

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION AVIATION OFFICE

Statewide Airfield Pavement Management Program

Crystal River Airport –CGC (General Aviation)
Crystal River, Florida
(District 7)



TABLE OF CONTENTS

SEC	CTION PAGE N	<u> 10.</u>
Exec	cutive Summary	iii
1.	Introduction	
2.	Network Definition and Pavement Inventory	10
3.	Pavement Condition	14
4.	Pavement Condition Prediction	19
5.	Maintenance Policies and costs	
6.	Pavement Rehabilitation Needs Analysis	26
7.	Maintenance and Rehabilitation Plan	
8.	Visual Aids	
9.	Recommendations	34
LIS	T OF FIGURES	
Figu	re 1-1: Pavement Life Cycle	4
Figu	re 1-2: PCI Rating Scale	6
	re 2-1: Pavement Area by Surface Type	
Figu	re 3-1: Network PCI Distribution by Rating Category	16
	re 3-1a: Condition Rating Summary	
	re 3-2: Percentage of Pavement Area within Each PCI Range by Pavement Use	
	re 4-1: Predicted PCI by Pavement Use	
Figu	re 6-1: Budget Scenario Analysis	30
LIST	T OF TABLES	
Tabl	e I: Condition Summary by Branch	iii
Tabl	e II: Condition Summary by Pavement Use	iv
Tabl	e III: Condition Summary by Pavement Rank	iv
	e IV: Immediate Major M&R Needs	
Tabl	e V: 10-Year M&R Costs under Unlimited Funding Scenario	V
Tabl	le 1-1: Sampling Rate for FDOT Condition Surveys	5
	le 2-1: Construction Since Last Inspection & Anticipated Construction Activity	
	le 2-2: Pavement Area by Pavement Use	
	le 2-3: Branch and Section Inventory	
	le 3-1: Pavement Distresses for Asphalt Concrete Surfaces	
	le 3-2: Condition by Pavement Use	
	e 5-1: Routine Maintenance Activities for Airfield Pavements	
Tabl	e 5-2: Critical PCI for General Aviation Airports	22
Tabl	le 5-3: Desired Minimum PCI for General Aviation Airports	22
	le 5-4: M&R Activities for General Aviation Airports	
	le 5-5: Maintenance Unit Costs for FDOT	
	e 5-6: M&R Activities and Unit Costs by Condition for General Aviation Airports	
	le 6-1: Summary of Immediate Major M&R Needs Option No. 1	
	e 6-2: Summary of Immediate Major M&R Needs Option No. 2	

i

TABLE OF CONTENTS

SECTION	PAGE NO.
	&R Costs under Unlimited Funding Scenario
APPENDIC	E S
Appendix A	Network Definition Map
	System Inventory Map
	Pavement Inventory Table
	Work History Report
Appendix B	2011 Condition Map
	Pavement Condition Index Table
Appendix C	Branch Condition Report
	Section Condition Report
Appendix D	Pavement Condition Prediction Table
	Predicted PCI by Pavement Use Graph
Appendix E	Year 1 Maintenance Activities Table
Appendix F	Major M&R Plan by Year under Unlimited Funding Scenario Table
Appendix G	10-Year M&R Map
Appendix H	Photographs
Appendix I	PCI Re-inspection Report

EXECUTIVE SUMMARY

In 2010, the Florida Department of Transportation (FDOT) Aviation Office selected a Consultant team consisting of Kimley-Horn and Associates and their Subconsultants, MACTEC Engineering and Consulting and All About Pavements, Inc., to provide services in support of FDOT in the continuing evaluation and updating of the existing Statewide Airfield Pavement Management Program (SAPMP) to be completed over fiscal years 2011 and 2012.

The tasks required to achieve this objective at Crystal River Airport included:

- ➤ Obtain recent construction history from the Airport to update the Pavement Inventory CADD drawings from the previous SAPMP update,
- ➤ Perform a visual Pavement Condition Index (PCI) survey of the airfield pavements at the Airport,
- ➤ Update the MicroPAVER database to analyze the PCI field data and determine the current condition of the airfield pavements,
- > Predict the future deterioration of the pavements,
- > Develop a 10-year M&R plan to address the pavement needs at Crystal River Airport, and
- ➤ Provide the estimated costs associated with the suggested immediate and future M&R activities

During March 2011, the PCI survey was performed at Crystal River Airport. The results of the survey indicate that, based on a numerical scale of 0 to 100, the overall area-weighted average PCI of the airfield pavements in 2011 is 75, representing a Satisfactory overall network condition.

Table I below summarizes the overall condition summary by network branch.

Table I: Condition Summary by Branch

Branch Name	Area Weighted PCI	Condition Rating	FDOT Minimum Service Level	MicroPAVER Minimum PCI	Action Required
Main Apron	62	Fair	60	65	X
T-Hangars Apron	54	Poor	60	65	X
Runway 9-27	76	Satisfactory	75	65	
Connector Taxiway to AP	63	Fair	65	65	X
Parallel Taxiway to RW 9-27	94	Good	65	65	

Tables II and III below illustrate the area-weighted PCI computed individually for each pavement use and rank, respectively.

Table II: Condition Summary by Pavement Use

Use	Average Area-Weighted PCI	Condition Rating
Runway	76	Satisfactory
Taxiway	89	Good
Apron	59	Fair
All (Weighted)	75	Satisfactory

Table III: Condition Summary by Pavement Rank

Rank*	Average Area-Weighted PCI	Condition Rating
Primary	74	Satisfactory
Tertiary	79	Satisfactory
All (Weighted)	75	Satisfactory

^{*}The pavement rank for the airport pavement network is listed on Table 2-3.

The immediate M&R needs, or needs that have been programmed to be completed in the first year of the 10-year M&R plan based on an unlimited budget at Crystal River Airport, include: Main Apron, T-Hangars Apron, Connector Taxiway to AP, and Parallel Taxiway to RW 9-27. Asphalt pavement conditions in these areas justify either mill and overlay rehabilitation activity or full pavement reconstruction. The immediate needs are summarized in Table IV below.

Table IV: Immediate Major M&R Needs

Branch Name	Section ID	Surface Type	Section Area (ft²)	Major M&R Costs*	PCI Before M&R	M&R Activity	PCI After M&R
Main Apron	4105	AAC	70,275	\$341,185.23	55	Mill and Overlay	100
Main Apron	4110	AC	20,051	\$126,120.80	47	Mill and Overlay	100
Main Apron	4115	AC	33,130	\$77,126.69	64	Mill and Overlay	100
T-Hangars Apron	4205	AC	79,853	\$410,604.23	54	Mill and Overlay	100
Connector Taxiway to AP	210	AC	21,510	\$98,257.72	56	Mill and Overlay	100
Parallel Taxiway to RW 9-27	118	AC	4,193	\$35,594.39	37	Reconstruction	100
	-	-	Total	\$1,088,889.06	52		100

^{*} Costs are adjusted for inflation

A forecast of Major M&R needs for a 10-year period, starting from 2011, was developed using an unlimited budget. The analysis identified ongoing maintenance needs and major M&R during that interval. The results of this analysis are provided in Table V below.

Table V: 10-Year M&R Costs under Unlimited Funding Scenario

Year	Preventative	Major M&R	Total Year Cost
2011	\$35,820.55	\$1,088,889.05	\$1,124,709.60
2012	\$72,149.48	\$0.00	\$72,149.48
2013	\$71,757.92	\$75,461.56	\$147,219.48
2014	\$83,146.99	\$0.00	\$83,146.99
2015	\$90,772.91	\$0.00	\$90,772.91
2016	\$105,831.77	\$0.00	\$105,831.77
2017	\$119,678.93	\$0.00	\$119,678.93
2018	\$108,110.12	\$311,128.59	\$419,238.71
2019	\$120,049.07	\$27,140.04	\$147,189.11
2020	\$43,261.82	\$944,372.95	\$987,634.77
Total	\$850,579.56	\$2,446,992.19	\$3,297,571.75

Note: Costs are adjusted for inflation.

The implementation of the 10-Year Major M&R Plan is expected to provide an improvement in the overall condition of the airfield pavement, where the area-weighted PCI would increase from 75 in 2011 to 90 in 2020. Appendix F lists the Major M&R for the 10-Year program. Appendix G graphically depicts the program activity.

It is important to note that although preventative and some major M&R activities would have to be conducted over several years, the area-weighted PCI value for all Crystal River Airport pavements in 2020 may remain near 78. The airport manager should realize that what is most important is that the pavement repair work (preventative and major M&R) that has been identified for Crystal River Airport is conducted at some point in the 10-year plan.

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. There are millions of square yards of pavement for the runways, taxiways, aprons and other areas of these airports that support aircraft operations. The timely and proper maintenance and rehabilitation (M&R) of these pavements allows the airports to operate efficiently, economically and without excessive down time.

In order to support the planning, scheduling, and design of the M&R activities based on pavement evaluation and pavement management performance trends, the Florida Department of Transportation (FDOT) Aviation Office implemented the Statewide Airfield Pavement Management Program (SAPMP) in 1992.

In 2010, the FDOT Aviation Office selected a Consultant team consisting of Kimley-Horn and Associates and their Subconsultants, MACTEC Engineering and Consulting and All About Pavements, Inc., to provide services in support of FDOT in the continuing evaluation and updating of the existing SAPMP to be completed over fiscal years 2011 and 2012.

This report discusses the work performed, a summary of the findings, results, and recommendations for M&R planning associated with the update to the SAPMP. It also describes the procedures used to ensure that the appropriate engineering and scientific standards of care, quality, budget, and schedule requirements are implemented during the performance of the SAPMP.

1.1 Purpose

This Florida Airport Pavement Evaluation Report is intended to:

- Describe, briefly, the SAPMP and the roles and responsibilities of the program's participants;
- Provide background information on pavement management principles, objectives, and benefits to this airport;
- Outline the procedures used to collect, evaluate and report pavement inspection results at this airport;
- Present the findings from the pavement inspection;
- Analyze and discuss the needs for Maintenance and Rehabilitation (M&R) activities and associated costs for this airport.

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 State system, identify maintenance needs at individual airports, automate information management, and establish standards to address future needs. The 1992 SAPMP provided valuable information for establishing and performing pavement M&R.

In 1992/1993, and 1998/1999, the FDOT Aviation Office participated in the development of a proprietary software pavement management system and developed and populated a pavement management database that provided valuable information for establishing M&R policies, estimating M&R costs, and developing recommendations for performing routine pavement maintenance. This system, AIRPAV, was implemented, and initial condition surveys were

performed in 1992 and 1993. The SAPMP was updated with additional surveys in 1998 and 1999.

In 2004, the FDOT Aviation Office undertook a project to update the pavement management system software utilized for the SAPMP. This project involved a review of the AIRPAV software and other available pavement management system software. As a result of this review, MicroPAVER was selected as the software for the update project. Data from the 1998/1999 condition surveys were converted to the MicroPAVER system, and the inventory of the pavement systems and drawings of the pavements were updated to reflect maintenance, rehabilitation, and construction activities since 1998/1999. The pavements were inspected between 2006 and 2008, and an updated M&R program was developed based on the new condition of the airfield pavements. As part of the update, procedures for the inspection and collection of pavement data were developed, and a website (www.floridaairportpavement.com) was created for the input of data under secure procedures.

Currently, airports using the AIP Grant Program are required by the Federal Aviation Administration (FAA) to develop a pavement maintenance program (FAA/AC 150/5380-6B "Guidelines and Procedures for Maintenance of Airport Pavements") using trained personnel to perform a detailed inspection of airfield pavements. The inspections are required to be performed at least once a year or every 3 years if pavement inspection is characterized in the form of a Pavement Condition Index (PCI) survey (such as ASTM D 5340 "Standard Test Method for Airport Pavement Condition Index Surveys", (2004 edition)). The 2004 edition was utilized in lieu of the 2010 edition to maintain database integrity and benefit of pavement performance curves from the previous inspections.

In 2010, the FDOT Aviation Office selected a team consisting of the Consultant and their Subconsultants to provided services in support of FDOT in the continuing evaluation and updating of the existing SAPMP to be completed over fiscal years 2011 and 2012.

1.3 Organization

1.3.1 Aviation Office Program Manager Role

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

1.3.2 Consultant Role

The Consultant (Kimley-Horn and Associates, Inc.) and their Subconsultants (MACTEC Engineering and Consulting and All About Pavements, Inc.) provide technical and administrative assistance to the AO-PM during the execution of this program, which involves the continuing evaluation of airport pavements and updating of the SAPMP based upon procedures outlined in FAA Advisory Circular 150/5380-6B "Guidelines and Procedures for Maintenance of Airport Pavements" and ASTM D 5340 "Standard Test Method for Airport Pavement Condition Index Surveys" (2004).

1.3.3 Airport Role

The airports are the ultimate client for each of the field inspections and reports. Individual airports will be provided final deliverables prepared by the Consultant that have been reviewed and approved by the AO-PM. The airport should provide a current Airport Layout Plan (ALP) to the Consultant and, if they participated in the previous SAPMP update, indicate any construction activity that has been performed since the previous inspections.

1.4 Pavement Types and Pavement Management

1.4.1 Pavement basics

A pavement is a prepared surface designed to provide a continuous smooth ride at a certain speed and to support an estimated amount of traffic for a certain number of years. Pavements are constructed of a combination of subgrade soils, subbases, bases and surfacing. There are mainly two types of pavements;

- Flexible pavement, composed of an asphalt concrete (AC) surface, and
- Rigid pavement composed of a Portland Cement Concrete (PCC) surface.

Both pavement types use a combination of layered materials and thicknesses in order to support the traffic loads and protect the underlying natural subgrade soil. Flexible pavements (AC) dissipate the load from layer to layer until the load magnitude is small enough to be supported by the subgrade soil. In rigid pavements (PCC), the Portland Cement Concrete supports most of the load, and the base or subbase layer is mainly constructed to provide a smooth and continuous platform for the construction of the concrete surface.

A small percentage of the airport pavements in Florida are composed of asphalt concrete surface over Portland Cement Concrete (APC). This pavement type is known as "composite" pavement.

Due to the different nature of the pavement types and their materials, flexible and rigid pavements have different distresses and failure mechanisms. Understanding the mechanics and failure modes of both pavement types will assist engineers in making adequate and long lasting repairs or rehabilitation to the pavement structures.

1.4.2 Pavement Management System Concept

The SAPMP utilized a Pavement Management System (PMS) to develop the M&R recommendations discussed in this report. A PMS is a tool to assist engineers, planners and managing agencies in making decisions when planning pavement M&R. The management of pavements involves scheduling pavement maintenance and rehabilitation before pavements deteriorate to a condition where reconstruction (the most expensive alternative) is the only solution. Figure 1-1 below, taken from FAA/AC 5380-7A "Airport Pavement Management Program", illustrates how a pavement generally deteriorates and the relative cost of rehabilitation at various times throughout its life. Note that during the first 75 percent 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" condition depends on how well it is maintained. As the illustration demonstrates, the cost of maintaining the pavement above a critical condition before rapid deterioration occurs is much less compared to maintaining pavements after substantial deterioration has occurred.

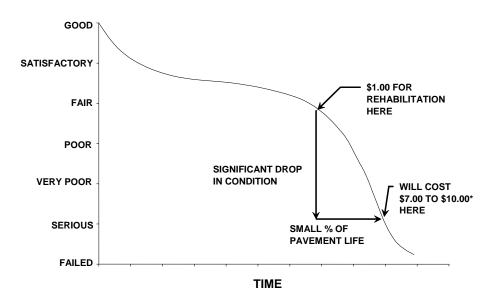


Figure 1-1: Pavement Life Cycle

Source: FAA/AC 150/5380-7A "Airport Pavement Management Program" *Modified to reflect current construction costs.

Pavements deteriorate at an accelerated rate with increasing traffic and limited M&R resources. Planned maintenance and rehabilitation, essentially preventing pavements from reaching deteriorated conditions, helps managers/owners/agencies maximize the use of their budgets and prolong the life of the pavements. A PMS provides a tool to schedule and plan maintenance and rehabilitation based on engineering information and existing and predicted conditions of pavements.

There are several components or elements that are essential to a PMS. The first steps in the implementation of a PMS are to know and clearly identify what needs to be managed, the limits of the managing agency's responsibilities and the condition of the existing pavements. Once the cause and the extent of pavement problems are known, the appropriate maintenance and/or rehabilitation can be planned. By using local unit costs and expected yearly budgets, a multi-year M&R plan can be determined.

