



2021

Statewide Airfield Pavement Management Program



Airport Pavement Evaluation Report

INF - Inverness Airport | District 7



Florida Department of Transportation

Statewide Airfield Pavement Management Program

Airport Pavement Evaluation Report

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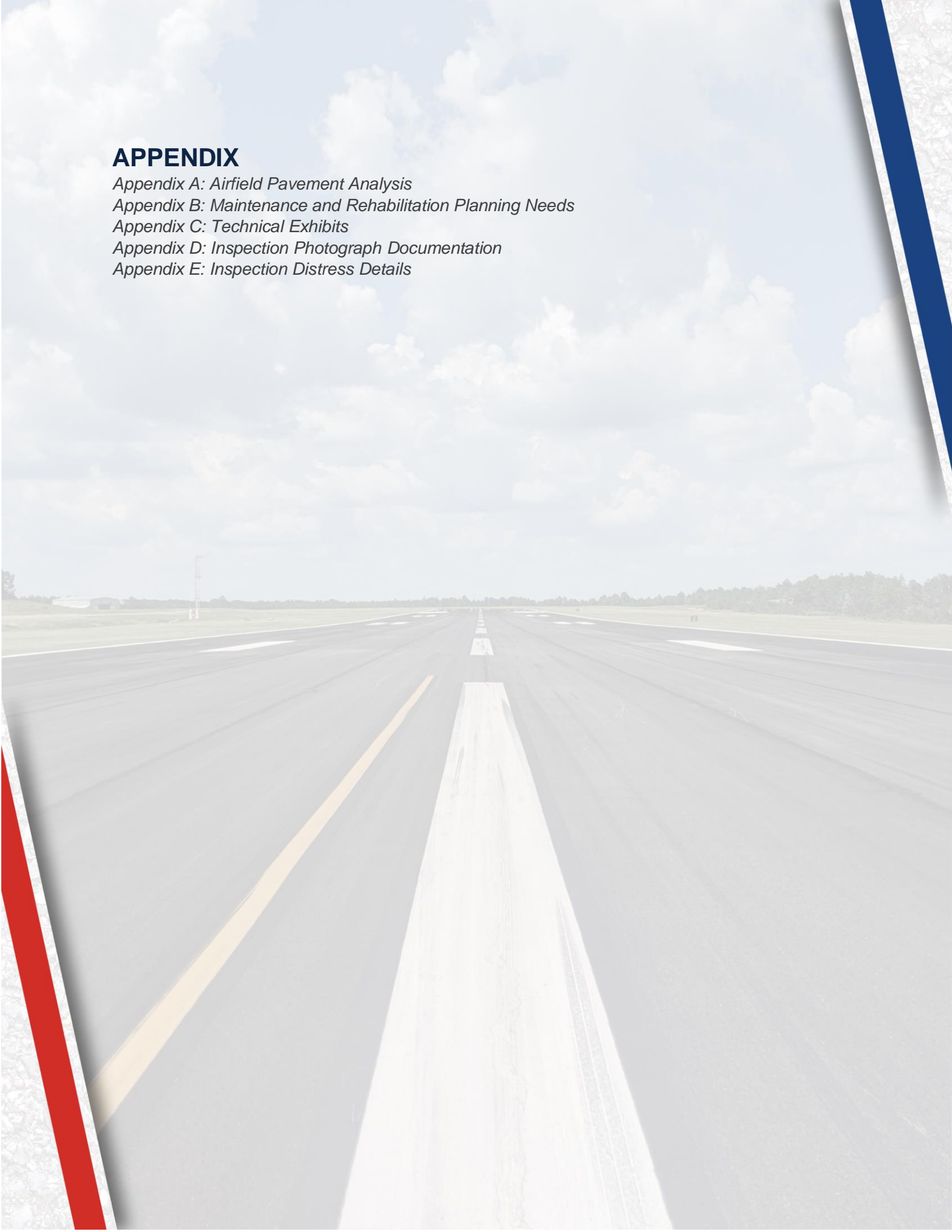
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Executive Summary



Executive Summary

Program Background

The FDOT Aviation Office (AO) has a mission to provide a safe and secure air transportation system that ensures the mobility of people and goods, enhances economic prosperity, and preserves the quality of our environment and communities. As part of ongoing efforts in fulfilling this mission, the Aviation Office is executing a System Update to the Statewide Airfield Pavement Management Program (SAPMP). This work is to be completed from fiscal year 2020 through fiscal year 2021. The scope of the SAPMP encompasses 95 public-use airport facilities distributed throughout the seven (7) participating FDOT Districts. Inverness Airport's System Update results are presented in this report and can be utilized by FDOT and the Federal Aviation Administration (FAA) to identify, prioritize, and schedule pavement maintenance, repair, and major rehabilitation projects.

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

The PCI methodology provides a means for systematically assessing pavement condition and provides an indication of the degree of maintenance, repair, rehabilitation, or reconstruction efforts required to sustain functional pavement conditions. Pavement deterioration, in accordance with ASTM D5340-12, is characterized in terms of distinct distress types, distress severity levels, and quantity of distress. This information is utilized to calculate a PCI value ranging from 0 to 100, which provides an indication of the overall condition of the pavement, with "100" indicating a pavement in new condition and "0" indicating a failed pavement section as graphically depicted in **Figure E.1**.

Figure E.1: PCI Rating

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

Current Pavement Conditions

In May 2020, approximately 1.0 million square feet of pavement was assessed as part of the airside pavement network PCI survey at Inverness Airport (INF). In general, airfield pavements at INF are in Satisfactory condition with an area-weighted PCI of 84. The area-weighted average PCI values of the runways, taxiways, taxilanes, and aprons are 86, 88, 61, and 83, respectively. **Figure E.2** and **Table E.1** summarize the current PCI values for INF.

Figure E.2: Latest Condition Summary – Branch-Level

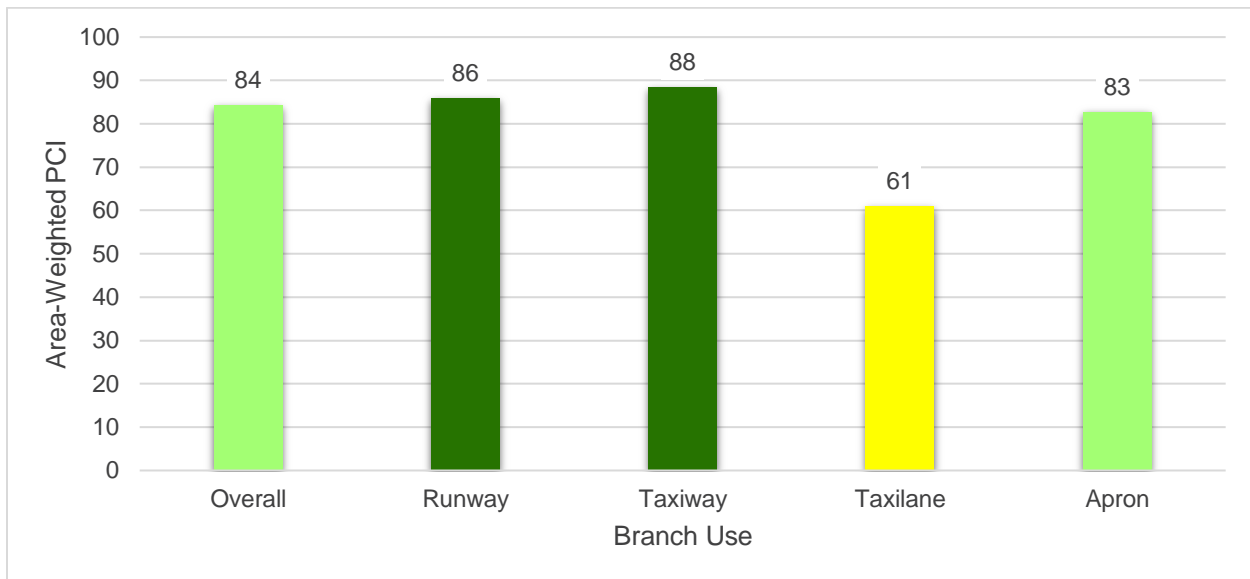


Table E.1: Pavement Condition Index Summary (Current PCI Survey) – Section Level

Network ID	Branch ID	Branch Use	Section ID	Area (SF)	PCI	Condition Rating
INF	RW 1-19	Runway	6105	375,075	86	Good
INF	TW A	Taxiway	105	173,773	89	Good
INF	TW A	Taxiway	110	7,298	90	Good
INF	TW A	Taxiway	130	11,520	89	Good
INF	TW A1	Taxiway	115	9,072	81	Satisfactory
INF	TW A2	Taxiway	120	9,072	86	Good
INF	TW A3	Taxiway	125	9,072	84	Satisfactory
INF	TL GA AP	Taxilane	205	40,628	61	Fair
INF	AP FBO	Apron	4205	73,563	87	Good
INF	AP FBO	Apron	4210	127,054	83	Satisfactory
INF	AP GA	Apron	4005	35,044	55	Poor
INF	AP GA	Apron	4015	26,880	86	Good
INF	AP GA	Apron	4020	72,207	88	Good
INF	AP T-HANG	Apron	4305	35,370	88	Good

Forecasted Pavement Conditions

Table E.2 provides section-level details for PCI forecasts. Pavement condition forecasts should be used for planning purposes only, as actual condition of sections is subject to the sensitivities in changes of traffic and maintenance frequency.

The estimation of forecasted PCI values gives no assurance of future pavement conditions as PCI values represent an engineering estimation to be used as a planning tool. Forecasted PCI data should not be the sole metric for determining the year in which a project should be planned. Design-level planning should be undertaken by the responsible engineer prior to the development of airfield design plans.

Table E.2: Forecasted PCI Values 2021-2030 – Section-Level

Network ID	Branch ID	Section ID	Current PCI	Forecasted PCI									
				2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
INF	RW 1-19	6105	86	85	83	81	80	78	77	75	74	73	72
INF	TW A	105	89	87	85	83	82	80	78	77	75	74	72
INF	TW A	110	90	88	86	84	82	81	79	77	76	74	73
INF	TW A	130	89	87	85	83	82	80	78	77	75	74	72
INF	TW A1	115	81	80	78	76	75	73	72	71	69	68	67
INF	TW A2	120	86	84	82	81	79	77	76	74	73	72	70
INF	TW A3	125	84	82	81	79	77	76	74	73	72	70	69
INF	TL GA AP	205	61	61	60	59	58	58	57	57	56	56	55
INF	AP FBO	4205	87	85	83	81	79	77	76	74	72	71	69
INF	AP FBO	4210	83	81	79	78	76	74	72	71	69	68	66
INF	AP GA	4005	55	54	54	53	52	51	50	50	49	48	47
INF	AP GA	4015	86	84	82	80	78	77	75	73	72	70	68
INF	AP GA	4020	88	86	84	82	80	78	76	75	73	71	70
INF	AP T-HANG	4305	88	86	84	82	80	78	76	75	73	71	70

Major Rehabilitation Planning 2021-2030

Localized maintenance and repair policies identified within this report are categorized as preventive or stopgap based on FDOT SAPMP and FAA maintenance policies and recommendations. Major rehabilitation is identified within the FDOT SAPMP as a major construction activity that results in a reset of a pavement section's PCI to a value of 100. Major rehabilitation activities can include mill and Asphalt Concrete (AC) overlay, Portland cement concrete (PCC) pavement repair and slab replacement, and full-depth reconstruction. It is recommended that the Airport use this report as a planning tool for future project development and prioritization. Localized maintenance, repair, and major rehabilitation recommendations should be considered as planning-level only. Final localized maintenance, repair, and major rehabilitation recommendations are subject to change based on Airport prioritization and further design-level evaluations.

Based on FAA Order 5100.38D Change 1 Airport Improvement Program (AIP) Handbook (February 26, 2019), a substantial update to the FDOT SAPMP policy on identifying major rehabilitation work has been incorporated in this System Update. In previous System Updates, major rehabilitation had been identified for pavement sections below a PCI Value of 65; based on the thresholds identified by the FAA in the AIP Handbook, major rehabilitation will be identified for pavement sections below a PCI value of 70.

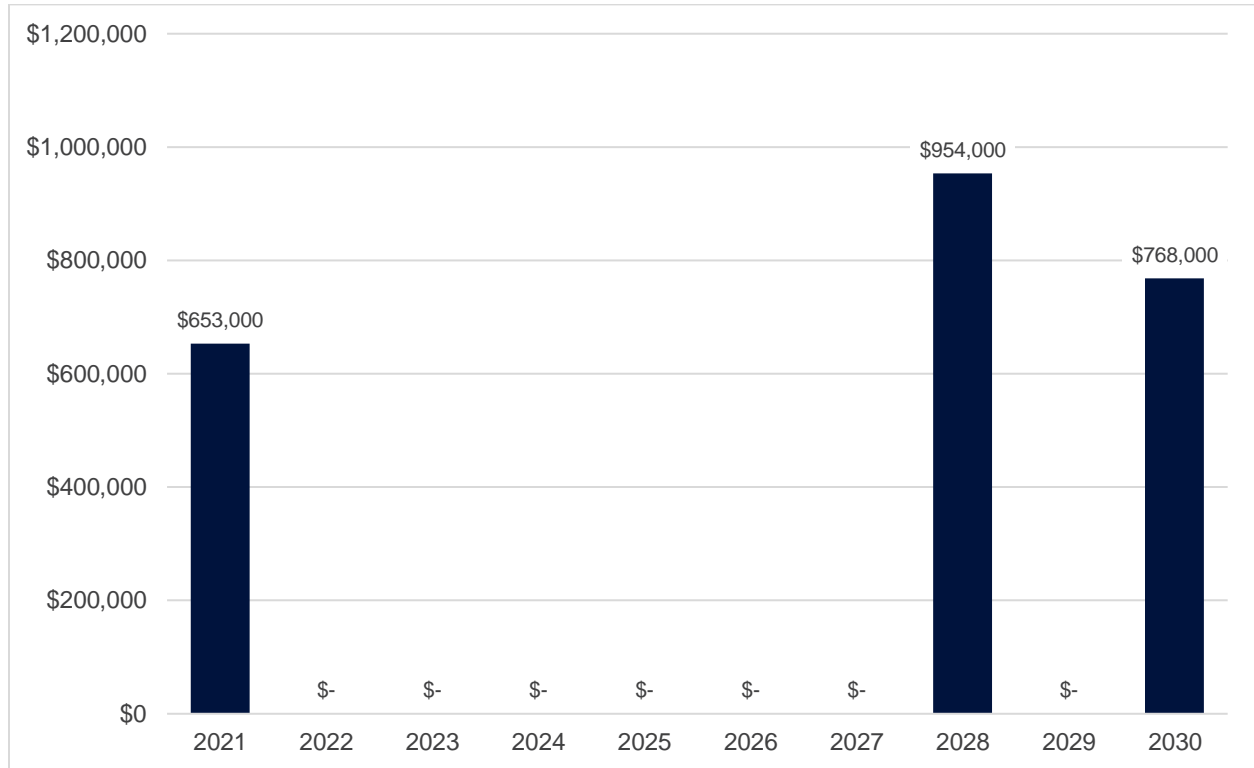
The results of the maintenance, repair, and major rehabilitation analysis identified approximately \$2.38M in major rehabilitation needs for the 10-year forecast period. Year 1 major needs are \$0.65M and localized maintenance needs for Year 1 are \$3K.

Table E.3: Major Rehabilitation Planning 2021-2030

Program Year	Network ID	Branch ID	Section ID	Surface	Area (SF)	PCI Before	Rehabilitation Type	Planning Cost Estimate
2021	INF	TL GA AP	205	AC	40,628	61	AC Rehabilitation	\$ 285,000
2021	INF	AP GA	4005	AC	35,044	54	AC Reconstruction	\$ 368,000
2028	INF	TW A1	115	AC	9,072	69	AC Rehabilitation	\$ 64,000
2028	INF	AP FBO	4210	AC	127,054	69	AC Rehabilitation	\$ 890,000
2030	INF	TW A3	125	AC	9,072	69	AC Rehabilitation	\$ 64,000
2030	INF	AP FBO	4205	AC	73,563	69	AC Rehabilitation	\$ 515,000
2030	INF	AP GA	4015	AC	26,880	68	AC Rehabilitation	\$ 189,000

**All planning cost values have been rounded to the nearest thousand dollars.*

Figure E.3: Major Rehabilitation Planning Annual Budget 2021-2030





Chapter 1: Introduction



Chapter 1 – Introduction

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

1.1 Background

In 1992, the Florida Department of Transportation (FDOT) established the Statewide Airfield Pavement Management Program (SAPMP) to provide program managers, District Aviation Offices, and Airport operators with a system to proactively manage airfield pavement infrastructure within the FAS. The SAPMP includes network-level Pavement Condition Index (PCI) surveys for Airport facilities that are categorized as GA, Reliever (RL), and Commercial (PR). Currently, the SAPMP includes 95 participating public-use airports with pavement facilities and provides its users with comprehensive data to better manage their pavement assets.

There are millions of square feet of pavement infrastructure at airports across a network of runways, taxiways, aprons, and other areas. This pavement infrastructure is vital to the support and safety of aircraft operations. Timely maintenance, repair, and major rehabilitation of pavement infrastructure allows the Airport to operate safely, efficiently, and economically without excessive down time.

Airports participating in the Airport Improvement Program (AIP) Grant Program are required by the FAA to develop and implement a pavement maintenance program in order to be eligible for funding per FAA Advisory Circular 150/5380-6C "Guidelines and Procedures for Maintenance of Airport Pavements" and 150/5380-7B "Airport Pavement Management Program (PMP)". The AIP program requires detailed assessments of airfield pavements at least once a year for a pavement management program. The frequency of the detailed inspections may be extended to every three years if the pavement is assessed according to the PCI survey procedure described in ASTM D5340-12 "Standard Test Method for Airport Pavement Condition Index Surveys".

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

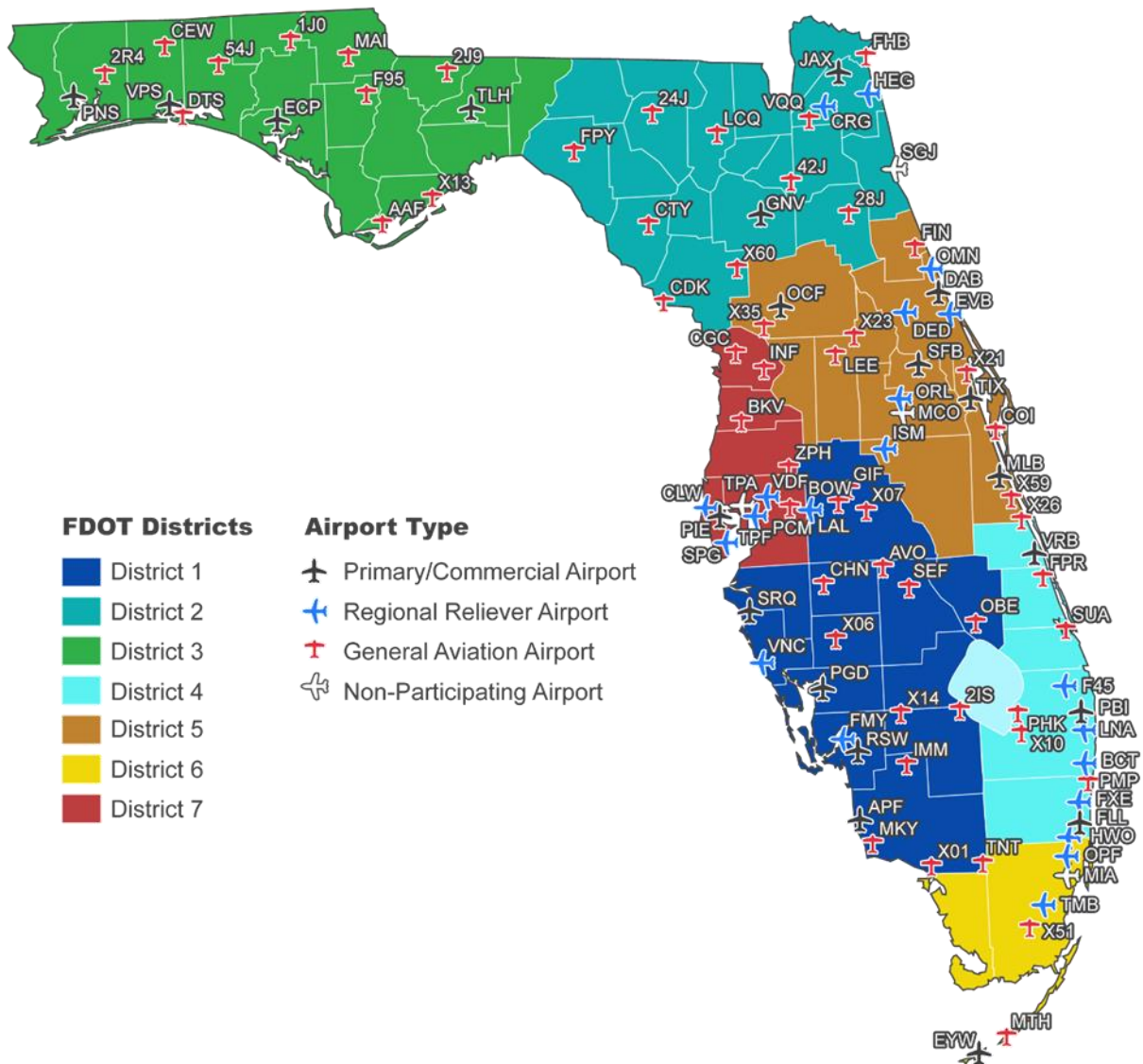
The SAPMP addresses the requirements of maintaining an effective pavement management program for participating airports at the network level. Network-level management of pavement assets provides insight for short-term and long-term budget needs, understanding of the overall condition of the network (current and future), and knowledge of the pavement facilities that are under consideration for projects. A network-level evaluation can support the identification of

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Statewide Airfield Pavement Management Program

maintenance, repair, and major rehabilitation needs and budgetary planning-level opinions of probable construction costs.

Figure 1.1: Florida Aviation System (Facilities with Pavement) and FDOT Districts



1.2 Stakeholders

Ultimately, the SAPMP is performed for the benefit of the stakeholders. The table below outlines the primary stakeholders of the FDOT SAPMP and their role in the program.

Table 1.2: FDOT SAPMP Stakeholders

Role	Description
FAA Orlando Airports District Office (Orlando ADO)	Key Stakeholder; local ADO Program Manager personnel that oversees the grant administration of AIP grant with Planning Agency Sponsor (Florida Department of Transportation).
Florida Department of Transportation (FDOT)	Key Stakeholder; the FDOT is the "Sponsor" for the AIP grant agreement. Specifically, the Aviation Office (AO) provides development and operations support for the Florida Airport System.
FDOT District Offices	The seven FDOT District Offices, specifically the Aviation representatives, provide essential support to the SAPMP System Update and the AO Program Manager (AO-PM). Each District supports the SAPMP's ongoing efforts by providing local construction cost information throughout the State, which is used as the basis of the development for maintenance, repair, and major rehabilitation opinions of probable construction costs for planning purposes.
Participating Public-Use and Publicly Owned Airports	The airports are the end-user and primary beneficiary of the SAPMP. The SAPMP provides a specific Airport Pavement Evaluation Report that meets the requirements of the FAA AC 150/5380-7B. Individual participating airports are provided a final Airport Pavement Evaluation Report by the Consultant that is specific to each airport's airfield PCI assessment.
Aviation Office Program Manager (AO-PM)	FDOT AO Airport Engineering Manager; oversees and manages the overall Program System Update.

1.3 General Scope of Work

The SAPMP is limited to performing tasks in the adherence to the key elements of an effective pavement management program on a statewide level. The primary tasks undertaken to update the FDOT SAPMP include, but are not limited to:

- » Research and evaluation of existing record documentation;
- » Establishment of a pavement system inventory;
- » Development of a pavement network definition map and supplemental GIS model;
- » Functional pavement evaluations via the PCI assessment method;
- » Customization of PAVER™ software including prioritization, policies, and performance models;
- » Analysis of condition data; and
- » Maintenance, repair, and rehabilitation planning.

1.4 FDOT SAPMP Objectives

The SAPMP enables the FDOT AO and FAA to monitor pavement conditions at airports in the Florida Airport System. The SAPMP provides objective condition information needed to make informed decisions regarding the significant capital investment the public-use airport pavement infrastructure represents.

Airport staff are responsible for making decisions regarding the timing and type of maintenance and rehabilitation activities that should be completed in order to maintain an acceptable operational condition and adequate load-carrying capacity. Utilizing the SAPMP will help Airport staff better understand the relative condition of their pavement facilities and when those facilities should be rehabilitated. The data collected from the SAPMP can be used for project programming for the next 10 years. This report summarizes the data collection, analysis, program update, and implementation of the FDOT SAPMP.

