const.: 07/31/2008
Surface: AC Family: DEFAULT Zone: Category: Rank: T
Area: 5,932.00SqFt Length: 285.00Ft Width: 22.00Ft
Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: 12/04/2014 Total Samples: 2 Surveyed: 1
Conditions: PCI : 53
Inspection Comments:

Sample Number: 115 Type: R Area: 3,300.00SqFt PCI = 53
Sample Comments:

48	LONGITUDINAL/TRANSVERSE CRACKING	L	344.00 Ft	Comments:
48	LONGITUDINAL/TRANSVERSE CRACKING	M	68.00 Ft	Comments:
52	RAVELING	L	3,280.00 SqFt	Comments:
52	RAVELING	H	20.00 SqFt	Comments:
43	BLOCK CRACKING	L	38.00 SqFt	Comments:

Re-inspection Report

FDOT
Report Generated Date: January 05, 2015

Network: OMN Name: ORMOND BEACH MUNICIPAL AIRPORT

Branch: AP CENTER Name: CENTER APRON Use: APRON Area: 140,467.00SqFt

Section: 4205 of 2 From: - To: - Last Const.: 01/01/1992
Surface: AAC Family: DEFAULT Zone: Category: Rank: T
Area: 134,535.00SqFt Length: 450.00Ft Width: 200.00Ft
Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: 12/04/2014 Total Samples: 27 Surveyed: 4
Conditions: PCI : 46
Inspection Comments:

Sample Number: 102 Type: R Area: 5,452.00SqFt PCI = 51
Sample Comments: Seal Coat

50 PATCHING	H	250.00	SqFt	Comments:
52 RAVELING	L	5,202.00	SqFt	Comments:
48 LONGITUDINAL/TRANSVERSE CRACKING	L	467.00	Ft	Comments:

Sample Number: 111 Type: R Area: 5,024.00SqFt PCI = 37
Sample Comments: Seal Coat

50 PATCHING	L	240.00	SqFt	Comments:
50 PATCHING	L	80.00	SqFt	Comments:
50 PATCHING	L	10.00	SqFt	Comments:
50 PATCHING	L	60.00	SqFt	Comments:
50 PATCHING	L	42.00	SqFt	Comments:
48 LONGITUDINAL/TRANSVERSE CRACKING	M	190.00	Ft	Comments:
43 BLOCK CRACKING	L	3,825.00	SqFt	Comments:
45 DEPRESSION	L	9.00	SqFt	Comments:
52 RAVELING	L	2,500.00	SqFt	Comments:
52 RAVELING	M	1,500.00	SqFt	Comments:

Sample Number: 205 Type: R Area: 5,001.00SqFt PCI = 53
Sample Comments: Seal Coat

48 LONGITUDINAL/TRANSVERSE CRACKING	L	139.00	Ft	Comments:
50 PATCHING	M	434.00	SqFt	Comments:
52 RAVELING	L	1,500.00	SqFt	Comments:
52 RAVELING	H	6.00	SqFt	Comments:
49 OIL SPILLAGE	N	12.00	SqFt	Comments:
49 OIL SPILLAGE	N	9.00	SqFt	Comments:
48 LONGITUDINAL/TRANSVERSE CRACKING	L	100.00	Ft	Comments:
50 PATCHING	L	48.00	SqFt	Comments:

Sample Number: 209 Type: R Area: 5,001.00SqFt PCI = 40
Sample Comments: Seal Coat

52 RAVELING	L	3,000.00	SqFt	Comments:
43 BLOCK CRACKING	L	5,001.00	SqFt	Comments:
52 RAVELING	M	2,001.00	SqFt	Comments:

Re-inspection Report

FDOT
Report Generated Date: January 05, 2015

Network: OMN Name: ORMOND BEACH MUNICIPAL AIRPORT

Branch: AP E Name: EAST APRON - HANGAR AREA Use: APRON Area: 56,773.00SqFt

Section: 4305 of 1 From: - To: - Last Const.: 01/01/1984
Surface: AC Family: DEFAULT Zone: Category: Rank: P
Area: 56,773.00SqFt Length: 360.00Ft Width: 133.00Ft
Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: 12/04/2014 Total Samples: 12 Surveyed: 3
Conditions: PCI : 24
Inspection Comments:

Sample Number: 101 Type: R Area: 5,818.00SqFt PCI = 14
Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING	M	39.00	Ft	Comments:
50 PATCHING	M	35.00	SqFt	Comments:
52 RAVELING	M	5,769.00	SqFt	Comments:
43 BLOCK CRACKING	M	1,701.00	SqFt	Comments:
45 DEPRESSION	L	48.00	SqFt	Comments:
45 DEPRESSION	M	16.00	SqFt	Comments:
45 DEPRESSION	L	40.00	SqFt	Comments:
41 ALLIGATOR CRACKING	M	260.00	SqFt	Comments:
43 BLOCK CRACKING	L	3,000.00	SqFt	Comments:
52 RAVELING	H	14.00	SqFt	Comments:
45 DEPRESSION	M	12.00	SqFt	Comments:

Sample Number: 102 Type: R Area: 6,156.00SqFt PCI = 23
Sample Comments:

45 DEPRESSION	L	16.00	SqFt	Comments:
50 PATCHING	M	4.00	SqFt	Comments:
45 DEPRESSION	L	96.00	SqFt	Comments:
52 RAVELING	M	6,152.00	SqFt	Comments:
43 BLOCK CRACKING	L	3,000.00	SqFt	Comments:
48 LONGITUDINAL/TRANSVERSE CRACKING	M	100.00	Ft	Comments:
48 LONGITUDINAL/TRANSVERSE CRACKING	L	57.00	Ft	Comments:
48 LONGITUDINAL/TRANSVERSE CRACKING	M	111.00	Ft	Comments:
45 DEPRESSION	L	9.00	SqFt	Comments:

Sample Number: 201 Type: R Area: 5,400.00SqFt PCI = 36
Sample Comments:

52 RAVELING	M	5,400.00	SqFt	Comments:
43 BLOCK CRACKING	L	5,400.00	SqFt	Comments:
45 DEPRESSION	L	9.00	SqFt	Comments:

Re-inspection Report

FDOT
Report Generated Date: January 05, 2015

Network: OMN Name: ORMOND BEACH MUNICIPAL AIRPORT

Branch: AP RU Name: RUN-UP APRON Use: APRON Area: 56,672.00SqFt

Section: 5110 of 2 From: - To: - Last Const.: 01/01/2013
Surface: AC Family: DEFAULT Zone: Category: Rank: P
Area: 28,383.00SqFt Length: 300.00Ft Width: 100.00Ft
Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: Total Samples: 0 Surveyed: 0
Conditions:

Sample Number: Type: Area: 0.00
<NO VALID INSPECTIONS>

Re-inspection Report

FDOT
Report Generated Date: January 05, 2015

Network: OMN Name: ORMOND BEACH MUNICIPAL AIRPORT

Branch: AP RU Name: RUN-UP APRON Use: APRON Area: 56,672.00SqFt

Section: 5115 of 2 From: - To: - Last Const.: 01/01/2013
Surface: AC Family: DEFAULT Zone: Category: Rank: P
Area: 28,289.00SqFt Length: 300.00Ft Width: 100.00Ft
Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: Total Samples: 0 Surveyed: 0
Conditions:

Sample Number: Type: Area: 0.00
<NO VALID INSPECTIONS>

Re-inspection Report

FDOT
Report Generated Date: January 05, 2015

Network: OMN Name: ORMOND BEACH MUNICIPAL AIRPORT

Branch: AP T HANG Name: AP T HANG Use: APRON Area: 54,829.00SqFt

Section: 4410 of 1 From: - To: - Last Const.: 01/01/2005
Surface: AC Family: DEFAULT Zone: Category: Rank: P
Area: 54,829.00SqFt Length: 2,000.00Ft Width: 25.00Ft
Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: 12/04/2014 Total Samples: 11 Surveyed: 2
Conditions: PCI : 71
Inspection Comments:

Sample Number: 102 Type: R Area: 4,941.00SqFt PCI = 71
Sample Comments:

52 RAVELING	L	4,941.00 SqFt	Comments:
48 LONGITUDINAL/TRANSVERSE CRACKING	L	5.00 Ft	Comments:

Sample Number: 303 Type: R Area: 5,000.00SqFt PCI = 71
Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING	L	7.00 Ft	Comments:
52 RAVELING	L	5,000.00 SqFt	Comments:

Re-inspection Report

FDOT
Report Generated Date: January 05, 2015

Network: OMN Name: ORMOND BEACH MUNICIPAL AIRPORT

Branch: AP W Name: WEST APRON Use: APRON Area: 186,847.00SqFt

Section: 4102 of 2 From: - To: - Last Const.: 01/01/1992
Surface: AC Family: DEFAULT Zone: Category: Rank: P
Area: 22,255.00SqFt Length: 670.00Ft Width: 34.00Ft
Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: 12/04/2014 Total Samples: 7 Surveyed: 1
Conditions: PCI : 29
Inspection Comments:

Sample Number: 101 Type: R Area: 3,367.00SqFt PCI = 29
Sample Comments:

43 BLOCK CRACKING	M	3,367.00 SqFt	Comments:
49 OIL SPILLAGE	N	15.00 SqFt	Comments:
56 SWELLING	L	800.00 SqFt	Comments:
52 RAVELING	M	9.00 SqFt	Comments:
52 RAVELING	L	1,347.00 SqFt	Comments:

Re-inspection Report

FDOT
Report Generated Date: January 05, 2015

Network: OMN Name: ORMOND BEACH MUNICIPAL AIRPORT

Branch: AP W Name: WEST APRON Use: APRON Area: 186,847.00SqFt

Section: 4105 of 2 From: - To: - Last Const.: 01/01/1992
Surface: AC Family: DEFAULT Zone: Category: Rank: T
Area: 164,592.00SqFt Length: 835.00Ft Width: 180.00Ft
Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: 12/04/2014 Total Samples: 38 Surveyed: 4
Conditions: PCI : 67
Inspection Comments:

Sample Number: 102 Type: R Area: 5,000.00SqFt PCI = 74
Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING	L	168.00	Ft	Comments:
52 RAVELING	L	1,500.00	SqFt	Comments:
57 WEATHERING	L	3,500.00	SqFt	Comments:

Sample Number: 205 Type: R Area: 5,000.00SqFt PCI = 63
Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING	L	376.00	Ft	Comments:
48 LONGITUDINAL/TRANSVERSE CRACKING	M	26.00	Ft	Comments:
49 OIL SPILLAGE	N	24.00	SqFt	Comments:
52 RAVELING	M	8.00	SqFt	Comments:
52 RAVELING	L	500.00	SqFt	Comments:

Sample Number: 307 Type: R Area: 5,000.00SqFt PCI = 64
Sample Comments: Old Seal Coat