1.4.3 Pavement Inspection Methodology for the SAPMP

Pavement condition assessment is one of the primary decision variables in any airport PMS. Pavement condition assessments generally include visual surveys in accordance with ASTM D 5340, "Standard Test Method for Airport Pavement Condition Index Surveys" and structural evaluation. Pavement condition surveys assess the functional condition of the pavement surface. Typically, most problems within a pavement structure will eventually reflect to the pavement surface. The structural condition and relative support of the pavement layers can be assessed utilizing non-destructive deflection testing (NDT) as well as other in-depth engineering evaluation or sampling and testing methods.

For the Statewide Aviation Pavement Management Program update, only visual surveys were performed. Further structural and geotechnical testing should be conducted to determine the appropriate rehabilitation methods during the design process.

In preparation of the PCI surveys, the airfield pavements are divided into sample units as established in FAA AC 150/5380-6B and ASTM D 5340. Further discussion of how the airport pavements are divided and subdivided into units by construction and use can be found in Section 2 "Network Definition and Pavement Inventory" of this report.

Sample unit sizes are approximately 5000 ± 2000 square feet for AC-surfaced pavements and 20 ± 8 slabs for PCC-surfaced pavements. Prior to conducting the field inspections, the sampling plan was developed based on previous sampling and modified based on the available knowledge of Branches, Sections, use patterns, construction types and history. The sampling rate used for the FDOT Statewide Airfield Pavement Management Program is provided in Table 1-1 below.

Table 1-1: Sampling Rate for FDOT Condition Surveys

	AC Pavemen	ts		PCC Paveme	ents		
NT	n		NT	n			
N	Runway	Others	N	Runway	Others		
1-4	1	1	1-3	1	1		
5-10	2	1	4-6	2	1		
11-15	3	2	7-10	3	2		
16-30	5	3	11-15	4	2		
31-40	7	4	16-20	5	3		
41-50	8	5	21-30	7	3		
<u>≥</u> 51	20% but <u><</u> 20	10% but ≤10	31-40	8	4		
			41-50	10	5		
			<u>≥</u> 51	20% but <u><</u> 20	10% but <u><</u> 10		

Where

N = total number of sample units in Section

n = number of sample units to inspect

The sample units to inspect are determined by a systematic random sampling technique. This means that the locations are determined such that they are distributed evenly throughout the Section. In the case when nonrepresentive distresses are observed in the field, additional sample units were added.

The distress quantities and severity levels from the sample units are used to compute the PCI value for each Section. PCI values range from 0 to 100. As Figure 1-2 below indicates, MicroPAVER provides a rating scale that relates PCI to pavement condition. A PCI between 0 and 10 is considered 'Failed' pavement, and a PCI between 86 and 100 is considered 'Good' pavement, with five other conditions for PCI values between 11 and 85.

Figure 1-2: PCI Rating Scale

PCI	Condition Rating
86 – 100	Good
71 – 85	Satisfactory
56 – 70	Fair
41 – 55	Poor
26 – 40	Very Poor
11 – 25	Serious
0 – 10	Failed

1.5 Definitions

<u>Aviation Office</u> - The Aviation Office is charged with responsibility for promoting the safe development of aviation to serve the people of the State of Florida. The Aviation Office Program Manager (AO-PM) has review and approval authority for each program task of the SAPMP.

<u>Base Course</u> - Base Course is a layer of manufactured material, usually crushed rock (aggregate) or stabilized material (asphalt or concrete or Florida Limerock), immediately beneath the surface course of a pavement, which provides support to the surface course.

<u>Branch</u> - A Branch designates pavements that have common usage and functionality, such as an entire runway, taxiway, or apron.

<u>Branch ID</u> - A short form identification for the pavement Branch. In this report, Branch includes the common designation for the item e.g. RW 18-36.

<u>Category</u> - The Category classifies the airport according to the type and volume of aircraft traffic, as follows:

- GA for general aviation or community airports;
- RL for regional relievers or small hubs;
- PR for primary (certified under Part 139 requirements).

<u>Critical PCI</u> - The PCI value considered to be the threshold for M&R decisions. PCI above the Critical generate economical activities expected to preserve and prolong acceptable condition. M&R for PCI values less than Critical make sense only for reasons of safety or to maintain a pavement in operable condition. A pavement section is expected to deteriorate very quickly once it reaches the Critical PCI and the unit cost of repair increases significantly.

<u>Distress Type</u> - A distress type is a defined visible defect in pavement evidenced by cracking, vertical displacement or deterioration of material. In PCI technology, 16 distinct distress types for asphalt surfaced and 15 for Portland Cement Concrete surfaced pavements have been described and rated according to the impact their presence has on pavement condition.

<u>Florida DOT (FDOT)</u> - Florida Department of Transportation was represented in this project by the Office of Aviation.

<u>Global M&R</u> - Global M&R is defined as activities applied to entire pavement Sections with the primary objective of slowing the rate of deterioration. These activities are primary for asphalt surfaced pavements, e.g. surface treatments.

<u>Localized M&R (Maintenance and Repair)</u> - Localized M&R is a temporizing activity performed on existing pavement to extend its serviceability and/or to improve rideability. Localized M&R can be applied either as a safety (stop-gap) measure or preventive measure. Common localized maintenance methods include crack sealing, joint sealing, and patching.

<u>Major M&R (e.g. Rehabilitation)</u> - Activities performed over the entire area of a pavement Section that are intended to restore and/or maintain serviceability. This includes asphalt overlays, milling and replacing asphalt pavement, reconstruction with asphalt, reconstruction with Portland Cement Concrete (PCC) pavements, and PCC overlays.

<u>MicroPAVER</u> - A commercially available software subsidized by FAA and agencies in the US Department of Defense developed to support engineered management of pavement assets using a condition based approach. This software has the functionality such that, if properly implemented, maintained, and operated, it meets the pavement management program requirements described by the FAA in Advisory Circular 150/5380-7A.

<u>Minimum Condition Level</u> - A threshold PCI value established by FDOT to represent the targeted minimum pavement condition that is desirable in the Florida Airport System. These values were established with consideration of pavement function and airport type. For instance, runways have higher minimum condition levels than aprons, and Primary airports have higher minimum condition levels than General Aviation airports.

<u>Network Definition</u> - A Network Definition is a Computer-Aided Drafting & Design (CADD) drawing which shows the airport pavement outline with Branch and Section boundaries. This drawing also includes the PCI sample units and is used to identify those sample units to be surveyed, i.e. the sampling plan. The Network Definition for the airport is in Appendix A along with a table of inventory data.

<u>Pavement Condition Index (PCI)</u> - The Pavement Condition Index is a number which represents the condition of a pavement segment at a specific point in time. It is based on visual identification and measurement of specific distress types commonly found in pavement which has been in service for a period of time. The definitions and procedures for determining the PCI are found in ASTM D 5340, published by ASTM International.

<u>Pavement Evaluation</u> - A systematic approach undertaken by trained and experienced personnel intended for determination of the condition, serviceability, and best corrective action for pavement. Techniques to standardize pavement evaluation include the Pavement Condition Index procedures.

<u>Pavement Management System (PMS)</u> - A Pavement Management System is a broad function that uses pavement evaluation and pavement performance trends as a basis for planning, programming, financing, and maintaining a pavement system.

Pavement Surface Type - The surface of pavement is identified as one of four types:

- AC for asphalt surface pavements;
- PCC for Portland Cement Concrete pavements;
- AAC for asphalt surface pavements that have had an asphalt overlay at some point in their construction history;
- APC for composite pavements, which consist of asphalt over Portland Cement Concrete pavement.
- PAC for composite pavements, which consist of Portland Cement Concrete over asphalt pavement.

<u>Rank</u> - Pavement rank in MicroPAVER determines the priority to be assigned to a pavement Section when developing an M&R plan. Pavement Sections are ranked as follows according to their use:

- P for Primary pavements, such as primary runways, primary taxiways, and primary aprons;
- S or Secondary pavements, such as secondary runways, secondary taxiways, and secondary aprons;
- T for Tertiary pavements such as "T" hangars and slightly used aprons.

<u>Reconstruction</u> - Reconstruction includes removal of existing pavement, preparation of subgrade, and construction of new pavement with new or recycled materials. Reconstruction is indicated when distress types evident at the surface indicate failure in the pavement structure or subgrade of a type, and to an extent, not correctable by less extensive construction.

<u>Rehabilitation</u> - Rehabilitation represents construction using existing pavement for a foundation. Rehabilitation most commonly consists of an overlay of existing pavement with a new asphalt or concrete surface. Recently, technology has expanded the options to include recycling of existing pavement and incorporating engineering fabrics or thin layers of elasticized materials to retard reflection of distress types through the new surface.

<u>Sample Unit</u> - Uniformly sized portions of a Section as defined in ASTM D 5340. Sample units are a means to reduce the total amount of pavement actually surveyed using statistics to select and survey enough area to provide a representative measure of Section PCI. Sample Unit sizes are $5,000 \pm 2,000$ square feet for AC-surfaced pavements and 20 ± 8 slabs for PCC-surfaced pavements.

<u>Section</u> - Sections subdivide Branches into portions of similar pavement. Sections are prescribed by pavement structure, age, condition, and use. Sections are identified on the airport Network Definition. They are the smallest unit used for determining M&R requirements based on condition.

<u>Section ID</u> - A short form identification for the pavement Section that maintains the original AirPAV identification where 100 series through 3000 series Sections are taxiways, 4000 and 5000 series Sections are aprons (the 5000 series represent run-up aprons and turnarounds), and 6000 series Sections are runways.

<u>Statewide Airfield Pavement Management Program (SAPMP)</u> – The Statewide Airfield Pavement Management Program is a program implemented in 1992 by the Florida Department of Transportation to plan, schedule, and design the maintenance and rehabilitation activities

necessary for the airfield pavement on Florida's public airports to allow the airports to operate efficiently, economically, and without excessive down time.

<u>System Inventory</u> - A System Inventory is a Computer-Aided Drafting & Design (CADD) drawing which shows the airport pavement outline and identifies airfield construction activities since the last inspection. The System Inventory for the airport is included in Appendix A.

<u>Use</u> - In MicroPAVER, Use is the term for the function of the pavement area. This is either Runway, Taxiway, or Apron for purposes of the FDOT Statewide Aviation Pavement Management System.

2. NETWORK DEFINITION AND PAVEMENT INVENTORY

Crystal River Airport (CGC) is located in Citrus County, Florida. The Board County of Commissioners owns and controls the airport administratively through the Director of Public Works and operationally through a contracted Fixed Base Operations (FBO) manager. The airport focuses primarily on serving general aviation aircraft and has one runway: Runway 09-27. Runway 09-27 has a full parallel taxiway.

Based on field measurements, it is important to note that the runway data and other pavement facilities geometric dimensions may vary slightly from the geometry used in the condition and M&R analysis.

Crystal River Airport is designated as a General Aviation (GA) airport and is located in District 7 of the Florida Department of Transportation.

2.1 Network Definition

The pavements within the network are defined in MicroPAVER in terms of manageable units that help to organize the data into similar groups. An organizational hierarchy is used to establish these units.

2.1.1 Branch Section Identification

The airport pavement network is subdivided into separate Branches (runways, taxiways, or aprons) that have distinctly different uses. Branches are then further divided into Sections with similar pavement construction and performance that may share other common attributes.

Sections are manageable units used to organize the data collection and are treated individually during the rehabilitation planning stage. A pavement rank, consisting of primary, secondary, and tertiary levels, is assigned to each Section based on their level and type of use. The pavement rankings that were designated for each Section in the previous SAPMP update were again used for this update.

As discussed in Section 1.4.3 "Pavement Inspection Methodology for the SAPMP", the sections are sub-divided into sample units, which are the smallest subdivision in a pavement network, only for the purpose of conducting the pavement condition survey.

2.1.2 System Inventory and Network Definition Update

The System Inventory and Network Definition drawings are used to identify changes in the network since the most recent update from the 2006/2008 inspections and also to plan the field inspection activities for the 2011 survey. Prior to the field inspection process, the System Inventory drawing was updated from the previous inspection with notes indicating recent construction projects on the various Sections of pavement throughout the airfield. This System Inventory drawing is used to update the Network Definition drawing.

The Network Definition drawing shows the airport pavement outline with Branch and Section boundaries. This drawing also includes the PCI sample units and is used to identify those sample units to be surveyed, i.e. the sampling plan. The previous airport configuration and history was compared with the current airport configuration, and the existing network branch, section and

sample unit designations were revised to match the current configuration. This drawing serves not only as a primary guide for the airfield inspectors but also as an important historical record.

The updated System Inventory and Network Definition drawings for Crystal River Airport are provided in Appendix A. Table 2-1 below lists the recent construction projects at the airport.

Table 2-1: Construction Since Last Inspection & Anticipated Construction Activity

Construction Year	Location	Work Type / Pavement Section
2009	Parallel Taxiway to Runway 9-27	New Construction

2.2 Pavement Inventory

The detailed pavement inventory was updated to reflect the network definition update and field inspection results.

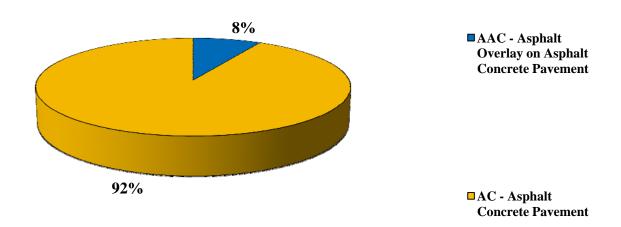
The total airfield pavement area in 2011 at Crystal River Airport is 850,659 square feet. The breakdown of pavement area for each pavement use is provided in Table 2-2.

Table 2-2: Pavement Area by Pavement Use

Use	Area (ft²)	% of Total Area
Runway	342,169	40%
Taxiway	256,252	30%
Apron	252,238	30%
All	850,659	100%

Figure 2-1 presents the breakdown of the pavement area at Crystal River Airport by surface type.

Figure 2-1: Pavement Area by Surface Type



Details of pavement Branch and Section information including Branch name (which indicates pavement use), Branch ID, Section ID, section area, rank, surface type, last construction date, number of samples inspected, and number of samples in each Section are given in Table 2-3 below. A more detailed Pavement Inventory Table may be found in Appendix A of this report.

Table 2-3: Branch and Section Inventory

Branch Name	Branch ID	Section ID	True Area (ft²)	Section Rank	Surface Type	Last Const. Date	Total Samples Inspected	Total Samples
Main Apron	AP MAIN	4105	70,275	P	AAC	1/1/1998	2	11
Main Apron	AP MAIN	4110	20,051	P	AC	1/1/1998	1	3
Main Apron	AP MAIN	4115	33,130	P	AC	1/1/1998	1	5
Main Apron	AP MAIN	4120	48,929	P	AC	1/1/2005	2	6
T-Hangars Apron	AP T-HANG	4205	79,853	Т	AC	1/1/1998	3	28
Runway 9-27	RW 9-27	6105	225,605	P	AC	1/1/2001	12	60
Runway 9-27	RW 9-27	6110	97,261	P	AC	1/1/2001	5	26
Runway 9-27	RW 9-27	6115	9,390	P	AC	1/1/2001	1	3
Runway 9-27	RW 9-27	6120	9,913	P	AC	1/1/2001	1	3
Connector Taxiway to AP	TW CONN	205	30,554	P	AC	1/1/1965	2	7
Connector Taxiway to AP	TW CONN	210	21,510	P	AC	1/1/1997	2	5
Parallel Taxiway to RW 9-27	TW PARALL	105	101,370	Т	AC	1/1/2009	3	19
Parallel Taxiway to RW 9-27	TW PARALL	107	55,857	P	AC	1/1/2009	2	11
Parallel Taxiway to RW 9-27	TW PARALL	109	12,400	P	AC	1/1/2001	1	3
Parallel Taxiway to RW 9-27	TW PARALL	115	5,353	P	AC	1/1/1965	1	1
Parallel Taxiway to RW 9-27	TW PARALL	116	4,194	T	AC	1/1/2009	1	1
Parallel Taxiway to RW 9-27	TW PARALL	118	4,193	P	AC	1/1/2001	1	1
Parallel Taxiway to RW 9-27	TW PARALL	119	5,353	P	AC	1/1/2009	1	1
Parallel Taxiway to RW 9-27	TW PARALL	130	9,203	P	AC	1/1/2001	0	1
Parallel Taxiway to RW 9-27	TW PARALL	131	6,265	P	AC	1/1/2009	1	2

Note: If a new construction, then survey date = last construction date and PCI is set to 100 by MicroPAVER. Sections not surveyed due to reasons such as re-sectioning, no escort, not accessible at the time of survey.

3. PAVEMENT CONDITION

Pavement conditions were inspected in accordance with the methods outlined in FAA AC 150/5380-6B and ASTM D 5340-04 "Standard Practice for Airport Pavement Condition Index Surveys." These procedures define distress type, severity and quantity for sampling areas within each section to determine the Pavement Condition Index (PCI).