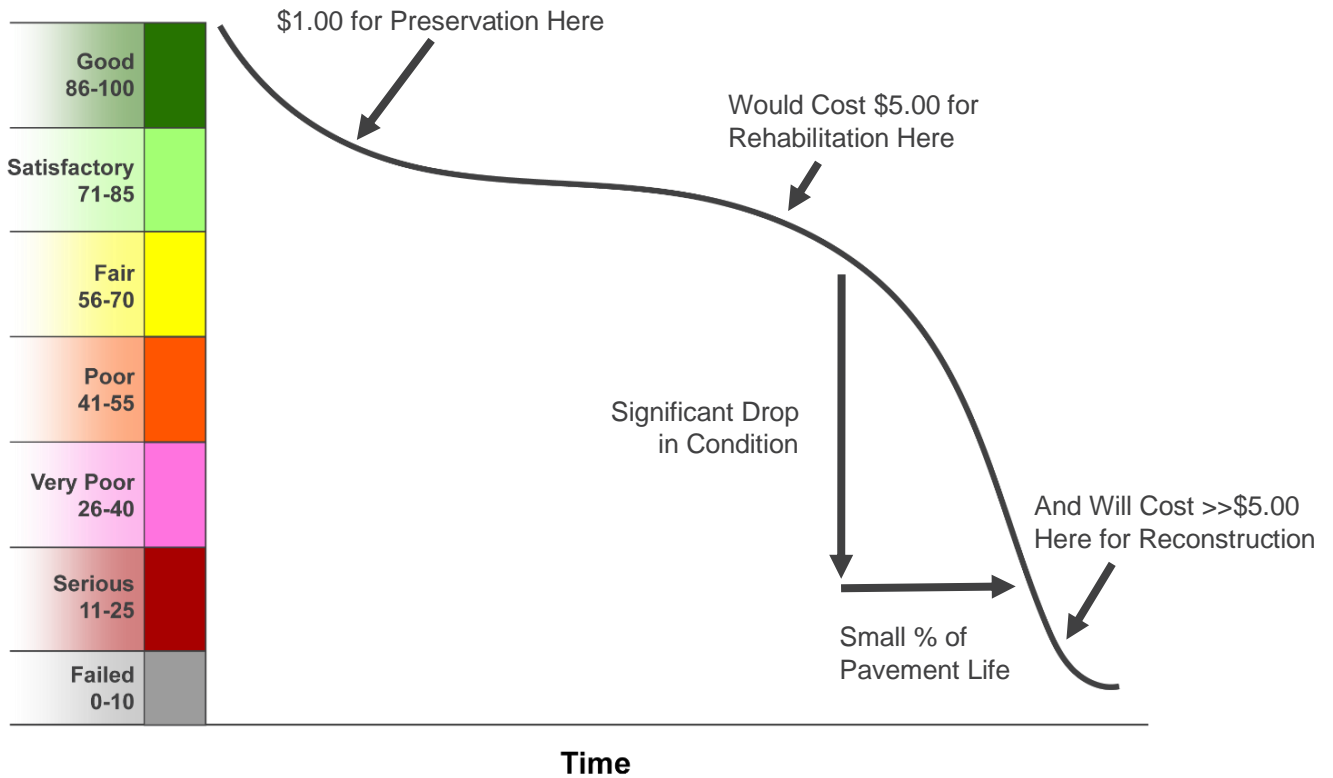
A comprehensive SAPMP provides information that assists with the project programming process. The primary objectives of the FDOT SAPMP consist of the following:

- » Assist airports in meeting the requirements of Public Law 103-305;
- » Assist airports in complying with FAA Grant Assurances 11 and 19;
- » Provide airports with functional pavement condition in accordance with ASTM D5340-12 (current) and with the FAA AC 150/5380-7B (current) based on visual assessment efforts;
- » Provide airports with planning-level guidance on maintenance, repair, and rehabilitation in accordance with the FAA AC 150/5380-6C (current) based on pavement conditions and distress data in terms of type, severity, and extent; and
- » Provide airports, FDOT Districts, FDOT AO, and the FAA Airports District Office with long-term, planning-level forecasts of pavement performance and rehabilitation budgetary needs (e.g., maintenance, repair, and major reconstruction) through reports.

From a pavement management perspective, one of the most valuable aspects of the PCI methodology is the ability to save money by effectively prioritizing the rehabilitation of pavement assets that have reached critical condition. Critical PCI values are assigned to deterioration models for pavement assets based on their respective use and rank. The concept of critical PCI will be further discussed in **Chapter 5**, but it is used as a benchmark to help identify pavement assets that should receive rehabilitation. In doing so, the PCI methodology can help create a proactive maintenance and rehabilitation (M&R) strategy to effectively address pavement projects before the cost of these projects increases significantly.

With M&R costs escalating over time, the consequences of inadequate maintenance practices can result in an inefficient allocation of funding. If maintenance is conducted before a significant decline in pavement condition occurs, substantial repair and/or rehabilitation costs may be avoided or delayed. **Figure 1.4** illustrates how the cost of pavement repairs can significantly increase if M&R activities are delayed.

Figure 1.4: Typical Pavement Condition Life Cycle



**Figure is for conceptual purposes only – unit costs are not specific to airfield pavements.*



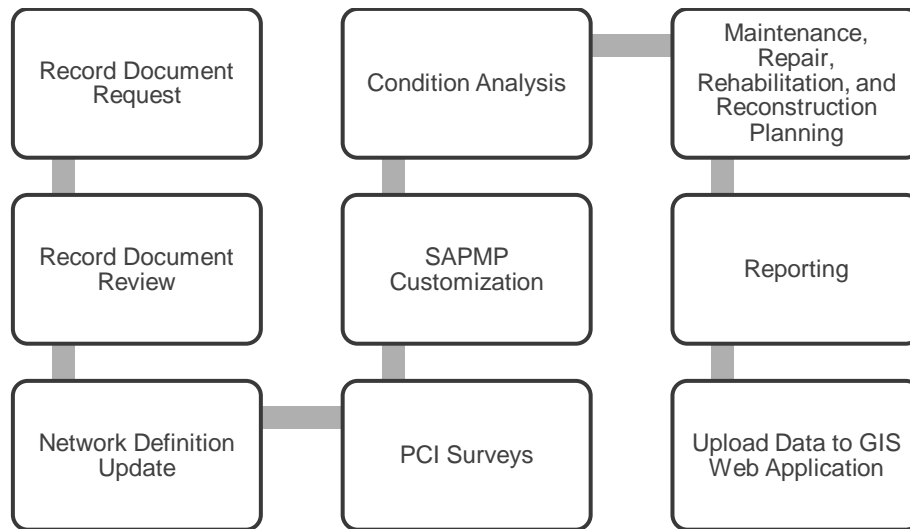
Chapter 2: Methodology



Chapter 2 – Methodology

An effective pavement management program incorporates both the regular collection of pavement condition information and communication of information to appropriate sponsors. This chapter of the report defines the specific methods utilized as part of the SAPMP System Update to meet the requirements of an effective pavement management system as defined by the FAA AC 150/5380-7B. **Figure 2** summarizes the overall process for the FDOT SAPMP.

Figure 2: FDOT SAPMP General Process



2.1 Airfield Pavement Database

This SAPMP utilizes PAVER™ 7.0 software as its airfield pavement database. The PAVER™ software application was developed by the U.S. Army Construction Engineering Research Laboratory and sponsored by the FAA, Federal Highway Administration, U.S. Army, U.S. Air Force, and U.S. Navy to meet the objectives of an effective pavement management system. The PAVER™ database includes a network-level inventory of the participating airport's eligible airfield pavement facilities. PAVER™ can achieve the following pavement management objectives:

- » Create a manageable inventory system;
- » Analyze the current condition of pavements in accordance with the ASTM D5340;
- » Develop pavement performance models to forecast conditions; and
- » Generate maintenance, repair, and major rehabilitation recommendations based on budgetary scenarios.

PAVER™ inventory management is based on a tiered organizational structure consisting of networks, branches, sections, and samples, with the sample being the smallest unit of management. Critical elements of an effective pavement management program are maintained within the network-level PAVER™ database and typically consist of pavement inventory

characteristics, pavement structure, work history, historic condition records, and analytical customization.

2.2 Airfield Pavement Record Keeping (Historical Records Research)

In accordance with the FAA AC 150/5380-7B, it is a best practice that airports maintain records of all airfield construction and maintenance related to the pavement facilities. An airport should maintain detailed records of maintenance (routine, emergency, and proactive) activities, which should consist of:

- » Location and limits of work;
- » Types and severities of repaired distresses;
- » Work type and cost; and
- » Supporting Documents (e.g., contract documents, construction drawings, specifications, bid tabulations, repair products, photograph records).

As part of the SAPMP, participating airport's staff was asked to provide documentation regarding the historical work performed at the Airport, including construction drawings and bid tabulations. This information is used to identify location, limits, type of work, pavement cross-sections, and representative material costs.

Updated historical data collected during this task was entered into the PAVER™ database. This database includes the following fields for historical information:

- » Date of last construction/rehabilitation
- » Work type performed
- » Comments for documenting pavement cross-section
- » Pavement surface type
- » Section area (limits of work)

The SAPMP PAVER™ database accuracy is limited to the record documentation provided by the participating airports. Airport Sponsors should rely on this information as a planning tool and defer to final as-built plans, record drawings, and/or engineer's construction report for pavement construction records.

2.3 Airfield Pavement Structure

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. A pavement structure is composed of constructed layers consisting of subgrade, subbase, base, structural, and surface courses. For the FDOT SAPMP, two (2) predominant pavement types are classified for evaluation and analysis: Asphalt Concrete (AC) and Portland cement concrete (PCC). Composite Structures, known as Whitetopping Pavements consisting of PCC on AC, are also present at limited airports in Florida and are evaluated separately.

Asphalt Concrete

Asphalt concrete is a pavement comprised of aggregate mixture with an asphalt cement binder. The FDOT SAPMP categorizes three (3) Asphalt Concrete surface types: Asphalt Concrete (AC), Asphalt Concrete overlaid on Asphalt Concrete (AAC), and Asphalt Concrete overlaid on Portland cement concrete (APC).

Asphalt Concrete (AC)

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

Asphalt Concrete Overlaid on Asphalt Concrete (AAC)

A flexible pavement section consisting of aggregate mixture with asphalt cement binder layered on an existing flexible AC pavement section. Airfield pavement sections are considered to be AAC when a pavement rehabilitation includes a pavement milling and resurfacing operation or a direct overlay of Asphalt Concrete without surface preparation.

Asphalt Concrete Overlaid on Portland Cement Concrete (APC)

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

Portland Cement Concrete

Portland cement concrete is a pavement comprised of aggregate mixture with a Portland cement binder. The FDOT SAPMP categorizes Portland cement concrete (PCC) as the primary rigid pavement section.

Portland Cement Concrete (PCC)

A rigid pavement section composed of Portland cement concrete placed on a granular or treated base course that is supported on a compacted subgrade. The concrete surface provides a texture of nonskid qualities, prevents the infiltration of surface water into the subgrade, and provides structural support for airplane loading. Rigid pavement construction requires the layout of appropriately designed joints. Concrete overlays built in accordance with the FAA Advisory Circular 150/5320-6F "Airport Pavement Design and Evaluation" are recognized as PCC pavement.

Composite Structure – Whitetopping Pavement

Whitetopping pavement is a composite pavement comprised of relatively thin PCC overlaid on an existing AC pavement structure. There are three (3) types of Whitetopping Pavements: Conventional (WHT), Thin (TWT), and Ultra-Thin (UTW).

Conventional Whitetopping (WHT)

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

Thin Whitetopping (TWT)

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

Ultra-Thin Whitetopping (UTW)

A composite pavement structure consisting of a modified PCC overlaid on an existing AC pavement section. The modified PCC layer is typically between 2 and 4 inches in thickness.

2.4 Airfield Pavement Traffic

A pavement section is typically designed to meet the needs of the user (airlines, air cargo, general aviation, and/or military) in providing a safe, smooth, operational surface. Pavement deterioration generally occurs gradually from aircraft loading and environmental conditions.

This System Update does not involve a study or analysis of INF's aircraft fleet mix or traffic operations. However, it is strongly recommended that the Airport incorporate the requirements of the FAA AC 150/5320-6F when developing design-level rehabilitation activities; this AC provides guidance on incorporation of aircraft traffic fleet mix data.

2.5 Pavement Management Program Network Definition Terminology

To facilitate an effective pavement management program, a pavement network must be established and subdivided into smaller, manageable working units called samples. Sectioning of the pavement network was established in a prior System Update and was revised during this SAPMP to account for work that has been performed on the airfield since the previous update. Information from historic records is used to help define the limits of the smaller working units. A critical input for a pavement inventory and network definition is the date of last major construction or rehabilitation, as this type of work will reset the PCI to a value of 100 and reestablish limits for the samples.

The following sections define the common terms used in pavement management systems and cover their application for this SAPMP System Update.

2.5.1 Pavement Network Identification

Establishing the pavement network is the first step in organizing pavements into a structure for pavement management. The network is the starting point of the hierarchy of pavement management organization. A network typically consists of one or more pavement *branches*, which have one or more pavement *sections*. For example, a network can be all the pavements within an Airport's airfield or all the pavements in a statewide program. For the FDOT SAPMP, a network represents an individual Airport's airfield pavement facilities maintained by the Airport.

2.5.2 Pavement Branch Identification

A pavement branch, also known as a facility, is a logical unit of generally identifiable pavement within a network that has a distinct functional classification. For example, within an airfield, each runway, taxiway, or apron is considered a branch. Each branch contains at least one section but may contain more if pavement feature characteristics are distinct throughout the branch.

2.5.3 Pavement Section Identification

A pavement section, or feature, is a subdivision of a branch and has consistent characteristics throughout its length or area. These characteristics include structural composition (pavement layer material type and thickness), construction history, age, traffic type, traffic frequency, and pavement condition. A section is the basic management unit of a pavement network and is the level at which maintenance, repair, or major rehabilitation treatments are considered.

2.5.4 Pavement Sample Unit Identification

A pavement sample unit is an arbitrarily defined subdivision of a pavement section that has a standard size range of 20 contiguous slabs (± 8 slabs) for PCC pavement and 5,000 contiguous square feet ($\pm 2,000$ SF) for AC. A sample unit is the smallest subdivision of a pavement network and is analyzed during field assessments to establish condition ratings.

2.5.5 Terminology Summary

Below is a summary table, **Table 2.5.5**, with definitions and examples of common SAPMP terminology.

Table 2.5.5: SAPMP Terminology

SAPMP Terminology	Common Definition	Airport Example
Network	Totality of pavement assets maintained by the Airport.	"Tallahassee International Airport – Airfield Pavements"
Branch Name	Commonly defined asset name as established by Airport and by use.	"Runway 18-36"
Branch ID	Codified shorthand name for commonly defined asset established for database identification.	"RW 18-36" RW, Branch Use, "Runway" "Runway 18-36", Runway Facility
Section ID	Codified identification for pavement asset that is distinct by pavement composition, work history, aircraft loading, or condition.	"6105"
Sample Unit	A numeric identification of an area of pavement (5,000 \pm 2,000 SF of AC or 20 \pm 8 slabs of PCC) that has been inspected in accordance with ASTM D5340-12.	"300"

2.6 Airfield PCI Survey Methodology

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

Overall, a visual pavement condition survey provides an indication of the cause and rate of deterioration of a pavement section from a functional point of view and can help identify if any underlying structural deficiencies are present. Although a visual PCI survey does not predict the remaining structural life of a pavement section or its ability to support loads, it does assess the rating of the operational surface. Functional condition, determined by the PCI method, can provide a cost-effective means to plan for pavement rehabilitation projects. Timely application of pavement rehabilitation may lead to the extension of functional life of individual pavement sections. This method varies from structural evaluation; functional condition is limited to visually observed distresses and indicative modes of pavement deterioration. A formal structural evaluation analyzes subsurface conditions, material characteristics, and qualitative pavement structure attributes. A structural evaluation may consist of subsurface geotechnical exploration, falling weight deflectometer testing, petrographic testing, material coring, and/or flexural testing.

2.6.1 Pavement Distress Types

For each sample, the severity and quantity of defined distresses are recorded and then analyzed in accordance with the ASTM D5340-12 standard, which identifies 17 AC distress types and 16 PCC distress types. **Tables 2.6.1 (a) and 2.6.1 (b)** identify these distresses and their common causes or mechanisms.

Table 2.6.1 (a): Pavement Distress Types – Asphalt Concrete

Distress Mechanism	Distress Type
Load	Alligator Cracking Rutting
Climate/Durability	Block Cracking Joint Reflection Cracking Longitudinal and Transverse Cracking (LT) Raveling Shoving Weathering
Construction/Material	Bleeding Corrugation Depression Polished Aggregate Slippage Cracking Swelling
Other	Jet Blast Erosion Oil Spillage Patching and Utility Cut Patching

Table 2.6.1 (b): Pavement Distress Types – Portland Cement Concrete

Distress Mechanism	Distress Type
Load	Corner Break Longitudinal, Transverse, and Diagonal Cracking (LTD) Pumping Shattered Slab/Intersecting Cracks
Climate/Durability	Blowup Durability "D" Cracking Joint Seal Damage Popouts
Construction/Material	Alkali Silica Reaction (ASR) Scaling Shrinkage Cracking
Other	Corner Spalling Joint Spalling Large Patching and Utility Cut Settlement or Faulting Small Patching

2.6.2 PCI Survey Procedures

PCI surveys are conducted on sample units defined in previous System Updates. Sample units are subject to change at the discretion of field personnel and/or to major pavement rehabilitation treatments. Furthermore, access to sample units based on accessibility or operational impacts may affect the overall sampling rate effort at each airport. **Tables 2.6.2 (a) and (b)** define the sampling criteria used by the FDOT SAPMP. A higher sampling rate may be utilized to achieve greater statistical confidence, should the Airport have the available resources to perform PCI survey independent of the FDOT SAPMP.


Table 2.6.2 (a): Recommended Sampling Rates for Asphalt Concrete

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


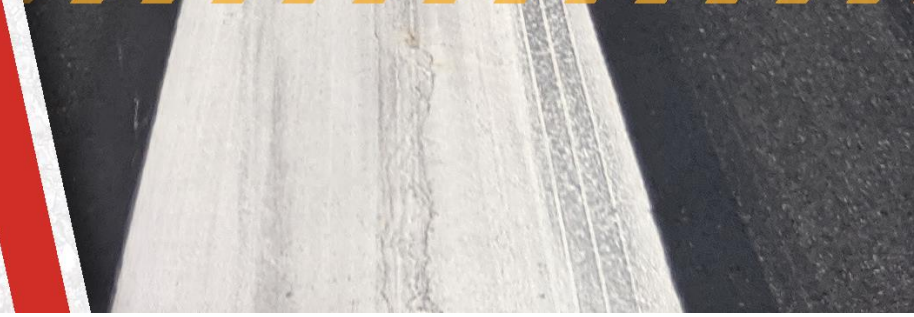
Table 2.6.2 (b): Recommended Sampling Rates for Portland Cement Concrete

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

The FDOT SAPMP is limited to select sample units for each section identified in each airport's Airfield Pavement Network Definition. The intent is to perform a limited amount of sample unit PCI survey to reasonably reflect the functional condition. Due to the limited sampling criteria, there may be instances of pavement distress and deterioration outside of the inspected sample units that were not observed.

A photograph of a long, straight airfield runway stretching towards the horizon under a bright blue sky with scattered white clouds. The runway is flanked by green grass. The image is framed by a red diagonal bar on the left and a blue diagonal bar on the right.

Chapter 3: Airfield Pavement System Inventory

A horizontal band of yellow chevron patterns pointing to the right, set against a dark background.A close-up, low-angle view of the runway pavement, showing the texture of the asphalt and the white center line markings.

Chapter 3 – Airfield Pavement System Inventory

This chapter discusses the inventory data collected from the Airport and summarizes network-level characteristics of the Airport's airfield pavements. At the start of each FDOT SAPMP System Update, all airports are asked to review the existing airfield pavement network definition exhibit for accuracy. Furthermore, participating airports are asked to provide documentation of any recent or anticipated construction related to their airfield pavements.

3.1 Airfield Pavement Network Information

3.1.1 Previous and/or Anticipated Airfield Pavement Construction

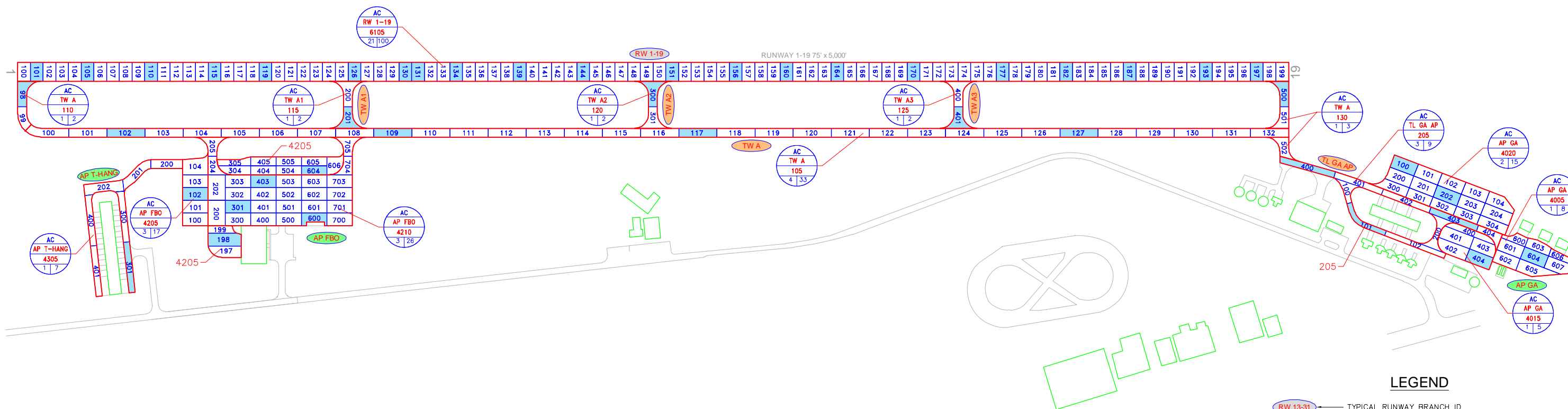
Based on information provided by the Airport, **Table 3.1.1** summarizes recent or anticipated airfield pavement construction projects since 2016.

Table 3.1.1: Summary of Previous and/or Anticipated Airfield Pavement Construction

Construction Year	Location	Work Type / Pavement Section
No Information Provided		

The Airport provided a combination of record drawings, reports, and staff input, which aided in developing the construction history of the Airport's pavements since inception. Major rehabilitation and construction activities performed in the last 24 months, or anticipated in the next 24 months, are assumed to restore the PCI to 100. These activities include pavement overlay, mill and overlay, new construction, and/or complete reconstruction. These pavements were not formally subject to a PCI assessment and actual conditions may vary. Furthermore, any localized maintenance or repair performed in the assessment areas that would improve the PCI are considered in the condition analysis.

Figure 3.1.1 (a), the Airfield Pavement Network Definition Exhibit provides details of the PCI assessment efforts. The exhibit identifies pavement facilities, surface types, section definitions, and sample unit delineations. **Figure 3.1.1 (b)**, the Airfield Pavement System Inventory Exhibit provides details of the work history updates communicated by the Airport. The Exhibit provides the approximate limits of recent and/or anticipated construction on the airfield pavement facilities. The limits are based on documentation provided by the Airport and, if constructed, are confirmed during field surveys.

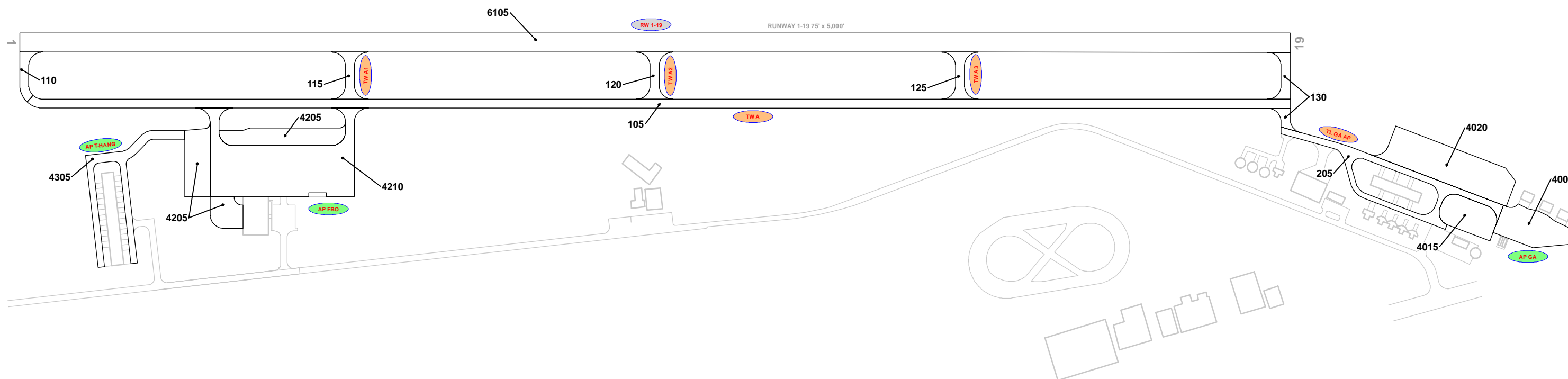


LEGEND

- TYPICAL RUNWAY BRANCH ID
- TYPICAL TAXIWAY BRANCH ID
- TYPICAL APRON BRANCH ID
- PAVEMENT SURFACE TYPE
- PAVEMENT BRANCH ID
- SECTION NUMBER
- NUMBER OF SAMPLE UNITS IN SECTION
- NUMBER OF SAMPLE UNITS TO BE INSPECTED
- SECTION NOT INSPECTED DUE TO RECENT CONSTRUCTION. SEE SYSTEM INVENTORY MAP FOR CONSTRUCTION DATES.
- INSPECTED SAMPLE UNITS.