48 LONGITUDINAL/TRANSVERSE CRACKING	L	400.00	Ft	Comments:
48 LONGITUDINAL/TRANSVERSE CRACKING	M	73.00	Ft	Comments:
48 LONGITUDINAL/TRANSVERSE CRACKING	L	99.00	Ft	Comments:
52 RAVELING	H	12.00	SqFt	Comments:
49 OIL SPILLAGE	N	12.00	SqFt	Comments:

Sample Number: 403 Type: R Area: 3,000.00SqFt PCI = 68
Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING	L	297.00	Ft	Comments:
52 RAVELING	L	1,800.00	SqFt	Comments:
57 WEATHERING	L	1,200.00	SqFt	Comments:

Re-inspection Report

FDOT
Report Generated Date: January 05, 2015

Network: OMN Name: ORMOND BEACH MUNICIPAL AIRPORT

Branch: RW 17-35 Name: RUNWAY 17-35 Use: RUNWAY Area: 370,500.00SqFt

Section: 6205 of 2 From: - To: - Last Const.: 01/01/2008
Surface: AAC Family: DEFAULT Zone: Category: Rank: P
Area: 341,312.00SqFt Length: 3,420.00Ft Width: 100.00Ft
Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: 12/04/2014 Total Samples: 68 Surveyed: 14
Conditions: PCI : 76
Inspection Comments:

Sample Number: 103 Type: R Area: 5,000.00SqFt PCI = 79
Sample Comments:

52 RAVELING	L	1,500.00 SqFt	Comments:
57 WEATHERING	L	3,500.00 SqFt	Comments:

Sample Number: 107 Type: R Area: 5,000.00SqFt PCI = 79
Sample Comments:

52 RAVELING	L	1,500.00 SqFt	Comments:
57 WEATHERING	L	3,500.00 SqFt	Comments:

Sample Number: 112 Type: R Area: 5,000.00SqFt PCI = 78
Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING	L	17.00 Ft	Comments:
52 RAVELING	L	1,000.00 SqFt	Comments:
57 WEATHERING	L	4,000.00 SqFt	Comments:

Sample Number: 117 Type: R Area: 5,000.00SqFt PCI = 74
Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING	L	34.00 Ft	Comments:
52 RAVELING	L	1,500.00 SqFt	Comments:
57 WEATHERING	L	3,500.00 SqFt	Comments:

Sample Number: 119 Type: R Area: 5,000.00SqFt PCI = 76
Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING	L	3.00 Ft	Comments:
52 RAVELING	L	1,500.00 SqFt	Comments:
57 WEATHERING	L	3,500.00 SqFt	Comments:

Sample Number: 126 Type: R Area: 5,000.00SqFt PCI = 76
Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING	L	8.00 Ft	Comments:
52 RAVELING	L	1,500.00 SqFt	Comments:
57 WEATHERING	L	3,500.00 SqFt	Comments:

Sample Number: 131 Type: R Area: 5,000.00SqFt PCI = 81
Sample Comments:

52 RAVELING	L	1,000.00 SqFt	Comments:
57 WEATHERING	L	4,000.00 SqFt	Comments:

Sample Number: 135 Type: R Area: 5,000.00SqFt PCI = 76
Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING	L	3.00 Ft	Comments:
52 RAVELING	L	1,500.00 SqFt	Comments:

Re-inspection Report

FDOT

Report Generated Date: January 05, 2015

57 WEATHERING	L	3,500.00	SqFt	Comments:

Sample Number: 139 Type: R Area: 5,000.00SqFt PCI = 76

Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING	L	6.00	Ft	Comments:
52 RAVELING	L	1,500.00	SqFt	Comments:
57 WEATHERING	L	3,500.00	SqFt	Comments:

Sample Number: 142 Type: R Area: 5,000.00SqFt PCI = 76

Sample Comments:

52 RAVELING	L	1,500.00	SqFt	Comments:
48 LONGITUDINAL/TRANSVERSE CRACKING	L	4.00	Ft	Comments:
57 WEATHERING	L	3,500.00	SqFt	Comments:

Sample Number: 153 Type: R Area: 5,000.00SqFt PCI = 76

Sample Comments:

56 SWELLING	L	42.00	SqFt	Comments:
52 RAVELING	L	1,500.00	SqFt	Comments:
57 WEATHERING	L	3,500.00	SqFt	Comments:

Sample Number: 159 Type: R Area: 5,000.00SqFt PCI = 68

Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING	L	10.00	Ft	Comments:
52 RAVELING	L	2,000.00	SqFt	Comments:
57 WEATHERING	L	3,000.00	SqFt	Comments:
56 SWELLING	L	350.00	SqFt	Comments:

Sample Number: 165 Type: R Area: 5,000.00SqFt PCI = 71

Sample Comments:

56 SWELLING	L	600.00	SqFt	Comments:
52 RAVELING	L	2,000.00	SqFt	Comments:
57 WEATHERING	L	3,000.00	SqFt	Comments:

Sample Number: 171 Type: R Area: 5,000.00SqFt PCI = 72

Sample Comments:

56 SWELLING	L	114.00	SqFt	Comments:
52 RAVELING	L	1,750.00	SqFt	Comments:
57 WEATHERING	L	3,250.00	SqFt	Comments:

Re-inspection Report

FDOT
Report Generated Date: January 05, 2015

Network: OMN Name: ORMOND BEACH MUNICIPAL AIRPORT

Branch: RW 17-35 Name: RUNWAY 17-35 Use: RUNWAY Area: 370,500.00SqFt

Section: 6210 of 2 From: - To: - Last Const.: 01/01/2008
Surface: AAC Family: DEFAULT Zone: Category: Rank: P
Area: 29,188.00SqFt Length: 207.00Ft Width: 100.00Ft
Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: 12/04/2014 Total Samples: 6 Surveyed: 2
Conditions: PCI : 74
Inspection Comments:

Sample Number: 146 Type: R Area: 5,000.00SqFt PCI = 76
Sample Comments:

48	LONGITUDINAL/TRANSVERSE CRACKING	L	4.00 Ft	Comments:
52	RAVELING	L	1,500.00 SqFt	Comments:
57	WEATHERING	L	3,500.00 SqFt	Comments:

Sample Number: 148 Type: R Area: 5,000.00SqFt PCI = 72
Sample Comments:

48	LONGITUDINAL/TRANSVERSE CRACKING	L	88.00 Ft	Comments:
52	RAVELING	L	1,500.00 SqFt	Comments:
57	WEATHERING	L	3,500.00 SqFt	Comments:
56	SWELLING	L	22.00 SqFt	Comments:

Re-inspection Report

FDOT
Report Generated Date: January 05, 2015

Network: OMN Name: ORMOND BEACH MUNICIPAL AIRPORT

Branch: RW 8-26 Name: RUNWAY 8-26 Use: RUNWAY Area: 292,950.00SqFt

Section: 6105 of 1 From: - To: - Last Const.: 01/01/1977
Surface: AAC Family: DEFAULT Zone: Category: Rank: S
Area: 292,950.00SqFt Length: 4,000.00Ft Width: 75.00Ft
Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: 12/04/2014 Total Samples: 78 Surveyed: 16
Conditions: PCI : 67
Inspection Comments:

Sample Number: 103 Type: R Area: 3,750.00SqFt PCI = 69
Sample Comments:

48	LONGITUDINAL/TRANSVERSE CRACKING	L	307.00 Ft	Comments:
52	RAVELING	L	3,750.00 SqFt	Comments:

Sample Number: 107 Type: R Area: 3,750.00SqFt PCI = 69
Sample Comments:

48	LONGITUDINAL/TRANSVERSE CRACKING	L	182.00 Ft	Comments:
52	RAVELING	L	3,750.00 SqFt	Comments:

Sample Number: 112 Type: R Area: 3,750.00SqFt PCI = 64
Sample Comments:

48	LONGITUDINAL/TRANSVERSE CRACKING	L	138.00 Ft	Comments:
52	RAVELING	L	3,750.00 SqFt	Comments:
48	LONGITUDINAL/TRANSVERSE CRACKING	M	15.00 Ft	Comments:

Sample Number: 117 Type: R Area: 3,750.00SqFt PCI = 69
Sample Comments:

48	LONGITUDINAL/TRANSVERSE CRACKING	L	169.00 Ft	Comments:
52	RAVELING	L	3,750.00 SqFt	Comments:

Sample Number: 120 Type: R Area: 3,750.00SqFt PCI = 69
Sample Comments:

48	LONGITUDINAL/TRANSVERSE CRACKING	L	222.00 Ft	Comments:
52	RAVELING	L	3,750.00 SqFt	Comments:

Sample Number: 124 Type: R Area: 3,750.00SqFt PCI = 64
Sample Comments:

48	LONGITUDINAL/TRANSVERSE CRACKING	L	182.00 Ft	Comments:
52	RAVELING	L	3,750.00 SqFt	Comments:
48	LONGITUDINAL/TRANSVERSE CRACKING	M	11.00 Ft	Comments:

Sample Number: 128 Type: R Area: 3,750.00SqFt PCI = 67
Sample Comments:

48	LONGITUDINAL/TRANSVERSE CRACKING	L	229.00 Ft	Comments:
52	RAVELING	L	3,750.00 SqFt	Comments:
56	SWELLING	L	22.00 SqFt	Comments:

Sample Number: 131 Type: R Area: 3,750.00SqFt PCI = 69
Sample Comments:

48	LONGITUDINAL/TRANSVERSE CRACKING	L	58.00 Ft	Comments:
48	LONGITUDINAL/TRANSVERSE CRACKING	L	100.00 Ft	Comments:
52	RAVELING	L	3,750.00 SqFt	Comments:

Re-inspection Report

FDOT
Report Generated Date: January 05, 2015

Sample Number: 136 Type: R Area: 3,750.00SqFt PCI = 69
Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING	L	21.00	Ft	Comments:
48 LONGITUDINAL/TRANSVERSE CRACKING	L	250.00	Ft	Comments:
52 RAVELING	L	3,750.00	SqFt	Comments:

Sample Number: 146 Type: R Area: 3,750.00SqFt PCI = 69
Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING	L	168.00	Ft	Comments:
52 RAVELING	L	3,750.00	SqFt	Comments:

Sample Number: 151 Type: R Area: 3,750.00SqFt PCI = 69
Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING	L	177.00	Ft	Comments:
52 RAVELING	L	3,750.00	SqFt	Comments:

Sample Number: 155 Type: R Area: 3,750.00SqFt PCI = 69
Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING	L	100.00	Ft	Comments:
48 LONGITUDINAL/TRANSVERSE CRACKING	L	124.00	Ft	Comments:
52 RAVELING	L	3,750.00	SqFt	Comments:

Sample Number: 161 Type: R Area: 3,750.00SqFt PCI = 67
Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING	L	209.00	Ft	Comments:
52 RAVELING	L	3,750.00	SqFt	Comments:
56 SWELLING	L	8.00	SqFt	Comments:

Sample Number: 166 Type: R Area: 3,750.00SqFt PCI = 64
Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING	L	92.00	Ft	Comments:
52 RAVELING	L	3,750.00	SqFt	Comments:
48 LONGITUDINAL/TRANSVERSE CRACKING	M	20.00	Ft	Comments:

Sample Number: 172 Type: R Area: 3,750.00SqFt PCI = 69
Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING	L	187.00	Ft	Comments:
52 RAVELING	L	3,750.00	SqFt	Comments:

Sample Number: 177 Type: R Area: 3,750.00SqFt PCI = 69
Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING	L	218.00	Ft	Comments:
52 RAVELING	L	3,750.00	SqFt	Comments:

Re-inspection Report

FDOT
Report Generated Date: January 05, 2015

Network: OMN Name: ORMOND BEACH MUNICIPAL AIRPORT

Branch: TW A Name: TAXIWAY A Use: TAXIWAY Area: 178,332.00SqFt

Section: 100 of 3 From: - To: - Last Const.: 01/01/2013
Surface: AC Family: DEFAULT Zone: Category: Rank: P
Area: 155,988.00SqFt Length: 4,450.00Ft Width: 35.00Ft
Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: Total Samples: 0 Surveyed: 0
Conditions:

Sample Number: Type: Area: 0.00
<NO VALID INSPECTIONS>

Re-inspection Report

FDOT
Report Generated Date: January 05, 2015

Network: OMN Name: ORMOND BEACH MUNICIPAL AIRPORT

Branch: TW A Name: TAXIWAY A Use: TAXIWAY Area: 178,332.00SqFt

Section: 110 of 3 From: - To: - Last Const.: 01/01/2013
Surface: AC Family: DEFAULT Zone: Category: Rank: P
Area: 11,172.00SqFt Length: 200.00Ft Width: 40.00Ft
Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: Total Samples: 0 Surveyed: 0
Conditions:

Sample Number: Type: Area: 0.00
<NO VALID INSPECTIONS>

Re-inspection Report

FDOT
Report Generated Date: January 05, 2015

Network: OMN Name: ORMOND BEACH MUNICIPAL AIRPORT

Branch: TW A Name: TAXIWAY A Use: TAXIWAY Area: 178,332.00SqFt

Section: 115 of 3 From: - To: - Last Const.: 01/01/2013
Surface: AC Family: DEFAULT Zone: Category: Rank: P
Area: 11,172.00SqFt Length: 200.00Ft Width: 40.00Ft
Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: Total Samples: 0 Surveyed: 0
Conditions:

Sample Number: Type: Area: 0.00
<NO VALID INSPECTIONS>

Re-inspection Report

FDOT
Report Generated Date: January 05, 2015

Network: OMN Name: ORMOND BEACH MUNICIPAL AIRPORT

Branch: TW B Name: TAXIWAY B Use: TAXIWAY Area: 30,346.00SqFt

Section: 205 of 2 From: - To: - Last Const.: 01/01/1977
Surface: AAC Family: DEFAULT Zone: Category: Rank: P
Area: 21,305.00SqFt Length: 630.00Ft Width: 40.00Ft
Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: 12/04/2014 Total Samples: 6 Surveyed: 2
Conditions: PCI : 37
Inspection Comments:

Sample Number: 101 Type: R Area: 5,323.00SqFt PCI = 37
Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING	M	235.00	Ft	Comments:
43 BLOCK CRACKING	M	160.00	SqFt	Comments:
56 SWELLING	L	213.00	SqFt	Comments:
52 RAVELING	L	5,323.00	SqFt	Comments:
48 LONGITUDINAL/TRANSVERSE CRACKING	L	58.00	Ft	Comments:
48 LONGITUDINAL/TRANSVERSE CRACKING	M	187.00	Ft	Comments:
56 SWELLING	L	36.00	SqFt	Comments:
45 DEPRESSION	L	4.00	SqFt	Comments:
43 BLOCK CRACKING	M	321.00	SqFt	Comments:
43 BLOCK CRACKING	M	828.00	SqFt	Comments:

Sample Number: 105 Type: R Area: 4,000.00SqFt PCI = 36
Sample Comments:

43 BLOCK CRACKING	M	1,300.00	SqFt	Comments:
48 LONGITUDINAL/TRANSVERSE CRACKING	M	282.00	Ft	Comments:
48 LONGITUDINAL/TRANSVERSE CRACKING	L	108.00	Ft	Comments:
52 RAVELING	L	4,000.00	SqFt	Comments:
56 SWELLING	L	200.00	SqFt	Comments:
56 SWELLING	L	136.00	SqFt	Comments:

Re-inspection Report

FDOT
Report Generated Date: January 05, 2015

Network: OMN Name: ORMOND BEACH MUNICIPAL AIRPORT

Branch: TW B Name: TAXIWAY B Use: TAXIWAY Area: 30,346.00SqFt

Section: 210 of 2 From: - To: - Last Const.: 01/01/2013
Surface: AC Family: DEFAULT Zone: Category: Rank: P
Area: 9,041.00SqFt Length: 390.00Ft Width: 40.00Ft
Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

NOTE: * Pre-Construction PCI *****
Last Insp. Date: 02/28/2011 Total Samples: 4 Surveyed: 1
Conditions: PCI : 63
Inspection Comments: KHA

Sample Number: 108 Type: R Area: 4,000.00SqFt PCI = 63
Sample Comments:

43	BLOCK CRACKING	L	2,026.00 SqFt	Comments:
48	LONGITUDINAL/TRANSVERSE CRACKING	L	16.00 Ft	Comments:
52	RAVELING	L	3,000.00 SqFt	Comments:

Re-inspection Report

FDOT
Report Generated Date: January 05, 2015

Network: OMN Name: ORMOND BEACH MUNICIPAL AIRPORT

Branch: TW C Name: TAXIWAY C Use: TAXIWAY Area: 35,470.00SqFt

Section: 305 of 1 From: - To: - Last Const.: 01/01/2013
Surface: AAC Family: DEFAULT Zone: Category: Rank: P
Area: 35,470.00SqFt Length: 1,160.00Ft Width: 50.00Ft
Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

NOTE: * Pre-Construction PCI *****
Last Insp. Date: 02/28/2011 Total Samples: 12 Surveyed: 3
Conditions: PCI : 24
Inspection Comments: KHA

Sample Number: 102 Type: R Area: 5,000.00SqFt PCI = 22
Sample Comments:

43 BLOCK CRACKING	M	4,999.96 SqFt	Comments:
52 RAVELING	M	4,999.96 SqFt	Comments:
50 PATCHING	L	750.00 SqFt	Comments:

Sample Number: 105 Type: R Area: 5,000.00SqFt PCI = 25
Sample Comments:

43 BLOCK CRACKING	M	4,999.96 SqFt	Comments:
52 RAVELING	M	4,999.96 SqFt	Comments:

Sample Number: 108 Type: R Area: 5,000.00SqFt PCI = 25
Sample Comments:

43 BLOCK CRACKING	M	4,999.96 SqFt	Comments:
52 RAVELING	M	4,999.96 SqFt	Comments:

Re-inspection Report

FDOT
Report Generated Date: January 05, 2015

Network: OMN Name: ORMOND BEACH MUNICIPAL AIRPORT

Branch: TW D Name: TAXIWAY D Use: TAXIWAY Area: 88,184.00SqFt

Section: 405 of 2 From: - To: - Last Const.: 01/01/1984
Surface: AAC Family: DEFAULT Zone: Category: Rank: P
Area: 74,127.00SqFt Length: 2,160.00Ft Width: 45.00Ft
Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: 12/04/2014 Total Samples: 15 Surveyed: 5
Conditions: PCI : 43
Inspection Comments:

Sample Number: 101 Type: R Area: 4,500.00SqFt PCI = 52
Sample Comments:

43 BLOCK CRACKING	M	800.00	SqFt	Comments:
48 LONGITUDINAL/TRANSVERSE CRACKING	M	104.00	Ft	Comments:
48 LONGITUDINAL/TRANSVERSE CRACKING	L	68.00	Ft	Comments:
52 RAVELING	L	4,500.00	SqFt	Comments:

Sample Number: 103 Type: R Area: 4,500.00SqFt PCI = 45
Sample Comments:

43 BLOCK CRACKING	L	800.00	SqFt	Comments:
48 LONGITUDINAL/TRANSVERSE CRACKING	M	138.00	Ft	Comments:
48 LONGITUDINAL/TRANSVERSE CRACKING	M	300.00	Ft	Comments:
52 RAVELING	L	4,500.00	SqFt	Comments:
56 SWELLING	L	4.00	SqFt	Comments:
48 LONGITUDINAL/TRANSVERSE CRACKING	L	6.00	Ft	Comments:

Sample Number: 107 Type: R Area: 4,500.00SqFt PCI = 43
Sample Comments:

43 BLOCK CRACKING	M	800.00	SqFt	Comments:
50 PATCHING	M	23.00	SqFt	Comments:
48 LONGITUDINAL/TRANSVERSE CRACKING	M	43.00	Ft	Comments:
48 LONGITUDINAL/TRANSVERSE CRACKING	L	38.00	Ft	Comments:
48 LONGITUDINAL/TRANSVERSE CRACKING	M	278.00	Ft	Comments:
56 SWELLING	L	7.00	SqFt	Comments:
50 PATCHING	M	51.00	SqFt	Comments:
54 SHOVING	H	23.00	SqFt	Comments:

Sample Number: 109 Type: R Area: 4,500.00SqFt PCI = 34
Sample Comments:

43 BLOCK CRACKING	M	84.00	SqFt	Comments:
48 LONGITUDINAL/TRANSVERSE CRACKING	M	170.00	Ft	Comments:
48 LONGITUDINAL/TRANSVERSE CRACKING	L	24.00	Ft	Comments:
56 SWELLING	L	8.00	SqFt	Comments:
56 SWELLING	M	62.00	SqFt	Comments:
43 BLOCK CRACKING	M	1,350.00	SqFt	Comments:
43 BLOCK CRACKING	L	110.00	SqFt	Comments:
56 SWELLING	M	98.00	SqFt	Comments:
43 BLOCK CRACKING	M	98.00	SqFt	Comments:
48 LONGITUDINAL/TRANSVERSE CRACKING	L	20.00	Ft	Comments:
48 LONGITUDINAL/TRANSVERSE CRACKING	M	93.00	Ft	Comments:
52 RAVELING	L	4,500.00	SqFt	Comments:

Re-inspection Report

FDOT
Report Generated Date: January 05, 2015

Sample Number: 113 Type: R Area: 4,500.00SqFt PCI = 37
Sample Comments:

43	BLOCK CRACKING	M	700.00	SqFt	Comments:
48	LONGITUDINAL/TRANSVERSE CRACKING	M	116.00	Ft	Comments:
52	RAVELING	L	4,320.00	SqFt	Comments:
48	LONGITUDINAL/TRANSVERSE CRACKING	L	24.00	Ft	Comments:
50	PATCHING	M	180.00	SqFt	Comments:
56	SWELLING	L	52.00	SqFt	Comments:
48	LONGITUDINAL/TRANSVERSE CRACKING	M	288.00	Ft	Comments:

Re-inspection Report

FDOT
Report Generated Date: January 05, 2015

Network: OMN Name: ORMOND BEACH MUNICIPAL AIRPORT

Branch: TW D Name: TAXIWAY D Use: TAXIWAY Area: 88,184.00SqFt

Section: 410 of 2 From: - To: - Last Const.: 01/01/2013
Surface: AC Family: DEFAULT Zone: Category: Rank: P
Area: 14,057.00SqFt Length: 200.00Ft Width: 40.00Ft
Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: Total Samples: 0 Surveyed: 0
Conditions:

Sample Number: Type: Area: 0.00
<NO VALID INSPECTIONS>

Re-inspection Report

FDOT
Report Generated Date: January 05, 2015

Network: OMN Name: ORMOND BEACH MUNICIPAL AIRPORT

Branch: TW E Name: TAXIWAY E Use: TAXIWAY Area: 85,674.00SqFt

Section: 505 of 2 From: - To: - Last Const.: 01/01/1990
Surface: AAC Family: DEFAULT Zone: Category: Rank: P
Area: 56,507.00SqFt Length: 2,060.00Ft Width: 35.00Ft
Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: 12/04/2014 Total Samples: 16 Surveyed: 3
Conditions: PCI : 41
Inspection Comments:

Sample Number: 101 Type: R Area: 3,459.00SqFt PCI = 42
Sample Comments:

43 BLOCK CRACKING	M	3,459.00 SqFt	Comments:
52 RAVELING	L	3,459.00 SqFt	Comments:

Sample Number: 107 Type: R Area: 3,500.00SqFt PCI = 42
Sample Comments:

43 BLOCK CRACKING	M	3,500.00 SqFt	Comments:
52 RAVELING	L	3,500.00 SqFt	Comments:

Sample Number: 111 Type: R Area: 3,500.00SqFt PCI = 38
Sample Comments:

50 PATCHING	L	42.00 SqFt	Comments:
43 BLOCK CRACKING	M	3,458.00 SqFt	Comments:
52 RAVELING	L	3,458.00 SqFt	Comments:

Re-inspection Report

FDOT
Report Generated Date: January 05, 2015

Network: OMN Name: ORMOND BEACH MUNICIPAL AIRPORT

Branch: TW E Name: TAXIWAY E Use: TAXIWAY Area: 85,674.00SqFt

Section: 510 of 2 From: - To: - Last Const.: 01/01/2013
Surface: AC Family: DEFAULT Zone: Category: Rank: P
Area: 29,167.00SqFt Length: 800.00Ft Width: 35.00Ft
Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: Total Samples: 0 Surveyed: 0
Conditions:

Sample Number: Type: Area: 0.00
<NO VALID INSPECTIONS>

Re-inspection Report

FDOT
Report Generated Date: January 05, 2015

Network: OMN Name: ORMOND BEACH MUNICIPAL AIRPORT

Branch: TW F Name: TAXIWAY F Use: TAXIWAY Area: 47,967.00SqFt

Section: 605 of 2 From: - To: - Last Const.: 01/01/1984
Surface: AC Family: DEFAULT Zone: Category: Rank: P
Area: 41,694.00SqFt Length: 1,040.00Ft Width: 40.00Ft
Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: 12/04/2014 Total Samples: 10 Surveyed: 2
Conditions: PCI : 51
Inspection Comments:

Sample Number: 103 Type: R Area: 4,000.00SqFt PCI = 48
Sample Comments:

43 BLOCK CRACKING	L	3,000.00	SqFt	Comments:
48 LONGITUDINAL/TRANSVERSE CRACKING	L	25.00	Ft	Comments:
52 RAVELING	L	4,000.00	SqFt	Comments:
43 BLOCK CRACKING	L	250.00	SqFt	Comments:
56 SWELLING	L	62.00	SqFt	Comments:
48 LONGITUDINAL/TRANSVERSE CRACKING	M	25.00	Ft	Comments:

Sample Number: 108 Type: R Area: 4,000.00SqFt PCI = 55
Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING	M	100.00	Ft	Comments:
48 LONGITUDINAL/TRANSVERSE CRACKING	L	200.00	Ft	Comments:
48 LONGITUDINAL/TRANSVERSE CRACKING	L	180.00	Ft	Comments:
52 RAVELING	L	4,000.00	SqFt	Comments:
43 BLOCK CRACKING	L	80.00	SqFt	Comments:
56 SWELLING	L	15.00	SqFt	Comments:

Re-inspection Report

FDOT
Report Generated Date: January 05, 2015

Network: OMN Name: ORMOND BEACH MUNICIPAL AIRPORT

Branch: TW F Name: TAXIWAY F Use: TAXIWAY Area: 47,967.00SqFt

Section: 650 of 2 From: - To: - Last Const.: 01/01/1984
Surface: AC Family: DEFAULT Zone: Category: Rank: P
Area: 6,273.00SqFt Length: 130.00Ft Width: 40.00Ft
Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: 12/04/2014 Total Samples: 1 Surveyed: 1
Conditions: PCI : 48
Inspection Comments:

Sample Number: 100 Type: R Area: 6,273.00SqFt PCI = 48
Sample Comments:

50 PATCHING	L	1,248.00 SqFt	Comments:
48 LONGITUDINAL/TRANSVERSE CRACKING	M	212.00 Ft	Comments:
48 LONGITUDINAL/TRANSVERSE CRACKING	L	394.00 Ft	Comments:
56 SWELLING	L	94.00 SqFt	Comments:
56 SWELLING	M	27.00 SqFt	Comments:
52 RAVELING	L	5,025.00 SqFt	Comments:

Re-inspection Report

FDOT
Report Generated Date: January 05, 2015

Network: OMN Name: ORMOND BEACH MUNICIPAL AIRPORT

Branch: TW T-HANG Name: TAXIWAY TO T-HANGARS Use: TAXIWAY Area: 17,255.00SqFt

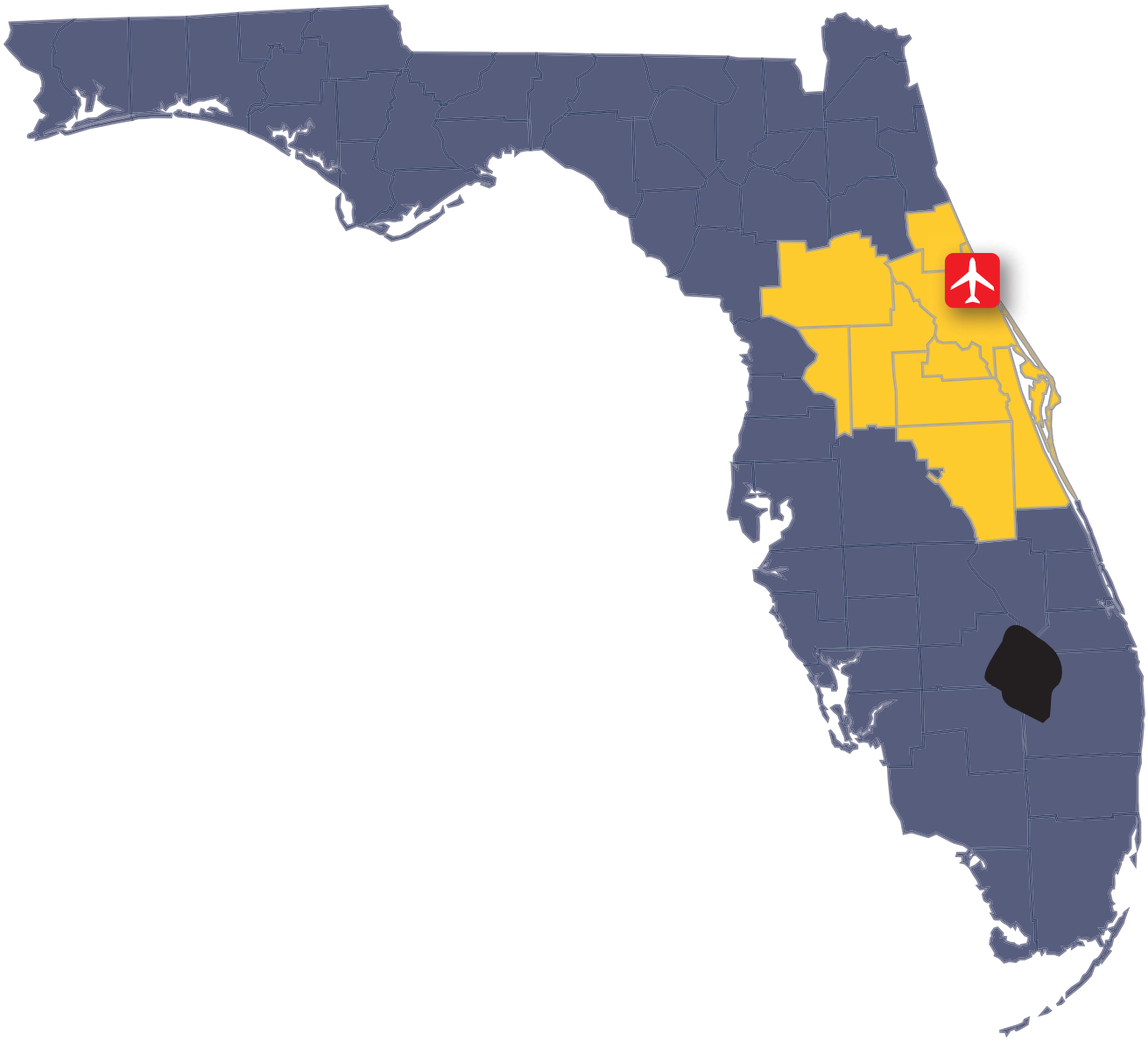
Section: 2004 of 1 From: - To: - Last Const.: 01/01/1992
Surface: PCC Family: DEFAULT Zone: Category: Rank: P
Area: 17,255.00SqFt Length: 640.00Ft Width: 22.00Ft
Slabs: 36 Slab Width: 24.00Ft Slab Length: 20.00Ft Joint Length: 628.67Ft
Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: 12/04/2014 Total Samples: 3 Surveyed: 1
Conditions: PCI : 31
Inspection Comments:

Sample Number: 602 Type: R Area: 13.00Slabs PCI = 31
Sample Comments:

65 JOINT SEAL DAMAGE	L	13.00 Slabs	Comments:	
72 SHATTERED SLAB	L	12.00 Slabs	Comments:	
72 SHATTERED SLAB	M	1.00 Slabs	Comments:	



FLORIDA DEPARTMENT OF TRANSPORTATION

AVIATION AND SPACEPORT OFFICE

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