3.1 Inspection Methodology

A PCI survey is performed by measuring the amount and severity of pavement distresses, which are caused by traffic load, climate, and other factors, observed within a sample unit. This data is imported into MicroPAVER, which calculates PCI values for the pavement sections. Tables 3-1 and 3-2 below list the pavement distress types and related causes for asphalt concrete (AC) and Portland Cement Concrete (PCC), respectively.

Table 3-1: Pavement Distresses for Asphalt Concrete Surfaces

Code	Distress	Mechanism			
41	Alligator Cracking	Load			
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	Load			
52	Weathering/Raveling	Climate / Load			
53	Rutting	Load			
54	Shoving	Pavement Growth			
55	Slippage Cracking	Load / Pavement Bond			
56	Swelling	Climate / Subgrade Quality			
Source: U.S	. Army CERL, FDOT Airfield Inspecti	on Reference Manual			

Prior to conducting the inspections, Global Positioning System (GPS) coordinates were recorded using CADD at the centroid of each sample unit. The centroid is usually the geometric center of the area, but in cases where sample units are irregular in shape, this is the center of mass. These data are presented in a table on the updated Network Definition Map in Appendix A of this report.

Pavement condition inspections at Crystal River Airport were performed in March 2011. Data were recorded in the field in accordance with FAA Advisory Circular 150/5380-6B "Guidelines and Procedures for Maintenance of Airport Pavements" and ASTM D 5340 "Standard Test Method for Airport Pavement Condition Index Surveys" (2004).

After the completion of data collection, the data was imported into MicroPAVER, and PCI values were calculated for the pavement sections.

3.2 Pavement Condition Index Results

According to the 2011 survey, the overall area-weighted PCI at Crystal River Airport is 75, representing a Satisfactory overall network condition.

The asphalt concrete pavement of runway 9-27 exhibited low to medium severity weathering and raveling, and low severity longitudinal and transversal cracking, in addition to low severity distresses such as: swelling, and patching.

Connector Taxiway to AP exhibited low to high severity weathering and raveling, and medium severity patching. Low severity depression, swelling, and longitudinal and transversal cracking distresses were also observed. Parallel Taxiway to RW 9-27 was in good condition with small areas exhibiting low severity weathering and raveling. Additional low severity distresses such as longitudinal and transversal cracking, patching and swelling were observed.

Asphalt pavement in both aprons exhibited low to high severity weathering and raveling, low severity longitudinal and transversal cracking, low severity patching and oil spillages.

Appendix B contains a table and a Condition Map which depicts the PCI results by Section, and Appendix C contains a table of PCI results by Branch. Appendix I includes detailed distress data generated by MicroPAVER for each inspected sample unit.

Figure 3-1 provides the PCI distribution by rating category for Crystal River Airport.

Good 24%

Fair 10%

Satisfactory 46%

Figure 3-1: Network PCI Distribution by Rating Category

Figure 3-1a: Condition Rating Summary

Condition Rating	Total Area (ft²)	Percent		
Good	199,995	24%		
Satisfactory	391,098	46%		
Fair	85,194	10%		
Poor	170,179	20%		
Very Poor	4,193	0%		
Serious	0	0%		
Failed	0	0%		

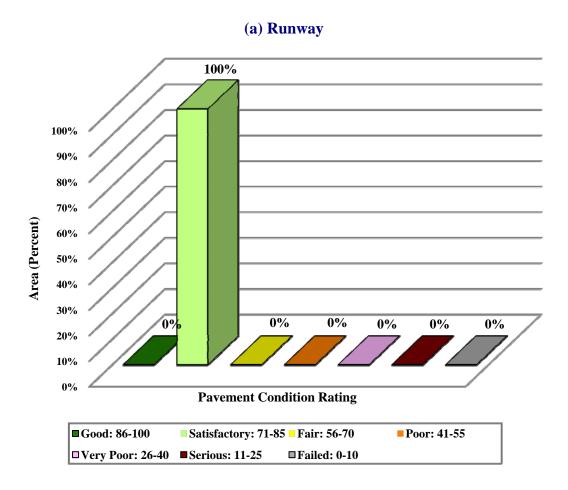
Approximately 70% of the network is in Good and Satisfactory condition while 30 of the network is in Poor and Very Poor condition. Table 3-3 illustrates the area-weighted PCI computed individually for each pavement use.

Table 3-2: Condition by Pavement Use

Use	Average Area-Weighted PCI	Condition Rating		
Runway	76	Satisfactory		
Taxiway	89	Good		
Apron	59	Fair		
All (Weighted)	75	Satisfactory		

Figure 3-2 presents the breakdown of PCI by range for each pavement use.

Figure 3-2: Percentage of Pavement Area within Each PCI Range by Pavement Use



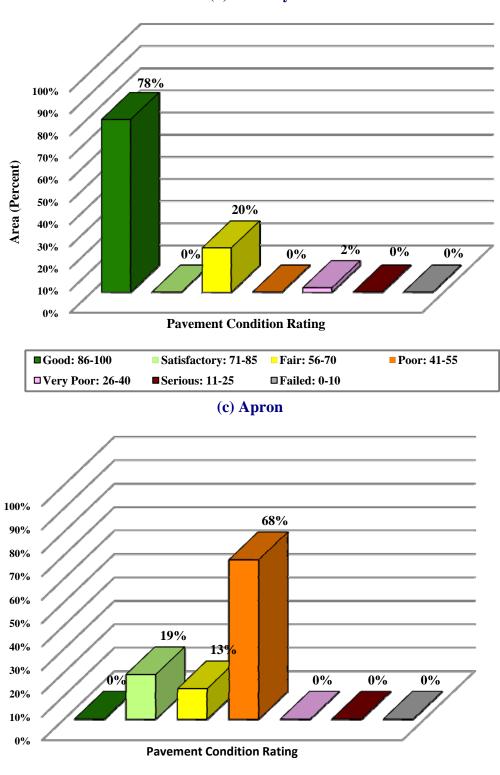
Area (Percent)

■Good: 86-100

■Poor: 41-55

□ Failed: 0-10

(b) Taxiway



Satisfactory: 71-85

■ Very Poor: 26-40

Fair: 56-70

■Serious: 11-25

4. PAVEMENT CONDITION PREDICTION

Performance prediction models or deterioration curves for PCI were used to develop a condition forecast. The performance models were developed for combinations of variables such as pavement use (runway, taxiway or apron), surface type (AC or PCC) and airport category (GA, RL, or PR). Figure 4-1 illustrates the predicted performance of pavements at Crystal River Airport based on current condition, age since last construction and the deterioration model appropriate for the type of pavement. The figure presents the forecast for each pavement use and displays the FDOT minimum service level for General Aviation (GA) airports.

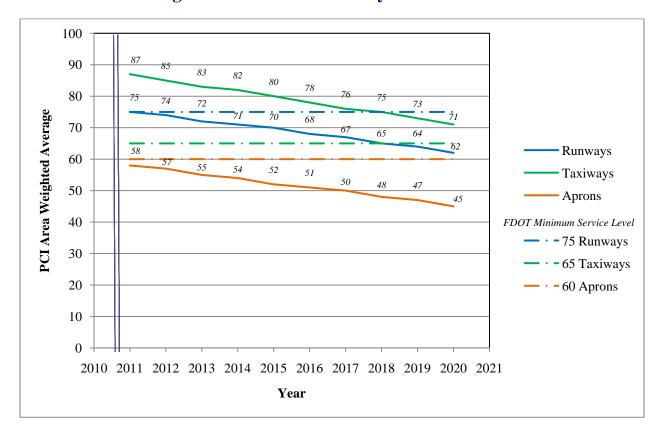


Figure 4-1: Predicted PCI by Pavement Use

Appendix D presents the tabular summary of the predicted Section PCI for each year from 2011 to 2020.

5. MAINTENANCE POLICIES AND COSTS

5.1 Policies

Maintenance and rehabilitation (M&R) policies are sets of rules used to develop repair recommendations for distresses encountered during the visual inspections.

Maintenance refers to repair-type activities that are applied to specific distress types on the pavement. These activities are preventative and/or corrective in nature and are recommended to help achieve the performance goal.

Table 5-1 provides the list of the maintenance activities used in MicroPAVER to treat specific distress types. MicroPAVER applies repairs to these distresses and adjusts the PCI based on specific rules. These repairs are used only in the first year of an analysis.

Rehabilitation is warranted when the pavement condition decreases below a critical point such that the deterioration is extensive or the rate of deterioration is so great that routine maintenance is no longer cost-efficient. This critical point is called "Critical PCI." The critical PCI levels for different pavement and branch types established in the previous SAPMP update were used in this update for the development of the M&R plan for the airport. Sections above critical PCI levels receive routine maintenances while pavements predicted to deteriorate below their respective critical PCI level during the analysis period will be identified for Major M&R. Table 5-2 gives the critical PCI levels for General Aviation Airports.

The maintenance rehabilitation policy and activity costs have been updated based on the study of readily available construction cost data at the time of this study. The costs depicted in this report are intended for planning purposes.

Table 5-1: Routine Maintenance Activities for Airfield Pavements

Surface	Distress Severi		Work Type	Code	Work Unit
	Alligator Crack	M, H	Patching - AC Deep	PA-AD	SqFt
	Bleeding	N/A	No Localized M&R	NONE	N/A
	Block Crack	M, H	Crack Sealing – AC	CS-AC	SqFt
	Corrugation	L, M, H	Patching - AC Deep	PA-AD	SqFt
	Depression	M, H	Patching - AC Deep	PA-AD	SqFt
	Jet Blast	N/A	Patching - AC Deep	PA-AD	SqFt
	Joint Ref. Crack	M, H	Crack Sealing – AC	CS-AC	Ft
	L & T Crack	M, H	Crack Sealing – AC	CS-AC	Ft
AC	Oil Spillage	N/A	Patching - AC Shallow	PA-AS	SqFt
AC	Patching	M, H	Patching - AC Deep	PA-AD	SqFt
	Polished Agg.	N/A	No Localized M&R	NONE	N/A
		L	Surface Sealing - Rejuvenating	SS-RE	SqFt
	Raveling	M	Surface Seal - Coal Tar	SS-CT	SqFt
		H	Microsurfacing	MI-AC	SqFt
	Rutting	M, H	Patching - AC Deep	PA-AD	SqFt
	Shoving	M, H	Grinding (Localized)	GR-LL	SqFt
	Slippage Crack	N/A	Patching - AC Shallow	PA-AS	SqFt
	Swelling	M, H	Patching - AC Deep	PA-AD	SqFt
	Blow-Up	L, M, H	Patching - PCC Full Depth	PA-PF	SqFt
	Corner Break	M, H	Patching - PCC Full Depth	PA-PF	SqFt
	Linear Crack	M, H	Crack Sealing – PCC	CS-PC	Ft
	Durability Crack	H	Slab Replacement – PCC	SL-PC	SqFt
	Durability Clack	M	Patching - PCC Full Depth	PA-PF	SqFt
	Jt. Seal Damage	M, H	Joint Seal (Localized)	JS-LC	Ft
	Small Patch	M, H	Patching - PCC Partial Depth	PA-PP	SqFt
PCC	Large Patch	M, H	Patching - PCC Full Depth	PA-PF	SqFt
rcc	Popouts	N/A	No Localized M&R	NONE	N/A
	Pumping	N/A	No Localized M&R	NONE	N/A
	Scaling	H	Slab Replacement – PCC	SL-PC	SqFt
	Faulting	M, H	Grinding (Localized)	GR-PP	Ft
	Shattered Slab	M, H	Slab Replacement – PCC	SL-PC	SqFt
	Shrinkage Crack	N/A	No Localized M&R	NONE	N/A
	Joint Spall	M, H	Patching - PCC Partial Depth	PA-PP	SqFt
	Corner Spall	M, H	Patching - PCC Partial Depth	PA-PP	SqFt

^{*}L = Low, M = Medium, H = High

Table 5-2: Critical PCI for General Aviation Airports

Use	Critical PCI
Runway	65
Taxiway	65
Apron	65

It should be noted that critical PCI is not the same as Minimum PCI or Minimum Condition. The Minimum PCI is a value set by the user so pavement sections are rehabilitated before they fall below the set minimum. Table 5-3 gives the targeted, or desired, Minimum PCI values for runways, taxiways, and aprons of General Aviation Airports.

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

Minimum PCI						
Runway Taxiway Apron						
75	65	60				

Typical Major M&R activities range from overlays to reconstruction. Based on the critical PCI values in Table 5-2, the PCI trigger range when the likely activity would be a mill and resurface was 40 to 79 and reconstruction at a PCI of 39 or lower. One important concept of pavement management systems is that it is cost effective to maintain pavements that are already in good condition rather than wait for them to get worse and require more expensive rehabilitation.

Crack sealing and full-depth patching are the M&R activities recommended to repair pavements with PCI values between 80 and 90. MicroPAVER considers these as preventative M&R with their primary objective being to slow the rate of pavement deterioration. While the trigger PCI for mill and overlay has been set to 55, MicroPAVER also assigns mill and overlay to sections with a PCI greater than 55 if they exhibit some structural distress. Table 5-4 summarizes the M&R activities for General Aviation Airports based on PCI value.

Table 5-4: M&R Activities for General Aviation Airports

	Activity	PCI Range
Maintenance	Crack Sealing and Full-Depth Patching	80 and 90
Rehabilitation	Mill and Overlay (AC) or Concrete Pavement Restoration (PCC)	40 to 79
	Reconstruction	39 and less

5.2 Unit Costs

FDOT cost databases for airports and highway pavement maintenance and rehabilitation were updated from the previous SAPMP study based on current construction cost trends in order to determine meaningful costs for the program. Table 5-5 presents the unit costs summary.

5.3 M&R Activities

FDOT recognizes that although Mill and Overlay work is recommended for asphalt pavements within a PCI range from 40 to 79, it is conceivable that airports may not have adequate funding to perform this type of rehabilitation. Microsurfacing treatment is a maintenance/rehabilitation measure that can be used in lieu of asphalt pavement mill and overlay; however it should be understood that this measure is intended for short term pavement life extension. While the cost of microsurfacing is significantly lower than that of pavement mill and overlay, it is not intended to be a full rehabilitative measure for long term benefit.

Table 5-5: Maintenance Unit Costs for FDOT

Code	Name	Cost	Unit
GR-LL	Grinding (Localized for AC)	\$2.10	SqFt
PA-AL	Patching – AC Leveling	\$2.30	SqFt
PA-AS	Patching – AC Shallow	\$2.90	SqFt
PA-PF	Patching – PCC Full Depth	\$38.11	SqFt
PA-PP	Patching – PCC Partial Depth	\$19.06	SqFt
SL-PC	Slab Replacement – PCC	\$39.11	SqFt
CS-PC	Crack Sealing – PCC	\$4.24	Ft
UN-PC	Undersealing – PCC	\$3.40	Ft
CS-AC	Crack Sealing – AC	\$2.25	Ft
GR-PP	Grinding (Localized for PCC)	\$22.51	Ft
JS-LC	Joint Seal (Localized)	\$2.00	Ft
SH-LE	Shoulder Leveling	\$2.81	Ft
JS-SI	Joint Seal – Silicon	\$2.81	Ft
PA-AD	Patching – AC Deep	\$4.90	SqFt
OL-AT	Overlay – AC Thin	\$2.80	SqFt
SS-CT	Surface Seal – Coal Tar	\$0.40	SqFt
SS-FS	Surface Seal – Fog Seal	\$0.40	SqFt
SS-RE	Surface Seal – Rejuvenating	\$0.40	SqFt
ST-SB	Surface Treatment – Single Bitum.	\$0.30	SqFt
ST-SS	Surface Treatment – Slurry Seal	\$0.55	SqFt
ST-ST	Surface Treatment – Sand Tar	\$0.28	SqFt
MI-AC	Microsurfacing - AC	\$0.65	SqFt

The improvement in condition due to maintenance actions applied to specific distresses is only performed when an inspection was performed recently and only in the first year of the M&R analysis. In subsequent years, MicroPAVER calculates M&R costs based on expected unit costs for pavements in a range of PCIs. That is, for low PCI, it is expected that the repair would be significant (e.g. reconstruction) and therefore very costly.

Using available unit cost data, the Major M&R Cost by Condition table was set up as shown in Table 5-6. The cost assigned to each range of PCI is based on a Transportation Cost Report provided by Office of Planning Policy of FDOT where the unit costs of reconstruction and resurfacing of airfield pavements were included. These costs were then assigned to the appropriate PCI range to arrive at a cost per square foot necessary to restore pavements at that PCI level to new condition, i.e. a PCI of 100.