TOTAL SAMPLES INSPECTED = 44
AC: 44 PCC: 0




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



RECENT & ANTICIPATED CONSTRUCTION ACTIVITY

CONSTRUCTION YEAR	LOCATION	WORK TYPE / PAVEMENT SECTION
NO INFORMATION PROVIDED		

LEGEND

-  ← TYPICAL RUNWAY BRANCH ID
 ← TYPICAL TAXIWAY BRANCH ID
 ← TYPICAL APRON BRANCH ID

PROJECT YEAR

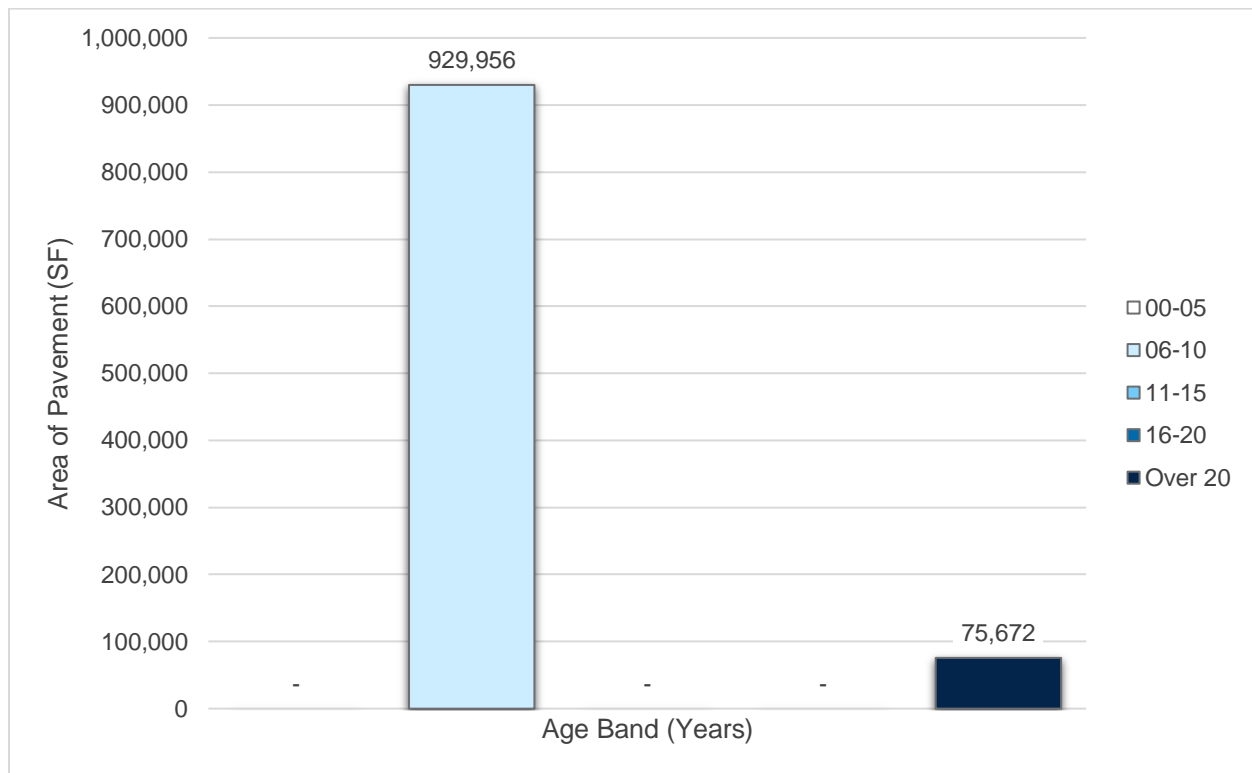
- | | | | |
|---|------|---|------|
|  | 2016 |  | 2021 |
|  | 2017 |  | 2022 |
|  | 2018 |  | 2023 |
|  | 2019 |  | 2024 |
|  | 2020 |  | 2025 |

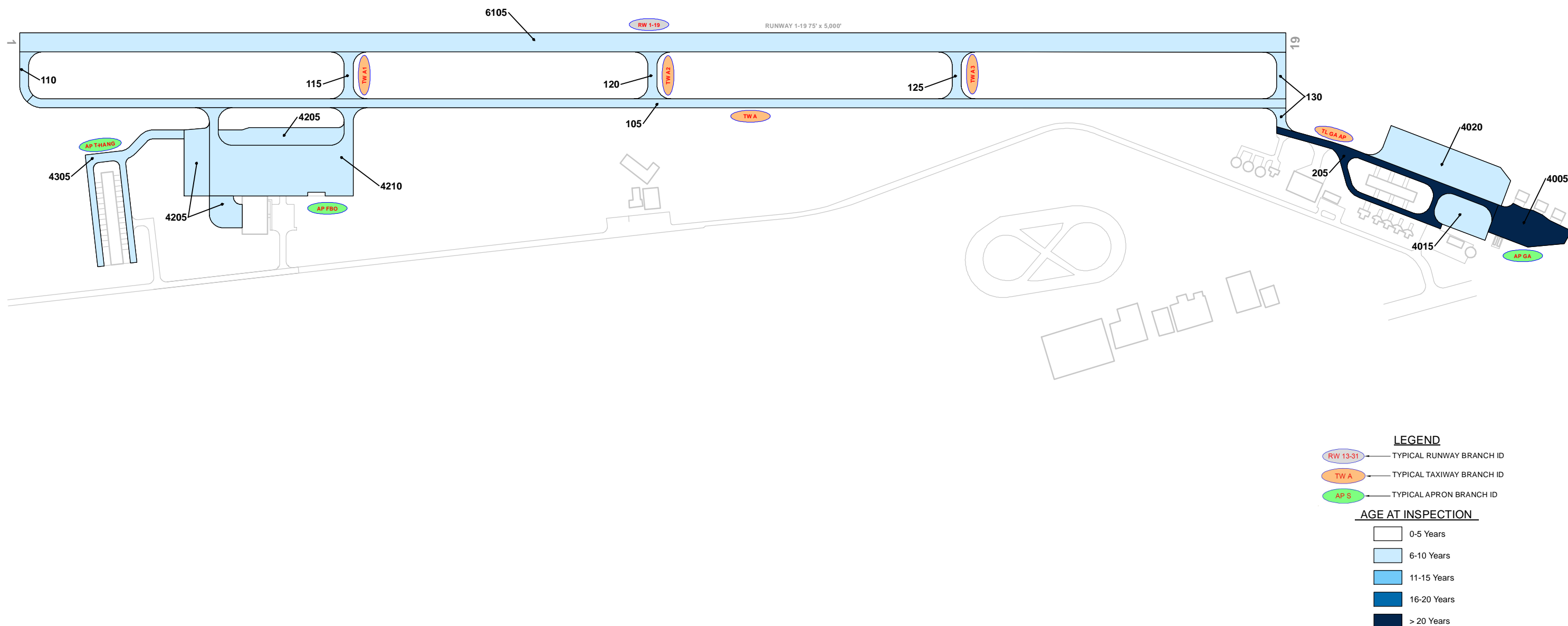
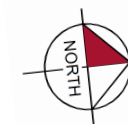
RUNWAY LENGTHS DEPICTED IN THIS DRAWING ARE FOR PAVEMENT MANAGEMENT PURPOSES ONLY AND MAY NOT MATCH PUBLISHED RUNWAY LENGTHS. DRAWING NOT TO SCALE.

3.1.2 Estimated Pavement Age

Standard pavement design practice considers a design life of 20 years. Design inputs typically require subgrade soil conditions, pavement layer material characteristics, and anticipated loading (aircraft fleet mix) for the design-life period. Based on the review of historic airfield pavement construction activities, **Figure 3.1.2 (a)** summarizes the age of the pavement sections since the last major construction activity has occurred. **Figure 3.1.2 (b)** provides the approximate limits of those age ranges on the airfield pavement facilities. This is intended to be a rough estimate based on interpretation of the limited data available at the time of report. The estimation of pavement age is based on information requested from the Airport.

Figure 3.1.2 (a): Age of Pavements at PCI Survey



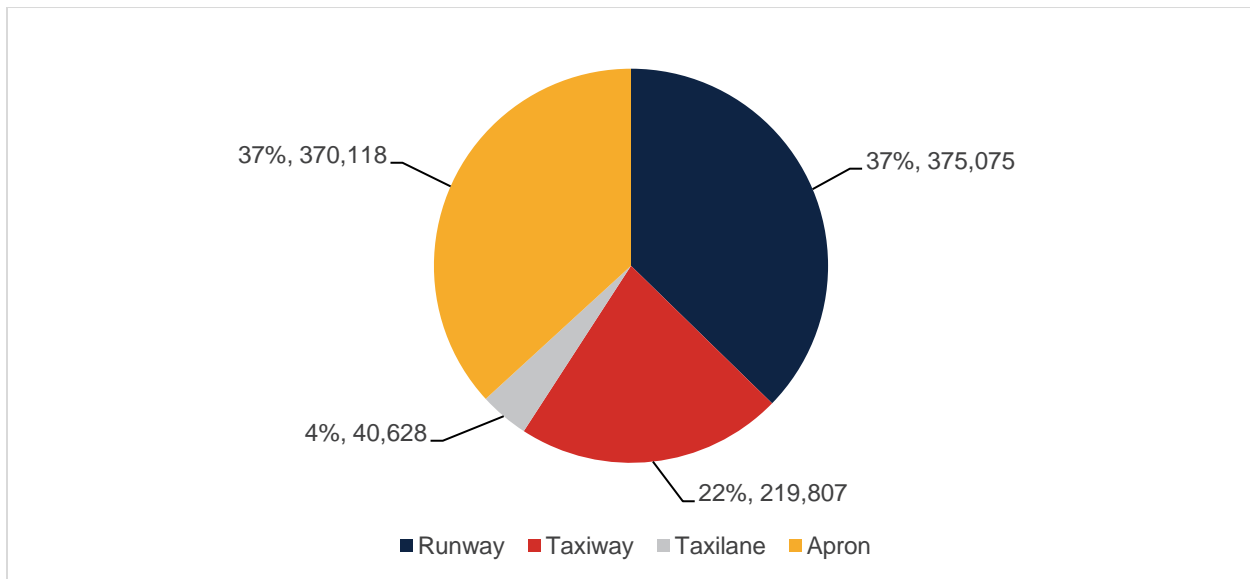


RUNWAY LENGTHS DEPICTED IN THIS DRAWING ARE FOR PAVEMENT MANAGEMENT PURPOSES ONLY AND MAY NOT MATCH PUBLISHED RUNWAY LENGTHS. DRAWING NOT TO SCALE.

3.1.3 Functional Use

Pavements are subject to variations in aircraft loading patterns based on use and overall operations. This is termed “functional use” or “branch use.” For this SAPMP System Update, the following categories of pavement functional use are identified: Runway, Taxiway, Taxilane, and Apron. **Figure 3.1.3** summarizes pavement functional use by area and excludes paved shoulders.

Figure 3.1.3: Airfield Pavement Branch Use by Area (SF)

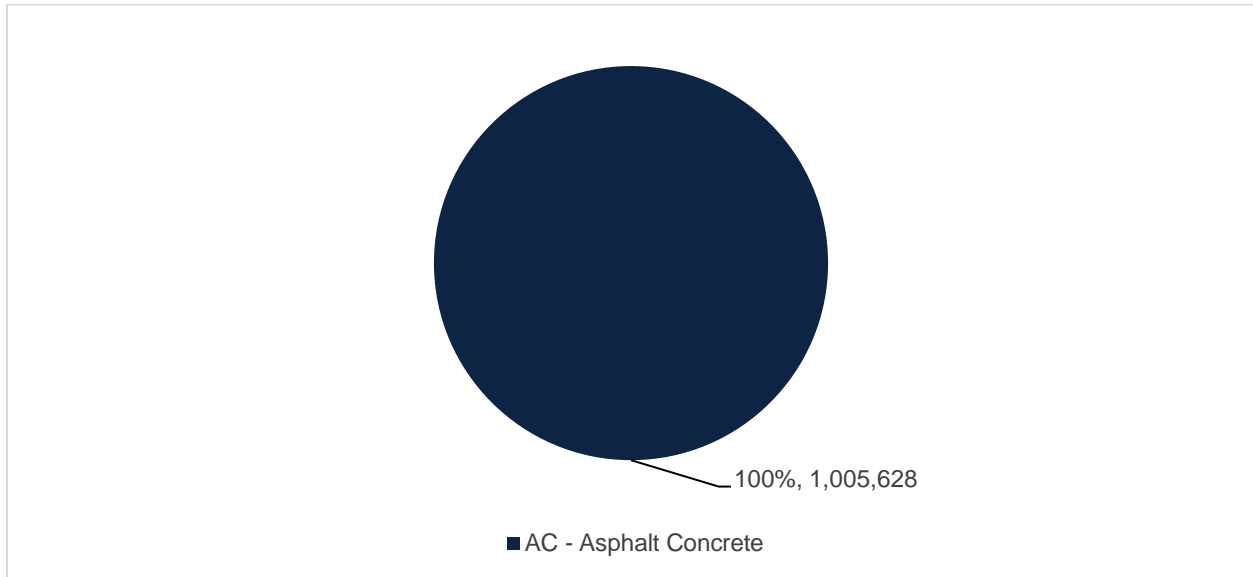


3.1.4 Pavement Surface Type

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

Based on the record documentation incorporated within the SAPMP database and as observed during airfield pavement field assessments, pavement surface types have been assigned to the various pavement sections. **Figure 3.1.4** summarizes the applicable pavement types observed at INF.

Figure 3.1.4: Airfield Pavement Surface Type by Area (SF)



3.1.5 Pavement System Inventory Details

The pavement inventory scope includes updates to existing pavement geometry and the development of an AutoCAD model with spatial projection for use within GIS. **Appendix A** includes the airfield pavement network definition exhibit and the airfield pavement system inventory exhibit, which visually summarize the results of the airfield pavement system inventory analysis.

Table 3.1.5 displays the section-level pavement inventory data. The data is based on the record documentation provided by the airports and from previous updates. The information presented relies on the accuracy and the adequacy of data provided. In some cases, characteristics such as pavement area may be estimated based on aerial interpretation of spatially-projected imagery. Additionally, if the last construction date is unknown, a date of January 1 of the estimated year was assigned to the section. The accuracy of data is appropriate for this network-level planning document. Should the Airport perform rehabilitation work, it is recommended that project-level investigations be performed to support the data accuracy needed for design and construction.

Table 3.1.5: Pavement System Inventory Details

Network ID	Branch ID	Branch Use	Section ID	Area (SF)	Surface Type	Estimate of Last Construction Date
INF	RW 1-19	Runway	6105	375,075	AC	1/1/2010
INF	TW A	Taxiway	105	173,773	AC	1/1/2010
INF	TW A	Taxiway	110	7,298	AC	1/1/2010
INF	TW A	Taxiway	130	11,520	AC	1/1/2010
INF	TW A1	Taxiway	115	9,072	AC	1/1/2010
INF	TW A2	Taxiway	120	9,072	AC	1/1/2010
INF	TW A3	Taxiway	125	9,072	AC	1/1/2010
INF	TL GA AP	Taxilane	205	40,628	AC	1/1/1997
INF	AP FBO	Apron	4205	73,563	AC	1/1/2013
INF	AP FBO	Apron	4210	127,054	AC	10/1/2011
INF	AP GA	Apron	4005	35,044	AC	1/1/1997
INF	AP GA	Apron	4015	26,880	AC	1/1/2011
INF	AP GA	Apron	4020	72,207	AC	1/1/2011
INF	AP T-HANG	Apron	4305	35,370	AC	7/1/2014

A photograph of a long, straight asphalt runway stretching towards the horizon under a bright blue sky filled with fluffy white clouds. The runway has a central white dashed line and yellow side lines. The image is framed by a red diagonal bar on the left and a blue diagonal bar on the right.

Chapter 4: Airfield Pavement Condition Analysis

A close-up, low-angle view of the runway pavement, showing a concrete slab with a yellow dashed line and a yellow chevron marking. The image is framed by a red diagonal bar on the left and a blue diagonal bar on the right.

Chapter 4 – Airfield Pavement Condition Analysis

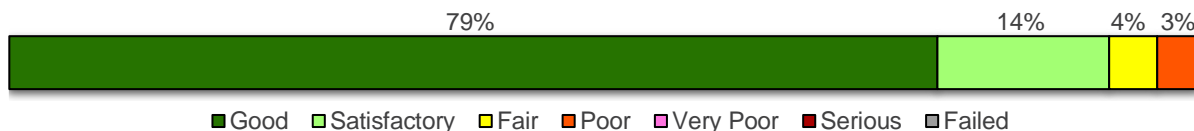
Distress type, severity, and extent are required in the computation of a PCI value. The PCI provides insight to possible causes of deterioration to help support pavement maintenance and rehabilitation planning. The PCI method of pavement condition evaluation is strictly a visual review of surface condition, also referred to as a functional evaluation. Further evaluation of pavement conditions may be necessary, such as structural evaluation, for design- and/or project-level determination of pavement rehabilitation needs.

4.1 Airfield Pavement Condition Index

4.1.1 Network-Level Analysis

The following figure, **Figure 4.1.1**, summarizes the network-level pavement condition analysis based on the most recent survey results. On a network level, approximately 93% of inspected pavements are in Good or Satisfactory condition. Presently, roughly 4% of inspected pavements are in Fair condition and the remaining 3% of inspected pavements are in Poor or worse condition.

Figure 4.1.1: Latest Condition – Overall Network



4.1.2 Branch-Level Analysis

The following **Figures 4.1.2 (a)-(e)** summarize branch-level pavement conditions according to the most recent PCI assessment results.

Figure 4.1.2 (a): Latest Condition Summary – Branch-Level

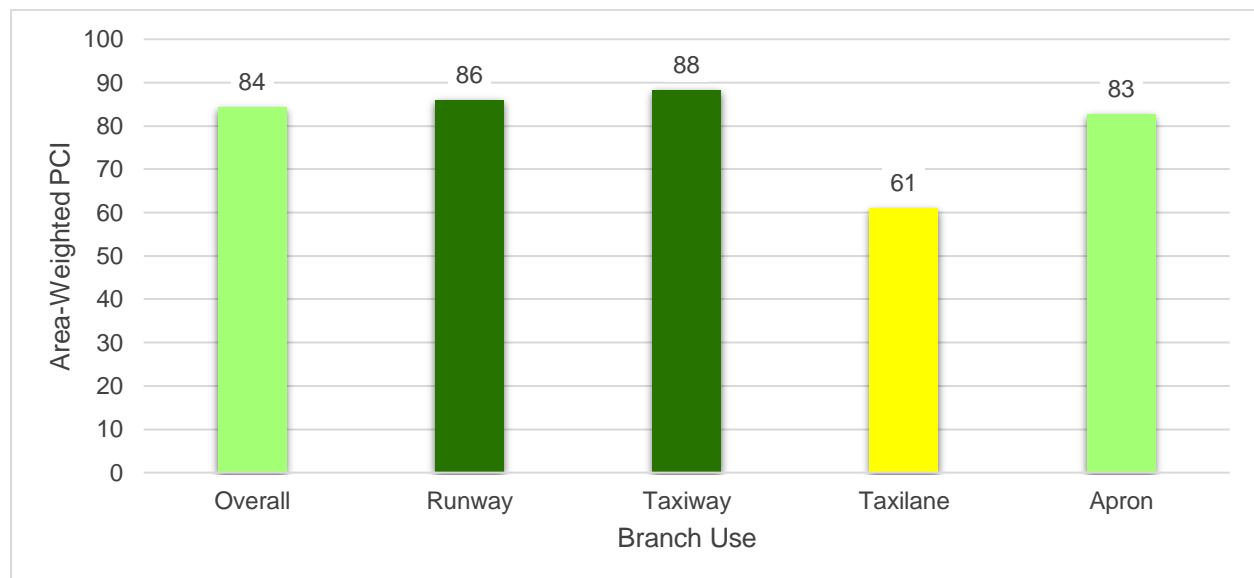


Figure 4.1.2 (b): Latest Condition – Runway

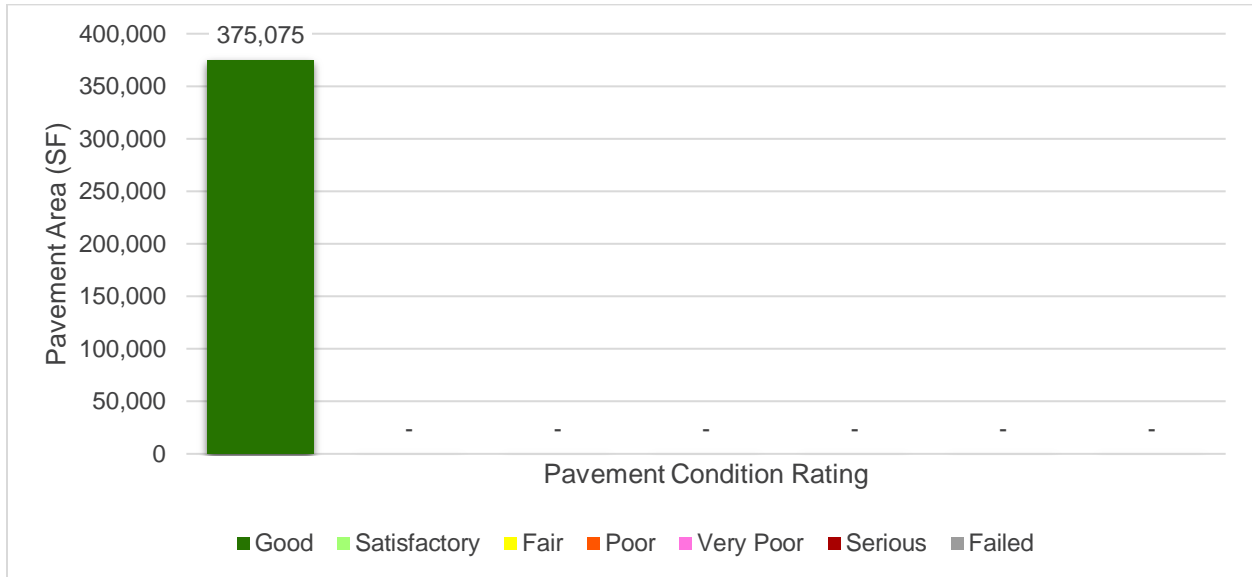


Figure 4.1.2 (c): Latest Condition – Taxiway

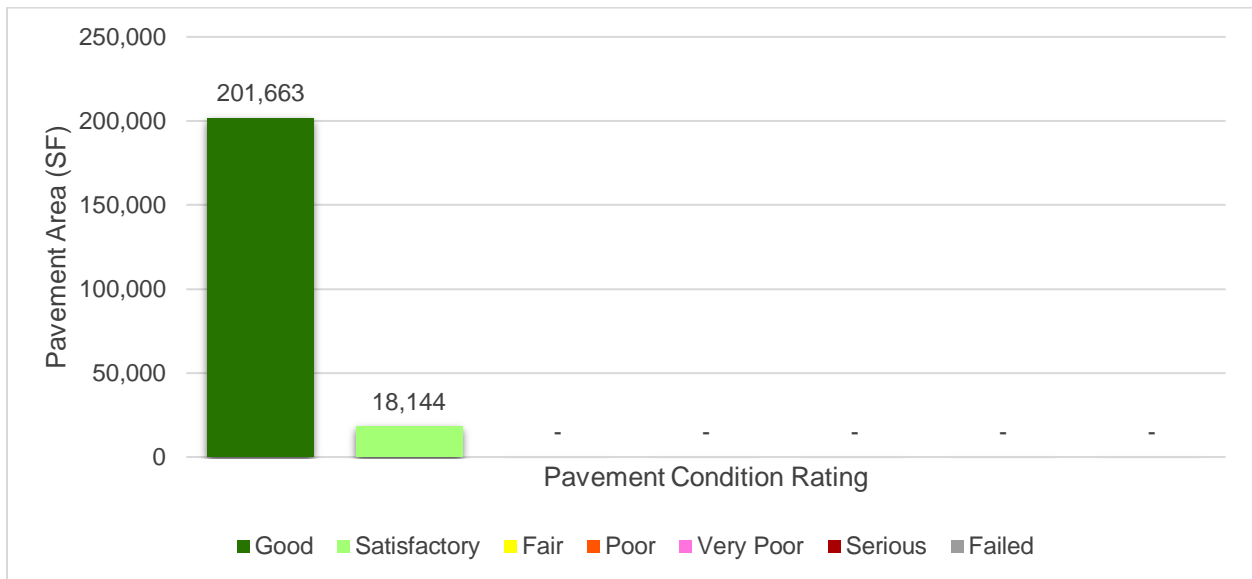


Figure 4.1.2 (d): Latest Condition – Taxiway

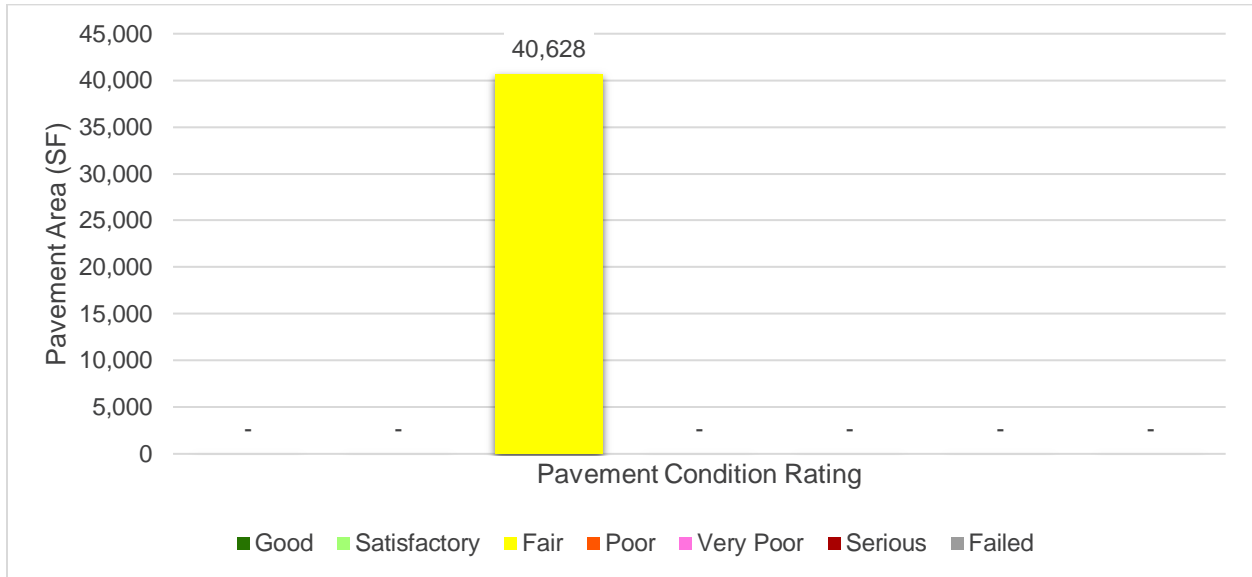


Figure 4.1.2 (e): Latest Condition – Apron

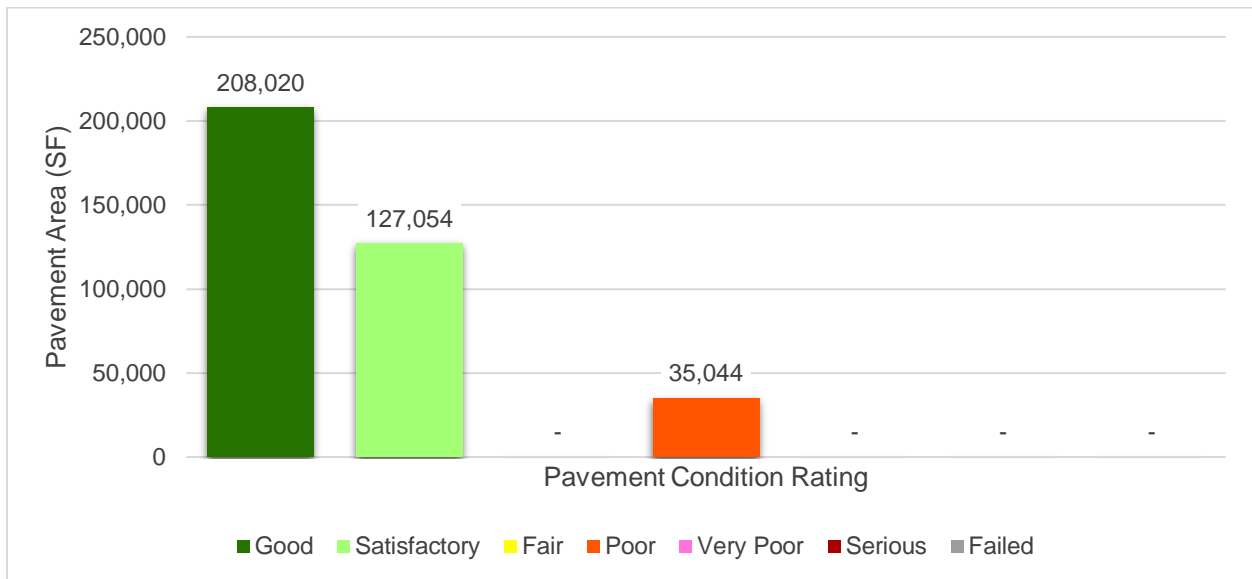


Table 4.1.2 details the branch-level condition for each airfield pavement branch.

Table 4.1.2: Latest Condition Summary – Branch-Level

Branch ID	Branch Use	Number of Sections	Branch Area (SF)	Area-Weighted Avg PCI	Condition Rating
RW 1-19	Runway	1	375,075	86	Good
TW A	Taxiway	3	192,591	89	Good
TW A1	Taxiway	1	9,072	81	Satisfactory
TW A2	Taxiway	1	9,072	86	Good
TW A3	Taxiway	1	9,072	84	Satisfactory
TL GA AP	Taxilane	1	40,628	61	Fair
AP FBO	Apron	2	200,617	84	Satisfactory
AP GA	Apron	3	134,131	79	Satisfactory
AP T-HANG	Apron	1	35,370	88	Good

4.1.3 Section-Level Analysis

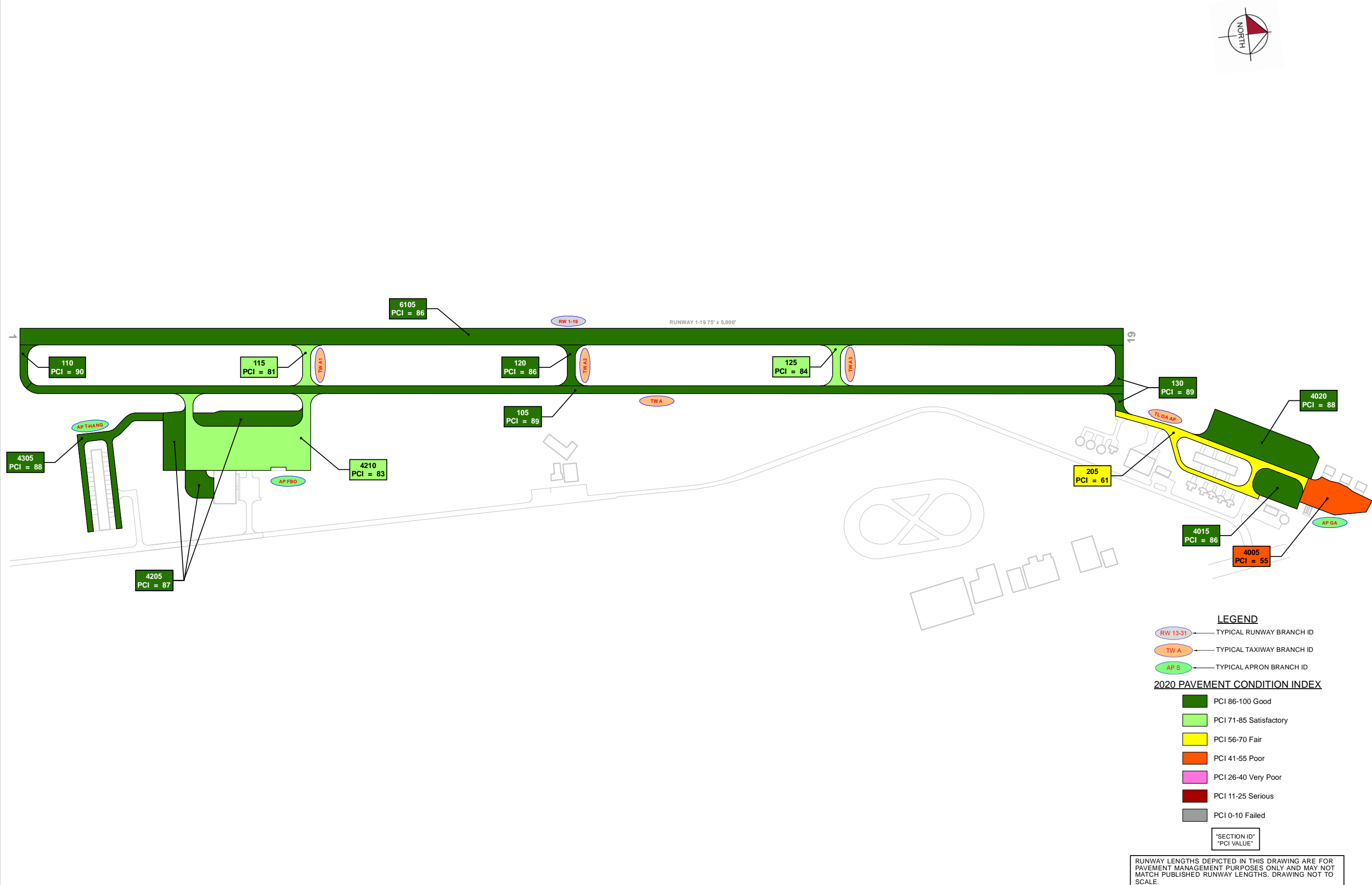
Table 4.1.3 provides each pavement section's area-weighted average PCI and the percent of distress related to load, climate, and other factors. The causes of condition deterioration help inform maintenance, repair, and rehabilitation decisions. For example, load-related distress can indicate that the pavement is reaching the end of its structural design life and the selected rehabilitation treatment should include either strengthening or reconstruction. **Figure 4.1.3** provides a technical exhibit that graphically depicts PCI values and ratings determined from this SAPMP System Update.

Pavement facilities that have been reconstructed within the past 24 months, or are anticipated for reconstruction within the next 24 months, may have been omitted from this assessment. Pavement that has received major rehabilitation will be set to a PCI of 100 for this analysis.

Table 4.1.3: Latest Pavement Condition Index Summary – Section-Level

Network ID	Branch ID	Branch Use	Section ID	Area (SF)	Surface	PCI	Condition Rating	PCI % Climate	PCI % Load	PCI % Other	Sample Units Inspected	Total Sample Units in Section
INF	RW 1-19	Runway	6105	375,075	AC	86	Good	100	0	0	21	100
INF	TW A	Taxiway	105	173,773	AC	89	Good	100	0	0	4	33
INF	TW A	Taxiway	110	7,298	AC	90	Good	100	0	0	1	2
INF	TW A	Taxiway	130	11,520	AC	89	Good	100	0	0	1	3
INF	TW A1	Taxiway	115	9,072	AC	81	Satisfactory	72	0	28	1	2
INF	TW A2	Taxiway	120	9,072	AC	86	Good	100	0	0	1	2
INF	TW A3	Taxiway	125	9,072	AC	84	Satisfactory	100	0	0	1	2
INF	TL GA AP	Taxilane	205	40,628	AC	61	Fair	98	0	2	3	9
INF	AP FBO	Apron	4205	73,563	AC	87	Good	100	0	0	3	17
INF	AP FBO	Apron	4210	127,054	AC	83	Satisfactory	100	0	0	3	26
INF	AP GA	Apron	4005	35,044	AC	55	Poor	100	0	0	1	8
INF	AP GA	Apron	4015	26,880	AC	86	Good	86	0	14	1	5
INF	AP GA	Apron	4020	72,207	AC	88	Good	70	0	30	2	15
INF	AP T-HANG	Apron	4305	35,370	AC	88	Good	100	0	0	1	7

* Zero (0) Sample Units Inspected signifies that the pavement section was not inspected during this SAPMP System Update due to recent construction projects. These sections correlate with the gray sections on the Network Definition Exhibit.



4.2 Summary of Pavement Condition Evaluation Results

4.2.1 Network-Level Observations

The PCI assessment for Inverness Airport (INF) was performed in May 2020. The overall area-weighted average PCI value of the network was 84, representing a condition rating of Satisfactory. During the in-brief discussion with the airport manager, a cursory assessment was requested for pavement leading to private hangars off TL GA AP. The pavement was observed to be in a substantially deteriorated condition and may be a candidate for Major Rehabilitation.

Based on the FAA 5010 Report as of 03/25/2021, the Airport has reported 73,000 operations for 12 months ending 09/19/2018.

4.2.2 Branch-Level Observations

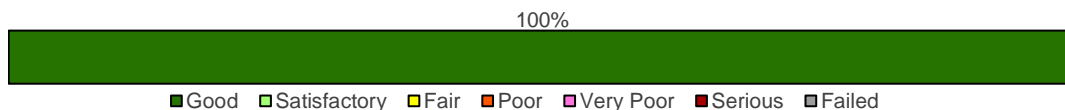
The following branch-level observations are a summary of select pavement facilities identified during the PCI assessment, including a discussion of general conditions and branch characteristics. The summary may not include all branches and/or sections within the airport's airfield pavement network. Representative distress photographs of airfield pavements are presented in **Appendix D**. "Vicinity" photos refer to the approximate boundaries of an inspected sample unit within the section and provide an overview of the section condition but are not focused on a specific distress. The Re-inspection Report found in **Appendix E** provides listings of each sample unit and distress.

Runways

RW 1-19

Branch ID	Branch Use	Number of Sections	Branch Area (SF)	Branch Area-Weighted Avg PCI	Branch Condition Rating
RW 1-19	RUNWAY	1	375,075	86	Good

The following bar graph shows proportional distribution (as % of area within branch) of condition categories among sections within the branch. Given the individual section data shown in the subsequent table, the distribution is as follows: 100% Good (86-100 PCI).



Section ID	Surface Type	Section Area (SF)	PCI	Condition Rating
6105	AC	375,075	86	Good

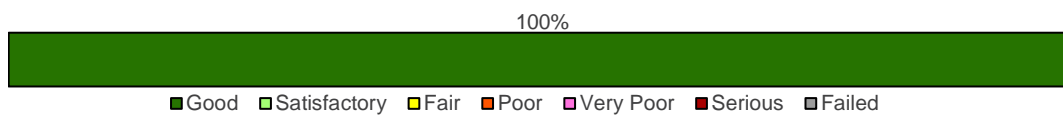
RW 1-19 consists of 1 flexible pavement section, totaling 375,075 sf. The last major construction date for the branch was 2010, resulting in an area-weighted average age at inspection of 10 years old. Overall, RW 1-19 is in Good condition with an area-weighted average PCI of 86.

Taxiways

TW A

Branch ID	Branch Use	Number of Sections	Branch Area (SF)	Branch Area-Weighted Avg PCI	Branch Condition Rating
TW A	TAXIWAY	3	192,591	89	Good

The following bar graph shows proportional distribution (as % of area within branch) of condition categories among sections within the branch. Given the individual section data shown in the subsequent table, the distribution is as follows: 100% Good (86-100 PCI).



Section ID	Surface Type	Section Area (SF)	PCI	Condition Rating
105	AC	173,773	89	Good
110	AC	7,298	90	Good
130	AC	11,520	89	Good

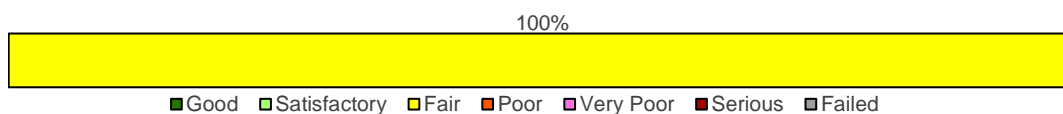
TW A consists of 3 flexible pavement sections, totaling 192,591 sf. The last major construction date for the branch was 2010, resulting in an area-weighted average age at inspection of 10 years old. Overall, TW A is in Good condition with an area-weighted average PCI of 89.

Taxilanes

TL GA AP

Branch ID	Branch Use	Number of Sections	Branch Area (SF)	Branch Area-Weighted Avg PCI	Branch Condition Rating
TL GA AP	TAXILANE	1	40,628	61	Fair

The following bar graph shows proportional distribution (as % of area within branch) of condition categories among sections within the branch. Given the individual section data shown in the subsequent table, the distribution is as follows: 100% Fair (56-70 PCI).



Section ID	Surface Type	Section Area (SF)	PCI	Condition Rating
205	AC	40,628	61	Fair

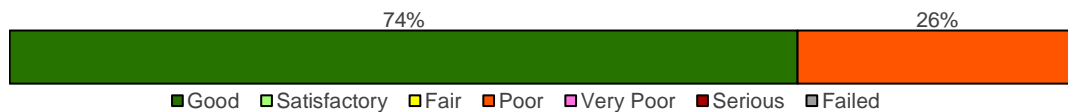
TL GA AP consists of 1 flexible pavement section, totaling 40,628 sf. The last major construction date for the branch was 1997, resulting in an area-weighted average age at inspection of 23 years old. Overall, TL GA AP is in Fair condition with an area-weighted average PCI of 61.

Aprons

AP GA


Branch ID	Branch Use	Number of Sections	Branch Area (SF)	Branch Area-Weighted Avg PCI	Branch Condition Rating
AP GA	APRON	3	134,131	79	Satisfactory

The following bar graph shows proportional distribution (as % of area within branch) of condition categories among sections within the branch. Given the individual section data shown in the subsequent table, the distribution is as follows: 74% Good (86-100 PCI), 26% Poor (41-55 PCI).



Section ID	Surface Type	Section Area (SF)	PCI	Condition Rating
4005	AC	35,044	55	Poor
4015	AC	26,880	86	Good
4020	AC	72,207	88	Good

AP GA consists of 3 flexible pavement sections, totaling 134,131 sf. The last major construction dates range from 1997 to 2011, resulting in an area-weighted average age at inspection of 13 years old. Overall, AP GA is in Satisfactory condition with an area-weighted average PCI of 79.



Chapter 5: SAPMP Customization



Chapter 5 – SAPMP Customization

Once the PAVER™ database is populated with inventory and condition data including PCI and rank, it is further customized with key elements such as network-level attributes, performance models, critical PCI, maintenance policies, and unit costs that are specific to the FDOT SAPMP. Each of these factors plays a role in the development of rehabilitation strategies as they help to identify maintenance and rehabilitation needs for long-term management.

The FDOT SAPMP is organized to provide airports with planning-level data and does not intend to preclude the responsible engineer from performing the appropriate level of investigation and analysis in determining the appropriate design details of a pavement rehabilitation. It would not be advisable to solely base design-level rehabilitation without the appropriate level of investigation and determination of pavement deterioration beyond that of a visual functional condition assessment.

5.1 Network-Level Customization

The network-level attribute fields used in the FDOT SAPMP PAVER™ database consist of the Network, Airport Classification, District, FAA ADO Area, Inspection Phase, and Continuing Florida Aviation System Planning Process (CFASPP) Center. Each of these elements are briefly defined below.

- » The “Network” field identifies the airport being analyzed;
- » The “Airport Classification” field classifies the Airport according to the type and volume of aircraft traffic;
 - “GA” for General Aviation, community airports
 - “RL” for Regional Relievers
 - “PR” for Primary/Commercial airports
- » The “District” field identifies the FDOT District to which the Airport belongs;
- » The “FAA ADO Area” is an area used by the Orlando ADO to assign airports within those areas to the responsible FAA ADO personnel (planners, engineers, and environmentalists);
- » The “Inspection Phase” denotes which phase of the SAPMP the airport is surveyed, Phase 1 or Phase 2; and
- » The “CFASPP Center” identifies which Region or Metropolitan Area of the Continuing Florida Aviation Systems Planning Process an airport falls within.

5.2 Pavement Condition Forecasts

Pavement performance models, alternatively known as forecast models, prediction curves, or family curves, are developed from past and current distress data, as well as age data. These prediction curves are used to develop forecasts of PCI values that then help determine optimum timing for pavement maintenance and rehabilitation.

5.2.1 Forecasting PCI Considerations

Performance models will continue to be refined as the FDOT updates the SAPMP with subsequent PCI surveys. With the refinement of additional PCI and age data points, the forecasting of pavement conditions will continue to better reflect the performance trends of airfield pavements in the FAS. Forecasting of pavement condition for the Airport is intended for planning purposes only. **The estimation of forecasted PCI values gives no assurance of future pavement conditions as PCI values represent an engineering estimation to be used as a planning tool. Forecasted PCI data should not be the sole metric for determining the year in which a project should be planned. Design-level planning should be undertaken by the responsible engineer prior to the development of airfield design plans.** Design-level recommendations for pavement rehabilitation and/or reconstruction will require the appropriate application of the procedures defined in the FAA AC 150/5320-6F.

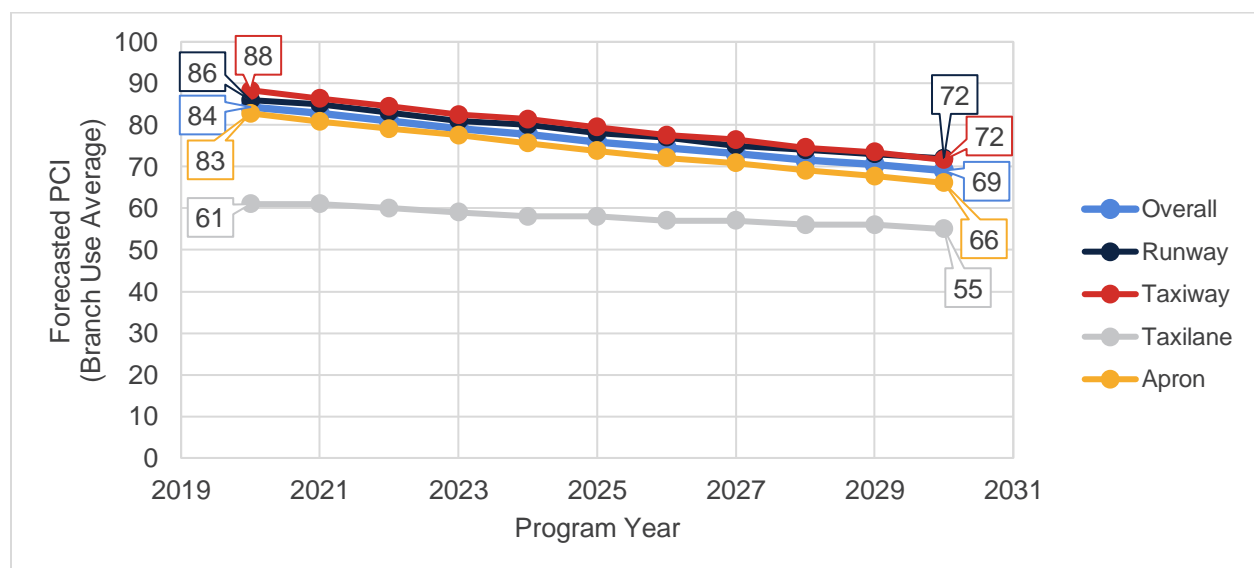
5.2.2 Performance Models

To develop pavement performance models, data for each section is combined into “groups” or “families” according to pavement type, traffic, and functional use. For the FDOT SAPMP, the models were defined for both PCC- and AC-surfaced pavements and further divided according to functional use. Based on average deterioration rates for different pavement types, each pavement section is assigned to a specific deterioration family to forecast the condition over a 10-year period.

5.2.3 Branch-Level Pavement Condition Forecast

Figure 5.2.3 depicts the branch-level pavement condition forecast for each branch use (Runway, Taxiway, Taxilane, and/or Apron) as well as the overall network. The condition forecasts are for a 10-year duration, starting in 2021 through 2030.

Figure 5.2.3: Forecasted Branch-Level Pavement Performance



5.2.4 Section-Level Pavement Condition Forecast

Table 5.2.4 provides section-level details for PCI forecasts. Pavement condition forecasts should be used for planning purposes only, as actual condition of sections is subject to the sensitivities in changes of traffic and maintenance frequency.

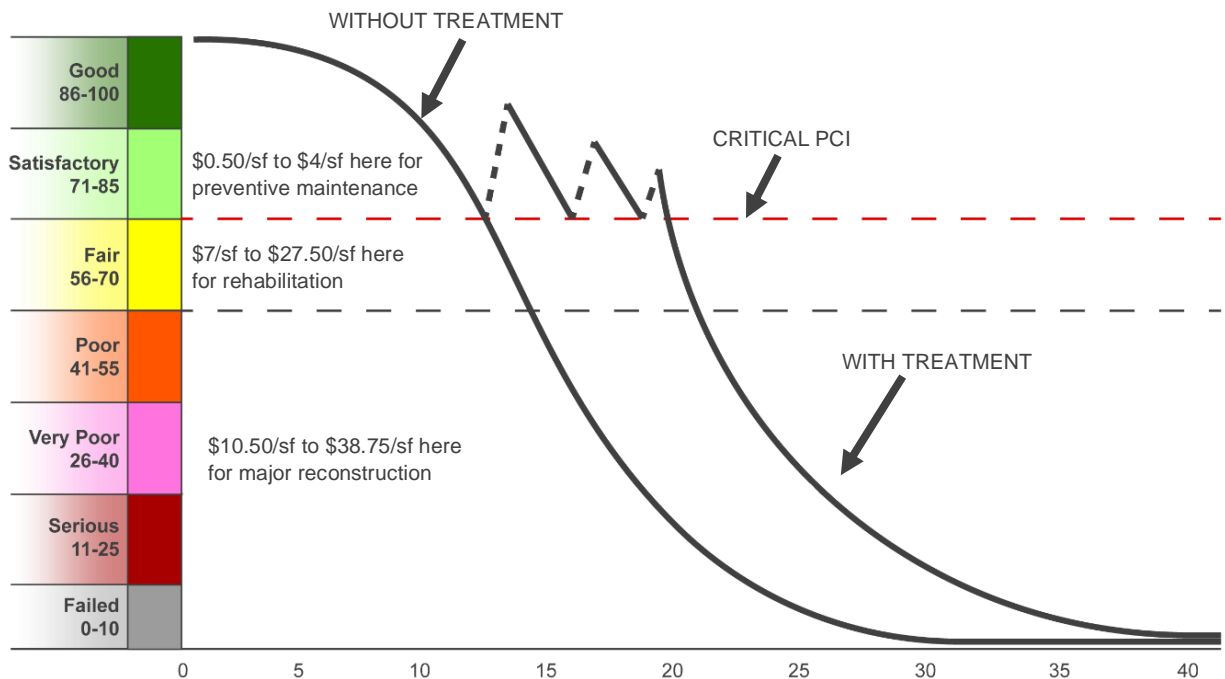
Table 5.2.4: Forecasted PCI Values 2021-2030 – Section-Level

Network ID	Branch ID	Section ID	Current PCI	Forecasted PCI									
				2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
INF	RW 1-19	6105	86	85	83	81	80	78	77	75	74	73	72
INF	TW A	105	89	87	85	83	82	80	78	77	75	74	72
INF	TW A	110	90	88	86	84	82	81	79	77	76	74	73
INF	TW A	130	89	87	85	83	82	80	78	77	75	74	72
INF	TW A1	115	81	80	78	76	75	73	72	71	69	68	67
INF	TW A2	120	86	84	82	81	79	77	76	74	73	72	70
INF	TW A3	125	84	82	81	79	77	76	74	73	72	70	69
INF	TL GA AP	205	61	61	60	59	58	58	57	57	56	56	55
INF	AP FBO	4205	87	85	83	81	79	77	76	74	72	71	69
INF	AP FBO	4210	83	81	79	78	76	74	72	71	69	68	66
INF	AP GA	4005	55	54	54	53	52	51	50	50	49	48	47
INF	AP GA	4015	86	84	82	80	78	77	75	73	72	70	68
INF	AP GA	4020	88	86	84	82	80	78	76	75	73	71	70
INF	AP T-HANG	4305	88	86	84	82	80	78	76	75	73	71	70

5.3 Critical PCI Value

An important concept in pavement management is the critical PCI value, a value that prompts major rehabilitation activities. It serves as a condition threshold that helps determine a section's suitability to receive major work. As soon as a section's PCI reaches the critical PCI value, the rate of PCI loss (deterioration) is expected to increase. The critical PCI concept assumes that once a pavement section deteriorates to this critical level, it is more cost-effective to complete a major rehabilitation project rather than continuing to apply preventive maintenance or deferring major work until more costly reconstruction activities are required. **Figure 5.3 (a)** illustrates the benefit of applying lower cost preventive maintenance to extend the life of the pavement.