Table 5-6: M&R Activities and Unit Costs by Condition for General Aviation Airports

	Activity	PCI Trigger	Cost/SqFt
Maintenance	Crack Sealing and Full-Depth Patching	90	\$0.06
Wiamitemanice	Crack Scannig and I un-Depth I atching	80	\$0.24
		70	\$3.00
	Mill and Overlay (AC) or Concrete Pavement Restoration (PCC)	60	\$3.42
Rehabilitation		50	\$6.29
		40	\$6.29
	Reconstruction	30	\$13.62
	Reconstruction	20	\$13.62

A 3% inflation rate per year was applied to the unit costs during the M&R analysis.

6. PAVEMENT REHABILITATION NEEDS ANALYSIS

Maintenance and Rehabilitation (M&R) analyses were performed after the condition data were calculated and MicroPAVER was customized with the maintenance policies and cost settings described in the previous section.

The objective of the M&R analysis is to observe the effect of different fiscal scenarios on the network condition, over a period of ten years, starting from 2011. The analysis was conducted using an unlimited budget. An unlimited budget allows all M&R needs to be identified along with the associated cost regardless of priority.

Table 6-1 presents the M&R list of immediate needs for Major M&R, i.e. Year 1 of the forecast. The importance of this listing is that it points out the major activities triggered by the current condition of the pavements.

Table 6-1: Summary of Immediate Major M&R Needs Option No. 1

Branch Name	Section ID	Surface Type	Section Area (ft²)	Major M&R Costs*	PCI Before M&R	M&R Activity	PCI After M&R
Main Apron	4105	AAC	70,275	\$341,185.23	55	Mill and Overlay	100
Main Apron	4110	AC	20,051	\$126,120.80	47	Mill and Overlay	100
Main Apron	4115	AC	33,130	\$77,126.69	64	Mill and Overlay	100
T-Hangars Apron	4205	AC	79,853	\$410,604.23	54	Mill and Overlay	100
Connector Taxiway to AP	210	AC	21,510	\$98,257.72	56	Mill and Overlay	100
Parallel Taxiway to RW 9-27	118	AC	4,193	\$35,594.39	37	Reconstruction	100
	-	-	Total	\$1,088,889.06	52		100

^{*} Costs are adjusted for inflation.

FDOT recognizes that the costs attributed to the aforementioned 'Major Activity' of performing a pavement 'Mill and Overlay' may conflict with budgetary constraints. Table 6-2 presents an alternative minor rehabilitative activity to the mid-range performing pavements. The alternative activity is performing a 'Microsurfacing/Slurry Seal' to the pavement to retard the degradation of the facility until funding is available for a 'Mill and Overlay' activity.

Table 6-2: Summary of Immediate Major M&R Needs Option No. 2

Branch Name	Section ID	Surface Type	Section Area (ft²)	Major M&R Costs*	PCI Before M&R	M&R Activity	PCI After M&R
Main Apron	4105	AAC	70,275	\$45,678.75	55	Mill and Overlay	100
Main Apron	4110	AC	20,051	\$13,033.15 47		Mill and Overlay	100
Main Apron	4115	AC	33,130	\$21,534.50	64	Mill and Overlay	100
T-Hangars Apron	4205	AC	79,853	\$51,904.45	54	Mill and Overlay	100
Connector Taxiway to AP	210	AC	21,510	\$13,981.50	56	Mill and Overlay	100
Parallel Taxiway to RW 9-27	118	AC	4,193	\$35,594.39	37	Reconstruction	100
		·	Total	\$181,726.74	52	_	100

^{*} Costs are adjusted for inflation

In addition to the immediate Major M&R needs, maintenance activities for pavement areas above critical PCI have been recommended by MicroPAVER for Year 1 and are shown in Table 6-3 below. The costs provided in Table 5-5 were used to calculate the costs associated with this work, which is intended to treat specific distress types. A more detailed table is provided in Appendix E.

Table 6-3: Summary of Year 1 Maintenance Activities

Branch Name	Branch ID	Section ID	Distress Description	Distress Severity	Work Description	Work Quantity	Work Unit	Unit Cost	Work Cost
Main Apron	AP MAIN	4105	WEATH/RAVEL	Н	Microsurfacing - AC	16.50	SqFt	\$0.65	\$10.72
Main Apron	AP MAIN	4105	WEATH/RAVEL	L	Surface Seal - Rejuvenating	52,783.50	SqFt	\$0.40	\$21,113.58
Main Apron	AP MAIN	4105	WEATH/RAVEL	M	Surface Seal - Coat Tar	15,950.00	SqFt	\$0.40	\$6,380.05
Main Apron	AP MAIN	4110	WEATH/RAVEL	Н	Microsurfacing - AC	300.00	SqFt	\$0.65	\$195.00
Main Apron	AP MAIN	4110	WEATH/RAVEL	L	Surface Seal - Rejuvenating	14,670.00	SqFt	\$0.40	\$5,868.05
Main Apron	AP MAIN	4110	WEATH/RAVEL	M	Surface Seal - Coat Tar	4,530.00	SqFt	\$0.40	\$1,812.02
Main Apron	AP MAIN	4115	WEATH/RAVEL	L	Surface Seal - Rejuvenating	25,300.00	SqFt	\$0.40	\$10,120.08
Main Apron	AP MAIN	4115	WEATH/RAVEL	M	Surface Seal - Coat Tar	4,600.00	SqFt	\$0.40	\$1,840.02
Main Apron	AP MAIN	4120	WEATH/RAVEL	M	Surface Seal - Coat Tar	1,514.40	SqFt	\$0.40	\$605.77
Main Apron	AP MAIN	4120	WEATH/RAVEL	L	Surface Seal - Rejuvenating	7,092.30	SqFt	\$0.40	\$2,836.93
T-Hangars Apron	AP T-HANG	4205	OIL SPILLAGE	N	Patching - AC Shallow	722.60	SqFt	\$2.90	\$2,095.66
T-Hangars Apron	AP T-HANG	4205	WEATH/RAVEL	Н	Microsurfacing - AC	2,135.40	SqFt	\$0.65	\$1,388.03
T-Hangars Apron	AP T-HANG	4205	WEATH/RAVEL	L	Surface Seal - Rejuvenating	67,479.80	SqFt	\$0.40	\$26,992.15
T-Hangars Apron	AP T-HANG	4205	WEATH/RAVEL	M	Surface Seal - Coat Tar	11,516.60	SqFt	\$0.40	\$4,606.69
Runway 9-27	RW 9-27	6105	WEATH/RAVEL	L	Surface Seal - Rejuvenating	29,504.00	SqFt	\$0.40	\$11,801.70
Runway 9-27	RW 9-27	6105	WEATH/RAVEL	M	Surface Seal - Coat Tar	6,500.00	SqFt	\$0.40	\$2,600.02
Runway 9-27	RW 9-27	6110	WEATH/RAVEL	L	Surface Seal - Rejuvenating	22,048.00	SqFt	\$0.40	\$8,819.27
Runway 9-27	RW 9-27	6110	WEATH/RAVEL	M	Surface Seal - Coat Tar	3,120.00	SqFt	\$0.40	\$1,248.01
Runway 9-27	RW 9-27	6115	WEATH/RAVEL	L	Surface Seal - Rejuvenating	180.00	SqFt	\$0.40	\$72.00
Runway 9-27	RW 9-27	6115	WEATH/RAVEL	M	Surface Seal - Coat Tar	120.00	SqFt	\$0.40	\$48.00
Runway 9-27	RW 9-27	6120	WEATH/RAVEL	L	Surface Seal - Rejuvenating	3,120.00	SqFt	\$0.40	\$1,248.01
Connector Taxiway to AP	TW CONN	205	WEATH/RAVEL	M	Surface Seal - Coat Tar	217.00	SqFt	\$0.40	\$86.80
Connector Taxiway to AP	TW CONN	205	WEATH/RAVEL	L	Surface Seal - Rejuvenating	1,120.00	SqFt	\$0.40	\$448.00

Table 6-3: Summary of Year 1 Maintenance Activities (Continued)

Branch Name	Branch ID	Section ID	Distress Description	Distress Severity	Work Description	Work Quantity	Work Unit	Unit Cost	Work Cost
Connector Taxiway to AP	TW CONN	205	WEATH/RAVEL	Н	Microsurfacing - AC	154.00	SqFt	\$0.65	\$100.10
Connector Taxiway to AP	TW CONN	205	PATCHING	M	Patching - AC Deep	1,147.20	SqFt	\$4.90	\$5,621.43
Connector Taxiway to AP	TW CONN	210	WEATH/RAVEL	L	Surface Seal - Rejuvenating	13,668.10	SqFt	\$0.40	\$5,467.28
Connector Taxiway to AP	TW CONN	210	WEATH/RAVEL	M	Surface Seal - Coat Tar	7,526.50	SqFt	\$0.40	\$3,010.62
Connector Taxiway to AP	TW CONN	210	WEATH/RAVEL	Н	Microsurfacing - AC	30.10	SqFt	\$0.65	\$19.57
Parallel Taxiway to RW 9-27	TW PARALL	105	WEATH/RAVEL	L	Surface Seal - Rejuvenating	84.90	SqFt	\$0.40	\$33.96
Parallel Taxiway to RW 9-27	TW PARALL	107	WEATH/RAVEL	L	Surface Seal - Rejuvenating	52.20	SqFt	\$0.40	\$20.89
Parallel Taxiway to RW 9-27	TW PARALL	109	WEATH/RAVEL	L	Surface Seal - Rejuvenating	243.80	SqFt	\$0.40	\$97.50
Parallel Taxiway to RW 9-27	TW PARALL	109	WEATH/RAVEL	M	Surface Seal - Coat Tar	36.60	SqFt	\$0.40	\$14.63
Parallel Taxiway to RW 9-27	TW PARALL	116	WEATH/RAVEL	L	Surface Seal - Rejuvenating	81.00	SqFt	\$0.40	\$32.40
Parallel Taxiway to RW 9-27	TW PARALL	118	WEATH/RAVEL	M	Surface Seal - Coat Tar	7,391.90	SqFt	\$0.40	\$2,956.80
Parallel Taxiway to RW 9-27	TW PARALL	119	WEATH/RAVEL	L	Surface Seal - Rejuvenating	115.00	SqFt	\$0.40	\$46.00
Parallel Taxiway to RW 9-27	TW PARALL	131	WEATH/RAVEL	L	Surface Seal - Rejuvenating	97.80	SqFt	\$0.40	\$39.11
								Total =	\$129,696.85

The 10 year forecast results are shown in Figure 6-1, illustrating the effect on pavement condition (PCI) of doing no maintenance versus having unlimited funds and performing all M&R actions based on the policies.

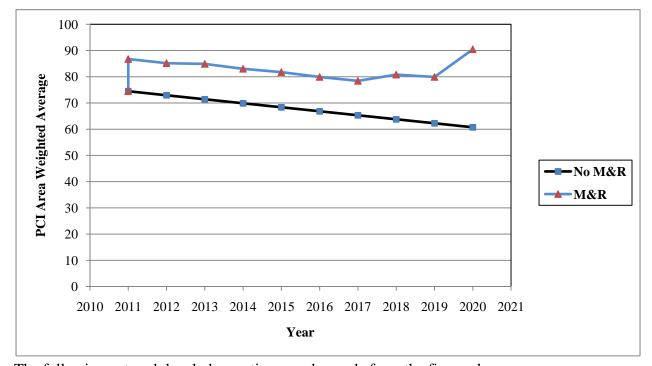


Figure 6-1: Budget Scenario Analysis

The following network level observations can be made from the figure above:

- The PCI will deteriorate from 75 in 2011 to 61 in ten years if no M&R activities are performed.
- The PCI will remain at or above 78 through the 10-year analysis period under the unlimited budget scenario. A 2020 PCI of 90 with this scenario is 29 PCI points higher than a "No M&R" scenario. The total cost for Major M&R over this 10-year period is about \$2.4 million.

7. MAINTENANCE AND REHABILITATION PLAN

The M&R analysis results include activities that likely exceed a typical annual budget level. These activities would need to be evaluated for feasibility and desirability based on the airport's future plans. In an effort to identify appropriate budget levels, the 10 year M&R analysis was evaluated to determine levels needed to address several specific areas: preventive maintenance, major activities for pavements in poor condition (Major M&R for PCIs less than Critical), and activities that would be desirable to preserve good pavement conditions where they exist (Major M&R for PCI greater than or equal to Critical).

Table 7-1 provides the summary results under the critical PCI unlimited funding scenario.

Table 7-1: M&R Costs under Unlimited Funding Scenario

Year	Preventative	Major M&R	Total Year Cost
2011	\$35,820.55	\$1,088,889.05	\$1,124,709.60
2012	\$72,149.48	\$0.00	\$72,149.48
2013	\$71,757.92	\$75,461.56	\$147,219.48
2014	\$83,146.99	\$0.00	\$83,146.99
2015	\$90,772.91	\$0.00	\$90,772.91
2016	\$105,831.77	\$0.00	\$105,831.77
2017	\$119,678.93	\$0.00	\$119,678.93
2018	\$108,110.12	\$311,128.59	\$419,238.71
2019	\$120,049.07	\$27,140.04	\$147,189.11
2020	\$43,261.82	\$944,372.95	\$987,634.77
Total	\$850,579.56	\$2,446,992.19	\$3,297,571.75

Note: Costs are adjusted for inflation.

Approximately 44% of the total Major M&R cost is required in the first year (2011). According to the 2011 inspections, the following pavement sections were in immediate need of Major M&R Activity:

- Main Apron Asphalt pavement mill and overlay activity per the FAA P-401 Specification.
- **T-Hangars Apron** Asphalt pavement mill and overlay activity per the FAA P-401 Specification.
- **Connector Taxiway to AP -** Asphalt pavement mill and overlay activity per the FAA P-401 Specification.
- Parallel Taxiway to RW 9-27 Asphalt pavement reconstruction activity per the FAA P-401 Specification.

The unlimited budget scenario provides the basis for estimating the total repair cost.

Appendix F provides details of M&R plan by year under the unlimited funding scenario, and the map of the 10-year M&R plan is provided in Appendix G. It is important to understand that the SAPMP is a network level tool and the M&R costs provided in this report are only for planning purposes.

8. VISUAL AIDS

8.1 System Inventory and Network Definition Drawings

The System Inventory and Network Definition CADD drawings, which show the airport pavement outline with Branch and Section boundaries and identify changes in the network pavement since the last inspection and the sampling plan, respectively, are included in Appendix A of this report.

8.2 Condition Map

A Condition Map that has been prepared based on data linked to the airport's shape file is included in Appendix B. The Condition Map graphically show the inventory and condition of the airport via color coding shown on the shape file. The coding provides a visual representation that illustrates the PCIs for each pavement section.

8.3 10-Year M&R Map

A 10-Year M&R Map that shows the summary of the M&R plan is attached in Appendix G.

8.4 Photographs

Selected digital photographs taken during the pavement inspection are provided in Appendix H to provide visual support to special pavement conditions or distress observed during the inspection of the airport.

9. RECOMMENDATIONS

Pavement condition inspections were performed at Crystal River Airport, and a 10-year M&R plan was developed based on the unlimited funding scenario.

The following recommendations were made based on the 2011 condition inspection and M&R analysis results:

- **Main Apron** Asphalt pavement mill and overlay activity per the FAA P-401 Specification.
- **T-Hangars Apron** Asphalt pavement mill and overlay activity per the FAA P-401 Specification.
- **Connector Taxiway to AP -** Asphalt pavement mill and overlay activity per the FAA P-401 Specification.
- **Parallel Taxiway to RW 9-27** Asphalt pavement reconstruction activity per the FAA P-401 Specification.

Further evaluation of these features is necessary in order to develop repair plans and timing for future budgets since these needs cannot be addressed with typical annual expenditures.

APPENDIX A

NETWORK DEFINITION MAP SYSTEM INVENTORY MAP PAVEMENT INVENTORY TABLE WORK HISTORY REPORT

	GPS COORE	DINATES - CRYS	STAL RIVER AIRPOR	т
LOCATION	SECTION	SAMPLE	LATITUDE	LONGITUDE
AP MAIN	4105	204	28.87086608	-82.57842295
AP MAIN	4105	207	28.87045897	-82.57843088
AP MAIN	4110	198	28.87169035	-82.57837647
AP MAIN	4115	212	28.86977145	-82.57842888
AP MAIN	4120	217	28.86908384	-82.57841613
AP MAIN	4120	221	28.86850667	-82.57837443
AP T-HANG	4205	202	28.87012427	-82.57736861
AP T-HANG	4205	301	28.87045844	-82.57760572
AP T-HANG	4205	402	28.87086804	-82.57742358
RW 9-27	6105	101	28.86729889	-82.57779772
RW 9-27	6105	106	28.86729277	-82.5770167
RW 9-27	6105	111	28.86728665	-82.57623568
RW 9-27	6105	116	28.86728104	-82.57545485
RW 9-27	6105	121	28.8672744	-82.57467365
RW 9-27	6105	126	28,86726826	-82.57389263
RW 9-27	6105	131	28.86726212	-82.57311161
RW 9-27	6105	136	28.86725598	-82.57233059
RW 9-27	6105	141	28.86724983	-82.57154957
RW 9-27	6105	146	28.86724368	-82.57076855
RW 9-27	6105	151	28.86723752	-82.56998753
RW 9-27	6105	156	28.86723136	-82.56920651
RW 9-27	6110	161	28.8672252	-82.5684255
RW 9-27	6110	166	28.86721903	-82.56764448
RW 9-27	6110	171	28.86721285	-82.56686346
RW 9-27	6110	176	28.86720667	-82.56608244
RW 9-27	6110	181	28.86720049	-82.56530142
RW 9-27	6115	98	28.86730227	-82.57822721
RW 9-27	6120	187	28.8671934	-82.56441607
TW A	105	100	28.86789116	-82.57795302
TW A	105	107	28.86793359	-82.57456796
TW A	105	115	28.86790406	-82.57081904
TW A	107	120	28.86788555	-82.56847597
TW A	107	127	28.86785957	-82.56519567
TW A	109	200	28.86783278	-82.57807796
TW A	130	124	28.86740296	-82.56432068
TW A	131	123	28.86758386	-82.56431946
TW CONN	205	101	28.86860087	-82.57809097
TW CONN	205	103	28.86969782	-82.57818774
TW CONN	210	101	28.86983133	-82.57759716
TW CONN	210	300	28.87047015	-82.577943
TW	115	100	28.86747344	-82.57335589
TW	116	100	28.86772971	-82.57335308
TW	118	100	28.8674397	-82.56907848
TW	119	100	28.86769597	-82,56907566

4115 AC 130' X 50' 1 5

NOTE: GEODE ITCS REPRESENT DECIMAL DEGREES WGS84 (DERIVED FROM NAD 83 FLORIDA STA'
PLANES, WEST ZONE, US FOOT). ALL GPS COORDINATES ARE AT THE CENTROID OF THE SAMPLE
UNITS.



RUNWAY 9-27 4555' X 75'

RW 9-27

LEGEND

RW 13-31 - TYPICAL RUNWAY BRANCH ID

TYPICAL TAXIWAY BRANCH ID - TYPICAL APRON BRANCH ID

PAVEMENT TYPE

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

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

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

CGC

TOTAL SAMPLES INSPECTED = 36

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

P:\Com_Shared\FDOT Av	ristion 2010-2011\2010-2	011-Phose E\CAEO\Crystol	Rover\001-000-0EFINITION	Ldmg	PLOTTED	t July 14, 2011 – 10:51 A	M, SY: Burton, Georg				
DESIGNED:	FL	DRAWN:	BB	CHECKED:		DATE:	MAY 2011				
NUMBER	DATE		REVISIONS								

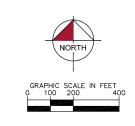


100 -100 -





CRYSTAL RIVER AIRPORT CITRUS COUNTY, FLORIDA FLORIDA DEPARTMENT OF TRANSPORTATION - AVIATION OFFICE



CONSTRUCTION SINCE LAST INSPECTION & ANTICIPATED CONSTRUCTION ACTIVITY

CONSTRUCTION LOCATION		WORK TYPE / PAVEMENT SECTION				
2009	PARALLEL TAXIWAY TO	NEW CONSTRUCTION				

LEGEND



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

NUMBER	DATE		REVISIONS							
DESIGNED:	FL	DRAWN:	BB	CHECKED:		DATE:	MAY 2011			

411 412 413 401 402 403

4115 AC 130' x 50' 1 5

212

221



TW A

100 -

TAXIWAY

RUNWAY 9-27 4555' X 75'

RW 9-27





CITRUS COUNTY, FLORIDA FLORIDA DEPARTMENT OF TRANSPORTATION - AVIATION OFFICE



Table A-1: Pavement Inventory

Branch Name	Branch ID	Branch Use	Section ID	Length (ft)	Width (ft)	True Area (ft²)	Section Rank	Surface Type	Last Const. Date	Last Insp. Date	Total Samples
Main Apron	AP MAIN	APRON	4105	550	125	70,275	P	AAC	1/1/1998	3/15/2011	11
Main Apron	AP MAIN	APRON	4110	150	130	20,051	P	AC	1/1/1998	3/15/2011	3
Main Apron	AP MAIN	APRON	4115	230	130	33,130	P	AC	1/1/1998	3/15/2011	5
Main Apron	AP MAIN	APRON	4120	130	387	48,929	P	AC	1/1/2005	3/15/2011	6
T-Hangars Apron	AP T-HANG	APRON	4205	405	200	79,853	T	AC	1/1/1998	3/15/2011	28
Runway 9-27	RW 9-27	RUNWAY	6105	3000	75	225,605	P	AC	1/1/2001	3/15/2011	60
Runway 9-27	RW 9-27	RUNWAY	6110	1300	75	97,261	P	AC	1/1/2001	3/15/2011	26
Runway 9-27	RW 9-27	RUNWAY	6115	120	75	9,390	P	AC	1/1/2001	3/15/2011	3
Runway 9-27	RW 9-27	RUNWAY	6120	135	75	9,913	P	AC	1/1/2001	3/15/2011	3
Connector Taxiway to AP	TW CONN	TAXIWAY	205	1400	22	30,554	P	AC	1/1/1965	3/15/2011	7
Connector Taxiway to AP	TW CONN	TAXIWAY	210	600	30	21,510	P	AC	1/1/1997	3/15/2011	5
Parallel Taxiway to RW 9-27	TW PARALL	TAXIWAY	105	2825	35	101,370	T	AC	1/1/2009	3/15/2011	19
Parallel Taxiway to RW 9-27	TW PARALL	TAXIWAY	107	1600	35	55,857	P	AC	1/1/2009	3/15/2011	11
Parallel Taxiway to RW 9-27	TW PARALL	TAXIWAY	109	188	65	12,400	P	AC	1/1/2001	3/15/2011	3
Parallel Taxiway to RW 9-27	TW PARALL	TAXIWAY	115	103	40	5,353	P	AC	1/1/1965	3/15/2011	1
Parallel Taxiway to RW 9-27	TW PARALL	TAXIWAY	116	80	40	4,194	T	AC	1/1/2009	3/15/2011	1
Parallel Taxiway to RW 9-27	TW PARALL	TAXIWAY	118	80	40	4,193	P	AC	1/1/2001	3/15/2011	1
Parallel Taxiway to RW 9-27	TW PARALL	TAXIWAY	119	103	40	5,353	P	AC	1/1/2009	3/15/2011	1
Parallel Taxiway to RW 9-27	TW PARALL	TAXIWAY	130	107	75	9,203	P	AC	1/1/2001	10/24/2006	1
Parallel Taxiway to RW 9-27	TW PARALL	TAXIWAY	131	75	75	6,265	P	AC	1/1/2009	3/15/2011	2

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

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

Date:06/21/2011

Work History Report

Pavement Database:

1 of 4

Network: CGC Branch: AP MAIN (MAIN APRON) Section: 4105 Surface: AAC L.C.D.: 01/01/1998 Use: APRON Rank: P Length: 550.00 Ft 125.00 Ft True Area: 70,275.00 SqF Width: Work Work Thickness Major Comments Cost (in) M&R Date Code Description 0.00 01/01/1998 INITIAL Initial Construction \$0 True Network: CGC Branch: AP MAIN (MAIN APRON) Section: 4110 Surface: AC L.C.D.: 01/01/1998 Use: APRON Rank: P Length: 150.00 Ft Width: 130.00 Ft True Area: 20.051.00 SqF Work Work Thickness Major Comments Cost Description Date Code (in) M&R 01/01/1998 INITIAL Initial Construction \$0 0.00 True Network: CGC Branch: AP MAIN (MAIN APRON) Section: 4115 Surface: AC L.C.D.: 01/01/1998 Use: APRON Rank: P Length: 230.00 Ft Width: 130.00 Ft True Area: 33,130.00 SqF Work Work Work Thickness Major Comments Cost Date Code Description (in) M&R 01/01/1998 INITIAL 0.00 Initial Construction True Network: CGC Branch: AP MAIN Section: 4120 Surface: AC (MAIN APRON) L.C.D.: 01/01/2005 Use: APRON Rank: P Length: 130.00 Ft Width: 387.00 Ft True Area: 48.929.00 SaF Work Work Thickness Major Comments Cost Date Code Description (in) M&R 01/01/2005 NC-AC New Construction - AC 0.00 True Section: 4205 Network: CGC Branch: AP T-HANG (T-HANGARS APRON) Surface: AC L.C.D.: 01/01/1998 Use: APRON Rank: T Length: 405.00 Ft Width: 200.00 Ft True Area: 79.853.00 SqF Work Work Work Thickness Major **Comments** Cost Date Code Description (in) M&R INITIAL 01/01/1998 **Initial Construction** \$0 0.00 True (RUNWAY 9-27) Surface: AC Network: CGC Branch: RW 9-27 Section: 6105 L.C.D.: 01/01/2001 Use: RUNWAY Rank: P Length: 3.000.00 Ft Width: 75.00 Ft True Area:225,605.00 SqF Work Work Thickness Major Comments Cost Date Code Description (in) M&R 01/01/2001 OL-AS Overlay - AC Structural 2.00 2" AC Ovly True 01/01/1975 INITIAL Initial Construction \$0 0.00 True Branch: RW 9-27 Network: CGC (RUNWAY 9-27) Section: 6110 Surface: AC L.C.D.: 01/01/2001 Use: RUNWAY Rank: P Length: 1.300.00 Ft Width: 75.00 Ft True Area: 97,261.00 SqF Work Work Work Thickness Major Comments Cost Date Code Description (in) M&R 01/01/2001 CR-AC Complete Reconstruction - AC 2"AC/6"Limerock Base 01/01/1992 INITIAL Initial Construction 0.00 Network: CGC Branch: RW 9-27 (RUNWAY 9-27) Section: 6115 Surface: AC True Area: 9.390.00 SqF L.C.D.: 01/01/2001 Use: RUNWAY Rank: P Length: 120.00 Ft Width: 75.00 Ft Thickness Work Work Major Work Comments Cost Date Code Description (in) M&R 01/01/2001 INITIAL Initial Construction True 4"AC / 6"Limerock Base Network: CGC Branch: RW 9-27 (RUNWAY 9-27) Section: 6120 Surface: AC L.C.D.: 01/01/2001 Use: RUNWAY True Area: 9,913.00 SqF Rank: P Length: 135.00 Ft Width: 75.00 Ft Work Work Thickness Major Comments Cost Date Code Description M&R (in) 01/01/2001 INITIAL **Initial Construction** \$0 4.00 True 4"AC / 6"Limerock Base

Date:06/21/2011

Work History Report

2 of 4

	Pavement Database:												
Network: C. L.C.D.: 01/0	GC Br a 1/1965 Use: TA	• •	CTOR TAXIWAY 1,400.00 Ft	TO AP) Width:	Section: 205 Surface: AC 22.00 Ft True Area: 30,554.00 SqF								
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R Comments								
01/01/1965	INITIAL	Initial Construction	\$0	0.00	True								
Network: C	GC Br a 1/1997 Use: TA	· ·	CTOR TAXIWAY	TO AP) Width:	Section: 210 Surface: AC 30.00 Ft True Area: 21.510.00 SqF								
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R Comments								
01/01/1997	INITIAL	Initial Construction	\$0	0.00	True								
Network: C L.C.D.: 01/0	GC Br a 1/2009 Use: TA	·	EL TAXIWAY TO 2,825.00 Ft	RW 9-27) Width:	Section: 105 Surface: AC 35.00 Ft True Area: 101,370.00 SqF								
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R Comments								
01/01/2009 01/01/1965	NC-AC INITIAL	New Construction - AC Initial Construction	\$0 \$0		True True								
Network: C L.C.D.: 01/0	1/2009 Use: TA	XIWAY Rank: P Length:	EL TAXIWAY TO 1.600.00 Ft	RW 9-27) Width:	Section: 107 Surface: AC 35.00 Ft True Area: 55.857.00 SqF								
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R Comments								
01/01/2009 01/01/1992	NC-AC INITIAL	New Construction - AC Initial Construction	\$0 \$0	0.00 0.00	True True								
Network: C L.C.D.: 01/0	GC Br a 1/2001 Use: TA	•	EL TAXIWAY TO 188.00 Ft	RW 9-27) Width:	Section: 109 Surface: AC 65.00 Ft True Area: 12.400.00 SqF								
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R Comments								
01/01/2001	INITIAL	Initial Construction	\$0	4.00	True 4"AC / 6"Limerock Base								
Network: C L.C.D.: 01/0	GC Br a 1/1965 Use: TA	•	EL TAXIWAY TO 103.00 Ft	RW 9-27) Width:	Section: 115 Surface: AC 40.00 Ft True Area: 5,353.00 SqF								
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R Comments								
01/01/1965	INITIAL	Initial Construction	\$0	0.00	True								
Network: C L.C.D.: 01/0	GC Br a 1/2009 Use: TA	•	EL TAXIWAY TO 80.00 Ft	RW 9-27) Width:	Section: 116 Surface: AC 40.00 Ft True Area: 4.194.00 SaF								
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R Comments								
01/01/2009 01/01/1965	NC-AC INITIAL	New Construction - AC Initial Construction	\$0 \$0		True True								
Network: C. L.C.D.: 01/0	GC Br a 1/2001 Use: TA	•	EL TAXIWAY TO 80.00 Ft	RW 9-27) Width:	Section: 118 Surface: AC 40.00 Ft True Area: 4.193.00 SqF								
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R Comments								
01/01/2001	CR-AC	Complete Reconstruction - AC	\$0	4.00	True								
Network: C	GC Br a 1/2009 Use: TA	· ·	EL TAXIWAY TO 103.00 Ft	RW 9-27) Width:	Section: 119 Surface: AC 40.00 Ft True Area: 5.353.00 SqF								
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R Comments								
01/01/2009	NC-AC	New Construction - AC	\$0	0.00	True								

Date:06	/21/2011		istory Re nent Database:	•		3 of 4	
01/01/2001	INITIAL	Initial Construction	\$0	0.00	True		
Network: CGC Branch: TW PARALL (PARALLEL TAXIWAY TO RW 9-27) Section: 130 Surfa L.C.D.: 01/01/2001 Use: TAXIWAY Rank: P Length: 107.00 Ft Width: 75.00 Ft True Area: 9							
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments	
01/01/2001	INITIAL	Initial Construction	\$0	4.00	True	4"AC / 6"Limerock Base	
Network: C L.C.D.: 01/0	GC Br 1/2009 Use: TA	•	EL TAXIWAY TO 75.00 Ft	RW 9-27) Width:		ction: 131 Surface: AC 00 Ft True Area: 6.265.00 SqF	
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments	
01/01/2009 01/01/2001	NC-AC INITIAL	New Construction - AC Initial Construction	\$0 \$0				

Date: 6/21/2011

Work History Report

4 of 4

Pavement Database:

Summary:

Work Description	Section Count	Area Total (SqFt)	Thickness Avg (in)	Thickness STD (in)
Complete Reconstruction - AC	2	101,454.00	3.00	1.41
Initial Construction	18	797,537.00	.89	1.71
New Construction - AC	6	221,968.00	.00	.00
Overlay - AC Structural	1	225,605.00	2.00	