Figure 5.3 (a): General Pavement Treatments by Condition Range



Critical PCI values vary and are typically based on a pavement's surface type, functional use, and importance, or priority, in daily operations. Pavement priority is generally assigned based on the branch use of a pavement section. In previous updates, the critical PCI value was set to 65 for all functional uses. Based on FAA Order 5100.38D Change 1 Airport Improvement Handbook, issued February 26, 2019, the FAA has established pavement construction based on thresholds that distinguish Rehabilitation and Reconstruction. Pavement sections between PCI Values 55 and 69 will be considered for Rehabilitation and sections between PCI Values 0 to 54 will be considered for Reconstruction at the planning-level, as shown in **Table 5.3 (a)**. The FDOT SAPMP will integrate the PCI thresholds for airfield pavement projects to maintain alignment with the FAA AIP and/or PFC eligibility for project planning. Moving forward, the critical PCI value will now be defined at 69 for the FDOT SAPMP. Critical PCI values for this SAPMP System Update are shown in **Table 5.3 (b)**.

Table 5.3 (a): AIP Handbook PCI Requirements

PCI Requirements for Airfield Pavement Projects	
Airfield Pavement Project Type	PCI Requirement
Reconstruction	PCI < 55 (Poor)
Rehabilitation	PCI < 70 (Fair)
Maintenance	N/A

*Source: AIP Handbook, in reference to Runways, Taxiways, and Aprons as seen in table G-2, H-1, and I-1 respectively

Table 5.3 (b): Critical PCI Values by Branch Use

Branch Use		
Runway	Taxiway	Apron
69	69	69

Figures 5.3 (b) and 5.3 (c) depict the decision process for major rehabilitation project identification with the assumption of available funds (Shahin). Should funding be unavailable for pavement sections in need of major rehabilitation, the Airport may elect to apply appropriate localized stopgap repair strategies. As the figures show, once major rehabilitation has been applied, the PCI of the section is reset to 100.

Figure 5.3 (b): Major Rehabilitation Planning Decision Diagram, $PCI < \text{Critical PCI}$

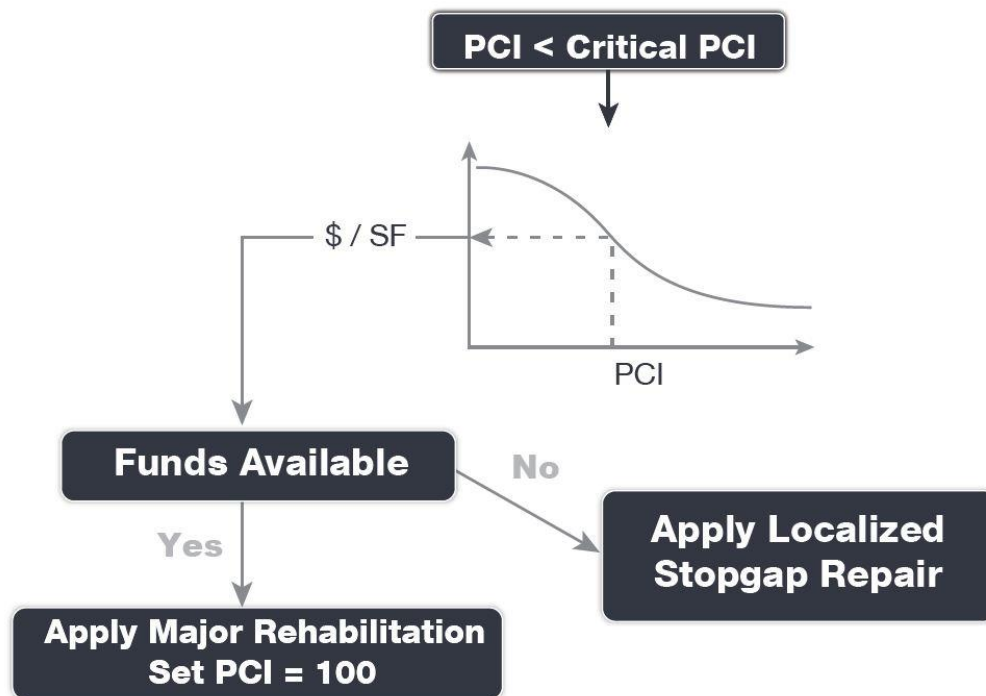
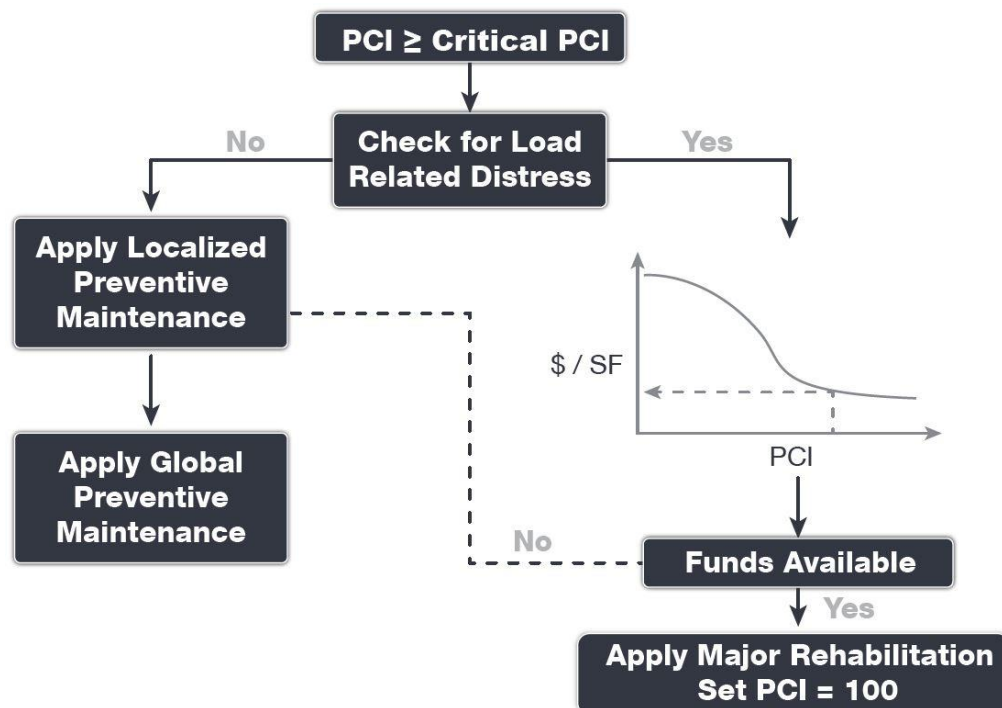


Figure 5.3 (c): Major Rehabilitation Planning Decision Diagram, $PCI \geq \text{Critical PCI}$



5.4 Localized Maintenance and Repair

This section discusses both localized maintenance and major rehabilitation M&R methods and how they may be most effectively applied to extend the life of the pavement network. General maintenance and rehabilitation (M&R) methods are characterized under two broad categories: localized maintenance and major rehabilitation.

Localized maintenance is best applied as a conservation measure and is applied to slow the rate of pavement deterioration. It may, however, be applied as a temporary corrective measure in isolated areas. Proactive localized maintenance, and specifically preservation, is highly recommended to the Airport. However, it is recognized that once pavements have deteriorated below a certain condition threshold (the critical PCI value), the pavement benefits from more substantial rehabilitation in lieu of localized repairs.

Major rehabilitation is recommended when a pavement section falls below the critical PCI value or if a pavement section has a significant presence of load-related distress. Major rehabilitation efforts can correct or improve structural deficiencies and/or functional deterioration for pavement sections within a network.

M&R planning combines methods of repair to address the cause of the problem rather than just treating the symptom. For example, a PCC corner break may require slab under-sealing, full-depth patching, and joint sealing. While these repair methods apply to specific distress and pavement types, they also consider the impact of Foreign Object Debris (FOD) on aircraft operations. Untidy or improperly constructed repair activities may disintegrate and potentially create FOD at or near the repair site. Therefore, maintenance activities must include quality control monitoring to ensure that repairs are conducted properly, and clean-up activities are undertaken to address this potential. The current version of the FAA Advisory Circular 150/5210-24 “Airport Foreign Object Debris (FOD) Management” provides additional guidance for developing and managing an airport FOD program.

5.4.1 Localized Maintenance and Repair Approach

Localized maintenance differs from major rehabilitation in that localized maintenance is applied based on the distresses observed and not an averaged or forecasted PCI value. Treatments are selected based on the appropriate corrective measure for a given distress type and severity level. Localized maintenance can be applied either as a preventive measure or a safety (“stopgap”) measure. The two types of localized maintenance are described below in further detail.

- » Localized Preventive Maintenance and Repair
 - Distress maintenance activities performed with the primary objective of slowing the rate of deterioration. These activities typically include crack sealing and patching.
- » Localized Stopgap/Safety Maintenance and Repair
 - Defined as the localized distress repair needed to keep a pavement in a safe and operational condition. These activities are typically applied to high-severity distresses or distresses impacting operations.

5.4.2 Localized Work Types

The following sections provide detailed descriptions of the maintenance policy work types identified in the Localized Maintenance Policy.

AC Crack Sealing

Crack sealing is the process of cleaning and sealing (or resealing) cracks in AC pavements. This repair is used to fill longitudinal and transverse cracks, including reflective cracks and block cracks that are wider than 1/8-inch. The purpose of this treatment is to prevent water and incompressible materials from entering cracks and causing further deterioration of the pavement structure. Accumulation of incompressible materials in cracks may lead to spalling and is a source of FOD. Crack sealing is cost-effective when used as a preventive measure. Depending on the size of the crack, routing and cleaning the crack may be necessary to remove the loose material within the crack for better adherence of the crack sealant to the crack face. Measurement of this work type is typically in linear feet.

AC Full-Depth Patching

This technique involves replacing the full thickness of the AC layer and may include replacement of the base and subbase layers. Full-depth patching is used to repair structural and material-related distresses, such as alligator cracking, corrugation, depressions, rutting, slippage cracking, and swelling in AC pavements. This repair may be limited to the top AC layer (partial-depth patch) if the base and subbase layers exhibit no signs of deterioration. Measurement of this work type is typically in square feet or square yards.

AC Partial-Depth AC Patching

This technique involves the removal of a given thickness of the surface layer using a milling machine and adding back a layer of AC pavement. This technique removes the deteriorated layer and provides a good bond for an overlay. It can correct or improve the structural capacity or functional requirement, such as skid resistance and ride quality. This repair is used for surface distresses that can occur over a large area, such as raveling, shoving, and bleeding. While mill and replace can be a major rehabilitation M&R method when applied at a large scale, its application in a localized capacity to treat specific distress types also classifies it under localized maintenance for the purpose of this study. After milling operations are completed, any cracks still present should be cleaned and sealed prior to the placement of a tack coat and AC overlay layer(s). Measurement of this work type is typically in square feet or square yards.

Grinding

Grinding is the process of removing a thin layer of the existing concrete by grinding it with a series of closely spaced, rotating saw blades. This method is used to re-profile jointed concrete pavements with poor ride quality due to faulting or warping. Grinding is also used to restore transverse drainage and to provide a textured pavement surface. The concern with this type of maintenance is that if too much material is removed, the overall structural composition of the pavement section may change, potentially reducing the overall life of the pavement. Measurement of this work type is typically in square feet or square yards.

Monitor Pavement

Monitor pavement is recommended when the distresses do not interfere with ride quality, do not have FOD potential, and do not pose an immediate safety concern.

PCC Crack Sealing

Crack sealing is the process of routing, cleaning, and sealing (or resealing) cracks in PCC pavement to prevent water from infiltrating into the pavement foundation and to stop the accumulation of incompressible materials in the cracks. Water entering cracks can weaken the subgrade, potentially leading to pumping, corner breaks, and/or shattered slabs. Accumulation of incompressible materials in cracks may lead to spalling and is a source of FOD. Routing and cleaning of the crack is often necessary to adhere the crack sealant to both sides of the crack. Measurement of this work type is typically in linear feet.

PCC Full-Depth Patching

This type of M&R activity involves full-depth replacement of a portion of a PCC slab. This repair is used for medium- and high-severity corner breaks, medium-severity durability cracking, medium-severity blowups and buckling, and high-severity large patches. This repair requires restoring load transfer if near a joint or crack. Measurement of this work type is typically in square feet or square yards.

PCC Joint Seal

Joint sealing is the process of cleaning and sealing (or resealing) joints in PCC pavement to prevent water from infiltrating into the pavement foundation and to stop the accumulation of incompressible materials in the joints. Water entering joints can weaken the subgrade, potentially leading to pumping, corner breaks, and/or shattered slabs. Accumulation of incompressible materials in joints leads to spalling of the concrete and is a source of FOD. In some cases, it may be necessary to re-saw the pavement joints to remove old material prior to resealing. Measurement of this work type is typically in linear feet.

PCC Partial-Depth Patching

Partial-depth patching involves removing shallow, localized areas of deteriorated or spalled PCC pavement and replacing them with a suitable patch-like cement concrete or epoxy concrete. This method is used to repair distresses that are confined to the top few inches of the slab, such as joint and corner spalling. This repair would require restoring the joint sealant if near a joint. Measurement of this work type is typically in square feet or square yards.

PCC Slab Replacement

This type of M&R activity involves full-depth replacement of an entire PCC slab. This repair is used to repair high-severity blowups and buckling, high-severity durability cracking, medium- and high-severity shattered slabs, and medium- and high-severity ASR. This repair requires restoring load transfer with adjacent slabs through dowels or similar means. Measurement of this work type is typically in square feet or square yards.

Surface Seal

Application of a surface treatment provides AC-surfaced pavements with an unoxidized layer of bituminous material that can help extend the life of a pavement that is experiencing climate-related distresses such as weathering and raveling. The surface treatment can also serve as a repair that re-establishes a bond between aggregates, slowing pavement deterioration and reducing FOD potential. Measurement of this work type is typically in square feet or square yards.

5.4.3 Localized Maintenance Planning-Level Unit Costs

The activities identified here are based on research of practical pavement treatments in consideration of the FAA AC 150/5380-6C. The Localized Maintenance Policies and associated planning-level unit costs are developed in consideration of a network-level analysis.

The Localized Maintenance and Repair Policies and associated planning-level unit costs are based on a statewide consideration of pavement treatments and construction costs from both airfield pavements and the FDOT Historical Cost Information archives. Furthermore, a consideration of limited repair quantities is factored into the determination of conservative planning-level unit costs. Neither FDOT nor the Consultant team have control over the cost of labor, materials, equipment, the Contractor's methods of determining prices, or over competitive bidding or market conditions. Opinions of probable construction costs provided herein are based on the information known to the FDOT at this time and represent only the Consultant team's judgment as a design professional familiar with the construction industry. This Report cannot and does not guarantee that proposals, bids, or actual construction costs will not vary from its opinions of probable construction costs.

Tables 5.4.3 (a) and (b) display the cost by maintenance activity for AC and PCC pavement types, respectively. Because the localized maintenance activities identified for both preventive and stopgap work types are based on a statewide network approach, project-specific evaluations and maintenance quantities should be developed prior to construction.

Table 5.4.3 (a): Localized M&R Planning-Level Unit Costs – Asphalt Concrete

Localized Work Type	General Aviation Costs	Work Type Unit
AC Crack Sealing	\$ 3.00	LF
AC Full-Depth Patching	\$ 7.50	SF
AC Partial-Depth Patching	\$ 3.75	SF
Monitor Pavement	-	-
Surface Seal	\$ 0.50	SF

Table 5.4.3 (b): Localized M&R Planning-Level Unit Costs – Portland Cement Concrete

Localized Work Type	General Aviation Costs	Work Type Unit
Grinding	\$ 2.00	SF
Monitor Pavement	-	-
PCC Crack Sealing	\$ 5.00	LF
PCC Joint Seal	\$ 3.25	LF
PCC Full-Depth Patching	\$ 50.00	SF
PCC Partial-Depth Patching	\$ 125.00	SF
PCC Slab Replacement	\$ 38.75	SF

* PCC Partial-Depth Patching considers high-early-strength and high-performing repair material.

5.4.4 Localized Maintenance and Repair Policy

The resulting Localized Maintenance recommendations are identified based on the policy defined in **Tables 5.4.4 (a) and (b)**. **Table 5.4.4 (a)** depicts the localized preventive maintenance policy for AC and PCC pavements. **Table 5.4.4 (b)** depicts the localized stopgap maintenance policy for AC and PCC pavements.

Table 5.4.4 (a): Localized Preventive Maintenance and Repair Policy

Distress	Severity	Localized Work Type	Work Type Unit
Alligator Cracking	Low	Monitor Pavement	-
Alligator Cracking	Medium	AC Full-Depth Patching	SF
Alligator Cracking	High	AC Full-Depth Patching	SF
Bleeding	N/A	Monitor Pavement	-
Block Cracking	Low	Monitor Pavement	-
Block Cracking	Medium	AC Crack Sealing	LF
Block Cracking	High	AC Crack Sealing	LF
Corrugation	Low	Monitor Pavement	-
Corrugation	Medium	AC Full-Depth Patching	SF
Corrugation	High	AC Full-Depth Patching	SF
Depression	Low	Monitor Pavement	-
Depression	Medium	AC Full-Depth Patching	SF
Depression	High	AC Full-Depth Patching	SF
Jet Blast	N/A	Monitor Pavement	-
Jt. Reflective Cracking	Low	Monitor Pavement	-
Jt. Reflective Cracking	Medium	AC Crack Sealing	LF
Jt. Reflective Cracking	High	AC Crack Sealing	LF
L&T Cracking	Low	Monitor Pavement	-
L&T Cracking	Medium	AC Crack Sealing	LF
L&T Cracking	High	AC Crack Sealing	LF
Oil Spillage	N/A	Monitor Pavement	-
Patching	Low	Monitor Pavement	-
Patching	Medium	AC Full-Depth Patching	SF
Patching	High	AC Full-Depth Patching	SF
Polished Aggregate	N/A	Monitor Pavement	-
Raveling	Low	Surface Seal	SF
Raveling	Medium	Surface Seal	SF
Raveling	High	AC Partial-Depth Patching	SF
Rutting	Low	Monitor Pavement	-
Rutting	Medium	AC Full-Depth Patching	SF

Distress	Severity	Localized Work Type	Work Type Unit
Rutting	High	AC Full-Depth Patching	SF
Shoving	Low	Monitor Pavement	-
Shoving	Medium	AC Partial-Depth Patching	SF
Shoving	High	AC Full-Depth Patching	SF
Slippage Cracking	N/A	AC Full-Depth Patching	SF
Swelling	Low	Monitor Pavement	-
Swelling	Medium	AC Full-Depth Patching	SF
Swelling	High	AC Full-Depth Patching	SF
Weathering	Low	Monitor Pavement	-
Weathering	Medium	Surface Seal	SF
Weathering	High	AC Partial-Depth Patching	SF
Blow-up	Low	PCC Full-Depth Patching	SF
Blow-up	Medium	PCC Full-Depth Patching	SF
Blow-up	High	PCC Slab Replacement	SF
Corner Break	Low	Monitor Pavement	-
Corner Break	Medium	PCC Full-Depth Patching	SF
Corner Break	High	PCC Full-Depth Patching	SF
Linear Cracking	Low	Monitor Pavement	-
Linear Cracking	Medium	PCC Crack Sealing	LF
Linear Cracking	High	PCC Full-Depth Patching	SF
Durability Cracking	Low	Monitor Pavement	-
Durability Cracking	Medium	PCC Full-Depth Patching	SF
Durability Cracking	High	PCC Slab Replacement	SF
Jt. Seal Damage	Low	PCC Joint Seal	LF
Jt. Seal Damage	Medium	PCC Joint Seal	LF
Jt. Seal Damage	High	PCC Joint Seal	LF
Small Patch	Low	Monitor Pavement	-
Small Patch	Medium	PCC Partial-Depth Patching	SF
Small Patch	High	PCC Partial-Depth Patching	SF
Large Patch	Low	Monitor Pavement	-
Large Patch	Medium	PCC Full-Depth Patching	SF
Large Patch	High	PCC Full-Depth Patching	SF
Popouts	N/A	Monitor Pavement	-
Pumping	N/A	Monitor Pavement	-
Scaling	Low	Monitor Pavement	-
Scaling	Medium	PCC Partial-Depth Patching	SF

Distress	Severity	Localized Work Type	Work Type Unit
Scaling	High	PCC Slab Replacement	SF
Faulting	Low	Monitor Pavement	-
Faulting	Medium	Grinding	SF
Faulting	High	PCC Slab Replacement	SF
Shattered Slab	Low	PCC Crack Sealing	LF
Shattered Slab	Medium	PCC Slab Replacement	SF
Shattered Slab	High	PCC Slab Replacement	SF
Shrinkage Cracking	N/A	Monitor Pavement	-
Joint Spall	Low	Monitor Pavement	-
Joint Spall	Medium	PCC Partial-Depth Patching	SF
Joint Spall	High	PCC Partial-Depth Patching	SF
Corner Spall	Low	Monitor Pavement	-
Corner Spall	Medium	PCC Partial-Depth Patching	SF
Corner Spall	High	PCC Partial-Depth Patching	SF
ASR	Low	Monitor Pavement	-
ASR	Medium	PCC Slab Replacement	SF
ASR	High	PCC Slab Replacement	SF

Table 5.4.4 (b): Localized Stopgap Maintenance and Repair Policy

Distress	Severity	Localized Work Type	Work Type Unit
Alligator Cracking	Low	Monitor Pavement	-
Alligator Cracking	Medium	AC Full-Depth Patching	SF
Alligator Cracking	High	AC Full-Depth Patching	SF
Bleeding	N/A	Monitor Pavement	-
Block Cracking	Low	Monitor Pavement	-
Block Cracking	Medium	Monitor Pavement	-
Block Cracking	High	AC Crack Sealing	LF
Corrugation	Low	Monitor Pavement	-
Corrugation	Medium	Monitor Pavement	-
Corrugation	High	AC Full-Depth Patching	SF
Depression	Low	Monitor Pavement	-
Depression	Medium	Monitor Pavement	-
Depression	High	AC Full-Depth Patching	SF
Jet Blast	N/A	Monitor Pavement	-
Jt. Reflective Cracking	Low	Monitor Pavement	-

Distress	Severity	Localized Work Type	Work Type Unit
Jt. Reflective Cracking	Medium	Monitor Pavement	-
Jt. Reflective Cracking	High	AC Crack Sealing	LF
L&T Cracking	Low	Monitor Pavement	-
L&T Cracking	Medium	Monitor Pavement	-
L&T Cracking	High	AC Crack Sealing	LF
Oil Spillage	N/A	Monitor Pavement	-
Patching	Low	Monitor Pavement	-
Patching	Medium	Monitor Pavement	-
Patching	High	AC Full-Depth Patching	SF
Polished Aggregate	N/A	Monitor Pavement	-
Raveling	Low	Monitor Pavement	-
Raveling	Medium	Monitor Pavement	-
Raveling	High	AC Partial-Depth Patching	SF
Rutting	Low	Monitor Pavement	-
Rutting	Medium	Monitor Pavement	-
Rutting	High	AC Full-Depth Patching	SF
Shoving	Low	Monitor Pavement	-
Shoving	Medium	Monitor Pavement	-
Shoving	High	AC Full-Depth Patching	SF
Slippage Cracking	N/A	AC Full-Depth Patching	SF
Swelling	Low	Monitor Pavement	-
Swelling	Medium	Monitor Pavement	-
Swelling	High	AC Full-Depth Patching	SF
Weathering	Low	Monitor Pavement	-
Weathering	Medium	Monitor Pavement	-
Weathering	High	Surface Seal	SF
Blow-up	Low	Monitor Pavement	-
Blow-up	Medium	PCC Full-Depth Patching	SF
Blow-up	High	PCC Slab Replacement	SF
Corner Break	Low	Monitor Pavement	-
Corner Break	Medium	PCC Full-Depth Patching	SF
Corner Break	High	PCC Full-Depth Patching	SF
Linear Cracking	Low	Monitor Pavement	-
Linear Cracking	Medium	PCC Crack Sealing	LF
Linear Cracking	High	PCC Crack Sealing	LF
Durability Cracking	Low	Monitor Pavement	-

Distress	Severity	Localized Work Type	Work Type Unit
Durability Cracking	Medium	PCC Full-Depth Patching	SF
Durability Cracking	High	PCC Slab Replacement	SF
Jt. Seal Damage	Low	Monitor Pavement	-
Jt. Seal Damage	Medium	Monitor Pavement	-
Jt. Seal Damage	High	PCC Joint Seal	LF
Small Patch	Low	Monitor Pavement	-
Small Patch	Medium	Monitor Pavement	-
Small Patch	High	PCC Partial-Depth Patching	SF
Large Patch	Low	Monitor Pavement	-
Large Patch	Medium	Monitor Pavement	-
Large Patch	High	PCC Full-Depth Patching	SF
Popouts	N/A	Monitor Pavement	-
Pumping	N/A	Monitor Pavement	-
Scaling	Low	Monitor Pavement	-
Scaling	Medium	Monitor Pavement	-
Scaling	High	PCC Slab Replacement	SF
Faulting	Low	Monitor Pavement	-
Faulting	Medium	Monitor Pavement	-
Faulting	High	PCC Slab Replacement	SF
Shattered Slab	Low	Monitor Pavement	-
Shattered Slab	Medium	PCC Crack Sealing	LF
Shattered Slab	High	PCC Slab Replacement	SF
Shrinkage Cracking	N/A	Monitor Pavement	-
Joint Spall	Low	Monitor Pavement	-
Joint Spall	Medium	PCC Partial-Depth Patching	SF
Joint Spall	High	PCC Partial-Depth Patching	SF
Corner Spall	Low	Monitor Pavement	-
Corner Spall	Medium	PCC Partial-Depth Patching	SF
Corner Spall	High	PCC Partial-Depth Patching	SF
ASR	Low	Monitor Pavement	-
ASR	Medium	PCC Slab Replacement	SF
ASR	High	PCC Slab Replacement	SF

5.5 Major Rehabilitation

Major rehabilitation is recommended to correct or improve structural deficiencies and/or functional deterioration. Often, when pavements are subject to significant changes in the aircraft fleet mix (frequency and type), major rehabilitation is required to provide a pavement section that can meet the structural demands of traffic loading. Major rehabilitation is generally described as a pavement construction that removes and replaces the pavement surface, thus resetting the PCI value to 100 and the pavement age to zero. Typical policies include full- and partial-depth reconstruction and mill and overlay.

5.5.1 Major Rehabilitation Pavement Section Development

Once the timing of the major rehabilitation activity is determined based on the PCI value, existing as-built record documentation is used to determine typical rehabilitation processes and pavement sections. Refinement of the pavement section layers is performed in consideration of the FAA AC 150/5320-6F. It should be noted that no subsurface geotechnical investigation, American Land Title Association (ALTA)/American Congress on Surveying and Mapping (ACSM) Survey, topographic survey, utilities survey, environmental, or site-specific air traffic study(s) have been utilized in the development of the design criteria. No warranty or assurance is implied in this document for final design nor construction for any airfield pavements discussed within this Report.

Major rehabilitation is divided into two policy categories as part of this System Update: Full-Depth Reconstruction (Reconstruction) and Intermediate Major Rehabilitation (Rehabilitation). Based on the pavement type, the general categories are defined as AC Reconstruction and AC Rehabilitation for AC, AAC, and APC pavement types; and PCC Reconstruction and PCC Rehabilitation for PCC pavement types. The pavement sections are based on the average GA Airport Type requirements; no pavement design has been performed in accordance with the FAA AC 150/5320-6F for the determined conceptual sections. **Table 5.5.1** provide details on the conceptual pavement sections developed for this study.

Table 5.5.1: Conceptual Pavement Sections for Major Rehabilitation

Rehabilitation Type	General Aviation Pavement Section
AC Reconstruction	
<i>Full-depth asphalt pavement section reconstruction. Removal of existing pavement section and construction of a new section.</i> PCI = 54 or less	Pavement Removal
	Unclassified Excavation
	Subgrade Stabilization (12")
	Limerock Base Course (6")
	Prime Coat
	Tack Coat
	P-401 Surface Course (3")
	<i>Excludes any paved shoulder features</i>
AC Rehabilitation	
<i>Combination of asphalt pavement milling and replacement overlay with 25% of the areas subject to full-depth reconstruction.</i> PCI = 55 to 69	25% AC Reconstruction
	Mill and Overlay
	AC Milling (3")
	Tack Coat
	P-401 Surface Course (3")
	<i>Excludes any paved shoulder features</i>
PCC Reconstruction	
<i>Full-depth rigid pavement section reconstruction.</i> PCI = 54 or less	Pavement Removal
	Unclassified Excavation
	Subgrade Stabilization (6")
	Limerock Base Course (6")
	P-501 PCC Pavement (8")
	PCC Joint Seal
PCC Rehabilitation	
<i>Rehabilitation of PCC pavement with a combination of crack sealing, joint seal replacement, limited patching, and replacement of 25% of slab panels.</i> PCI = 55 to 69	25% Slab Replacement
	Joint and Crack Seal
	Limited Patching

The identification of rehabilitation needs and conceptual pavement sections have been determined at the planning level. Design-level investigation is recommended prior to developing construction-level design documents and budgets. This type of construction typically warrants consideration for non-pavement efforts that may include drainage, turfing, electrical lighting, pavement marking, construction contingency, mobilization costs, and project soft costs.

Reconstruction (AC or PCC)

Reconstruction is the removal and replacement of the existing AC or PCC pavement and base layer and includes preparation of the existing subgrade material. This technique is utilized when the pavement is badly deteriorated or a structural improvement is required. Reconstruction is used when the pavements are structurally deficient and an overlay is not possible due to adjacent pavement grades.

AC Rehabilitation

AC Rehabilitation, for the purposes of this SAPMP, is a removal of all or a portion of the asphalt surface through milling and replacing the milled depth with an overlay of asphalt. This rehabilitation activity is typically applied to pavement that does not require a structural improvement and does not display an extensive amount of load-related distresses. However, this work type conservatively accounts for 25% of the planned area to receive a full-depth replacement of the pavement structure. This is meant to capture any deficiencies that may not be apparent from a visual evaluation of the surface of the pavement. This work type occurs on pavement sections with a PCI value above 54. As a general rule of thumb, intermediate rehabilitation activities have a shorter pavement life compared to a full-depth reconstruction, but AC Rehabilitation will still reset the pavement to a PCI of 100.

PCC Rehabilitation

PCC Rehabilitation, for the purposes of this SAPMP, is a planning-level estimate of several concurrent PCC maintenance activities intended to raise the PCI above Critical without reconstructing the entire area. This work type accounts for the replacement of 25% of the slabs as well as a PCC patching, crack sealing, and joint sealing for areas outside of the panel replacement. This work type occurs on pavement sections with a PCI value above 54.


5.5.2 Major Rehabilitation Planning-Level Unit Costs

Planning-level opinions of probable construction cost developed for this System Update are based on archived bid tabulations and records from airfield pavement projects provided by participating airports. A review of cost trends and cost factors have been incorporated to assist airports in planning for project budgets.


Neither the FDOT nor the Consultant team have control over the cost of labor, materials, equipment, Contractor's methods of determining prices, or over competitive bidding or market conditions. Opinions of probable construction costs provided herein are based on the information known to the FDOT at this time and represent only the Consultant team's judgment as a design professional familiar with the construction industry. This Report cannot and does not guarantee that proposals, bids, or actual construction costs will not vary from its opinions of probable construction costs. **Table 5.5.2** depicts the associated work type planning-level unit costs for Major Rehabilitation for each pavement type.

Table 5.5.2: GA Major Rehabilitation Planning-Level Unit Cost by Pavement Type

Rehabilitation Type	PCI Range	Asphalt Concrete Cost per SF	Portland Cement Concrete Cost Per SF
Rehabilitation	55 to 69	\$ 7.00	\$ 14.00
Reconstruction	0 to 54	\$ 10.50	\$ 22.25



Chapter 6: M&R Planning and Budget Scenario Analysis



Chapter 6 – M&R Planning and Budget Scenario Analysis

6.1 Localized Maintenance and Repair Analysis and Recommendations

This FDOT SAPMP System Update provides a planning-level estimation of Localized Maintenance and Repair costs based on the results of the latest PCI assessment performed at the Airport. Due to the limited sample units inspected in certain pavement sections, a statistical extrapolation of distresses is used to estimate the quantities of recommended repair activities at the section level, based the policies defined in **5.4.4 Localized Maintenance and Repair Policy**. These work quantities are limited to a near-term application since they were determined directly from the PCI assessment efforts. As pavements continue to deteriorate year-to-year, quantities and/or distress severities may increase, which will affect the amount and type of localized maintenance required. This analysis can be utilized as a planning tool to assist airport staff in determining an annual budget allocation for maintenance activities that will help maintain airport pavements above the critical PCI value and extend the life of the pavement.

Table 6.1 (a) provides a summary of the anticipated planning-level costs for Year 1 Localized Preventive Maintenance and Localized Stopgap Maintenance. The following table depicts planning-level costs rounded up to the next 10-dollar increment.

Table 6.1 (a): Year 1 Summary of Localized Maintenance

Work Category	Cost
Preventive	\$ 3,000
Stopgap	\$ -
Planning-Level Localized M&R Needs =	\$ 3,000

Localized Preventive Maintenance is typically applied to pavements that are in a condition above the critical PCI value of the pavement section. Localized Stopgap Maintenance is typically applied to pavement sections that are at or below the critical PCI value. Application of localized maintenance and repair should be coordinated with the planning of Major Rehabilitation efforts identified through the major rehabilitation analysis. Pavements with stopgap recommendations that are subject to near-term major rehabilitation efforts may remove the need to perform localized (stopgap) maintenance efforts in subsequent years.

Table 6.1 (b) summarizes the anticipated Year 1 Localized Maintenance recommendations by work type, based on the PCI assessment efforts performed as part of this SAPMP System Update. The following table depicts planning-level costs rounded up to the next 10-dollar increment.

Table 6.1 (b): Year 1 Localized Maintenance by Work Type Summary

Localized Maintenance Category	Localized Work Type	Rough Estimate of Work Quantity	Work Units	Planning Material Cost
Localized Preventive Maintenance	Surface Seal	5,943	SF	\$ 3,000

Table 6.1 (c) provides a breakdown of the anticipated planning-level costs by section for those areas exhibiting distresses that would benefit from Year 1 Localized M&R. The table shows the approximate improved “End Condition” PCI value of the section after the application of Localized M&R. This approximation is intended to depict a planning-level estimate of the effect of the localized M&R on the section-level PCI; the performance of the work does not guarantee the pavement will not deteriorate in other ways outside of the described treatment. The following table depicts planning-level costs rounded up to the next 10-dollar increment.

Table 6.1 (c): Section-Level Year 1 Localized M&R Planning Cost Summary

Network ID	Branch ID	Section ID	Area (SF)	Start PCI	End PCI	Cost
INF	RW 1-19	6105	375,075	86	86	\$ 10
INF	TW A	105	173,773	89	89	\$ -
INF	TW A	110	7,298	90	90	\$ -
INF	TW A	130	11,520	89	89	\$ -
INF	TW A1	115	9,072	81	84	\$ 230
INF	TW A2	120	9,072	86	89	\$ 230
INF	TW A3	125	9,072	84	89	\$ 260
INF	TL GA AP	205	40,628	61	61	\$ -
INF	AP FBO	4205	73,563	87	89	\$ 1,590
INF	AP FBO	4210	127,054	83	83	\$ -
INF	AP GA	4005	35,044	55	55	\$ -
INF	AP GA	4015	26,880	86	89	\$ 680
INF	AP GA	4020	72,207	88	88	\$ -
INF	AP T-HANG	4305	35,370	88	88	\$ -

6.2 Major Rehabilitation Needs

Major rehabilitation is identified within the FDOT SAPMP as a major construction activity that results in a substantial improvement to the pavement condition and resets the pavement section’s PCI value to 100. Major rehabilitation recommendations (AC Rehabilitation, AC Reconstruction, PCC Rehabilitation, and PCC Reconstruction) should be considered as planning-level only. Additional design-level investigation in accordance with FAA Advisory Circulars is required. Recommendations identified within this planning document do not imply final design.

The objective of the Major Pavement Rehabilitation Needs analysis is to develop planning-level projects within an Airport’s airfield pavement network. As depicted in **Figure 5.2 (a) and (b)** in **Chapter 5**, major rehabilitation activities are recommended when a pavement section has deteriorated below the critical PCI value, a point at which localized maintenance and repair activities may not be a cost-effective solution. In addition, major rehabilitation is also recommended when the section’s PCI value is above the critical PCI value with the section

exhibiting a significant amount of load-related distresses. Identification of rehabilitation needs is done at the section-level. This, however, does not limit the Airport from further refining limits of project planning areas.

6.2.1 10-Year Unconstrained Budget Major Rehabilitation Needs

Major rehabilitation needs are identified by analyzing the airport's pavement condition in relationship to critical PCI values, major rehabilitation policies, and unit costs, assuming there are no budget constraints. This is done over a 10-year analysis period. While this is financially impractical, it does yield the unbiased pavement needs over a 10-year time frame at the airport given current and forecasted pavement conditions. The FDOT recognizes that airports are constrained by budgets and does not intend to convey an unrealistic approach of addressing pavement rehabilitation. Each airport has a unique set of challenges and FDOT's goals are to provide it with the data needed to formulate a practical Capital Improvement Program and identify needs in the Joint Automated Capital Improvement Program (JACIP). This includes:

- » An estimation of current pavement condition;
- » Major pavement rehabilitation needs based on condition and policies; and
- » Planning-level cost estimates for the major rehabilitation needs.

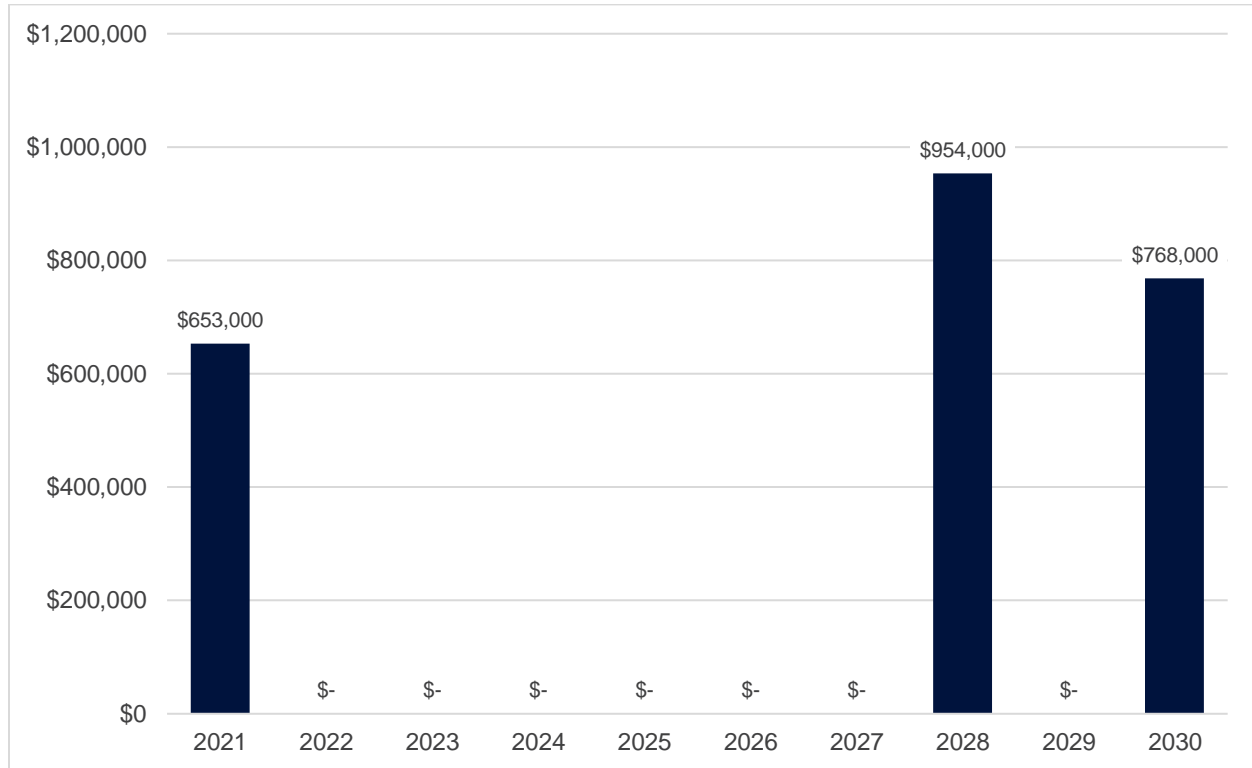
Table 6.2.1 (a) summarizes section-level major rehabilitation needs forecasted for a 10-year period. It should be noted that the following table depicts planning-level costs and has been rounded to the nearest \$1,000 for planning purposes.

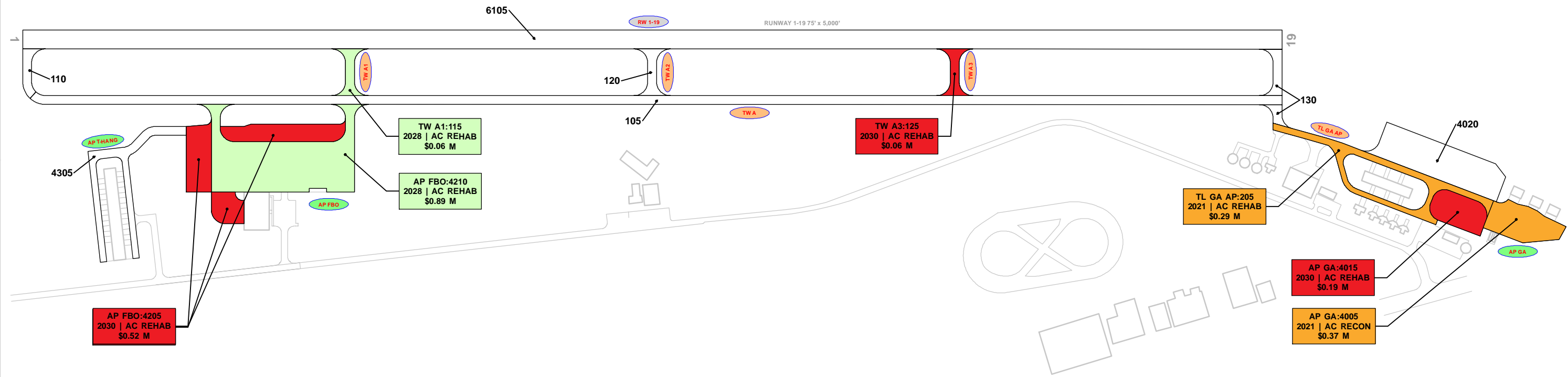
Table 6.2.1 (a): Section-Level 10-Year Major Rehabilitation Needs

Program Year	Network ID	Branch ID	Section ID	Surface	Area (SF)	PCI Before	Rehabilitation Type	Planning Cost Estimate
2021	INF	TL GA AP	205	AC	40,628	61	AC Rehabilitation	\$ 285,000
2021	INF	AP GA	4005	AC	35,044	54	AC Reconstruction	\$ 368,000
2028	INF	TW A1	115	AC	9,072	69	AC Rehabilitation	\$ 64,000
2028	INF	AP FBO	4210	AC	127,054	69	AC Rehabilitation	\$ 890,000
2030	INF	TW A3	125	AC	9,072	69	AC Rehabilitation	\$ 64,000
2030	INF	AP FBO	4205	AC	73,563	69	AC Rehabilitation	\$ 515,000
2030	INF	AP GA	4015	AC	26,880	68	AC Rehabilitation	\$ 189,000

Figure 6.2.1 (a) summarizes the section-level major rehabilitation needs for a 10-year period between 2021 and 2030. **Figure 6.2.1 (b)**, the Airfield Pavement Major Rehabilitation Exhibit, graphically depicts the major rehabilitation needs with rounded costs. As suggested previously, this is planning-level data that can be used by the Airport to support developing a practical CIP.

Figure 6.2.1 (a): 10-Year Major Rehabilitation Needs by Program Year





LEGEND

RW 13-31 — TYPICAL RUNWAY BRANCH ID

TW A — TYPICAL TAXIWAY BRANCH ID

AP S — TYPICAL APRON BRANCH ID

PROGRAM YEAR

2021	2026
2022	2027
2023	2028
2024	2029
2025	2030

"BRANCH", "SECTION"
"YEAR", "REHAB ACTIVITY"
"EST. COST"

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



Chapter 7: Conclusion



Chapter 7 – Conclusion

7.1 Recommendations

7.1.1 Continued PCI Surveys

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

A high priority should be placed on maintaining good record keeping and re-inspecting the Airport's maintained pavement facilities to ensure continued safe aircraft operations. Per the FAA AC 150/5380-7B, a series of scheduled periodic inspections must be carried out for an effective maintenance program. Re-inspection of pavements should be scheduled in a timely manner to ensure that all areas, particularly those that may not come under day-to-day observation, are thoroughly evaluated and reported.

7.1.2 Localized Maintenance and Repair

While deterioration of the pavements due to usage and exposure to the environment cannot be prevented, applying timely and effective maintenance efforts can slow the anticipated rate of deterioration. Lack of adequate and timely maintenance is a significant factor in pavement deterioration. **Chapter 6** identified localized maintenance and repair needs. It is recommended that Airport sponsors coordinate with their respective airport maintenance staff and airport engineer when developing project-level maintenance and repair efforts.

7.1.3 Major Rehabilitation

Chapter 6 also identified major pavement rehabilitation project needs from 2021-2030. Identification of these rehabilitation needs are performed at the section level for manageable project areas and assume an unconstrained budget scenario. Given the uncertainty in Airport-specific budget information and prioritization goals, the unconstrained budget scenario represents a conservative scenario and identifies pavement needs over a 10-year period. Certainly, it is understood that most airports are faced with constrained budgets, thus further evaluation of projects based on prioritization, operational criticality, funding availability, and practicality is recommended.

7.1.4 Pavement Management System

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

- » Develop a detailed preventive maintenance program for the Airport based on the recommendations provided in **Section 6.1**;
- » Further refine and implement the identified 10-year major rehabilitation needs provided in **Section 6.2**;
- » Maintain detailed records on pavement maintenance, construction, and inspection; and
- » Maintain records on major pavement construction projects (year, scope, cost, and construction documents).

7.2 Supporting Documents

Airfield Pavement Network Definition Exhibit

The Airfield Pavement Network Definition Exhibit is located in **Chapter 3** and **Appendix C**. The Exhibit depicts the airfield layout in a manner that defines the airfield pavement infrastructure as branches, sections, and sample units in accordance with the ASTM D5340-12. The Exhibit is intended for planning purposes only. Further details can be found on the Airport's adopted Airport Layout Plan. Detailed characteristics are tabulated in **Appendix A**.

Airfield Pavement System Inventory Exhibit

The Airfield Pavement System Inventory Exhibit is located in **Chapter 3** and **Appendix C**. The Exhibit depicts recent and/or anticipated construction activity within the airfield pavement facilities reported by Airport staff. The Exhibit is intended to schematically identify the pavement limits of work and general work description. The information reported on the Airport Response Form provided by each participating airport was used as the basis of the changes. Furthermore, changes are confirmed at the Airport with Airport staff during the in-brief and debrief meeting.

Airfield Pavement Estimated Age Exhibit

The Airfield Pavement Estimated Age Exhibit is located in **Chapter 3** and **Appendix C**. Based on the review of historic airfield pavement construction activities, the Exhibit provides the approximate limits of the age of the pavement sections since the last major construction activity has occurred. This is intended to be a rough estimate based on interpretation of the limited data available at the time of report.

Airfield Pavement Condition Index Exhibit

The Airfield Pavement Condition Index Exhibit is located in **Chapter 4** and **Appendix C**. The Exhibit is a visual summary of the latest conditions reported from the PCI assessment performed at the Airport. Distress analysis occurred in accordance with ASTM D5340-12 (referenced in **Appendix E**), with results being analyzed using PAVER™ software to determine PCI values. The PCI values are identified in the Exhibit and graphically represented using the standard ASTM D5340-12 condition rating categories.

Airfield Pavement Major Rehabilitation Exhibit

The Airfield Pavement Major Rehabilitation Exhibit is located in **Chapter 6** and **Appendix C**. The Exhibit has been prepared based on the section condition analysis, pavement condition forecasts, and major rehabilitation needs analysis. The Exhibit graphically depicts the inventory with the associated rehabilitation type activity, program year, and the planning-level costs. Area limits, rehabilitation type, and planning-level costs should not be considered a design-level recommendation. A tabulation of the 10-Year Major Rehabilitation is located in **Appendix B**.

Inspection Photograph Documentation

Representative field conditions from the PCI assessment are documented with digital photographs located in **Appendix D**. Select photographs are provided with a limited caption on the distress(es) observed. "Vicinity" photos refer to the approximate boundaries of an inspected sample unit within the section and provide an overview of the section condition but are not focused on a specific distress. The Appendix does not contain photographs for every section and sample unit.

7.3 Conclusion

The FDOT SAPMP System Update Phase 1 2020-2021 was completed for the Airport on behalf of the FDOT AO in accordance with the FAA AC 150/5380-7B and 150/5380-6C. FDOT's implementation of the SAPMP has assisted public airports with this requirement in performing PCI survey inspections and analysis in accordance with the ASTM D5340-12.

7.4 References

The following documents are referenced as specific guidelines and procedures for maintaining airport pavements, establishing an effective pavement maintenance program, and identifying specific pavement distresses, probable causes of distresses, survey guidelines, and recommended methods of repair.

- » ASTM D5340-12, Standard Test Method for Airport Pavement Condition Index Surveys, American Society for Testing and Materials, West Conshohocken, PA, 2018.
- » AC 150/5210-24 Airport Foreign Object Debris (FOD) Management, Federal Aviation Administration, Washington, D.C., 2010.
- » AC 150/5320-6F, Airport Pavement Design and Evaluation, Federal Aviation Administration, Washington, D.C., 2016.
- » AC 150/5380-7B, Airport Pavement Management Program (PMP), Federal Aviation Administration, Washington, D.C., 2014.
- » AC 150/5380-6C, Guidelines and Procedures for Maintenance of Airport Pavements, Federal Aviation Administration, Washington, D.C., 2014.
- » AC 150/5370-10H, Standard Specifications for Construction of Airports, Federal Aviation Administration, Washington, D.C., 2018.
- » Airport Improvement Program Handbook, Order 5100.38D, Change 1, Federal Aviation Administration, Washington, D.C., 2019.
- » Tri-Service Pavements Working Group (TSPWG) Manual 3-270-08. 14-03, Preventive Maintenance Plan (PMP) for Airfield Pavements, Department of Defense, Washington, D.C., 2019.
- » Unified Facilities Criteria (UFC) 3-260-16, O&M Manual: Standard Practice for Airfield Pavement Condition Surveys, Department of Defense, Washington, D.C., 2018.
- » Unified Facilities Criteria (UFC) 3-260-03, Airfield Pavement Evaluation, Department of Defense, Washington, D.C., 2001.
- » Shahin, Mohamed Y., Pavement Management for Airports, Roads, and Parking Lots, Springer, 200

A photograph of a long, straight asphalt runway stretching towards the horizon under a bright blue sky with scattered white clouds. The runway has a central white dashed line and yellow edge lines. The image is framed by a red diagonal bar on the left and a blue diagonal bar on the right.

Appendix A: Airfield Pavement Analysis

A close-up, low-angle view of the runway pavement, showing a white dashed line and yellow chevron markings. The image is framed by a red diagonal bar on the left and a blue diagonal bar on the right.

Table A.1: Pavement System Inventory Details

Network ID	Branch ID	Branch Use	Section ID	Area (SF)	Surface Type	Estimate of Last Construction Date
INF	RW 1-19	Runway	6105	375,075	AC	1/1/2010
INF	TW A	Taxiway	105	173,773	AC	1/1/2010
INF	TW A	Taxiway	110	7,298	AC	1/1/2010
INF	TW A	Taxiway	130	11,520	AC	1/1/2010
INF	TW A1	Taxiway	115	9,072	AC	1/1/2010
INF	TW A2	Taxiway	120	9,072	AC	1/1/2010
INF	TW A3	Taxiway	125	9,072	AC	1/1/2010
INF	TL GA AP	Taxilane	205	40,628	AC	1/1/1997
INF	AP FBO	Apron	4205	73,563	AC	1/1/2013
INF	AP FBO	Apron	4210	127,054	AC	10/1/2011
INF	AP GA	Apron	4005	35,044	AC	1/1/1997
INF	AP GA	Apron	4015	26,880	AC	1/1/2011
INF	AP GA	Apron	4020	72,207	AC	1/1/2011
INF	AP T-HANG	Apron	4305	35,370	AC	7/1/2014

Table A.2: Pavement Condition Index Summary (Current PCI Survey) – Section Level

Network ID	Branch ID	Branch Use	Section ID	Area (SF)	PCI	Condition Rating
INF	RW 1-19	Runway	6105	375,075	86	Good
INF	TW A	Taxiway	105	173,773	89	Good
INF	TW A	Taxiway	110	7,298	90	Good
INF	TW A	Taxiway	130	11,520	89	Good
INF	TW A1	Taxiway	115	9,072	81	Satisfactory
INF	TW A2	Taxiway	120	9,072	86	Good
INF	TW A3	Taxiway	125	9,072	84	Satisfactory
INF	TL GA AP	Taxilane	205	40,628	61	Fair
INF	AP FBO	Apron	4205	73,563	87	Good
INF	AP FBO	Apron	4210	127,054	83	Satisfactory
INF	AP GA	Apron	4005	35,044	55	Poor
INF	AP GA	Apron	4015	26,880	86	Good
INF	AP GA	Apron	4020	72,207	88	Good
INF	AP T-HANG	Apron	4305	35,370	88	Good

Table A.3: Forecasted PCI Values 2021-2030 – Section-Level

Network ID	Branch ID	Section ID	Current PCI	Forecasted PCI									
				2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
INF	RW 1-19	6105	86	85	83	81	80	78	77	75	74	73	72
INF	TW A	105	89	87	85	83	82	80	78	77	75	74	72
INF	TW A	110	90	88	86	84	82	81	79	77	76	74	73
INF	TW A	130	89	87	85	83	82	80	78	77	75	74	72
INF	TW A1	115	81	80	78	76	75	73	72	71	69	68	67
INF	TW A2	120	86	84	82	81	79	77	76	74	73	72	70
INF	TW A3	125	84	82	81	79	77	76	74	73	72	70	69
INF	TL GA AP	205	61	61	60	59	58	58	57	57	56	56	55
INF	AP FBO	4205	87	85	83	81	79	77	76	74	72	71	69
INF	AP FBO	4210	83	81	79	78	76	74	72	71	69	68	66
INF	AP GA	4005	55	54	54	53	52	51	50	50	49	48	47
INF	AP GA	4015	86	84	82	80	78	77	75	73	72	70	68
INF	AP GA	4020	88	86	84	82	80	78	76	75	73	71	70
INF	AP T-HANG	4305	88	86	84	82	80	78	76	75	73	71	70

3/3/2021

Work History Report

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Pavement Database: FDOT

Network: INVERNESS AIRPO		Branch: AP FBO		FBO APRON		Section: 4205	Surface: AC
L.C.D. 1/1/2013	Use: APRON	Rank: P	Length: 200.00 (Ft)	Width: 300.00 (Ft)	Est. Area: 73563.00002 (SqFt)		
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments	
1/1/2013	NU-IN	New Construction - Initial	0.00	0.00	<input checked="" type="checkbox"/>		

Network: INVERNESS AIRPO		Branch: AP FBO		FBO APRON		Section: 4210	Surface: AC
L.C.D. 10/1/2011	Use: APRON	Rank: P	Length: 500.00 (Ft)	Width: 200.00 (Ft)	Est. Area: 127054.00000 (SqFt)		
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments	
10/1/2011	NU-IN	New Construction - Initial	0.00	0.00	<input checked="" type="checkbox"/>		

Network: INVERNESS AIRPO		Branch: AP GA		GA APRON		Section: 4005	Surface: AC
L.C.D. 1/1/1997	Use: APRON	Rank: P	Length: 300.00 (Ft)	Width: 130.00 (Ft)	Est. Area: 35044.00001 (SqFt)		
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments	
1/1/1997	IMPORT ED	BUILT	0.00	2.00	<input checked="" type="checkbox"/>	1997: 2" P401 ON 6" P211	

Network: INVERNESS AIRPO		Branch: AP GA		GA APRON		Section: 4015	Surface: AC
L.C.D. 1/1/2011	Use: APRON	Rank: P	Length: 230.00 (Ft)	Width: 127.00 (Ft)	Est. Area: 26880.00000 (SqFt)		
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments	
1/1/2011	NC-AC	New Construction - AC	0.00	0.00	<input checked="" type="checkbox"/>		

Network: INVERNESS AIRPO		Branch: AP GA		GA APRON		Section: 4020	Surface: AC
L.C.D. 1/1/2011	Use: APRON	Rank: P	Length: 522.00 (Ft)	Width: 136.00 (Ft)	Est. Area: 72207.00002 (SqFt)		
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments	
1/1/2011	NC-AC	New Construction - AC	0.00	0.00	<input checked="" type="checkbox"/>		

Network: INVERNESS AIRPO		Branch: AP T-HANG		T-HANGAR APR		Section: 4305	Surface: AC
L.C.D. 7/1/2014	Use: APRON	Rank: P	Length: 885.00 (Ft)	Width: 25.00 (Ft)	Est. Area: 35370.00001 (SqFt)		
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments	
7/1/2014	NC-AC	New Construction - AC	0.00	0.00	<input checked="" type="checkbox"/>		

Network: INVERNESS AIRPO		Branch: RW 1-19		RUNWAY 1-19		Section: 6105	Surface: AC
L.C.D. 1/1/2010	Use: RUNWAY	Rank: P	Length: 5,000.00 (Ft)	Width: 75.00 (Ft)	Est. Area: 375075.00001 (SqFt)		
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments	
1/1/2017	PA-AC	Patching - AC	0.00	0.00	<input type="checkbox"/>	1996 AC PAVEMENT	
1/1/2010	CR-AC	Complete Reconstruction - AC	0.00	0.00	<input checked="" type="checkbox"/>		
1/1/2005	ST-SC	Surface Treatment - Seal Coat	0.00	0.00	<input type="checkbox"/>		
1/1/1996	IMPORT ED	BUILT	0.00	0.00	<input checked="" type="checkbox"/>		

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Work History Report

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Pavement Database: FDOT

Network: INVERNESS AIRPO		Branch: TL GA AP		TAXILANE TO G		Section: 205	Surface: AC
L.C.D. 1/1/1997		Use: TAXILAN	Rank: P	Length: 1,500.00 (Ft)	Width: 30.00 (Ft)	Est. Area: 40628.00001 (SqFt)	
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments	
1/1/1997	IMPORT ED	BUILT	0.00	2.00	<input checked="" type="checkbox"/>	1997: 2" P401 ON 6" P211	

Network: INVERNESS AIRPO		Branch: TW A		TAXIWAY A		Section: 105	Surface: AC
L.C.D. 1/1/2010		Use: TAXIWAY	Rank: P	Length: 4,986.00 (Ft)	Width: 35.00 (Ft)	Est. Area: 173773.0000 (SqFt)	
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments	
1/1/2010	CR-AC	Complete Reconstruction - AC	0.00	0.00	<input checked="" type="checkbox"/>	1996 AC OVERLAY	
1/1/1996	IMPORT ED	OVERLAY	0.00	0.00	<input checked="" type="checkbox"/>		
1/1/1979	IMPORT ED	BUILT	0.00	0.00	<input checked="" type="checkbox"/>	1979: AC PAVEMENT	

Network: INVERNESS AIRPO		Branch: TW A		TAXIWAY A		Section: 110	Surface: AC
L.C.D. 1/1/2010		Use: TAXIWAY	Rank: P	Length: 188.00 (Ft)	Width: 35.00 (Ft)	Est. Area: 7298.000002 (SqFt)	
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments	
1/1/2010	CR-AC	Complete Reconstruction - AC	0.00	0.00	<input checked="" type="checkbox"/>	1996 AC OVERLAY	
1/1/1996	IMPORT ED	OVERLAY	0.00	0.00	<input checked="" type="checkbox"/>		
1/1/1979	IMPORT ED	BUILT	0.00	0.00	<input checked="" type="checkbox"/>	1979: AC PAVEMENT	

Network: INVERNESS AIRPO		Branch: TW A1		TAXIWAY A1		Section: 115	Surface: AC
L.C.D. 1/1/2010		Use: TAXIWAY	Rank: P	Length: 180.00 (Ft)	Width: 35.00 (Ft)	Est. Area: 9072.000002 (SqFt)	
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments	
1/1/2010	CR-AC	Complete Reconstruction - AC	0.00	0.00	<input checked="" type="checkbox"/>	1996 AC OVERLAY	
1/1/1996	OL-AS	Overlay - AC Structural	0.00	0.00	<input checked="" type="checkbox"/>		
1/1/1979	IMPORT ED	BUILT	0.00	0.00	<input checked="" type="checkbox"/>	1979: AC PAVEMENT	

Network: INVERNESS AIRPO		Branch: TW A		TAXIWAY A		Section: 130	Surface: AC
L.C.D. 1/1/2010		Use: TAXIWAY	Rank: P	Length: 180.00 (Ft)	Width: 35.00 (Ft)	Est. Area: 11520.00000 (SqFt)	
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments	
1/1/2010	CR-AC	Complete Reconstruction - AC	0.00	0.00	<input checked="" type="checkbox"/>	1997: 2" AC ON 4" LIMEROCK	
1/1/1997	IMPORT ED	BUILT	0.00	2.00	<input checked="" type="checkbox"/>		

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Work History Report

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Pavement Database: FDOT

Network: INVERNESS AIRPO **Branch:** TW A2 **TAXIWAY A2** **Section:** 120 **Surface:** AC
L.C.D. 1/1/2010 **Use:** TAXIWAY **Rank:** P **Length:** 180.00 (Ft) **Width:** 35.00 (Ft) **Est. Area:** 9072.000002 (SqFt)

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
1/1/2010	CR-AC	Complete Reconstruction - AC	0.00	0.00	<input checked="" type="checkbox"/>	1996 AC OVERLAY
1/1/1996	IMPORT ED	OVERLAY	0.00	0.00	<input checked="" type="checkbox"/>	
1/1/1979	IMPORT ED	BUILT	0.00	0.00	<input checked="" type="checkbox"/>	

Network: INVERNESS AIRPO **Branch:** TW A3 **TAXIWAY A3** **Section:** 125 **Surface:** AC
L.C.D. 1/1/2010 **Use:** TAXIWAY **Rank:** P **Length:** 180.00 (Ft) **Width:** 35.00 (Ft) **Est. Area:** 9072.000002 (SqFt)

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
1/1/2010	CR-AC	Complete Reconstruction - AC	0.00	0.00	<input checked="" type="checkbox"/>	1996 AC OVERLAY
1/1/1996	IMPORT ED	OVERLAY	0.00	0.00	<input checked="" type="checkbox"/>	
1/1/1986	IMPORT ED	BUILT	0.00	0.00	<input checked="" type="checkbox"/>	

Summary:

Work Description	Section Count	Area Total (SqFt)	Thickness Avg (in)	Thickness STD (in)
BUILT	9	670,554.00	0.67	0.94
Complete Reconstruction - AC	7	594,882.00	0.00	0.00
New Construction - AC	3	134,457.00	0.00	0.00
New Construction - Initial	2	200,617.00	0.00	0.00
OVERLAY	4	199,215.00	0.00	0.00
Overlay - AC Structural	1	9,072.00	0.00	0.00
Patching - AC	1	375,075.00	0.00	0.00
Surface Treatment - Seal Coat	1	375,075.00	0.00	0.00

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Branch Condition Report

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Pavement Database: FDOT

Branch ID	Number of Sections	Sum Section Length (Ft)	Avg Section Width (Ft)	Est. Area (SqFt)	Use	Average PCI	Standard Deviation PCI	Weighted Average PCI
AP FBO	2	700.00	250.00	200,617.00	APRON	85.00	2.00	84.47
AP GA	3	1,052.00	131.00	134,131.00	APRON	76.33	15.11	78.98
AP T-HANG	1	885.00	25.00	35,370.00	APRON	88.00	0.00	88.00
RW 1-19	1	5,000.00	75.00	375,075.00	RUNWAY	86.00	0.00	86.00
TL GA AP	1	1,500.00	30.00	40,628.00	TAXILANE	61.00	0.00	61.00
TW A	3	5,354.00	35.00	192,591.00	TAXIWAY	89.33	0.47	89.04
TW A1	1	180.00	35.00	9,072.00	TAXIWAY	81.00	0.00	81.00
TW A2	1	180.00	35.00	9,072.00	TAXIWAY	86.00	0.00	86.00
TW A3	1	180.00	35.00	9,072.00	TAXIWAY	84.00	0.00	84.00

3/3/2021**Branch Condition Report****Page 2 of 2***Pavement Database: FDOT*

Use Category	Number of Sections	Total Area (SqFt)	Arithmetic Average PCI	Average STD PCI	Weighted Average PCI
APRON	6	370,118.00	81.17	11.82	82.82
RUNWAY	1	375,075.00	86.00	0.00	86.00
TAXILANE	1	40,628.00	61.00	0.00	61.00
TAXIWAY	6	219,807.00	86.50	3.20	88.37
ALL	14	1,005,628.00	82.36	10.29	84.34

*Pavement Database: FDOT**NetworkId: INF*

Branch ID	Section ID	Last Const. Date	Surface	Use	Rank	Lanes	Est. Area (SqFt)	Last Inspection Date	Age At Inspection	PCI
AP FBO	4205	1/1/2013	AC	APRON	P	0	73,563.00	5/6/2020	7	87
AP FBO	4210	10/1/2011	AC	APRON	P	0	127,054.00	5/6/2020	9	83
AP GA	4005	1/1/1997	AC	APRON	P	0	35,044.00	5/6/2020	23	55
AP GA	4015	1/1/2011	AC	APRON	P	0	26,880.00	5/6/2020	9	86
AP GA	4020	1/1/2011	AC	APRON	P	0	72,207.00	5/6/2020	9	88
AP T-HANG	4305	7/1/2014	AC	APRON	P	0	35,370.00	5/6/2020	6	88
RW 1-19	6105	1/1/2010	AC	RUNWAY	P	0	375,075.00	5/6/2020	10	86
TL GA AP	205	1/1/1997	AC	TAXILANE	P	0	40,628.00	5/6/2020	23	61
TW A	105	1/1/2010	AC	TAXIWAY	P	0	173,773.00	5/6/2020	10	89
TW A	110	1/1/2010	AC	TAXIWAY	P	0	7,298.00	5/6/2020	10	90
TW A	130	1/1/2010	AC	TAXIWAY	P	0	11,520.00	5/6/2020	10	89
TW A1	115	1/1/2010	AC	TAXIWAY	P	0	9,072.00	5/6/2020	10	81
TW A2	120	1/1/2010	AC	TAXIWAY	P	0	9,072.00	5/6/2020	10	86
TW A3	125	1/1/2010	AC	TAXIWAY	P	0	9,072.00	5/6/2020	10	84

Pavement Database: FDOT

Age Category	Average Age at Inspection	Total Area (SqFt)	Number of Sections	Arithmetic Average PCI	Standard Deviation PCI	Weighted Average PCI
06-10	9	929,956.00	12	86.42	2.56	86.46
21-25	23	75,672.00	2	58.00	3.00	58.22
ALL	11	1,005,628.00	14	82.36	10.29	84.34



Appendix B: Maintenance and Rehabilitation Planning Needs



Table B.1: Localized Maintenance and Repair Needs Based on Current Distresses

Network ID	Branch ID	Section ID	Description	Severity	Distress Qty	Distress Unit	Distress Density	Policy Type	Localized Work Type	Work Qty	Work Unit	Unit Cost	Work Cost
INF	RW 1-19	6105	RAVELING	Low	9	SF		Preventive	Surface Seal	10	SF	\$ 0.50	\$ 10
INF	TW A1	115	WEATHERING	Medium	454	SF	5.0%	Preventive	Surface Seal	454	SF	\$ 0.50	\$ 230
INF	TW A2	120	WEATHERING	Medium	454	SF	5.0%	Preventive	Surface Seal	454	SF	\$ 0.50	\$ 230
INF	TW A3	125	RAVELING	Low	53	SF	0.6%	Preventive	Surface Seal	53	SF	\$ 0.50	\$ 30
INF	TW A3	125	WEATHERING	Medium	450	SF	5.0%	Preventive	Surface Seal	450	SF	\$ 0.50	\$ 230
INF	AP FBO	4205	WEATHERING	Medium	3,177	SF	4.3%	Preventive	Surface Seal	3,178	SF	\$ 0.50	\$ 1,590
INF	AP GA	4015	WEATHERING	Medium	1,344	SF	5.0%	Preventive	Surface Seal	1,344	SF	\$ 0.50	\$ 680

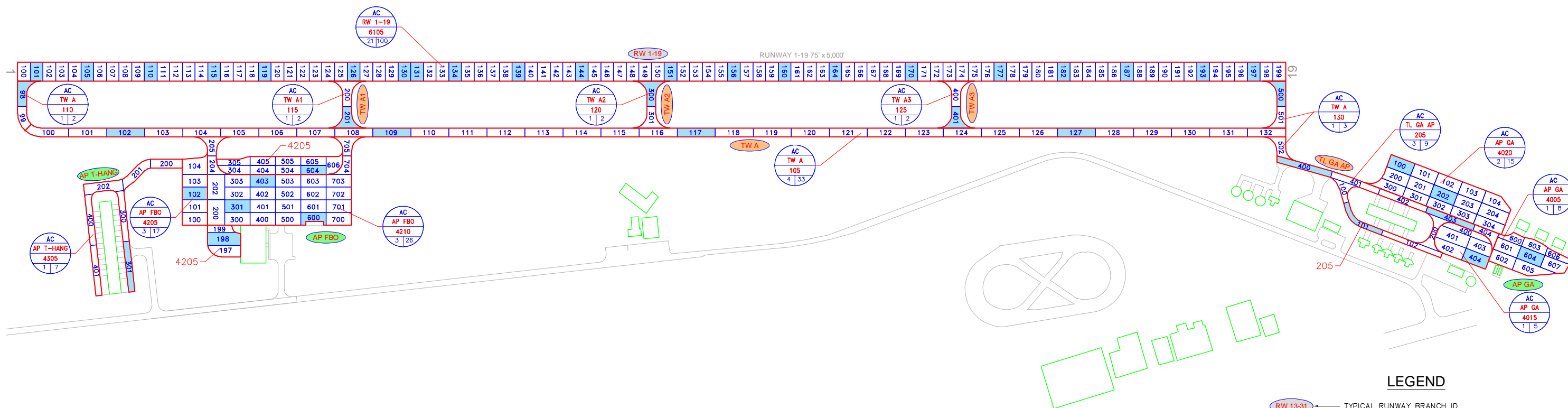
Table B.2: Section-Level 10-Year Major Rehabilitation Needs

Program Year	Network ID	Branch ID	Section ID	Surface	Area (SF)	PCI Before	Rehabilitation Type	Planning Cost Estimate
2021	INF	TL GA AP	205	AC	40,628	61	AC Rehabilitation	\$ 285,000
2021	INF	AP GA	4005	AC	35,044	54	AC Reconstruction	\$ 368,000
2028	INF	TW A1	115	AC	9,072	69	AC Rehabilitation	\$ 64,000
2028	INF	AP FBO	4210	AC	127,054	69	AC Rehabilitation	\$ 890,000
2030	INF	TW A3	125	AC	9,072	69	AC Rehabilitation	\$ 64,000
2030	INF	AP FBO	4205	AC	73,563	69	AC Rehabilitation	\$ 515,000
2030	INF	AP GA	4015	AC	26,880	68	AC Rehabilitation	\$ 189,000



Appendix C: Technical Exhibits



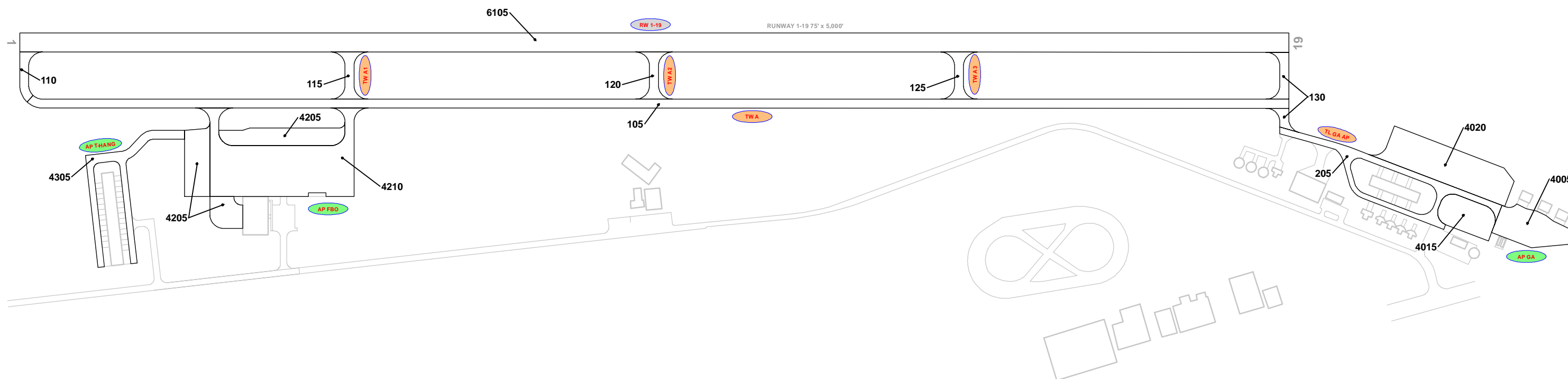
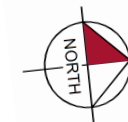


LEGEND

- RW 13-31 — TYPICAL RUNWAY BRANCH ID
- TW A — TYPICAL TAXIWAY BRANCH ID
- AP S — TYPICAL APRON BRANCH ID
- AAC
AP MAIN
4105
10 100 — PAVEMENT SURFACE TYPE
PAVEMENT BRANCH ID
SECTION NUMBER
NUMBER OF SAMPLE UNITS IN SECTION
NUMBER OF SAMPLE UNITS TO BE INSPECTED
- AAC
AP MAIN
4105
0 100 — SECTION NOT INSPECTED DUE TO RECENT CONSTRUCTION. SEE SYSTEM INVENTORY MAP FOR CONSTRUCTION DATES.
- 100 — INSPECTED SAMPLE UNITS.

TOTAL SAMPLES INSPECTED = 44
AC: 44 PCC: 0

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



RECENT & ANTICIPATED CONSTRUCTION ACTIVITY

CONSTRUCTION YEAR	LOCATION	WORK TYPE / PAVEMENT SECTION
NO INFORMATION PROVIDED		

LEGEND

RW 13-31 ← TYPICAL RUNWAY BRANCH ID

TW A ← TYPICAL TAXIWAY BRANCH ID

AP S ← TYPICAL APRON BRANCH ID

PROJECT YEAR

2016 2021

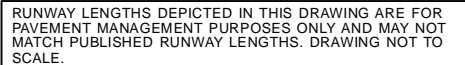
2017 2022

2018 2023

2010 2034

2020 2025

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

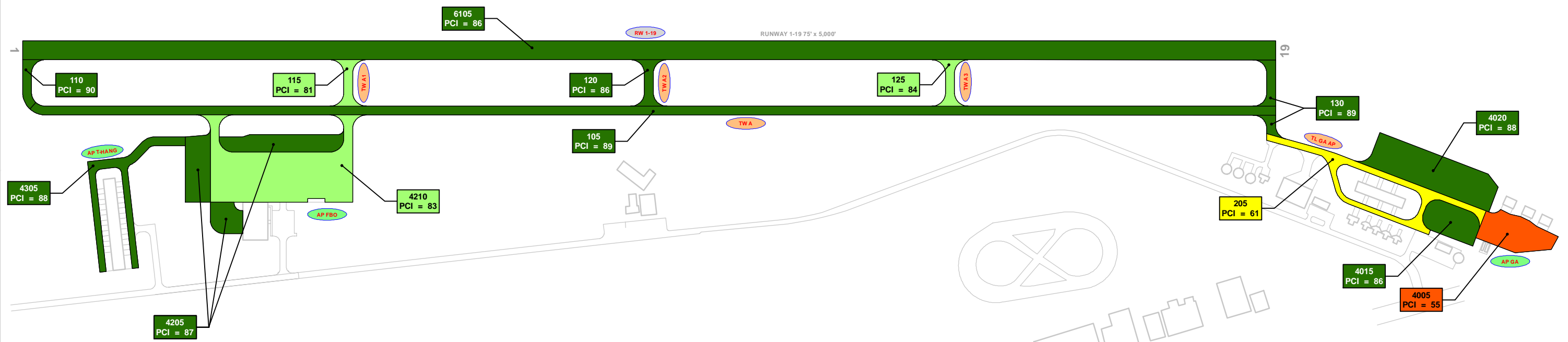


RUNWAY LENGTHS DEPICTED IN THIS DRAWING ARE FOR PAVEMENT MANAGEMENT PURPOSES ONLY AND MAY NOT MATCH PUBLISHED RUNWAY LENGTHS. DRAWING NOT TO SCALE.



AIRFIELD PAVEMENT
CONDITION INDEX EXHIBIT

Statewide Airfield Pavement
Management Program
INVERNESS AIRPORT



LEGEND

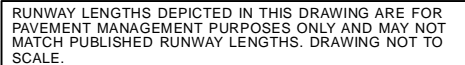
— TYPICAL RUNWAY BRANCH ID
— TYPICAL TAXIWAY BRANCH ID
— TYPICAL APRON BRANCH ID

2020 PAVEMENT CONDITION INDEX

Dark Green	PCI 86-100 Good
Light Green	PCI 71-85 Satisfactory
Yellow	PCI 56-70 Fair
Orange	PCI 41-55 Poor
Pink	PCI 26-40 Very Poor
Red	PCI 11-25 Serious
Grey	PCI 0-10 Failed

SECTION ID
PCI VALUE

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





Appendix D: Inspection Photograph Documentation





RW 1-19, Section 6105, Sample Unit 130 - Patching



RW 1-19, Section 6105, Sample Unit 156 - Vicinity



TL GA AP, Section 205, Sample Unit 400 - Vicinity



TW A, Section 105, Sample Unit 127 – Vicinity



TW A1, Section 115, Sample Unit 201 - Depression



AP FBO, Section 4210, Sample Unit 403 - Vicinity



AP GA, Section 4005, Sample Unit 604 - Longitudinal & Transverse Cracking



AP GA, Section 4005, Sample Unit 604 - Longitudinal & Transverse Cracking



Appendix E: Inspection Distress Details



Re-Inspection Report

FDOT

Generated Date 3/3/2021

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Network:	INF		Name:	INVERNESS AIRPORT			
Branch:	AP FBO	Name:	FBO APRON	Use:	APRON	Area:	200,617 SqFt
Section:	4205	of 2	From:	-	To:	-	Last Const.: 1/1/2013
Surface:	AC	Family:	CA653-GA-AP-AC	Zone:		Category:	Rank: P
Area:	73,563 SqFt	Length:	200 Ft	Width:	300 Ft		
Slabs:		Slab Length:	Ft	Slab Width:	Ft	Joint Length:	Ft
Shoulder:		Street Type:		Grade:	0	Lanes:	0
Section Comments:							
Work Date:	1/1/2013	Work Type:	New Construction - Initial	Code:	NU-IN	Is Major M&R:	True
Last Insp. Date:	5/6/2020	TotalSamples:	17	Surveyed:	3		
Conditions:	PCI: 87						
Inspection Comments:							
Sample Number:	102	Type:	R	Area:	5000.00 SqFt	PCI:	90
Sample Comments:							
48	L & T CR	L	30.00 Ft				
57	WEATHERING	L	5000.00 SqFt				
Sample Number:	198	Type:	R	Area:	6456.00 SqFt	PCI:	85
Sample Comments:							
48	L & T CR	L	32.00 Ft				
57	WEATHERING	L	5810.00 SqFt				
57	WEATHERING	M	646.00 SqFt				
Sample Number:	604	Type:	R	Area:	3500.00 SqFt	PCI:	86
Sample Comments:							
48	L & T CR	L	97.00 Ft				
57	WEATHERING	L	3500.00 SqFt				

Network:	INF		Name:	INVERNESS AIRPORT					
Branch:	AP FBO		Name:	FBO APRON		Use:	APRON	Area:	200,617 SqFt
Section:	4210	of 2	From:	-			To:	-	Last Const.: 10/1/2011
Surface:	AC	Family:	CA653-GA-AP-AC		Zone:		Category:		Rank: P
Area:	127,054 SqFt		Length:	500 Ft		Width:	200 Ft		
Slabs:		Slab Length:	Ft		Slab Width:	Ft		Joint Length:	Ft
Shoulder:		Street Type:		Grade:	0		Lanes:	0	
Section Comments:									
Work Date:	10/1/2011		Work Type: New Construction - Initial				Code:	NU-IN	Is Major M&R: True
Last Insp. Date:	5/6/2020		TotalSamples:	26		Surveyed:	3		
Conditions:	PCI: 83								
Inspection Comments:									
Sample Number:	301	Type:	R	Area:	5000.00 SqFt		PCI:	87	
Sample Comments:									
48	L & T CR		L	105.00 Ft					
57	WEATHERING		L	5000.00 SqFt					
Sample Number:	403	Type:	R	Area:	5050.00 SqFt		PCI:	84	
Sample Comments:									
48	L & T CR		L	172.00 Ft					
57	WEATHERING		L	5050.00 SqFt					
Sample Number:	600	Type:	R	Area:	3950.00 SqFt		PCI:	77	
Sample Comments:									
48	L & T CR		L	261.00 Ft					
57	WEATHERING		L	3950.00 SqFt					

Network:	INF		Name:	INVERNESS AIRPORT										
Branch:	AP GA		Name:	GA APRON		Use:	APRON		Area:	134,131 SqFt				
Section:	4005		of	3		From:	-		To:	-		Last Const.:	1/1/1997	
Surface:	AC		Family:	CA653-GA-AP-AC		Zone:			Category:			Rank:	P	
Area:	35,044 SqFt		Length:	300 Ft		Width:	130 Ft							
Slabs:			Slab Length:	Ft		Slab Width:	Ft		Joint Length:			Ft		
Shoulder:			Street Type:			Grade:	0		Lanes:	0				
Section Comments:														
Work Date:	1/1/1997		Work Type:	BUILT				Code:	IMPORTED		Is Major M&R:	True		
Last Insp. Date:	5/6/2020		TotalSamples:	8		Surveyed:	1							
Conditions:	PCI: 55													
Inspection Comments:														
Sample Number:	604		Type:	R		Area:	5000.00 SqFt		PCI:	55				
Sample Comments:														
48	L & T CR		L	432.00		Ft								
48	L & T CR		M	233.00		Ft								
52	RAVELING		L	5000.00		SqFt								

Network:	INF		Name:	INVERNESS AIRPORT										
Branch:	AP GA		Name:	GA APRON		Use:	APRON		Area:	134,131 SqFt				
Section:	4015		of	3		From:	-		To:	-		Last Const.:	1/1/2011	
Surface:	AC		Family:	CA653-GA-AP-AC		Zone:			Category:			Rank:	P	
Area:	26,880 SqFt		Length:	230 Ft		Width:	127 Ft							
Slabs:			Slab Length:	Ft		Slab Width:	Ft		Joint Length:			Ft		
Shoulder:			Street Type:			Grade:	0		Lanes:	0				
Section Comments:														
Work Date:	1/1/2011		Work Type:	New Construction - AC				Code:	NC-AC		Is Major M&R:	True		
Last Insp. Date:	5/6/2020		TotalSamples:	5		Surveyed:	1							
Conditions:	PCI: 86													
Inspection Comments:														
Sample Number:	404		Type:	R		Area:	5000.00 SqFt		PCI:	86				
Sample Comments:														
48	L & T CR		L	8.00 Ft										
56	SWELLING		L	27.00 SqFt										
57	WEATHERING		L	4750.00 SqFt										
57	WEATHERING		M	250.00 SqFt										

Network:	INF		Name:	INVERNESS AIRPORT							
Branch:	AP GA		Name:	GA APRON		Use:	APRON		Area:	134,131 SqFt	
Section:	4020 of 3		From:	-		To:	-		Last Const.:	1/1/2011	
Surface:	AC		Family:	CA653-GA-AP-AC		Zone:			Category:	Rank: P	
Area:	72,207 SqFt		Length:	522 Ft		Width:	136 Ft				
Slabs:	Slab Length:		Ft		Slab Width:	Ft		Joint Length:	Ft		
Shoulder:	Street Type:				Grade:	0		Lanes:	0		
Section Comments:											
Work Date:	1/1/2011		Work Type: New Construction - AC				Code:	NC-AC		Is Major M&R:	True
Last Insp. Date:	5/6/2020		TotalSamples:	15		Surveyed:	2				
Conditions:	PCI: 88										
Inspection Comments:											
Sample Number:	100		Type:	R		Area:	5000.00 SqFt		PCI:	89	
Sample Comments:											
48	L & T CR		L	3.00 Ft							
56	SWELLING		L	48.00 SqFt							
57	WEATHERING		L	5000.00 SqFt							
Sample Number:	202		Type:	R		Area:	5000.00 SqFt		PCI:	87	
Sample Comments:											
48	L & T CR		L	2.00 Ft							
56	SWELLING		L	81.00 SqFt							
57	WEATHERING		L	5000.00 SqFt							

Network:	INF			Name:	INVERNESS AIRPORT							
Branch:	AP T-HANG		Name:	T-HANGAR APRON		Use:	APRON	Area:	35,370 SqFt			
Section:	4305		of	1	From:	-		To:	-		Last Const.:	7/1/2014
Surface:	AC		Family:	CA653-GA-AP-AC		Zone:			Category:	Rank: P		
Area:	35,370 SqFt		Length:	885 Ft		Width:	25 Ft					
Slabs:			Slab Length:	Ft		Slab Width:	Ft		Joint Length:	Ft		
Shoulder:			Street Type:			Grade:	0		Lanes:	0		
Section Comments:												
Work Date:	7/1/2014		Work Type:	New Construction - AC				Code:	NC-AC		Is Major M&R:	True
Last Insp. Date:	5/6/2020		TotalSamples:	7		Surveyed:	1					
Conditions:	PCI: 88											
Inspection Comments:												
Sample Number:	301		Type:	R		Area:	5000.00 SqFt		PCI:	88		
Sample Comments:												
48	L & T CR		L	88.00 Ft								
57	WEATHERING		L	5000.00 SqFt								

Network:	INF		Name:		INVERNESS AIRPORT						
Branch:	RW 1-19		Name:		RUNWAY 1-19		Use:	RUNWAY	Area:	375,075 SqFt	
Section:	6105		of 1		From: -		To: -		Last Const.: 1/1/2010		
Surface:	AC		Family:		CA653-GA-RW-AC		Zone:		Category:		Rank: P
Area:	375,075 SqFt		Length:		5,000 Ft		Width:		75 Ft		
Slabs:			Slab Length:		Ft		Slab Width:		Ft		Joint Length: Ft
Shoulder:			Street Type:				Grade: 0		Lanes: 0		
Section Comments:											
Work Date:	1/1/1996		Work Type: BUILT				Code:	IMPORTED		Is Major M&R: True	
Work Date:	1/1/2005		Work Type: Surface Treatment - Seal Coat				Code:	ST-SC		Is Major M&R: False	
Work Date:	1/1/2010		Work Type: Complete Reconstruction - AC				Code:	CR-AC		Is Major M&R: True	
Work Date:	1/1/2017		Work Type: Patching - AC				Code:	PA-AC		Is Major M&R: False	
Last Insp. Date:	5/6/2020		TotalSamples:		100		Surveyed:		21		
Conditions:	PCI: 86										
Inspection Comments:											
Sample Number:	101		Type:	R		Area:		3750.00 SqFt		PCI: 90	
Sample Comments:											
48	L & T CR		L		14.00 Ft						
57	WEATHERING		L		3750.00 SqFt						
Sample Number:	105		Type:	R		Area:		3750.00 SqFt		PCI: 90	
Sample Comments:											
48	L & T CR		L		21.00 Ft						
57	WEATHERING		L		3750.00 SqFt						
Sample Number:	110		Type:	R		Area:		3750.00 SqFt		PCI: 87	
Sample Comments:											
48	L & T CR		L		84.00 Ft						
57	WEATHERING		L		3750.00 SqFt						
Sample Number:	115		Type:	R		Area:		3750.00 SqFt		PCI: 85	
Sample Comments:											
48	L & T CR		L		105.00 Ft						
57	WEATHERING		L		3750.00 SqFt						
Sample Number:	119		Type:	R		Area:		3750.00 SqFt		PCI: 88	
Sample Comments:											
48	L & T CR		L		74.00 Ft						
57	WEATHERING		L		3750.00 SqFt						
Sample Number:	126		Type:	R		Area:		3750.00 SqFt		PCI: 88	
Sample Comments:											
48	L & T CR		L		65.00 Ft						
57	WEATHERING		L		3750.00 SqFt						
Sample Number:	130		Type:	R		Area:		3750.00 SqFt		PCI: 64	
Sample Comments:											
48	L & T CR		L		8.00 Ft						
50	PATCHING		L		1538.00 SqFt						
57	WEATHERING		L		2213.00 SqFt						
Sample Number:	131		Type:	R		Area:		3750.00 SqFt		PCI: 61	
Sample Comments:											
48	L & T CR		L		21.00 Ft						
50	PATCHING		L		1875.00 SqFt						
57	WEATHERING		L		1875.00 SqFt						

Sample Number: 134		Type:	R	Area:	3750.00 SqFt	PCI: 87
Sample Comments:						
48	L & T CR		L	76.00 Ft		
52	RAVELING		L	1.00 SqFt		
57	WEATHERING		L	3749.00 SqFt		
Sample Number: 139		Type:	R	Area:	3750.00 SqFt	PCI: 85
Sample Comments:						
48	L & T CR		L	119.00 Ft		
57	WEATHERING		L	3750.00 SqFt		
Sample Number: 144		Type:	R	Area:	3750.00 SqFt	PCI: 88
Sample Comments:						
48	L & T CR		L	74.00 Ft		
57	WEATHERING		L	3750.00 SqFt		
Sample Number: 151		Type:	R	Area:	3750.00 SqFt	PCI: 89
Sample Comments:						
48	L & T CR		L	42.00 Ft		
57	WEATHERING		L	3750.00 SqFt		
Sample Number: 156		Type:	R	Area:	3750.00 SqFt	PCI: 88
Sample Comments:						
48	L & T CR		L	65.00 Ft		
57	WEATHERING		L	3750.00 SqFt		
Sample Number: 160		Type:	R	Area:	3750.00 SqFt	PCI: 89
Sample Comments:						
48	L & T CR		L	54.00 Ft		
57	WEATHERING		L	3750.00 SqFt		
Sample Number: 164		Type:	R	Area:	3750.00 SqFt	PCI: 89
Sample Comments:						
48	L & T CR		L	51.00 Ft		
57	WEATHERING		L	3750.00 SqFt		
Sample Number: 170		Type:	R	Area:	3750.00 SqFt	PCI: 89
Sample Comments:						
48	L & T CR		L	18.00 Ft		
52	RAVELING		L	1.00 SqFt		
57	WEATHERING		L	3749.00 SqFt		
Sample Number: 177		Type:	R	Area:	3750.00 SqFt	PCI: 88
Sample Comments:						
48	L & T CR		L	75.00 Ft		
57	WEATHERING		L	3750.00 SqFt		
Sample Number: 182		Type:	R	Area:	3750.00 SqFt	PCI: 90
Sample Comments:						
48	L & T CR		L	14.00 Ft		
57	WEATHERING		L	3750.00 SqFt		
Sample Number: 187		Type:	R	Area:	3750.00 SqFt	PCI: 90
Sample Comments:						
48	L & T CR		L	20.00 Ft		
57	WEATHERING		L	3750.00 SqFt		
Sample Number: 193		Type:	R	Area:	3750.00 SqFt	PCI: 89
Sample Comments:						
48	L & T CR		L	53.00 Ft		
57	WEATHERING		L	3750.00 SqFt		
Sample Number: 197		Type:	R	Area:	3750.00 SqFt	PCI: 91
Sample Comments:						
48	L & T CR		L	5.00 Ft		

Network:	INF		Name:	INVERNESS AIRPORT								
Branch:	TL GA AP		Name:	TAXILANE TO GA APRON		Use:	TAXILANE		Area:	40,628 SqFt		
Section:	205		of	1		From:	-		To:	-		
Surface:	AC		Family:	CA653-GA-TW-AC		Zone:			Category:			
Area:	40,628 SqFt		Length:	1,500 Ft		Width:	30 Ft					
Slabs:			Slab Length:	Ft		Slab Width:	Ft		Joint Length:	Ft		
Shoulder:			Street Type:			Grade:	0		Lanes:	0		
Section Comments:												
Work Date:	1/1/1997		Work Type:	BUILT				Code:	IMPORTED		Is Major M&R:	True
Last Insp. Date:	5/6/2020		TotalSamples:	9				Surveyed:	3			
Conditions:	PCI: 61											
Inspection Comments:												
Sample Number:	101		Type:	R		Area:	3990.00 SqFt		PCI:	64		
Sample Comments:												
48	L & T CR		L	199.00 Ft								
48	L & T CR		M	10.00 Ft								
52	RAVELING		L	3990.00 SqFt								
Sample Number:	400		Type:	R		Area:	5596.00 SqFt		PCI:	58		
Sample Comments:												
48	L & T CR		L	519.00 Ft								
48	L & T CR		M	151.00 Ft								
52	RAVELING		L	5596.00 SqFt								
56	SWELLING		L	21.00 SqFt								
Sample Number:	403		Type:	R		Area:	5000.00 SqFt		PCI:	64		
Sample Comments:												
48	L & T CR		L	353.00 Ft								
48	L & T CR		M	27.00 Ft								
52	RAVELING		L	5000.00 SqFt								

Network:	INF		Name:		INVERNESS AIRPORT								
Branch:	TW A		Name:		TAXIWAY A		Use:	TAXIWAY	Area:	192,591 SqFt			
Section:	105	of 3		From:	-			To:	-	Last Const.:	1/1/2010		
Surface:	AC	Family:		CA653-GA-TW-AC		Zone:		Category:		Rank: P			
Area:	173,773 SqFt		Length:		4,986 Ft		Width:		35 Ft				
Slabs:			Slab Length:		Ft		Slab Width:		Ft		Joint Length:	Ft	
Shoulder:			Street Type:				Grade:		0		Lanes:	0	
Section Comments:													
Work Date:	1/1/1979		Work Type:					BUILT		Code:	IMPORTED	Is Major M&R:	True
Work Date:	1/1/1996		Work Type:					OVERLAY		Code:	IMPORTED	Is Major M&R:	True
Work Date:	1/1/2010		Work Type:					Complete Reconstruction - AC		Code:	CR-AC	Is Major M&R:	True
Last Insp. Date:	5/6/2020		TotalSamples:		33		Surveyed:		4				
Conditions:	PCI:		89										
Inspection Comments:													
Sample Number:	102	Type:	R	Area:		5250.00 SqFt		PCI:		90			
Sample Comments:													
48	L & T CR		L	33.00 Ft									
57	WEATHERING		L	5250.00 SqFt									
Sample Number:	109	Type:	R	Area:		5250.00 SqFt		PCI:		89			
Sample Comments:													
48	L & T CR		L	43.00 Ft									
57	WEATHERING		L	5250.00 SqFt									
Sample Number:	117	Type:	R	Area:		5250.00 SqFt		PCI:		89			
Sample Comments:													
48	L & T CR		L	62.00 Ft									
57	WEATHERING		L	5250.00 SqFt									
Sample Number:	127	Type:	R	Area:		5250.00 SqFt		PCI:		89			
Sample Comments:													
48	L & T CR		L	71.00 Ft									
57	WEATHERING		L	5250.00 SqFt									

Network:	INF		Name:	INVERNESS AIRPORT							
Branch:	TW A		Name:	TAXIWAY A		Use:	TAXIWAY		Area:	192,591 SqFt	
Section:	110 of 3		From:	-		To:	-		Last Const.:	1/1/2010	
Surface:	AC		Family:	CA653-GA-TW-AC		Zone:			Category:	Rank: P	
Area:	7,298 SqFt		Length:	188 Ft		Width:	35 Ft				
Slabs:	Slab Length:		Ft		Slab Width:	Ft		Joint Length:	Ft		
Shoulder:	Street Type:				Grade:	0		Lanes:	0		
Section Comments:											
Work Date:	1/1/1979		Work Type: BUILT				Code:	IMPORTED		Is Major M&R:	True
Work Date:	1/1/1996		Work Type: OVERLAY				Code:	IMPORTED		Is Major M&R:	True
Work Date:	1/1/2010		Work Type: Complete Reconstruction - AC				Code:	CR-AC		Is Major M&R:	True
Last Insp. Date: 5/6/2020											
TotalSamples:			2		Surveyed: 1						
Conditions:	PCI: 90										
Inspection Comments:											
Sample Number:	98		Type:	R		Area:	4149.00 SqFt		PCI:	90	
Sample Comments:											
48	L & T CR		L		32.00 Ft						
57	WEATHERING		L		4149.00 SqFt						

Network:	INF			Name:	INVERNESS AIRPORT						
Branch:	TW A		Name:	TAXIWAY A		Use:	TAXIWAY	Area:	192,591 SqFt		
Section:	130 of 3		From:	-		To:	-		Last Const.:	1/1/2010	
Surface:	AC		Family:	CA653-GA-TW-AC		Zone:			Rank:	P	
Area:	11,520 SqFt		Length:	180 Ft		Width:	35 Ft				
Slabs:			Slab Length:	Ft		Slab Width:	Ft		Joint Length:	Ft	
Shoulder:			Street Type:			Grade:	0		Lanes:	0	
Section Comments:											
Work Date:	1/1/1997		Work Type: BUILT				Code:	IMPORTED		Is Major M&R:	True
Work Date:	1/1/2010		Work Type: Complete Reconstruction - AC				Code:	CR-AC		Is Major M&R:	True
Last Insp. Date:	5/6/2020		TotalSamples:	3		Surveyed:	1				
Conditions:	PCI: 89										
Inspection Comments:											
Sample Number:	500		Type:	R		Area:	4149.00 SqFt		PCI:	89	
Sample Comments:											
48	L & T CR		L	41.00 Ft							
57	WEATHERING		L	4149.00 SqFt							

Network:		INF		Name:		INVERNESS AIRPORT								
Branch:	TW A1		Name:	TAXIWAY A1		Use:	TAXIWAY	Area:	9,072 SqFt					
Section:	115		of	1		From:	-		To:	-		Last Const.:	1/1/2010	
Surface:	AC		Family:	CA653-GA-TW-AC		Zone:			Category:			Rank:	P	
Area:	9,072 SqFt		Length:	180 Ft		Width:	35 Ft							
Slabs:			Slab Length:	Ft		Slab Width:	Ft		Joint Length:			Ft		
Shoulder:			Street Type:			Grade:	0		Lanes:	0				
Section Comments:														
Work Date:	1/1/1979		Work Type:	BUILT				Code:	IMPORTED		Is Major M&R:	True		
Work Date:	1/1/1996		Work Type:	Overlay - AC Structural				Code:	OL-AS		Is Major M&R:	True		
Work Date:	1/1/2010		Work Type:	Complete Reconstruction - AC				Code:	CR-AC		Is Major M&R:	True		
Last Insp. Date:	5/6/2020		TotalSamples:	2		Surveyed:	1							
Conditions:	PCI: 81													
Inspection Comments:														
Sample Number:	201		Type:	R		Area:	4273.00 SqFt		PCI:	81				
Sample Comments:														
45	DEPRESSION		L	35.00 SqFt										
48	L & T CR		L	47.00 Ft										
57	WEATHERING		L	4059.00 SqFt										
57	WEATHERING		M	214.00 SqFt										

Network:	INF			Name:	INVERNESS AIRPORT				
Branch:	TW A2		Name:	TAXIWAY A2		Use:	TAXIWAY	Area:	9,072 SqFt
Section:	120	of	1	From:	-		To:	-	Last Const.: 1/1/2010
Surface:	AC	Family:	CA653-GA-TW-AC		Zone:	Category:		Rank: P	
Area:	9,072 SqFt	Length:	180 Ft		Width:	35 Ft			
Slabs:	Slab Length:		Ft	Slab Width:		Ft	Joint Length:		Ft
Shoulder:	Street Type:		Grade:		0	Lanes:		0	
Section Comments:									
Work Date:	1/1/1979	Work Type: BUILT				Code:	IMPORTED	Is Major M&R: True	
Work Date:	1/1/1996	Work Type: OVERLAY				Code:	IMPORTED	Is Major M&R: True	
Work Date:	1/1/2010	Work Type: Complete Reconstruction - AC				Code:	CR-AC	Is Major M&R: True	
Last Insp. Date:	5/6/2020	TotalSamples:		2	Surveyed: 1				
Conditions:	PCI:	86							
Inspection Comments:									
Sample Number:	300	Type:	R	Area:	4798.00 SqFt	PCI: 86			
Sample Comments:									
48	L & T CR	L	57.00	Ft					
57	WEATHERING	L	4558.00	SqFt					
57	WEATHERING	M	240.00	SqFt					

Network:	INF	Name:	INVERNESS AIRPORT							
Branch:	TW A3	Name:	TAXIWAY A3		Use:	TAXIWAY	Area:	9,072 SqFt		
Section:	125	of	1	From:	-	To:	-	Last Const.:	1/1/2010	
Surface:	AC	Family:	CA653-GA-TW-AC		Zone:		Category:		Rank:	P
Area:	9,072 SqFt	Length:	180 Ft		Width:	35 Ft				
Slabs:		Slab Length:	Ft		Slab Width:	Ft		Joint Length:	Ft	
Shoulder:		Street Type:			Grade:	0		Lanes:	0	
Section Comments:										
Work Date:	1/1/1986	Work Type: BUILT				Code:	IMPORTED	Is Major M&R:	True	
Work Date:	1/1/1996	Work Type: OVERLAY				Code:	IMPORTED	Is Major M&R:	True	
Work Date:	1/1/2010	Work Type: Complete Reconstruction - AC				Code:	CR-AC	Is Major M&R:	True	
Last Insp. Date: 5/6/2020										
		TotalSamples:	2		Surveyed: 1					
Conditions:	PCI: 84									
Inspection Comments:										
Sample Number:	401	Type:	R	Area:	4273.00 SqFt		PCI:	84		
Sample Comments:										
48	L & T CR	L	35.00 Ft							
52	RAVELING	L	25.00 SqFt							
57	WEATHERING	L	4036.00 SqFt							
57	WEATHERING	M	212.00 SqFt							



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