STD = Standard Deviation

APPENDIX B

2011 CONDITION MAP PAVEMENT CONDITION INDEX TABLE



Table B-1: Pavement Condition Index

Branch Name	Branch ID	Branch Use	Section ID	True Area (ft²)	Section Rank	Surface Type	Total Samples Inspected	Total Samples	PCI	PCI Category
Main Apron	AP MAIN	APRON	4105	70,275	P	AAC	2	11	55	Poor
Main Apron	AP MAIN	APRON	4110	20,051	P	AC	1	3	47	Poor
Main Apron	AP MAIN	APRON	4115	33,130	P	AC	1	5	64	Fair
Main Apron	AP MAIN	APRON	4120	48,929	P	AC	2	6	77	Satisfactory
T-Hangars Apron	AP T-HANG	APRON	4205	79,853	T	AC	3	28	54	Poor
Runway 9-27	RW 9-27	RUNWAY	6105	225,605	P	AC	12	60	77	Satisfactory
Runway 9-27	RW 9-27	RUNWAY	6110	97,261	P	AC	5	26	74	Satisfactory
Runway 9-27	RW 9-27	RUNWAY	6115	9,390	P	AC	1	3	82	Satisfactory
Runway 9-27	RW 9-27	RUNWAY	6120	9,913	P	AC	1	3	78	Satisfactory
Connector Taxiway to AP	TW CONN	TAXIWAY	205	30,554	P	AC	2	7	68	Fair
Connector Taxiway to AP	TW CONN	TAXIWAY	210	21,510	P	AC	2	5	57	Fair
Parallel Taxiway to RW 9-27	TW PARALL	TAXIWAY	105	101,370	T	AC	3	19	98	Good
Parallel Taxiway to RW 9-27	TW PARALL	TAXIWAY	107	55,857	P	AC	2	11	98	Good
Parallel Taxiway to RW 9-27	TW PARALL	TAXIWAY	109	12,400	P	AC	1	3	87	Good
Parallel Taxiway to RW 9-27	TW PARALL	TAXIWAY	115	5,353	P	AC	1	1	87	Good
Parallel Taxiway to RW 9-27	TW PARALL	TAXIWAY	116	4,194	Т	AC	1	1	96	Good
Parallel Taxiway to RW 9-27	TW PARALL	TAXIWAY	118	4,193	P	AC	1	1	38	Very Poor
Parallel Taxiway to RW 9-27	TW PARALL	TAXIWAY	119	5,353	P	AC	1	1	96	Good
Parallel Taxiway to RW 9-27	TW PARALL	TAXIWAY	130	9,203	P	AC	0	1	86	Good
Parallel Taxiway to RW 9-27	TW PARALL	TAXIWAY	131	6,265	P	AC	1	2	92	Good

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

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

APPENDIX C

BRANCH CONDITION REPORT SECTION CONDITION REPORT

Date: 6 /16/2011

Branch Condition Report

1 of 2

Pavement Database: NetworkID: CGC

		i aveii	ieni Dalaba	ISC. INCLINUINIL	. CGC			
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 MAIN (MAIN APRON)	4	1,060.00	193.00	172,385.00	APRON	60.75	11.14	62.04
AP T-HANG (T-HANGARS APRON)	1	405.00	200.00	79,853.00	APRON	54.00	0.00	54.00
RW 9-27 (RUNWAY 9-27)	4	4,555.00	75.00	342,169.00	RUNWAY	77.75	2.86	76.31
TW CONN (CONNECTOR TAXIWAY TO AP)	2	2,000.00	26.00	52,064.00	TAXIWAY	62.50	5.50	63.46
TW PARALL (PARALLEL TAXIWAY TO RW 9-27)	9	5,161.00	49.44	204,188.00	TAXIWAY	86.44	17.73	94.99

Branch Condition Report

Pavement Database:

Use Category	Number of Sections	Total Area (SqFt)	Arithmetic Average PCI	Average PCI STD.	Weighted Average PCI
APRON	5	252,238.00	59.40	10.33	59.50
RUNWAY	4	342,169.00	77.75	2.86	76.31
TAXIWAY	11	256,252.00	82.09	18.65	88.59
All	20	850,659.00	75.55	17.59	75.02

STD = Standard Deviation

Date: 6 /16/2011

Section Condition Report

Pavement Database: N

NetworkID: CGC

Last Age Section ID **Branch ID** Last Surface Use Rank Lanes **True Area PCI** Inspection Αt Const. (SqFt) Date Inspection **Date APRON** Ρ 70,275.00 03/15/2011 AP MAIN (MAIN APRON) 4105 01/01/1998 AAC 0 13 55.00 AP MAIN (MAIN APRON) 4110 01/01/1998 AC **APRON** Р 0 20,051.00 03/15/2011 13 47.00 AP MAIN (MAIN APRON) 4115 01/01/1998 AC **APRON** Ρ 0 33,130.00 03/15/2011 13 64.00 AP MAIN (MAIN APRON) 4120 01/01/2005 AC **APRON** Р 0 48,929.00 03/15/2011 6 77.00 AP T-HANG (T-HANGARS 4205 01/01/1998 AC **APRON** Τ 0 79,853.00 03/15/2011 13 54.00 APRON) RW 9-27 (RUNWAY 9-27) **RUNWAY** Ρ 6105 01/01/2001 AC 0 225,605.00 03/15/2011 10 77.00 RW 9-27 (RUNWAY 9-27) 6110 01/01/2001 AC. **RUNWAY** Ρ n 97,261.00 03/15/2011 10 74.00 RW 9-27 (RUNWAY 9-27) Р 01/01/2001 **RUNWAY** 0 9,390.00 03/15/2011 82.00 6115 AC 10 Р RW 9-27 (RUNWAY 9-27) 6120 01/01/2001 AC RUNWAY 0 9,913.00 03/15/2011 10 78.00 TW CONN (CONNECTOR 205 01/01/1965 AC **TAXIWAY** Ρ 0 30,554.00 03/15/2011 68.00 46 TAXIWAY TO AP) TW CONN (CONNECTOR Ρ 210 01/01/1997 AC **TAXIWAY** 0 21,510.00 03/15/2011 14 57.00 TAXIWAY TO AP) TW PARALL (PARALLEL 01/01/2009 AC **TAXIWAY** Τ 101,370.00 03/15/2011 2 105 0 98.00 TAXIWAY TO RW 9-27) TW PARALL (PARALLEL Р 107 01/01/2009 AC **TAXIWAY** 0 55,857.00 03/15/2011 2 98.00 TAXIWAY TO RW 9-27) TW PARALL (PARALLEL 109 01/01/2001 AC **TAXIWAY** Ρ 0 12,400.00 03/15/2011 10 87.00 TAXIWAY TO RW 9-27) TW PARALL (PARALLEL **TAXIWAY** Ρ 115 01/01/1965 AC 0 5,353.00 03/15/2011 46 87.00 TAXIWAY TO RW 9-27) TW PARALL (PARALLEL 116 01/01/2009 AC **TAXIWAY** Т 4,194.00 03/15/2011 2 96.00 TAXIWAY TO RW 9-27) TW PARALL (PARALLEL 118 01/01/2001 AC **TAXIWAY** Ρ 0 4,193.00 03/15/2011 10 38.00 TAXIWAY TO RW 9-27) TW PARALL (PARALLEL 01/01/2009 AC **TAXIWAY** Р 0 5,353.00 03/15/2011 2 96.00 119 TAXIWAY TO RW 9-27) TW PARALL (PARALLEL 01/01/2001 AC **TAXIWAY** Ρ 9,203.00 10/24/2006 5 130 0 86.00 TAXIWAY TO RW 9-27) TW PARALL (PARALLEL Р 131 01/01/2009 AC **TAXIWAY** 0 6,265.00 03/15/2011 2 92.00 TAXIWAY TO RW 9-27)

1 of 2

Date: 6 /16/2011

Section Condition Report

Pavement Database:

Age Category	Average Age At Inspection	Total Area (SqFt)	Number of Sections	Arithmetic Average PCI	PCI Standard Deviation	Weighted Average PCI
0-02	2.00	173,039.00	5	96.00	2.19	97.67
03-05	5.00	9,203.00	1	86.00	0.00	86.00
06-10	9.43	407,691.00	7	73.29	14.93	76.33
11-15	13.20	224,819.00	5	55.40	5.46	55.45
over 40	46.00	35,907.00	2	77.50	9.50	70.83
AII	11.95	850,659.00	20	75.55	17.59	75.02

2 of 2

APPENDIX D

PAVEMENT CONDITION PREDICTION TABLE PREDICTED PCI BY PAVEMENT USE GRAPH

Table D-1: Pavement Condition Prediction

Daniel Mana	Branch ID Section Current							PCI Forecast					
Branch Name	Branch ID	ID	PCI	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Main Apron	AP MAIN	4105	55	55	53	52	50	49	47	46	45	44	42
Main Apron	AP MAIN	4110	47	47	45	44	42	41	39	38	36	35	34
Main Apron	AP MAIN	4115	64	64	62	61	59	58	56	55	53	52	51
Main Apron	AP MAIN	4120	77	77	75	74	72	71	69	68	66	65	64
T-Hangars Apron	AP T-HANG	4205	54	54	52	51	49	48	46	45	43	42	41
Runway 9-27	RW 9-27	6105	77	77	75	74	72	71	69	68	66	65	63
Runway 9-27	RW 9-27	6110	74	74	72	71	69	68	66	65	63	62	60
Runway 9-27	RW 9-27	6115	82	82	80	79	77	76	74	73	71	70	68
Runway 9-27	RW 9-27	6120	78	78	76	75	73	72	70	69	67	66	64
Connector Taxiway to AP	TW CONN	205	68	67	66	64	62	61	59	57	55	54	52
Connector Taxiway to AP	TW CONN	210	57	56	55	53	51	50	48	46	44	43	41
Parallel Taxiway to RW 9-27	TW PARALL	105	98	97	96	94	92	91	89	87	85	84	82
Parallel Taxiway to RW 9-27	TW PARALL	107	98	97	96	94	92	91	89	87	85	84	82
Parallel Taxiway to RW 9-27	TW PARALL	109	87	86	85	83	81	80	78	76	74	73	71
Parallel Taxiway to RW 9-27	TW PARALL	115	87	86	85	83	81	80	78	76	74	73	71
Parallel Taxiway to RW 9-27	TW PARALL	116	96	95	94	92	90	89	87	85	83	82	80
Parallel Taxiway to RW 9-27	TW PARALL	118	38	37	36	34	32	31	29	27	25	24	22
Parallel Taxiway to RW 9-27	TW PARALL	119	96	95	94	92	90	89	87	85	83	82	80
Parallel Taxiway to RW 9-27	TW PARALL	130	86	78	76	75	73	71	69	68	66	64	63
Parallel Taxiway to RW 9-27	TW PARALL	131	92	91	90	88	86	85	83	81	79	78	76

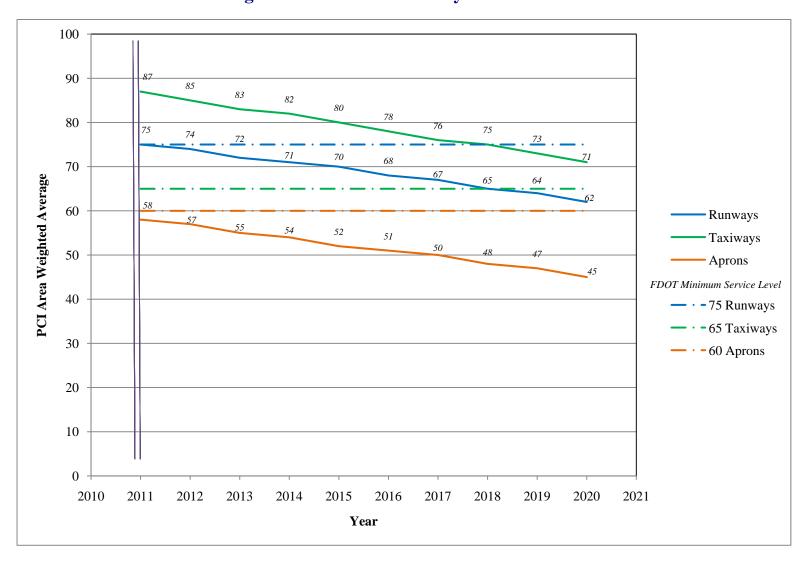


Figure D-1: Predicted PCI by Pavement Use

APPENDIX E

YEAR 1 MAINTENANCE ACTIVITIES TABLE

Table E-1: Year 1 Maintenance Activities

Branch Name	Branch ID	Section ID	Distress Description	Distress Severity	Work Description	Work Quantity	Work Unit	Unit Cost	Work Cost
Main Apron	AP MAIN	4105	WEATH/RAVEL	Н	Microsurfacing - AC	16.50	SqFt	\$0.65	\$10.72
Main Apron	AP MAIN	4105	WEATH/RAVEL	L	Surface Seal - Rejuvenating	52,783.50	SqFt	\$0.40	\$21,113.58
Main Apron	AP MAIN	4105	WEATH/RAVEL	M	Surface Seal - Coat Tar	15,950.00	SqFt	\$0.40	\$6,380.05
Main Apron	AP MAIN	4110	WEATH/RAVEL	Н	Microsurfacing - AC	300.00	SqFt	\$0.65	\$195.00
Main Apron	AP MAIN	4110	WEATH/RAVEL	L	Surface Seal - Rejuvenating	14,670.00	SqFt	\$0.40	\$5,868.05
Main Apron	AP MAIN	4110	WEATH/RAVEL	M	Surface Seal - Coat Tar	4,530.00	SqFt	\$0.40	\$1,812.02
Main Apron	AP MAIN	4115	WEATH/RAVEL	L	Surface Seal - Rejuvenating	25,300.00	SqFt	\$0.40	\$10,120.08
Main Apron	AP MAIN	4115	WEATH/RAVEL	M	Surface Seal - Coat Tar	4,600.00	SqFt	\$0.40	\$1,840.02
Main Apron	AP MAIN	4120	WEATH/RAVEL	M	Surface Seal - Coat Tar	1,514.40	SqFt	\$0.40	\$605.77
Main Apron	AP MAIN	4120	WEATH/RAVEL	L	Surface Seal - Rejuvenating	7,092.30	SqFt	\$0.40	\$2,836.93
T-Hangars Apron	AP T-HANG	4205	OIL SPILLAGE	N	Patching - AC Shallow	722.60	SqFt	\$2.90	\$2,095.66
T-Hangars Apron	AP T-HANG	4205	WEATH/RAVEL	Н	Microsurfacing - AC	2,135.40	SqFt	\$0.65	\$1,388.03
T-Hangars Apron	AP T-HANG	4205	WEATH/RAVEL	L	Surface Seal - Rejuvenating	67,479.80	SqFt	\$0.40	\$26,992.15
T-Hangars Apron	AP T-HANG	4205	WEATH/RAVEL	M	Surface Seal - Coat Tar	11,516.60	SqFt	\$0.40	\$4,606.69
Runway 9-27	RW 9-27	6105	WEATH/RAVEL	L	Surface Seal - Rejuvenating	29,504.00	SqFt	\$0.40	\$11,801.70
Runway 9-27	RW 9-27	6105	WEATH/RAVEL	M	Surface Seal - Coat Tar	6,500.00	SqFt	\$0.40	\$2,600.02
Runway 9-27	RW 9-27	6110	WEATH/RAVEL	L	Surface Seal - Rejuvenating	22,048.00	SqFt	\$0.40	\$8,819.27
Runway 9-27	RW 9-27	6110	WEATH/RAVEL	M	Surface Seal - Coat Tar	3,120.00	SqFt	\$0.40	\$1,248.01
Runway 9-27	RW 9-27	6115	WEATH/RAVEL	L	Surface Seal - Rejuvenating	180.00	SqFt	\$0.40	\$72.00
Runway 9-27	RW 9-27	6115	WEATH/RAVEL	M	Surface Seal - Coat Tar	120.00	SqFt	\$0.40	\$48.00
Runway 9-27	RW 9-27	6120	WEATH/RAVEL	L	Surface Seal - Rejuvenating	3,120.00	SqFt	\$0.40	\$1,248.01
Connector Taxiway to AP	TW CONN	205	WEATH/RAVEL	M	Surface Seal - Coat Tar	217.00	SqFt	\$0.40	\$86.80
Connector Taxiway to AP	TW CONN	205	WEATH/RAVEL	L	Surface Seal - Rejuvenating	1,120.00	SqFt	\$0.40	\$448.00

Table E-1: Year 1 Maintenance Activities (Continued)

Branch Name	Branch ID	Section ID	Distress Description	Distress Severity	Work Description	Work Quantity	Work Unit	Unit Cost	Work Cost
Connector Taxiway to AP	TW CONN	205	WEATH/RAVEL	Н	Microsurfacing - AC	154.00	SqFt	\$0.65	\$100.10
Connector Taxiway to AP	TW CONN	205	PATCHING	M	Patching - AC Deep	1,147.20	SqFt	\$4.90	\$5,621.43
Connector Taxiway to AP	TW CONN	210	WEATH/RAVEL	L	Surface Seal - Rejuvenating	13,668.10	SqFt	\$0.40	\$5,467.28
Connector Taxiway to AP	TW CONN	210	WEATH/RAVEL	M	Surface Seal - Coat Tar	7,526.50	SqFt	\$0.40	\$3,010.62
Connector Taxiway to AP	TW CONN	210	WEATH/RAVEL	Н	Microsurfacing - AC	30.10	SqFt	\$0.65	\$19.57
Parallel Taxiway to RW 9-27	TW PARALL	105	WEATH/RAVEL	L	Surface Seal - Rejuvenating	84.90	SqFt	\$0.40	\$33.96
Parallel Taxiway to RW 9-27	TW PARALL	107	WEATH/RAVEL	L	Surface Seal - Rejuvenating	52.20	SqFt	\$0.40	\$20.89
Parallel Taxiway to RW 9-27	TW PARALL	109	WEATH/RAVEL	L	Surface Seal - Rejuvenating	243.80	SqFt	\$0.40	\$97.50
Parallel Taxiway to RW 9-27	TW PARALL	109	WEATH/RAVEL	M	Surface Seal - Coat Tar	36.60	SqFt	\$0.40	\$14.63
Parallel Taxiway to RW 9-27	TW PARALL	116	WEATH/RAVEL	L	Surface Seal - Rejuvenating	81.00	SqFt	\$0.40	\$32.40
Parallel Taxiway to RW 9-27	TW PARALL	118	WEATH/RAVEL	M	Surface Seal - Coat Tar	7,391.90	SqFt	\$0.40	\$2,956.80
Parallel Taxiway to RW 9-27	TW PARALL	119	WEATH/RAVEL	L	Surface Seal - Rejuvenating	115.00	SqFt	\$0.40	\$46.00
Parallel Taxiway to RW 9-27	TW PARALL	131	WEATH/RAVEL	L	Surface Seal - Rejuvenating	97.80	SqFt	\$0.40	\$39.11
		-		-			-	Total =	\$129,696.85

APPENDIX F

MAJOR M&R PLAN BY YEAR UNDER UNLIMITED FUNDING SCENARIO TABLE

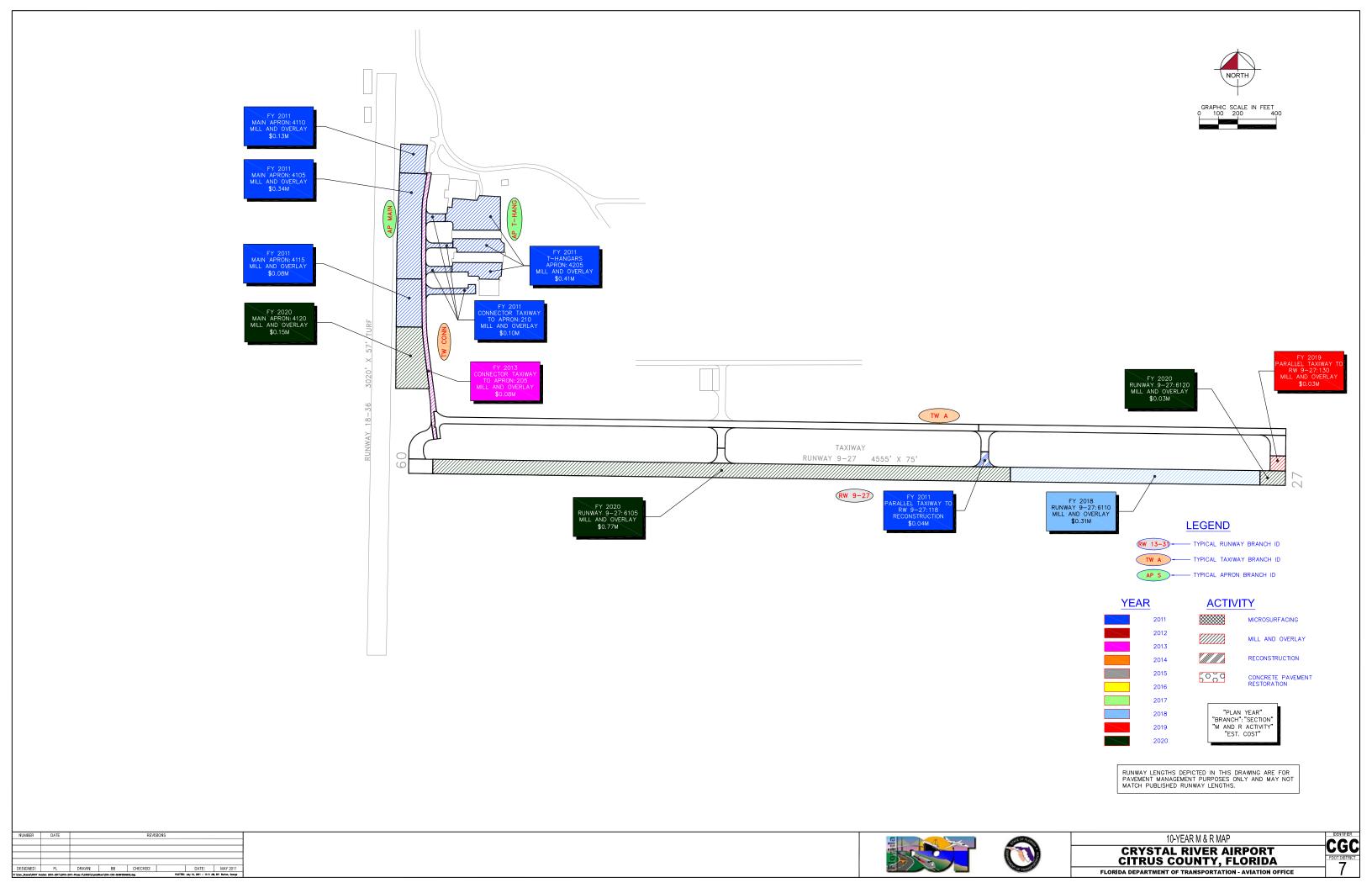
Table F-1: Major M&R Plan by Year under Unlimited Funding Scenario

Branch Name	Section ID	Surface Type	Section Area (ft²)	Major M&R Costs*	PCI Before M&R	M&R Activity	PCI After M&R
Main Apron	4105	AAC	70,275. SqFt	\$341,185.23	55	Mill and Overlay	100
Main Apron	4110	AC	20,051. SqFt	\$126,120.80	47	Mill and Overlay	100
Main Apron	4115	AC	33,130. SqFt	\$77,126.69	64	Mill and Overlay	100
T-Hangars Apron	4205	AC	79,853. SqFt	\$410,604.23	54	Mill and Overlay	100
Connector Taxiway to AP	210	AC	21,510. SqFt	\$98,257.72	56	Mill and Overlay	100
Parallel Taxiway to RW 9-27	118	AC	4,193. SqFt	\$35,594.39	37	Reconstruction	100
Connector Taxiway to AP	205	AC	30,554. SqFt	\$75,461.56	64	Mill and Overlay	100
Runway 9-27	6110	AC	97,261. SqFt	\$311,128.59	63	Mill and Overlay	100
Parallel Taxiway to RW 9-27	130	AC	9,203. SqFt	\$27,140.04	64	Mill and Overlay	100
Main Apron	4120	AC	48,929. SqFt	\$148,622.52	64	Mill and Overlay	100
Runway 9-27	6105	AC	225,605. SqFt	\$765,639.56	63	Mill and Overlay	100
Runway 9-27	6120	AC	9,913. SqFt	\$30,110.88	64	Mill and Overlay	100
		-	\$2,446,992.21	58		100	

^{*} Costs are adjusted for inflation.

APPENDIX G

10-YEAR M&R MAP



APPENDIX H

PHOTOGRAPHS



Main Apron, Section 4110, Sample Unit 198 – Low severity (45) Depression; low severity (49) Oil Spillage; low severity (50) Patching; low, medium and high severity (52) Weathering and Raveling.



Main Apron, Section 4110, Sample Unit 198 – Low severity (45) Depression; low severity (49) Oil Spillage; low severity (50) Patching; low, medium and high severity (52) Weathering and Raveling.



Main Apron, Section 4110, Sample Unit 198 – Low severity (45) Depression; low severity (49) Oil Spillage; low severity (50) Patching; low, medium and high severity (52) Weathering and Raveling.



Connector Taxiway to AP, Section 205, Sample Unit 103 – Low severity (45) Depression, low severity (48) Longitudinal and Transverse Cracking, medium severity (50) Patching, medium and high severity (52) Weathering and Raveling.



Runway 9-27, Section 6105, Sample Unit 146 – Low severity (48) Longitudinal and Transverse Cracking, low severity (50) Patching, low and medium severity (52) Weathering and Raveling.



Runway 9-27, Section 6110, Sample Unit 161 –Low severity (48) Longitudinal and Transverse Cracking, low and medium severity (52) Weathering and Raveling.

APPENDIX I

PCI RE-INSPECTION REPORT

Re-inspection Report

FDOT

Report Generated Date: 6/16/2011

Site Name:

Network: CGC Name: CRYSTAL RIVER AIRPORT

Branch: AP MAIN Name: MAIN APRON Use: APRON Area: 172,385.00SqFt

Section: 4105 of 4 From: - To: - Last Const.: 1/1/1998

125.00Ft

Surface: AAC Family: FDOT-GA-AP-AAC Zone: Category: Rank: P

Area: 70,275.00SqFt Length: 550.00Ft Width: Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date3/15/2011 Total Samples: 11 Surveyed: 2

Conditions: PCI:55.00 | Inspection Comments:

Sample Number: 204	Type: R	Area:	6,250.00SqFt		PCI = 54
Sample Comments:					
52 WEATH/RAVEL		m L	4,947.00	SqFt	Comments:
52 WEATH/RAVEL		M	1,300.00	SqFt	Comments:
52 WEATH/RAVEL		Н	3.00	SqFt	Comments:
50 PATCHING		L	1.00	SqFt	Comments:
49 OIL SPILLAGE		L	170.00	SqFt	Comments:
	_				
Sample Number: 207	Type: R	Area:	6,250.00SqFt		PCI = 57

Sample Mumber. 207	rypc. K	Aica.	0,230.003q11	1 C1 - 37
Sample Comments:				
52 WEATH/RAVEL		M	1,600.00	SqFt Comments:
49 OIL SPILLAGE		L	125.00	SqFt Comments:
50 PATCHING		L	1.75	SqFt Comments:
52 WEATH/RAVEL		L	4,650.00	SaFt Comments:

FDOT

Report Generated Date: 6/16/2011

Site Name:

Network: CGC Name: CRYSTAL RIVER AIRPORT

Branch: AP MAIN Name: MAIN APRON Use: APRON Area: 172,385.00SqFt

Section: 4110 of 4 From: - To: - Last Const.: 1/1/1998

130.00Ft

Surface: AC Family: FDOT-GA-AP-AC Zone: Category: Rank: P

Area: 20,051.00SqFt Length: 150.00Ft Width: Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date3/15/2011 Total Samples: 3 Surveyed: 1

Conditions: PCI:47.00 | Inspection Comments:

Sample Number: 198 Sample Comments:	Type: R	Area:	6,500.00SqFt		PCI = 47
52 WEATH/RAVEL		Н	100.00	SqFt	Comments:
50 PATCHING		L	0.50	SqFt	Comments:
52 WEATH/RAVEL		L	4,890.00	SqFt	Comments:
49 OIL SPILLAGE		L	115.00	SqFt	Comments:
45 DEPRESSION		L	20.00	SqFt	Comments:
52 WEATH/RAVEL		M	1,510.00	SqFt	Comments:

FDOT

Report Generated Date: 6/16/2011

Site Name:

Network: CGC Name: CRYSTAL RIVER AIRPORT

Branch: AP MAIN Name: MAIN APRON Use: APRON Area: 172,385.00SqFt

Section: 4115 of 4 From: - To: - Last Const.: 1/1/1998

130.00Ft

1.00 SqFt

Comments:

Surface: AC Family: FDOT-GA-AP-AC Zone: Category: Rank: P

Area: 33,130.00SqFt Length: 230.00Ft Width:

Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

50 PATCHING

Last Insp. Date3/15/2011 Total Samples: 5 Surveyed: 1

Conditions: PCI:64.00 | Inspection Comments:

Sample Number: 212 Type: R Area: 6,500.00SqFt PCI = 64Sample Comments: 5,500.00 SqFt 52 WEATH/RAVEL L Comments: 49 OIL SPILLAGE L 50.00 SqFt Comments: 52 WEATH/RAVEL 1,000.00 SqFt Μ Comments:

L

FDOT

Report Generated Date: 6/16/2011

Site Name:

Network: CGC Name: CRYSTAL RIVER AIRPORT

Use: APRON Branch: AP MAIN Name: MAIN APRON Area: 172,385.00SqFt

Section: 4120 of 4 From: -To: -Last Const.: 1/1/2005

387.00Ft

Comments:

Zone: Rank: P Surface: ACFamily: FDOT-GA-AP-AC Category:

Area: 48,929.00SqFt Length: 130.00Ft Width: Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date3/15/2011 Total Samples: 6 Surveyed: 2

Conditions: PCI:77.00 | Inspection Comments:

Sample Number: 217 Type: R Area: 6,500.00SqFt PCI = 82Sample Comments: 38.00 SqFt 52 WEATH/RAVEL Μ Comments: 52 WEATH/RAVEL L 750.00 SqFt Comments: 50 PATCHING 32.25 SqFt L Comments:

Sample Number: 221 PCI = 72Type: R Area: 6,500.00SqFt Sample Comments: 950.00 SqFt 52 WEATH/RAVEL L Comments: 49 OIL SPILLAGE L 2.00 SqFt Comments: 50 PATCHING L 32.25 SqFt Comments: 18.00 Ft 48 L & T CR L Comments: 52 WEATH/RAVEL 325.00 SqFt

Μ

FDOT

Report Generated Date: 6/16/2011

Site Name:

Network: CGC Name: CRYSTAL RIVER AIRPORT

Branch: AP T-HANG Name: T-HANGARS APRON Use: APRON Area: 79,853.00SqFt

To: -Section: 4205 of 1 From: -Last Const.: 1/1/1998

Surface: Family: FDOT-GA-AP-AC Zone: Category: Rank: T AC

Area: 79,853.00SqFt Length: 405.00Ft Width: 200.00Ft

Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Total Samples: 28 Surveyed: 3 Last Insp. Date3/15/2011

Conditions: PCI:54.00 | Inspection Comments:

Sample Number: 202 Type: R	Area:	3,000.00SqFt	PCI = 64
Sample Comments:	_	100 00 =	~
48 LONGITUDINAL/TRANSVERSE CRACKING	L	100.03 Ft	Comments:
49 OIL SPILLAGE	N	84.00 SqFt	Comments:
52 WEATHERING/RAVELING	L	2,999.98 SqFt	Comments:
Sample Number: 301 Type: R Sample Comments:	Area:	3,000.00SqFt	PCI = 33
48 LONGITUDINAL/TRANSVERSE CRACKING	L	160.04 Ft	Comments:
52 WEATHERING/RAVELING	M	564.00 SqFt	Comments:
·		-	
52 WEATHERING/RAVELING	L	2,163.98 SqFt	Comments:
52 WEATHERING/RAVELING	Н	290.00 SqFt	Comments:
Sample Number: 402 Type: R	Area:	5,000.00SqFt	PCI = 61
Sample Comments:			
48 LONGITUDINAL/TRANSVERSE CRACKING	L	188.05 Ft	Comments:
52 WEATHERING/RAVELING	L	3,999.97 SqFt	Comments:
52 WEATHERING/RAVELING	М	999.99 SqFt	Comments:

FDOT

Report Generated Date: 6/16/2011

Site Name:

Network: CGC Name: CRYSTAL RIVER AIRPORT Branch: RW 9-27 Name: RUNWAY 9-27 Use: RUNWAY Area: 342,169.00SqFt Section: 4 To: -Last Const.: 1/1/2001 6105 of From: -Surface: Family: FDOT-GA-RW-AC Zone: Category: Rank: P ACArea: 225,605.00SqFt Length: 3,000.00Ft Width: 75.00Ft Shoulder: Street Type: Grade: 0.00 Lanes: 0 Section Comments: Last Insp. Date3/15/2011 Total Samples: 60 Surveyed: 12 Conditions: PCI:77.00 | Inspection Comments: 3,750.00SqFt PCI = 82Sample Number: 101 Type: R Area: Sample Comments: 48 L & T CR 55.00 Ft Comments: L 52 WEATH/RAVEL 250.00 SqFt L Comments: 52 WEATH/RAVEL Μ 25.00 SqFt Comments: Sample Number: 106 Type: R Area: 3,750.00SqFt PCI = 81Sample Comments: 52 WEATH/RAVEL Μ 150.00 SaFt Comments: 52 WEATH/RAVEL L 400.00 SqFt Comments: Sample Number: 111 Type: R Area: 3,750.00SqFt PCI = 82Sample Comments: 52 WEATH/RAVEL 700.00 SaFt Comments: L 48 L & T CR L 51.00 Ft Comments: Sample Number: 116 Area: PCI = 85Type: R 3,750.00SqFt Sample Comments: 48 L & T CR L 6.00 Ft Comments: 52 WEATH/RAVEL L 576.00 SqFt Comments: Type: R Sample Number: 121 Area: 3,750.00SqFt PCI = 85Sample Comments: 450.00 SqFt 52 WEATH/RAVEL L Comments: 48 L & T CR L 26.00 Ft Comments: PCI = 78Sample Number: 126 Type: R Area: 3,750.00SqFt Sample Comments: 48 L & T CR L 99.00 Ft Comments: 52 WEATH/RAVEL L 1,250.00 SqFt Comments: Sample Number: 131 Type: R PCI = 80Area: 3,750.00SqFt Sample Comments: 48 L & T CR \mathbf{L} 141.00 Ft Comments: 52 WEATH/RAVEL L 950.00 SqFt Comments: PCI = 88Sample Number: 136 Type: R Area: 3,750.00SqFt Sample Comments: 52 WEATH/RAVEL 200.00 SqFt Comments: L L 48 L & T CR 50.00 Ft Comments: PCI = 68Sample Number: 141 Type: R Area: 3,750.00SqFt Sample Comments: 48 L & T CR L 55.00 Ft Comments:

FDOT

Report Generated Date: 6/16/2011

Site Name:

52 WEATH/RAVEL 52 WEATH/RAVEL		M L	450.00 800.00	-	omments:
Sample Number: 146 Sample Comments:	Type: R	Area:	3,750.00SqFt	PCI =	65
52 WEATH/RAVEL		L	550.00	SqFt Co	omments:
52 WEATH/RAVEL		M	150.00		omments:
48 L & T CR		L	125.00	Ft Co	omments:
50 PATCHING		L	750.00	SqFt Co	omments:
Sample Number: 151 Sample Comments:	Type: R	Area:	3,750.00SqFt	PCI =	71
56 SWELLING		L	8.00	SqFt Co	omments:
52 WEATH/RAVEL		L	750.00	SqFt Co	omments:
48 L & T CR		L	46.00	Ft Co	omments:
52 WEATH/RAVEL		М	250.00	SqFt Co	omments:
Sample Number: 156 Sample Comments:	Type: R	Area:	3,750.00SqFt	PCI =	63
52 WEATH/RAVEL		L	500.00	SaFt Co	omments:
56 SWELLING		L	5.00		omments:
52 WEATH/RAVEL		М	600.00		omments:
48 L & T CR		L	56.00		omments:

FDOT

Report Generated Date: 6/16/2011

Site Name:

Sample Comments: 52 WEATH/RAVEL

48 L & T CR

52 WEATH/RAVEL

Network: CGC Name: CRYSTAL RIVER AIRPORT Use: RUNWAY Branch: RW 9-27 Name: RUNWAY 9-27 Area: 342,169.00SqFt Section: 6110 of 4 From: -To: -Last Const.: 1/1/2001 Surface: Family: FDOT-GA-RW-AC Zone: Category: Rank: P ACArea: 97,261.00SqFt Length: 1,300.00Ft Width: 75.00Ft Shoulder: Street Type: Grade: 0.00 Lanes: 0 Section Comments: Last Insp. Date3/15/2011 Total Samples: 26 Surveyed: 5 Conditions: PCI:74.00 | Inspection Comments: Sample Number: 161 Type: R 3,750.00SqFt PCI = 70Area: Sample Comments: 48 L & T CR L 28.00 Ft Comments: 52 WEATH/RAVEL L 700.00 SqFt Comments: 350.00 SqFt 52 WEATH/RAVEL Μ Comments: PCI = 75Sample Number: 166 Type: R Area: 3,750.00SqFt Sample Comments: 52 WEATH/RAVEL L 1,400.00 SqFt Comments: 56 SWELLING L 10.00 SqFt Comments: 52 WEATH/RAVEL Μ 150.00 SqFt Comments: PCI = 76Sample Number: 171 Type: R Area: 3,750.00SqFt Sample Comments: 52 WEATH/RAVEL L 1,000.00 SqFt Comments: 100.00 SqFt 52 WEATH/RAVEL Μ Comments: 48 L & T CR L 13.00 Ft Comments: PCI = 73Sample Number: 176 Type: R Area: 3,750.00SqFt Sample Comments: 52 WEATH/RAVEL Μ 100.00 SqFt Comments: 52 WEATH/RAVEL 1,450.00 SqFt Comments: L 48 L & T CR L 13.00 Ft Comments: Sample Number: 181 Type: R Area: 3,750.00SqFt PCI = 76

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750.00 SqFt

50.00 SqFt

50.00 Ft

Comments:

Comments:

Comments:

FDOT

Report Generated Date: 6/16/2011

Site Name:

Network: CGC Name: CRYSTAL RIVER AIRPORT

Branch: RW 9-27 Name: RUNWAY 9-27 Use: RUNWAY Area: 342,169.00SqFt

Section: 6115 of 4 From: - To: - Last Const.: 1/1/2001

75.00Ft

Surface: AC Family: FDOT-GA-RW-AC Zone: Category: Rank: P

Area: 9,390.00SqFt Length: 120.00Ft Width: Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date3/15/2011 Total Samples: 3 Surveyed: 1

Conditions: PCI:82.00 | Inspection Comments:

Sample Number: 98 Type: R Area: 3,750.00SqFt PCI = 82

Sample Comments:

48 L & T CR L 90.00 Ft Comments: 52 WEATH/RAVEL M 50.00 SqFt Comments: 52 WEATH/RAVEL L 75.00 SqFt Comments:

FDOT

Report Generated Date: 6/16/2011

Site Name:

Network: CGC Name: CRYSTAL RIVER AIRPORT

Branch: RW 9-27 Name: RUNWAY 9-27 Use: RUNWAY Area: 342,169.00SqFt

Section: 6120 of 4 From: - To: - Last Const.: 1/1/2001

75.00Ft

Surface: AC Family: FDOT-GA-RW-AC Zone: Category: Rank: P

Area: 9,913.00SqFt Length: 135.00Ft Width:

Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date3/15/2011 Total Samples: 3 Surveyed: 1

Conditions: PCI:78.00 | Inspection Comments:

Sample Number: 187 Type: R Area: 3,750.00SqFt PCI = 78

Sample Comments:

52 WEATH/RAVEL L 1,300.00 SqFt Comments: 48 L & T CR L 23.00 Ft Comments:

FDOT

Report Generated Date: 6/16/2011

Site Name:

Network: CGC Name: CRYSTAL RIVER AIRPORT

Branch: TW CONN Name: CONNECTOR TAXIWAY TO AP Use: TAXIWAY Area: 52,064.00SqFt

Section: 205 of 2 From: - To: - Last Const.: 1/1/1965

22.00Ft

Surface: AC Family: FDOT-GA-TW-AC Zone: Category: Rank: P

Area: 30,554.00SqFt Length: 1,400.00Ft Width:

Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date3/15/2011 Total Samples: 7 Surveyed: 2

Conditions: PCI:68.00 | Inspection Comments:

Sample Number: 101 Sample Comments:	Type: R	Area:	4,400.00SqFt	PCI = 78
52 WEATH/RAVEL		L	320.00	SqFt Comments:
56 SWELLING		L	56.00	SqFt Comments:
48 L & T CR		L	116.00	Ft Comments:
52 WEATH/RAVEL		M	2.00	SqFt Comments:

Sample Number: 103 Sample Comments:	Type: R	Area:	4,400.00SqFt	PCI = 58
45 DEPRESSION		L	122.00	SqFt Comments:
48 L & T CR		L	43.00	Ft Comments:
52 WEATH/RAVEL		M	60.00	SqFt Comments:
50 PATCHING		M	290.00	SqFt Comments:
52 WEATH/RAVEL		Н	44.00	SqFt Comments:

30.00Ft

Last Const.: 1/1/1997

FDOT

Report Generated Date: 6/16/2011

Site Name:

Network: CGC Name: CRYSTAL RIVER AIRPORT

Branch: TW CONN Name: CONNECTOR TAXIWAY TO AP Use: TAXIWAY Area: 52,064.00SqFt

Section: 210 of 2 From: - To: -

Surface: AC Family: FDOT-GA-TW-AC Zone: Category: Rank: P

Area: 21,510.00SqFt Length: 600.00Ft Width:

Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date3/15/2011 Total Samples: 5 Surveyed: 2

Conditions: PCI:57.00 | Inspection Comments:

Sample Number: 101 Type: R Area: 3,000.00SqFt PCI = 48

Sample Comments:

52 WEATH/RAVEL M 1,500.00 SqFt Comments: 52 WEATH/RAVEL H 10.00 SqFt Comments: 52 WEATH/RAVEL L 1,490.00 SqFt Comments:

Sample Number: 300 Type: R Area: 4,080.00SqFt PCI = 64

Sample Comments:

52 WEATH/RAVEL L 3,050.00 SqFt Comments: 52 WEATH/RAVEL M 1,000.00 SqFt Comments:

35.00Ft

Last Const.: 1/1/2009

FDOT

Report Generated Date: 6/16/2011

Site Name:

Network: CGC Name: CRYSTAL RIVER AIRPORT

Branch: TW PARALL Name: PARALLEL TAXIWAY TO RW 9- Use: TAXIWAY Area: 204,188.00SqFt

Section: 105 of 9 From: - To: -

Surface: AC Family: FDOT-GA-TW-AC Zone: Category: Rank: T

Area: 101,370.00SqFt Length: 2,825.00Ft Width: Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date3/15/2011 Total Samples: 19 Surveyed: 3

Conditions: PCI:98.00 |

Inspection Comments:

Sample Number: 100 Type: R Area: 4,550.00SqFt PCI = 97

Sample Comments:

50 PATCHING L 0.50 SqFt Comments: 52 WEATH/RAVEL L 14.00 SqFt Comments:

Sample Number: 105 Type: R Area: 7,000.00SqFt PCI = 97

Sample Comments:
50 PATCHING L 1.25 SqFt Comments:

52 WEATH/RAVEL L 10.00 SqFt Comments:

Sample Number: 111 Type: R Area: 7,000.00SqFt PCI = 99

Sample Comments:

52 WEATH/RAVEL L 1.00 SqFt Comments:

Last Const.: 1/1/2009

FDOT

Report Generated Date: 6/16/2011

Site Name:

Network: CGC Name: CRYSTAL RIVER AIRPORT

Branch: TW PARALL Name: PARALLEL TAXIWAY TO RW 9- Use: TAXIWAY Area: 204,188.00SqFt

Section: 107 of 9 From: - To: -

Surface: AC Family: FDOT-GA-TW-AC Zone: Category: Rank: P

Area: 55,857.00SqFt Length: 1,600.00Ft Width: 35.00Ft

Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date3/15/2011 Total Samples: 11 Surveyed: 2

Conditions: PCI:98.00 |

Inspection Comments:

Sample Number: 115 Type: R Area: 7,000.00SqFt PCI = 99

Sample Comments:

52 WEATH/RAVEL L 0.25 SqFt Comments:

Sample Number: 120 Type: R Area: 7,000.00SqFt PCI = 97

Sample Comments:

50 PATCHING L 1.00 SqFt Comments: 52 WEATH/RAVEL L 16.00 SqFt Comments:

65.00Ft

Last Const.: 1/1/2001

FDOT

Report Generated Date: 6/16/2011

Site Name:

Network: CGC Name: CRYSTAL RIVER AIRPORT

Branch: TW PARALL Name: PARALLEL TAXIWAY TO RW 9- Use: TAXIWAY Area: 204,188.00SqFt

Section: 109 of 9 From: - To: -

Surface: AC Family: FDOT-GA-TW-AC Zone: Category: Rank: P

Area: 12,400.00SqFt Length: 188.00Ft Width:

Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date3/15/2011 Total Samples: 3 Surveyed: 1

Conditions: PCI:87.00 | Inspection Comments:

Sample Number: 200 Type: R Area: 4,365.00SqFt PCI = 87

Sample Comments:

52 WEATH/RAVEL L 140.00 SqFt Comments: 56 SWELLING L 16.00 SqFt Comments: 52 WEATH/RAVEL M 21.00 SqFt Comments:

40.00Ft

FDOT

Report Generated Date: 6/16/2011

Site Name:

Network: CGC Name: CRYSTAL RIVER AIRPORT

Branch: TW PARALL Name: PARALLEL TAXIWAY TO RW 9- Use: TAXIWAY Area: 204,188.00SqFt

Section: 115 of 9 From: - To: - Last Const.: 1/1/1965

Surface: AC Family: FDOT-GA-TW-AC Zone: Category: Rank: P

Area: 5,353.00SqFt Length: 103.00Ft Width: Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date3/15/2011 Total Samples: 1 Surveyed: 1

Conditions: PCI:87.00 | Inspection Comments:

Sample Number: 100 Type: R Area: 2,800.00SqFt PCI = 87

Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING L 114.03 Ft Comments:

Last Const.: 1/1/2009

FDOT

Report Generated Date: 6/16/2011

Site Name:

Network: CGC Name: CRYSTAL RIVER AIRPORT

Branch: TW PARALL Name: PARALLEL TAXIWAY TO RW 9- Use: TAXIWAY Area: 204,188.00SqFt

Section: 116 of 9 From: - To: -

Surface: AC Family: FDOT-GA-TW-AC Zone: Category: Rank: T

Area: 4,194.00SqFt Length: 80.00Ft Width: 40.00Ft

Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date3/15/2011 Total Samples: 1 Surveyed: 1

Conditions: PCI:96.00 | Inspection Comments:

Sample Number: 100 Type: R Area: 4,194.00SqFt PCI = 96

Sample Comments:

52 WEATHERING/RAVELING L 81.00 SqFt Comments:

FDOT

Report Generated Date: 6/16/2011

Site Name:

Network: CGC Name: CRYSTAL RIVER AIRPORT

Branch: TW PARALL Name: PARALLEL TAXIWAY TO RW 9- Use: TAXIWAY Area: 204,188.00SqFt

Section: 118 of 9 From: - To: - Last Const.: 1/1/2001

Surface: AC Family: FDOT-GA-TW-AC Zone: Category: Rank: P

Area: 4,193.00SqFt Length: 80.00Ft Width: 40.00Ft

Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date3/15/2011 Total Samples: 1 Surveyed: 1

Conditions: PCI:38.00 | Inspection Comments:

Sample Number: 100 Type: R Area: 2,800.00SqFt PCI = 38

Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING L 211.05 Ft Comments: 52 WEATHERING/RAVELING M 2,799.98 SqFt Comments:

Last Const.: 1/1/2009

FDOT

Report Generated Date: 6/16/2011

Site Name:

Network: CGC Name: CRYSTAL RIVER AIRPORT

Branch: TW PARALL Name: PARALLEL TAXIWAY TO RW 9- Use: TAXIWAY Area: 204,188.00SqFt

Section: 119 of 9 From: - To: -

Surface: AC Family: FDOT-GA-TW-AC Zone: Category: Rank: P

Area: 5,353.00SqFt Length: 103.00Ft Width: 40.00Ft

Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date3/15/2011 Total Samples: 1 Surveyed: 1

Conditions: PCI:96.00 | Inspection Comments:

Sample Number: 100 Type: R Area: 5,353.00SqFt PCI = 96

Sample Comments:

52 WEATHERING/RAVELING L 115.00 SqFt Comments:

75.00Ft

FDOT

Report Generated Date: 6/16/2011

Site Name:

Network: CGC Name: CRYSTAL RIVER AIRPORT

Branch: TW PARALL Name: PARALLEL TAXIWAY TO RW 9- Use: TAXIWAY Area: 204,188.00SqFt

Section: 130 of 9 From: - To: - Last Const.: 1/1/2001

Surface: AC Family: FDOT-GA-TW-AC Zone: Category: Rank: P

Area: 9,203.00SqFt Length: 107.00Ft Width: Shoulder: Street Type: Grade: 0.00 Lanes: 0

Shoulder: Street Type: Grade Section Comments:

Last Insp. Date10/24/2006 Total Samples: 1 Surveyed: 1

Conditions: PCI:86.00 | Inspection Comments:

Sample Number: 123 Type: R Area: 3,440.00SqFt PCI = 86

Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING L 160.04 Ft Comments:

Last Const.: 1/1/2009

FDOT

Report Generated Date: 6/16/2011

Site Name:

Network: CGC Name: CRYSTAL RIVER AIRPORT

Branch: TW PARALL Name: PARALLEL TAXIWAY TO RW 9- Use: TAXIWAY Area: 204,188.00SqFt

Section: 131 of 9 From: - To: -

Surface: AC Family: FDOT-GA-TW-AC Zone: Category: Rank: P

Area: 6,265.00SqFt Length: 75.00Ft Width: 75.00Ft

Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date3/15/2011 Total Samples: 2 Surveyed: 1

Conditions: PCI:92.00 | Inspection Comments:

Sample Number: 123 Type: R Area: 4,500.00SqFt PCI = 92

Sample Comments:

52 WEATH/RAVEL L 100.00 SqFt Comments: 50 PATCHING L 0.75 SqFt Comments: 49 OIL SPILLAGE L 1.00 SqFt Comments: