

## SOUTH CAROLINA AERONAUTICS COMMISSION

# STATEWIDE AIRFIELD PAVEMENT MANAGEMENT SYSTEM UPDATE



**AQX - Allendale County Airport** 



## SOUTH CAROLINA AERONAUTICS

## STATEWIDE AIRFIELD PAVEMENT MANAGEMENT SYSTEM UPDATE



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## **Overview**

## Introduction

For over 20 years, the South Carolina Aeronautics Commission (SCAC) has implemented an airfield pavement management program for publicly owned South Carolina airports. As part of their grant assurances federally obligated airports are required to perform detailed inspections as outlined in the FAA Advisory Circular 150/5380-7B — "Airport Pavement Management Program (PMP)". All inspections performed within this program follow the guidance documented within the ASTM D5340-23 — "Standard Test Method for Airport Pavement Condition Surveys". This is an objective process to assess the pavement condition in a consistent and repeatable manner.

Due to ever-changing pavement conditions, the FAA AC 150/5380-7B recommends the PMP be updated every 3 years. The overall pavement conditions are analyzed using the ASTM PCI methodology. It provides decision makers with a comparison of pavement facilities and a relative indication of their required maintenance or level of repair to aid in project prioritization. A detailed explanation of the SCAC airfield pavement management program process and pavement management terminology can be found in the SCAC Statewide Report.

Project elements preformed for this 2021-2024 program update include the development and updates of pavement inventories, documentation of pavement conditions, performance modeling, and maintenance and rehabilitation (M&R) needs for all participating airports. This report summarizes the results of the SCAC pavement program update at Allendale County Airport (AQX).



Figure 1 - Airport Layout

AQX - Allendale County Airport

## **System Inventory**

The pavements at Allendale County Airport (AQX) include approximately 0.7 million square feet of airfield pavements consisting of runways, taxiways, taxilane, and aprons. Per the guidance in the ASTM D5340-23, all pavements were divided and subdivided into pavement management units (Network, Branch, Section, Sample). The divisions are documented in the **Network Definition Exhibit** providing the name and location of each branch, section, and sample.

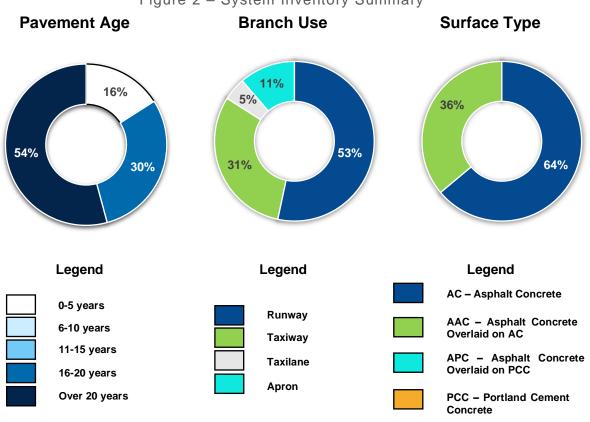
Each pavement update included a review of documentation of any maintenance and major rehabilitation related activities performed on the airfield pavements. The following table summarizes the projects that have occurred since the previous inspection.

Table 1 - Recent Airfield Pavement Construction

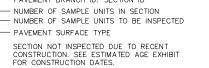
Construction Year	Location	Work Type / Pavement Section				
2020	2020 RW 17, TW A, TW A1, TW A2 Crack Sealing – AC, Surface Seal - Rejuvenating					
2023	AP 01, TL 01	Reconstruction - AC   3" SC-403 SCDOT TYBE B, 6" SC-305 CRUSHED AGG BASE, P-152				

The following figure summarizes the inventory items at Allendale County Airport (AQX). The **Estimated Age Exhibit** provides the last major work date for each pavement section based on the collected documentation.

Figure 2 - System Inventory Summary









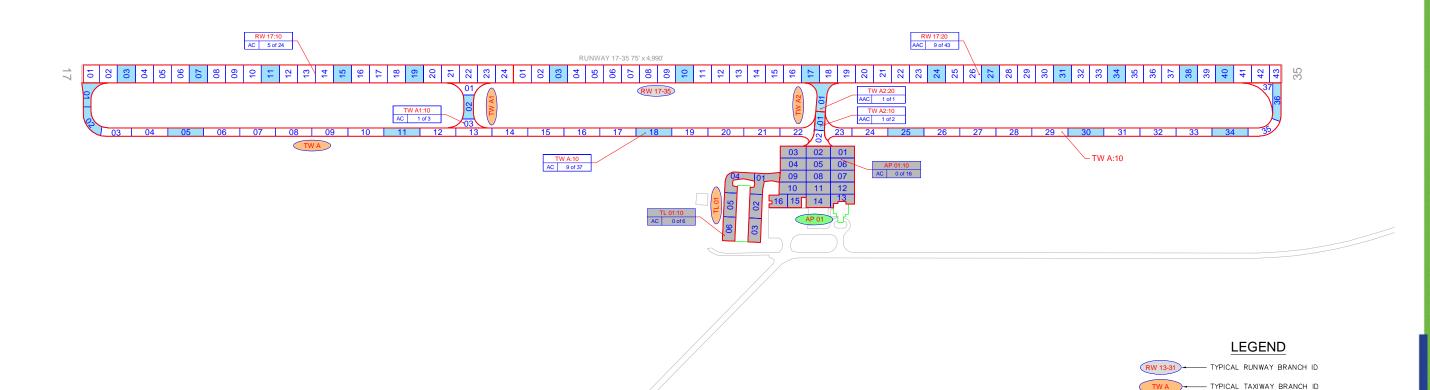
INSPECTED SAMPLE UNITS.

- TYPICAL APRON BRANCH ID - PAVEMENT BRANCH ID: SECTION ID

TOTAL SAMPLES INSPECTED = 26 AC: 26 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.

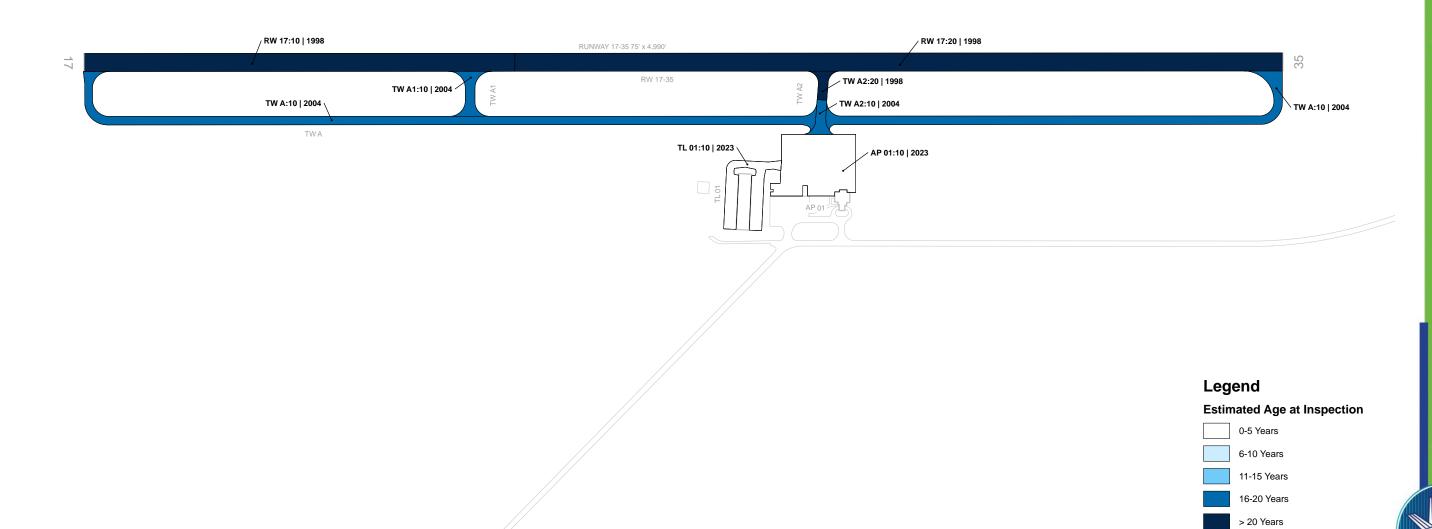






BRANCH IDENTIFIER
SECTION IDENTIFIER
TWA:20 | 1985

LAST MAJOR WORK DATE





## STATEWIDE AIRFIELD PAVEMENT MANAGEMENT SYSTEM UPDATE



## **Functional Evaluation**

#### **Pavement Condition Index**

A Pavement Condition Index (PCI) survey is the primary means of obtaining and recording pavement distress data. In adherence to FAA Advisory Circular 150/5380-7B, the SCAC Airfield Pavement Management System (APMS) Update utilizes the PCI survey methodology to collect pavement distress data and analyze the condition. This method uses a visual statistical sampling of pavements for recording primary distress types, associated severities, and quantities as defined by the ASTM D5340-23.

Visual condition data collected during the PCI survey is analyzed and used to calculate the current PCI for each inspected sample unit and section. The PCI is a value ranging from 0 to 100, which indicates the apparent structural integrity and surface operational condition of the pavement, with "100" indicating a pavement in new condition and "0" indicating a failed pavement section. Pavement Condition Ratings are associated with PCI categories that range from "Failed" to "Good". Representative photos of varying Pavement Condition Ratings are displayed in **Figure 3**.

Figure 3 - Representation of Pavement Condition Index Values



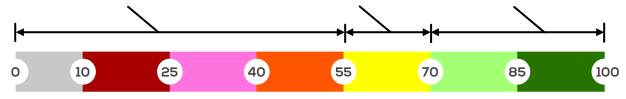
Pavements that are Poor to Failed require significant and costly interventions such as reconstruction to restore the pavement to operational service.



Pavements with a Fair condition rating typically require rehabilitation, or maintenance activities if rehabilitation cannot be immediately performed.



Pavements classified as Good require either no treatment or would benefit from the application of preventive maintenance activities such as crack sealing.



**Pavement Condition Index (PCI)** 





#### **Critical PCI**

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. Critical PCI refers to the condition beyond which the rate of pavement deterioration and the cost of applying a treatment increases significantly. In other words, it is the condition at which maintenance may no longer be cost effective and major rehabilitation should be considered. Based on the 2019 FAA Order 5100.38D Change 1 Airport Improvement Program Handbook, the FAA has established recommended PCI thresholds for pavement M&R. Accordingly, the Critical PCI for all SCAC airfield pavements is defined at 70.

## **PCI** Results

The PCI survey for Allendale County Airport (AQX) was performed in November 2023. The overall area-weighted average PCI value of the network was 74, representing a condition rating of Satisfactory. Approximately 44% of inspected pavements are in Good or Satisfactory condition, 56% of inspected pavements are in Fair condition, and no pavements are in Poor or worse condition as summarized in Figure 4.

Figure 4 – Overall Network PCI Results

16%

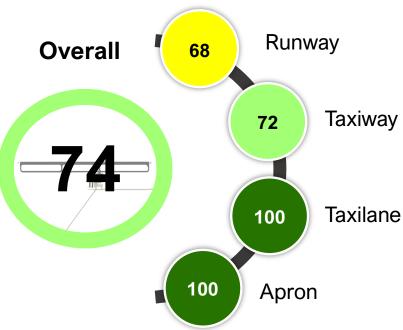
28%

56%

Good Satisfactory Fair Poor Very Poor Serious Failed

The area-weighted average PCIs by branch use are summarized in the figure below. The current PCIs at a section-level are displayed graphically on the **2023 Airfield Pavement Condition Index Exhibit** and are summarized in **Table 2**.

Figure 5 – Area Weighted Average Pavement Condition





## **AQX** - Allendale County Airport

Table 2 - Current Pavement Condition Index Summary - Section

Network ID	Branch ID	Branch Use	Section ID	Area (SF)	Surface	PCI	Condition Rating	PCI % Climate	PCI % Load	PCI % Other
AQX	AP 01	Apron	10	79,394	AC	100	Good	0	0	0
AQX	RW 17	Runway	10	134,400	AC	69	Fair	97	0	3
AQX	RW 17	Runway	20	239,850	AAC	68	Fair	96	0	4
AQX	TL 01	Taxilane	10	32,582	AC	100	Good	0	0	0
AQX	TW A	Taxiway	10	190,698	AC	72	Satisfactory	65	34	1
AQX	TW A1	Taxiway	10	11,282	AC	70	Fair	100	0	0
AQX	TW A2	Taxiway	10	7,305	AAC	74	Satisfactory	94	0	6
AQX	TW A2	Taxiway	20	5,905	AAC	62	Fair	100	0	0

<sup>\*</sup>For further PCI details and photos see Appendix D – Detailed PCI Results.







AQX - Allendale County Airport

#### **Pavement Condition Forecast**

A primary objective of this APMS is to estimate the future condition of each individual pavement section. PAVER<sup>TM</sup> was utilized to develop prediction curves and determine typical deterioration rates that are then used to forecast a future PCI value. This value will assist decision makers in determining at what point in time certain pavement sections will require rehabilitation. The figure below shows the current and 5-year area-weighted forecasted pavement condition distribution of each functional use (Runway, Taxiway, Taxilane, Apron) found at the Airport. The forecasted 5-year PCIs at a section-level are displayed graphically on the **2029 Forecasted Airfield Pavement Condition Index Exhibit** and are summarized in **Table 3**. All forecasts presented assume that no maintenance or rehabilitation is performed within the 5-year analysis period. **Figure 6** displays the forecasted pavement conditions at the branch-level for AQX.

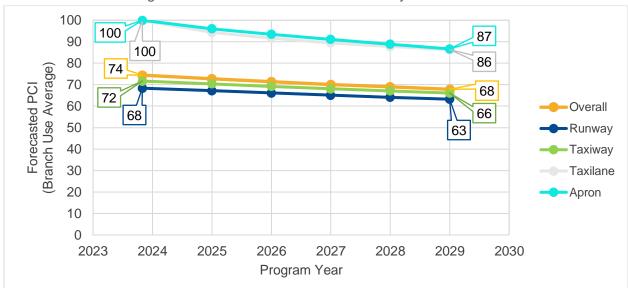


Figure 6 - Forecasted 5-Year PCI by Branch Use

All condition forecasts are based on historical observations and analysis of South Carolina airfield pavements. The forecasts are not a guarantee of future PCI: - rather, they are a planning tool to aid in the timing of maintenance and rehabilitation activities.

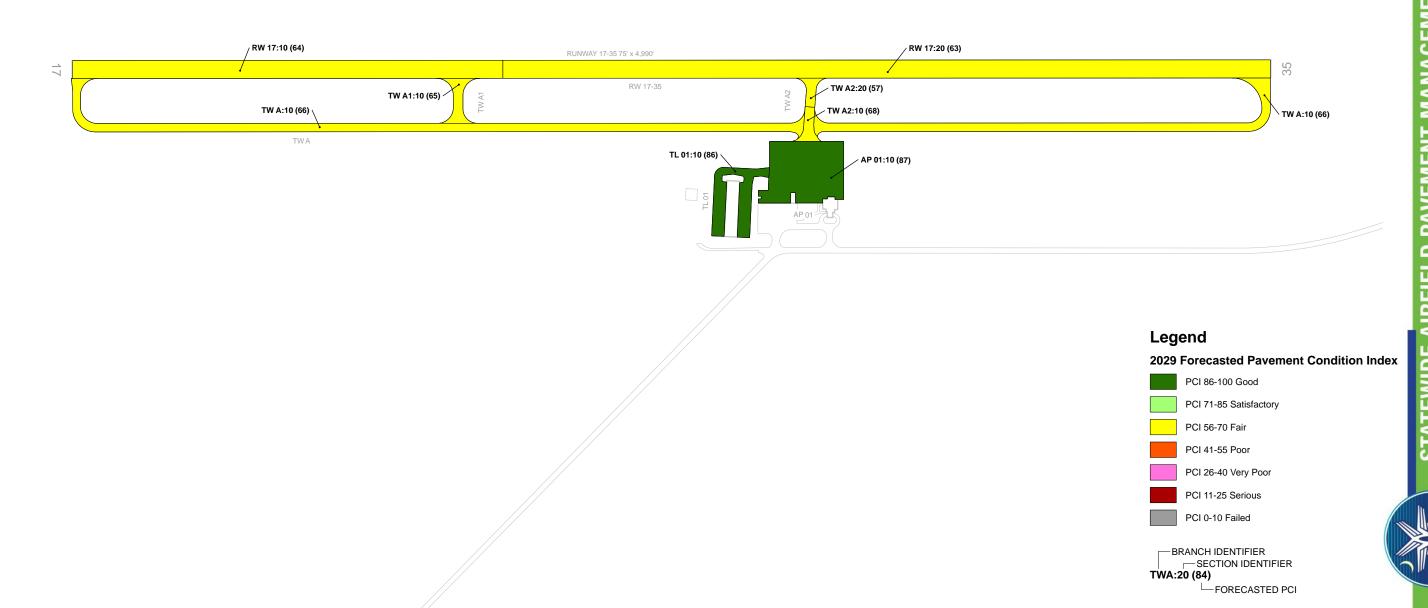


**AQX** - Allendale County Airport

Table 3 - Forecast (2025-2029) Section Pavement Condition Index - Section

Network ID	Branch ID	Section ID	Current PCI		Fore	ecasted	PCI	
Network	Dianciilo	Occilon ID	Current 1 Cr	2025	2026	2027	2028	2029 87 64 63 86 66 65 68
AQX	AP 01	10	100	96	94	91	89	87
AQX	RW 17	10	69	68	67	66	65	64
AQX	RW 17	20	68	67	66	65	64	63
AQX	TL 01	10	100	94	92	89	88	86
AQX	TW A	10	72	71	69	68	67	66
AQX	TW A1	10	70	69	68	67	66	65
AQX	TW A2	10	74	73	71	70	69	68
AQX	TW A2	20	62	62	61	61	60	60







AQX - Allendale County Airport

## **M&R Overview**

An analysis was performed to assess the pavement maintenance and rehabilitation (M&R) needs at AQX over a 5-year period. The analysis compared the forecasted condition of each pavement section to the Critical PCI threshold to develop a resultant recommendation and associated cost for each year of the 5-year plan. The M&R analysis should enable responsible parties to do the following:

- → Maintain existing airport infrastructure at an acceptable condition
- → Make timely and cost-effective **decisions** to appropriately allocate funding
- → **Apply** global maintenance, localized maintenance, and major M&R activities in a timely manner to maintain an acceptable operational condition of a pavement network.

M&R planning considers various methods of repair to address the cause of the problem rather than just treating the symptom. As pavements deteriorate, repair costs can increase significantly. Once pavements have deteriorated below a certain condition threshold (the Critical PCI value), the pavement benefits more from substantial rehabilitation in lieu of maintenance activities. The figure below illustrates how the cost of pavement repairs can exponentially increase if M&R activities are delayed.

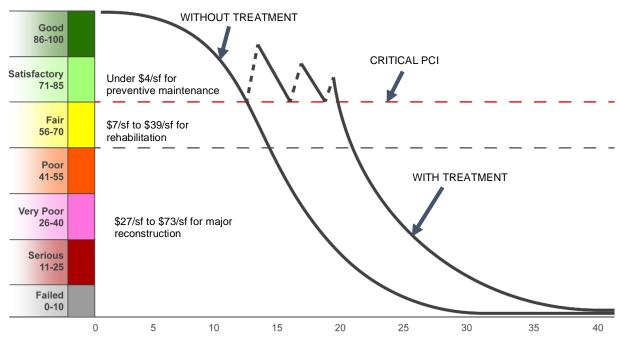


Figure 7 – Pavement Life and the Effect of Treatments



AQX - Allendale County Airport

### **Localized Maintenance and Repair**

Localized maintenance is best used as a preservation measure and is applied to slow the rate of deterioration. These activities typically include crack sealing and patching. Localized maintenance differs from major rehabilitation in that it is applied based on the distresses observed rather than based on a PCI value. Treatments are selected based on the appropriate corrective measure for a given distress type and severity level. Localized maintenance applied on pavements with PCIs above the Critical PCI of 70 is known as Preventive Localized Maintenance, while Stopgap Localized Maintenance is typically applied to pavement sections that are at or below the Critical PCI value as a temporary repair due to safety concerns. The current localized maintenance needs are summarized in the table below.

		3 3 31						
Localized Maintenance Category	Localized Work Type	Rough Estimate of Work Quantity	Work Units		lanning erial Cost			
	AC Crack Sealing Narrow	14,919	LF	\$	63,420			
Localized Preventive Maintenance	Surface Seal	2,139	SF	\$	3,530			
mantenance	AC Full-Depth Patching	300	SF	\$	9,930			
	1.00	calized Preventive Mainter	ance Total -	¢	76.880			

Table 4 - Localized Maintenance Summary by Policy Type

### **Major Rehabilitation Needs**

Major rehabilitation needs are identified by analyzing the Airport's pavement condition in relationship to the Critical PCI value, density of load-related distresses, and major rehabilitation policies, assuming there are no budget constraints. The needs analysis is performed over a 5-year analysis period. Major rehabilitation is divided into two policy categories:

- → Intermediate Major Rehabilitation (PCI 56 to 70)
  - AC: Milling of the upper surface course and replacing with new AC with isolated areas of full-depth reconstruction

Planning-Level Localized M&R Needs =

- **PCC:** Combination of crack sealing, joint seal replacement, limited patching, and slab replacement
- → Full-Depth Reconstruction (PCI 0 to 55) Removal and replacement of the existing pavement section down to the subgrade

The 5-year major rehabilitation needs analysis at AQX results in a total 5-year cost of 6.19M. The **5-Year Major Rehabilitation Needs Exhibit** graphically depicts the major rehabilitation needs at a section-level which are also summarized in **Table 5** with rounded costs. Annual needs are displayed graphically in **Figure 8**.

76.880

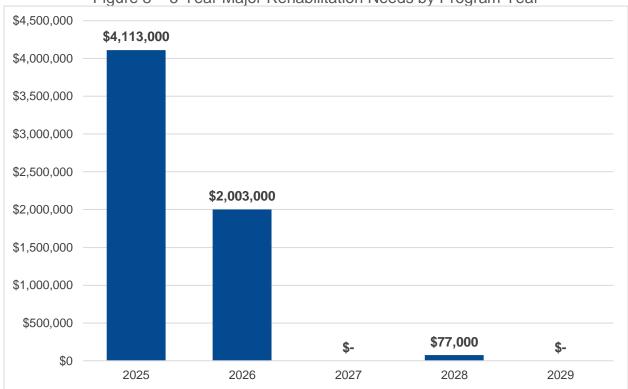


## **AQX** - Allendale County Airport

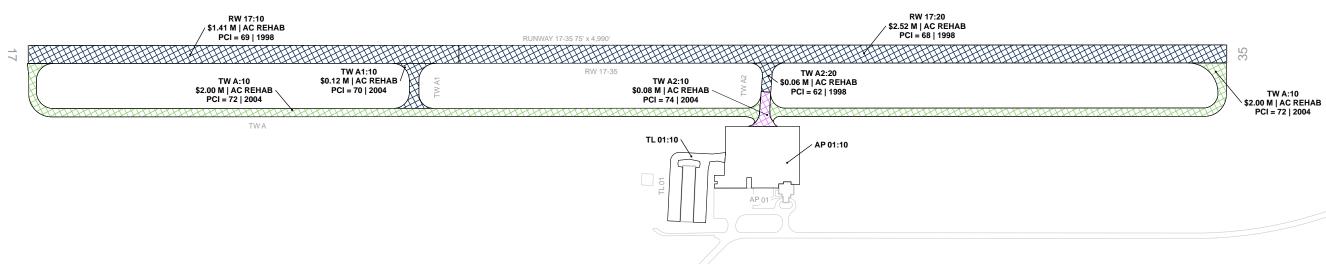
Table 5 – 5-Year Major Rehabilitation Needs

Program Year	Network ID	Branch ID	Section ID	Surface	Area (SF)	PCI Before	Rehabilitation Type	nning Cost Estimate
2025	AQX	RW 17	10	AC	134,400	68	AC Rehabilitation	\$ 1,412,000
2025	AQX	RW 17	20	AAC	239,850	67	AC Rehabilitation	\$ 2,519,000
2025	AQX	TW A1	10	AC	11,282	69	AC Rehabilitation	\$ 119,000
2025	AQX	TW A2	20	AAC	5,905	62	AC Rehabilitation	\$ 63,000
2026	AQX	TW A	10	AC	190,698	69	AC Rehabilitation	\$ 2,003,000
2028	AQX	TW A2	10	AAC	7,305	69	AC Rehabilitation	\$ 77,000
Total 5-Year Major Rehabilitation Needs =								\$ 6,193,000

Figure 8 – 5-Year Major Rehabilitation Needs by Program Year







#### Legend

#### 5-Year Major Rehabilitation Needs

Year 1 Reconstruction Needs Year 1 Rehabilitation Needs

Year 2 Rehabilitation Needs

Year 3 Rehabilitation Needs

Year 4 Rehabilitation Needs Year 5 Rehabilitation Needs

> -M&R COST -BRANCH IDENTIFIER

SECTION IDENTIFIER \_\_M&R WORK TYPE TWA:20 \$9.38 M | AC RECON

PCI = 52 | 1987

└─PCI └─LAST MAJOR WORK DATE

THIS EXHIBIT REPRESENTS NEEDS SOLEY BASED ON CURRENT AND FORECASTED CONDITIONS FURTHER PRIORITIZATION AND CONSIDERATIONS SHOULD BE MADE BEYOND THIS STUDY.



## **SECTION I**

## Appendices





**AQX** - Allendale County Airport

## **Appendix A – Exhibits**







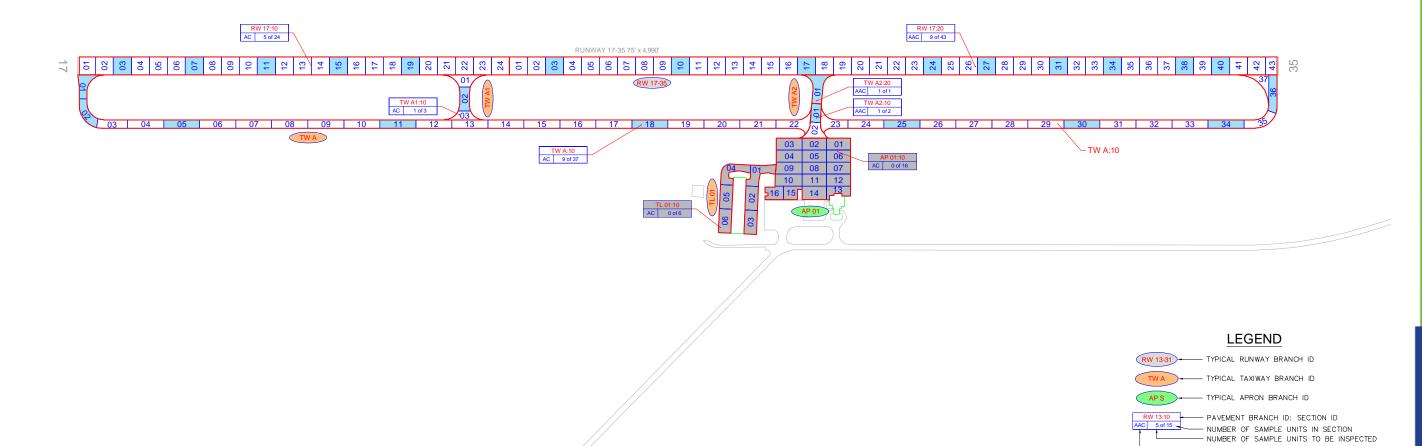


PAVEMENT SURFACE TYPE

INSPECTED SAMPLE UNITS. TOTAL SAMPLES INSPECTED = 26 AC: 26 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.

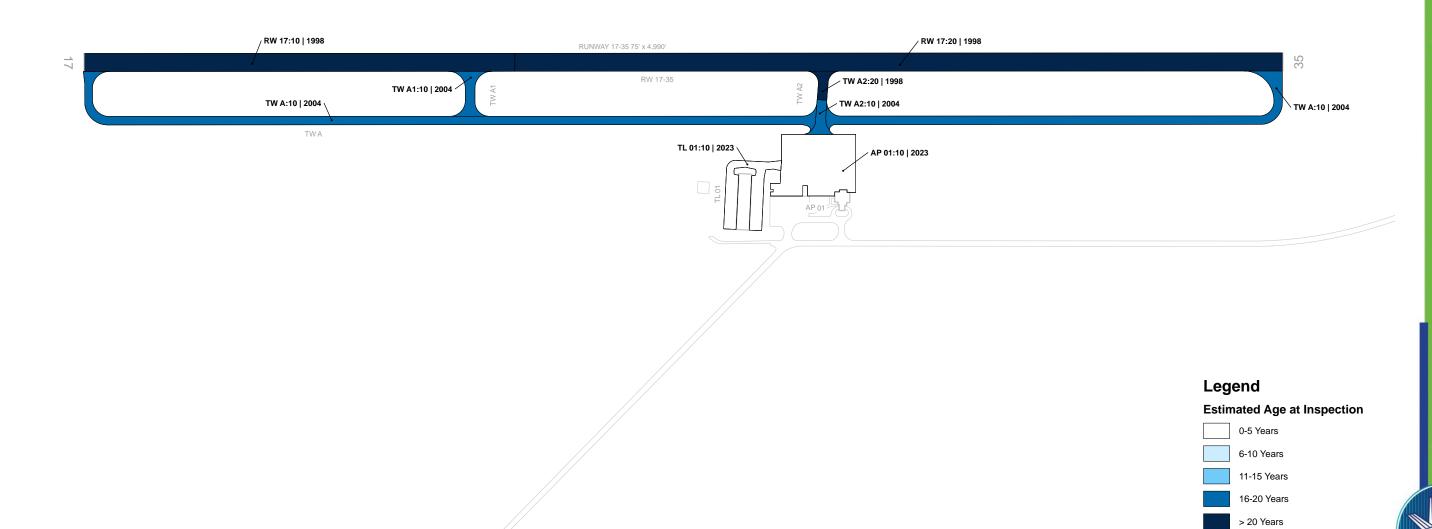
SECTION NOT INSPECTED DUE TO RECENT CONSTRUCTION. SEE ESTIMATED AGE EXHIBIT FOR CONSTRUCTION DATES.





BRANCH IDENTIFIER
SECTION IDENTIFIER
TWA:20 | 1985

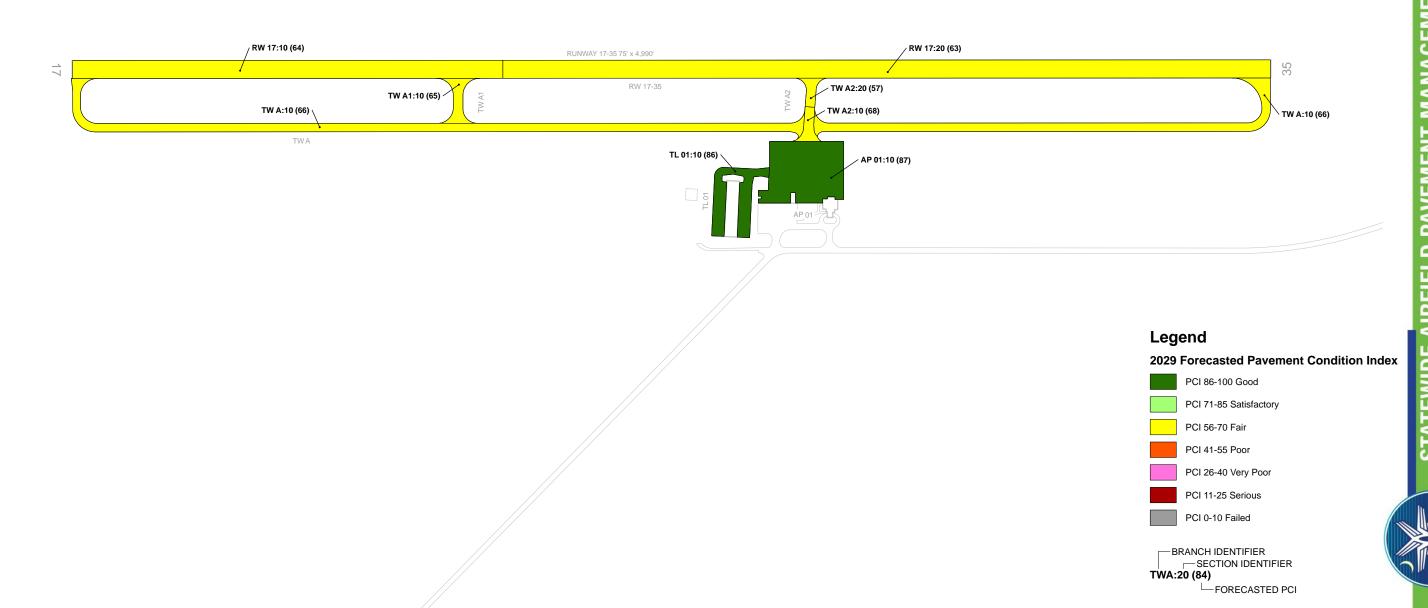
LAST MAJOR WORK DATE



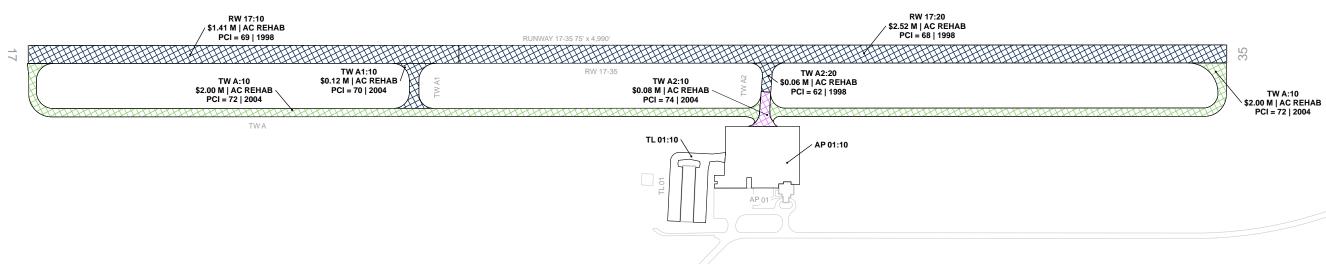












#### Legend

#### 5-Year Major Rehabilitation Needs

Year 1 Reconstruction Needs Year 1 Rehabilitation Needs

Year 2 Rehabilitation Needs

Year 3 Rehabilitation Needs

Year 4 Rehabilitation Needs Year 5 Rehabilitation Needs

> -M&R COST -BRANCH IDENTIFIER

SECTION IDENTIFIER \_\_M&R WORK TYPE TWA:20 \$9.38 M | AC RECON

PCI = 52 | 1987

└─PCI └─LAST MAJOR WORK DATE

THIS EXHIBIT REPRESENTS NEEDS SOLEY BASED ON CURRENT AND FORECASTED CONDITIONS FURTHER PRIORITIZATION AND CONSIDERATIONS SHOULD BE MADE BEYOND THIS STUDY.





**AQX** - Allendale County Airport

## **Appendix B – Analysis Tables**





Table B1 - System Inventory Data - Section

Network ID	Branch ID	Branch Use	Section ID	Area (SF)	Surface Type	Estimate of Last Construction Date
AQX	AP 01	Apron	10	79,394	AC	7/1/2023
AQX	RW 17	Runway	10	134,400	AC	8/1/1998
AQX	RW 17	Runway	20	239,850	AAC	8/1/1998
AQX	TL 01	Taxilane	10	32,582	AC	7/1/2023
AQX	TW A	Taxiway	10	190,698	AC	4/1/2004
AQX	TW A1	Taxiway	10	11,282	AC	4/1/2004
AQX	TW A2	Taxiway	10	7,305	AAC	4/1/2004
AQX	TW A2	Taxiway	20	5,905	AAC	8/1/1998

Table B2 - Current Pavement Condition Index Summary - Branch

Branch ID	Branch Use	Number of Sections	Branch Area (SF)	Area- Weighted Avg PCI	Condition Rating
AP 01	Apron	1	79,394	100	Good
RW 17	Runway	2	374,250	68	Fair
TL 01	Taxilane	1	32,582	100	Good
TW A	Taxiway	1	190,698	72	Satisfactory
TW A1	Taxiway	1	11,282	70	Fair
TW A2	Taxiway	2	13,210	69	Fair



## **AQX** - Allendale County Airport

Table B3 - Current (2023) Pavement Condition Index Summary - Section

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
AQX	AP 01	Apron	10	79,394	AC	100	Good	0	0	0	0	0
AQX	RW 17	Runway	10	134,400	AC	69	Fair	97	0	3	5	24
AQX	RW 17	Runway	20	239,850	AAC	68	Fair	96	0	4	9	43
AQX	TL 01	Taxilane	10	32,582	AC	100	Good	0	0	0	0	0
AQX	TW A	Taxiway	10	190,698	AC	72	Satisfactory	65	34	1	9	37
AQX	TW A1	Taxiway	10	11,282	AC	70	Fair	100	0	0	1	3
AQX	TW A2	Taxiway	10	7,305	AAC	74	Satisfactory	94	0	6	1	2
AQX	TW A2	Taxiway	20	5,905	AAC	62	Fair	100	0	0	1	1



## **AQX** - Allendale County Airport

Table B4 -Forecasted (2025-2029) Pavement Condition Index Summary - Section

Network ID	Branch ID	Section ID	Current PCI	Forecasted PCI							
Network	Dianciilo	Section ib	Current 1 Cr	2025	2026	2027	2028	2029			
AQX	AP 01	10	100	96	94	91	89	87			
AQX	RW 17	10	69	68	67	66	65	64			
AQX	RW 17	20	68	67	66	65	64	63			
AQX	TL 01	10	100	94	92	89	88	86			
AQX	TW A	10	72	71	69	68	67	66			
AQX	TW A1	10	70	69	68	67	66	65			
AQX	TW A2	10	74	73	71	70	69	68			
AQX	TW A2	20	62	62	61	61	60	60			



**AQX** - Allendale County Airport

## **Appendix C – Maintenance and Rehabilitation Tables**



## **AQX** - Allendale County Airport

Table C1 – Localized Maintenance Summary by Policy Type

Localized Maintenance Category	Localized Work Type	Rough Estimate of Work Quantity	Work Units		lanning erial Cost
	AC Crack Sealing Narrow	14,919	LF	\$	63,420
Localized Preventive Maintenance	Surface Seal	2,139	SF	\$	3,530
Mantonanoo	AC Full-Depth Patching	AC Full-Depth Patching 300 SF			
	ance Total =	\$	76,880		
	\$	76,880			

Table C2 – Section – Level Year 1 Localized Maintenance Planning Cost Summary

Network ID	Branch ID	Section ID	Area (SF)	Start PCI	End PCI	Cost
AQX	AP 01	10	79,394	100	100	\$ -
AQX	RW 17	10	134,400	69	69	\$ -
AQX	RW 17	20	239,850	68	68	\$ -
AQX	TL 01	10	32,582	100	100	\$ -
AQX	TW A	10	190,698	72	75	\$ 74,840
AQX	TW A1	10	11,282	70	70	\$ -
AQX	TW A2	10	7,305	74	74	\$ 2,020
AQX	TW A2	20	5,905	62	62	\$ -



## **AQX** - Allendale County Airport

#### Table C3 - 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	
AQX	TW A	10	ALLIGATOR CR	Low	94	SF	0.1%	Preventive	AC Full-Depth Patching	137	SF	\$ 33.00	\$ 4,530	
AQX	TW A	10	ALLIGATOR CR	Medium	116	SF	0.1%	Preventive	AC Full-Depth Patching	164	SF	\$ 33.00	\$ 5,400	
AQX	TW A	10	L&TCR	Low	14,413	LF	7.6%	Preventive	AC Crack Sealing Narrow	14,413	LF	\$ 4.25	\$ 61,260	
AQX	TW A	10	L&TCR	Medium	32	LF	0.0%	Preventive	AC Crack Sealing Narrow	32	LF	\$ 4.25	\$ 140	
AQX	TW A	10	WEATHERING	Medium	2,139	SF	1.1%	Preventive	Surface Seal	2,139	SF	\$ 1.65	\$ 3,530	
AQX	TW A2	10	L&TCR	Low	474	LF	6.5%	Preventive	AC Crack Sealing Narrow	474	LF	\$ 4.25	\$ 2,020	

#### Table C4 – 5-Year Major Rehabilitation Needs

Program Year	Network ID	Branch ID	Section ID	Surface	Area (SF)	PCI Before	Rehabilitation Type	Planning	Cost Estimate
2025	AQX	RW 17	10	AC	134,400	68	AC Rehabilitation	\$	1,412,000
2025	AQX	RW 17	20	AAC	239,850	67	AC Rehabilitation	\$	2,519,000
2025	AQX	TW A1	10	AC	11,282	69	AC Rehabilitation	\$	119,000
2025	AQX	TW A2	20	AAC	5,905	62	AC Rehabilitation	\$ 63,000	
2026	AQX	TW A	10	AC	190,698	69	AC Rehabilitation	\$	2,003,000
2028	AQX	TW A2	10	AAC	7,305	69	AC Rehabilitation	\$	77,000
	Total 5-Year Major Rehabilitation Needs =							\$	6,193,000



**AQX** - Allendale County Airport

## **Appendix D – PCI Results Summary**





#### **RW 17**

Branch ID	Branch Use	Number of Sections	Branch Area (SF)	Branch Area- Weighted Avg PCI	Branch Condition Rating
RW 17	RUNWAY	2	374,250	68	Fair

Section ID	Area (SF)	Surface	Est. Last Major Work Year	Est. Last Global Treatment Year	PCI	Condition Rating	PCI % Climate	PCI % Load	PCI % Other
10	134,400	AC	1998	2020	69	Fair	97	0	3
20	239,850	AAC	1998	2020	68	Fair	96	0	4





RW 17-10 RW 17-20





#### TW A

Branch ID	Branch Use Number of Sections		Branch Area (SF)	Branch Area- Weighted Avg PCI	Branch Condition Rating
TW A	TAXIWAY	1	190,698	72	Satisfactory

Section ID	Area (SF)	Surface	Est. Last Major Work Year	Est. Last Global Treatment Year	PCI	Condition Rating	PCI % Climate	PCI % Load	PCI % Other
10	190,698	AC	2004	2020	72	Satisfactory	65	34	1





TW A-10 TW A-10



TW A-10





#### **TW A1**

Branch ID	Branch Use Number of Sections		Branch Area (SF)	Branch Area- Weighted Avg PCI	Branch Condition Rating
TW A1	TAXIWAY	1	11,282	70	Fair

Section ID	Area (SF)	Surface	Est. Last Major Work Year	Est. Last Global Treatment Year	PCI	Condition Rating		PCI % Load	PCI % Other
10	11,282	AC	2004	2020	70	Fair	100	0	0



TW A1-10





#### **TW A2**

Branch ID	Branch Use	Number of Sections	Branch Area (SF)	Branch Area- Weighted Avg PCI	Branch Condition Rating
TW A2	TAXIWAY	2	13,210	69	Fair

Section ID	Area (SF)	Surface	Est. Last Major Work Year	Est. Last Global Treatment Year	PCI	Condition Rating	PCI % Climate	PCI % Load	PCI % Other
10	7,305	AAC	2004	2020	74	Satisfactory	94	0	6
20	5,905	AAC	1998	2020	62	Fair	100	0	0





TW A2-10 TW A2-20



### STATEWIDE AIRFIELD PAVEMENT MANAGEMENT SYSTEM UPDATE



#### TL 01

Branch ID	Branch Use	Number of Sections	Branch Area (SF)	Branch Area- Weighted Avg PCI	Branch Condition Rating
TL 01	TAXILANE	1	32,582	100	Good

Section ID	Area (SF)	Surface	Est. Last Major Work Year	Est. Last Global Treatment Year	PCI	Condition Rating	PCI % Climate	PCI % Load	PCI % Other
10	32,582	AC	2023	-	100	Good	0	0	0

#### **AP 01**

Branch ID	Branch Use	Number of Sections	Branch Area (SF)	Branch Area- Weighted Avg PCI	Branch Condition Rating
AP 01	APRON	1	79,394	100	Good

Secti ID	on A	rea (SF)	Surface	Est. Last Major Work Year	Est. Last Global Treatment Year	PCI	Condition Rating	PCI % Climate	PCI % Load	PCI % Other
10		79,394	AC	2023	-	100	Good	0	0	0



## STATEWIDE AIRFIELD PAVEMENT MANAGEMENT SYSTEM UPDATE

**AQX** - Allendale County Airport

# Appendix E - Re-Inspection Report

SCAC\_2024

52

RAVELING

Generated Date 6/17/2024

Network: AQX Name: ALLENDALE COUNTY AIRPORT

Page 1 of 10

Netw	ork: AQX			Name:	ALL	ENDALE COU	NTY AIRPORT			
Bran	ch: AP 01	Nar	ne: APRO	N 01		Use: A	APRON	Area:	79,394 SqFt	
Secti	on: 10 of	1	From:	_			То: -		Last Const.: 7	7/1/2023
Surfa	nce: AC Family: 2	2024_S	C III IV-AP-AC	Zone:			Category: G		Rank: P	
Area	79,394 SqFt	Le	ngth:	309 Ft		Width:	257 Ft			
Slabs	: Slab Lengt	h:	Ft	Slab '	Width:		Ft	Joint L	ength: Ft	
Shou	lder: Street Typ	e:		Grad	<b>e:</b> 0			Lanes:	0	
Secti	on Comments:									
Worl	<b>Carporal Control Carporal Control Control</b>	k Type:	: Surface Course -	AC (Layer Co	onstruct)	Code	: SU-AC	Is I	Major M&R: False	
Worl	<b>C Date:</b> 6/1/1968 <b>Wor</b>	k Type:	: New Construction	on - AC		Code	: NC-AC	Is I	Major M&R: True	
Worl	<b>Comparison Comparison Comp</b>	к Туре	: Surface Treatme	nt - Seal Coat		Code	: ST-SC	Is I	Major M&R: False	
Worl	<b>Comparison Comparison Comp</b>	k Type:	Overlay - AC St	ructural		Code	: OL-AS	Is I	Major M&R: True	
Worl	<b>Comparison Comparison Comp</b>	k Type	Reconstruction -	AC		Code	: RC-AC	Is I	Major M&R: True	
Worl	<b>Comparison Comparison Comp</b>	k Type:	: Base Course - A	ggregate		Code	: BA-AG	Is I	Major M&R: False	
Worl	<b>x Date:</b> 7/3/2023 <b>Wor</b>	k Type	: Surface Course -	AC (Layer Co	onstruct)	Code	: LC-AC	Is I	Major M&R: False	
Last	Insp. Date: 5/25/2016	7	ΓotalSamples:	15		Surveyed:	4			
	litions: PCI: 68		NO	TE: *** Pre-	Constru	ction PCI ***				
Inspe	ection Comments:									
Samp	ole Number: 03 Type:	: I	R A	rea:	4993	3.00 SqFt	PCI: 69	<del></del>		
Samp	ole Comments:									
48	LONGITUDINAL/TRANSVERSE CRACKING	L	306.00	Ft						
52	RAVELING	L	4993.00	SqFt	CAL	ROLINA				
_	ole Number: 05 Type: ole Comments:	: I	R A	rea:	5004	l.00 SqFt	PCI: 68	3		
48	LONGITUDINAL/TRANSVERSE CRACKING	L	479.00	Ft						
52	RAVELING	L	5004.00	SqFt						
Samp	ole Number: 07 Type:	. I	R A	rea:	5004	.00 SqFt	PCI: 69	)		
Samp	ole Comments:									
48	LONGITUDINAL/TRANSVERSE CRACKING	L	337.00	Ft						
52	RAVELING	L	5004.00	SqFt						
Samp	ole Number: 09 Type:	I	R A	rea:	4993	3.00 SqFt	PCI: 69	)		
Samp	ole Comments:									
48	LONGITUDINAL/TRANSVERSE CRACKING	L	191.00	Ft						
50	DAMEI DIG		4000 00	G . E.						

4993.00 SqFt

L

Network: AQX	ζ				Name	: ALL	ENDALE (	COUN	TY AIRPOR	T			
Branch: RW	17		Name:	RUNV	VAY 17-3	15	Use:	RU	JNWAY	Area:	374,2	250 SqFt	
Section: 10		of 2		From:	-				То: -		L	ast Const.:	8/1/1998
Surface: AC	Famil	<b>y:</b> 2024	SC III	IV-RW-AC	Zone:				Category:	G	R	ank: P	
Area:	134,400 SqFt		Length	ı:	1,792 Ft		Width:		75 Ft				
Slabs:	Slab	Length:		Ft	S	Slab Width:			Ft	J	oint Length:	Ft	
Shoulder:	Stree	et Type:			(	Grade: 0				I	Lanes: 0		
Section Comments	:												
<b>Work Date:</b> 1/1/19	985	Work T	ype: Ne	w Construction	on - AC		(	Code:	NC-AC		Is Major M&	R: True	
<b>Work Date:</b> 1/1/19	985	Work T	ype: Su	rface Course	- AC (Lay	er Construct)	(	Code:	SU-AC		Is Major M&	R: False	
<b>Work Date:</b> 1/1/19	985	Work T	ype: Ba	se Course - A	ggregate		(	Code:	BA-AG		Is Major M&	R: False	
<b>Work Date:</b> 8/1/19	998	Work T	ype: Ne	w Construction	on - AC		(	Code:	NC-AC		Is Major M&	R: True	
<b>Work Date:</b> 1/1/20	010	Work T	ype: Su	rface Treatme	ent - Seal (	Coat	(	Code:	ST-SC		Is Major M&	R: False	
<b>Work Date:</b> 1/1/20	020	Work T	ype: Su	rface Treatme	ent - Seal (	Coat	(	Code:	ST-SC		Is Major M&	R: False	
<b>Work Date:</b> 1/1/20	)20	Work T	ype: Cra	ack Sealing -	AC		(	Code:	CS-AC		Is Major M&	R: False	
Conditions: PC													
Sample Number:	03	Type:	R		Area:	5625	5.00 SqFt		PCI:	70			
Sample Comments	:												
48 L & T CR 57 WEATHER	ING	L L		662.00 5625.00									
Sample Number:	07	Type:	R		Area:	5625	5.00 SqFt		PCI:	73			
Sample Comments		<b>.</b> 1					1						
48 L & T CR		L	,	521.00	Ft								
57 WEATHER	ING	L	,	5625.00	SqFt	TH CAI	ROLIN	A					
Sample Number:	11	Type:	R	A	Area:	5625	5.00 SqFt		PCI:	68			
Sample Comments	:												
48 L & T CR		L	,	651.00	Ft								
56 SWELLING		L	,	11.00	SqFt								
57 WEATHER		L		5625.00									
Sample Number: Sample Comments		Type:	R	A	Area:	5625	5.00 SqFt		PCI:	70			
48 L&TCR		L		647.00	E+								
57 WEATHER	ING	L		5625.00									
Sample Number:		Type:	R		Area:	5625	5.00 SqFt		PCI:	63			
Sample Comments		• •					ī						
48 L & T CR		L	ı	956.00	Ft								
56 SWELLING	ì	L		18.00									
57 WEATHER	ING	L	,	5625.00	SqFt								

Network:	AQX			Name:	ALLENDALE COU	NTY AIRPORT		
Branch:	RW 17		Name:	RUNWAY 17-35	Use:	RUNWAY	<b>Area:</b> 374,250	SqFt
Section: 20		of 2	]	From: -		То: -	Las	t Const.: 8/1/1998
Surface: AA	AC Fam	ily: 20	24_SC III IV	/-RW-AC Zone:		Category: G	Ran	k: P
Area:	239,850 SqF	t	Length:	3,198 Ft	Width:	75 Ft		
Slabs:		b Length:		Ft Slab V		Ft	Joint Length:	Ft
Shoulder:		eet Type:		Grade	: 0		Lanes: 0	
Section Comn	nents:							
Work Date: 6	5/1/1968			ace Course - AC (Layer Co		e: SU-AC	Is Major M&R:	False
Work Date: 6	5/1/1968			Construction - AC		e: NC-AC	Is Major M&R:	True
Work Date: 8	8/1/1998	Work	Type: Over	lay - AC Structural	Code	e: OL-AS	Is Major M&R:	True
Work Date:		Work	Type: Surfa	ace Treatment - Seal Coat		e: ST-SC	Is Major M&R:	False
Work Date:	1/1/2020	Work	Type: Surfa	ace Treatment - Seal Coat		e: ST-SC	Is Major M&R:	False
Work Date:		Work	Type: Cracl	k Sealing - AC		e: CS-AC	Is Major M&R:	False
_	te: 11/30/2023		TotalS	amples: 43	Surveyed:	9		
Conditions:	PCI: 68							
Inspection Co								
Sample Numb		Type:	R	Area:	5625.00 SqFt	PCI: 68		
48 L&T	CR		L	728.00 Ft				
	HERING		L	5625.00 SqFt				
Sample Numb	oer: 10	Type:	R	Area:	5625.00 SqFt	<b>PCI:</b> 72		
Sample Comn	nents:							
48 L & T 0			L	570.00 Ft				
57 WEAT Sample Numb	HERING	Type:	L R	5625.00 SqFt  Area:	5625.00 SqFt	PCI: 67		
Sample Comn		Type.	K	AGOUTH	3023.00 Sq1 t	101. 07		
48 L&T			L	705.00 Ft	NAUIIU5			
56 SWELL			L	23.00 SqFt				
	HERING		L	5625.00 SqFt				
Sample Numb		Type:	R	Area:	5625.00 SqFt	<b>PCI:</b> 68		
Sample Comm								
48 L & T 6 57 WEAT	CR HERING		L L	722.00 Ft 5625.00 SqFt				
Sample Numb		Type:	R	Area:	5625.00 SqFt	PCI: 66		
Sample Comm	nents:				_			
48 L&T	CR		L	698.00 Ft				
56 SWELL	LING		L	50.00 SqFt				
	HERING	Т	L R	5625.00 SqFt  Area:	5625 00 C-E4	PCI: 65		
Sample Numb		Type:	K	Area:	5625.00 SqFt	rci: 03		
48 L&T			L	899.00 Ft				
	HERING		L	5625.00 SqFt				
Sample Numb	oer: 34	Type:	R	Area:	5625.00 SqFt	<b>PCI:</b> 77		
Sample Comm	ments:							
48 L&T			L	380.00 Ft				
	HERING	т	L	5625.00 SqFt	5625 00 G E:	DCF (7		
Sample Numb		Туре:	R	Area:	5625.00 SqFt	<b>PCI:</b> 67		



Netwo	rk: AQX					Name:	ALL	ENDALE CO	DUNTY AIRPO	RT			
Branc	h: TL 01		N	ame:	TAXIL	ANE 01		Use:	TAXILANE	Area:	3	32,582 SqFt	
Sectio	n: 10	0	f 1	F	rom: -	-			То: -			Last Const.: 7/	1/2023
Surfac	ee: AC	Family:	2024_ AC	SC III IV	TW TL-	Zone:			Category:	G		Rank: T	
Area:		32,582 SqFt	I	Length:		746 Ft		Width:	52 F	t			
Slabs:		Slab Ler	ngth:		Ft	Slal	Width:		Ft	J	oint Length:	Ft	
Shoul	ler:	Street T	ype:			Gra	<b>de:</b> 0			I	Lanes: 0		
Sectio	n Comments:												
Work	<b>Date:</b> 6/1/1998	3 W	ork Typ	e: Surfac	e Course -	AC (Layer	Construct)	Co	ode: SU-AC		Is Major N	<b>1&amp;R:</b> False	
Work	<b>Date:</b> 6/1/1998	3 W	ork Typ	e: New C	Constructio	n - AC		Co	ode: NC-AC		Is Major N	<b>1&amp;R:</b> True	
Work	Date: 7/1/2023	s w	ork Typ	e: Recon	struction -	AC		Co	ode: RC-AC		Is Major N	<b>1&amp;R:</b> True	
Work	Date: 7/2/2023	s w	ork Typ	e: Base (	Course - Ag	ggregate		Co	ode: BA-AG		Is Major N	<b>1&amp;R:</b> False	
Work	Date: 7/3/2023	s w	ork Typ	e: Surfac	e Course -	AC (Layer	Construct)	Co	ode: LC-AC		Is Major N	<b>1&amp;R:</b> False	
Last I	nsp. Date: 5/2	5/2016		TotalSa	mples: 3	3		Surveye	<b>d:</b> 2				
Condi	tions: PCI:	66			NO	TE: *** Pr	e-Constru	ction PCI **	*				
Inspec	tion Comments	s:											
Sampl	e Number: 01	l Tyj	pe:	R	A	rea:	4281	.00 SqFt	PCI:	69			
Sampl	e Comments:												
48	LONGITUDIN CRACKING	JAL/TRANSVER	SE L		202.00	Ft							
52	RAVELING		L		4281.00	SqFt							
Sampl	e Number: 02	2 <b>Ty</b> J	pe:	R	A	rea:	5266	.00 SqFt	PCI:	64			
Sampl	e Comments:												
48	LONGITUDIN CRACKING	JAL/TRANSVER	SE L		319.00	Ft							
50	PATCHING		M		120.00		-///						
52	RAVELING		L		5146.00	SqFt							

Netwo	arle AOV				Nam	ALLEMDALE C	COUNTY AIRPOR	r	
Branc			Name	. TAVI	Nan WAY A		TAXIWAY		190,698 SqFt
					WAYA	Use:		Area:	· ·
Section		of 1		From:	-		To: -		Last Const.: 4/1/2004
Surfac	ce: AC I	Family: 20 AG		II IV-TW TL-	Zon	<b>:</b>	Category:		Rank: P
Area:	190,698	SqFt	Leng	th:	5,550 F	Width:	35 Ft		
Slabs:		Slab Length		Ft		Slab Width:	Ft	Joint Length	: Ft
Should	der:	Street Type:				Grade: 0		Lanes: 0	
Section	n Comments:								
Work	<b>Date:</b> 4/1/2004	Work	Type: N	New Construction	on - AC	(	Code: NC-AC	Is Major	M&R: True
Work	<b>Date:</b> 1/1/2010	Work	Type: S	Surface Treatme	nt - Sea	l Coat (	Code: ST-SC	Is Major	M&R: False
Work	<b>Date:</b> 1/1/2020	Work	Type: S	Surface Treatme	nt - Sea		Code: ST-SC	Is Major	M&R: False
Work	<b>Date:</b> 1/1/2020	Work	Type: (	Crack Sealing	AC	(	Code: CS-AC	Is Major	M&R: False
Last I	nsp. Date: 11/30/2023		To	talSamples:	37	Survey	<b>ed:</b> 9		
Condi	tions: PCI: 72								
Inspec	ction Comments:								
Sampl	le Number: 01	Type:	R	A	rea:	4402.00 SqFt	PCI:	64	
Sampl	le Comments:								
41	ALLIGATOR CR		M	24.00	SqFt				
48	L & T CR		L	352.00	Ft				
57 57	WEATHERING WEATHERING		L M	4314.00 88.00	- 45				
	le Number: 02	Type:	A		rea:	4503.00 SqFt	PCI:	60	
_	le Comments:	1 ypc.	11	1		NAVA SQL	T CI.		
_				22.00	C. E.				
41 41	ALLIGATOR CR ALLIGATOR CR		L M	22.00	SqFt SqFt				
45	DEPRESSION		L		SqFt				
48	L & T CR		L	284.00					
57	WEATHERING		L	4413.00					
57	WEATHERING		M	90.00		KIINAUIII:	5		
•	le Number: 05	Type:	R	Α	rea:	5250.00 SqFt	PCI:	67	
Sampl	le Comments:								
48	L & T CR		L	738.00					
57	WEATHERING		L	5250.00					
_	le Number: 11	Type:	R	A	rea:	5250.00 SqFt	PCI:	81	
Sampl	le Comments:								
48	L & T CR		L	242.00					
57	WEATHERING		L	5250.00					
_	le Number: 18 le Comments:	Type:	R	A	rea:	5250.00 SqFt	PCI:	85	
48	L & T CR		L	163.00	Ft				
57	WEATHERING		L	5250.00					
Sampl	le Number: 25	Type:	R	Α	rea:	5250.00 SqFt	PCI:	69	
Sampl	le Comments:								
48	L & T CR		L	488.00					
57	WEATHERING		L	4988.00	-				
57	WEATHERING	TD.	M	262.00		5050.00 G. D.	BOI	72	
Sampl	le Number: 30 le Comments:	Type:	R	Α	rea:	5250.00 SqFt	PCI:	12	
Sampl									
_			I.	422 00	Ft				
<b>Sampl</b> 48 57	L & T CR WEATHERING		L L	422.00 5145.00					

Sam	ple Number: 34	Type:	R	Area:	5250.00 SqFt	<b>PCI:</b> 73
Sam	ple Comments:					
48	L & T CR	Ι		469.00 Ft		
57	WEATHERING	I	_	5250.00 SqFt		
Sam	ple Number: 36	Type:	R	Area:	5451.00 SqFt	PCI: 69
Sam	ple Comments:					
41	ALLIGATOR CR	Ι		16.00 SqFt		
48	L & T CR	I		264.00 Ft		
48	L & T CR	N	Л	7.00 Ft		
50	PATCHING	I	,	24.00 SqFt		
57	WEATHERING	I	_	5427.00 SqFt		



AQX ALLENDALE COUNTY AIRPORT Network: Name: TW A1 TAXIWAY A1 Use: TAXIWAY 11,282 SqFt Branch: Name: Area: 10 of 1 Section: From: To: -Last Const.: 4/1/2004 Family: AC2024\_SC III IV-TW TL-Rank: P Surface: Zone: Category: Width: Length: 40 Ft Area: 11,282 SqFt 200 Ft Slabs: Slab Length: Ft Slab Width: Ft Joint Length: Ft 0 Shoulder: **Street Type:** Grade: Lanes: **Section Comments:** Work Date: 4/1/2004 Work Type: New Construction - AC Code: NC-AC Is Major M&R: True Work Date: 1/1/2010 Work Type: Surface Treatment - Seal Coat Code: ST-SC Is Major M&R: False Work Date: 1/1/2020 Work Type: Crack Sealing - AC Code: CS-AC Is Major M&R: False Work Date: 1/1/2020 Work Type: Surface Treatment - Seal Coat Code: ST-SC Is Major M&R: False **TotalSamples:** 3 **Last Insp. Date:** 11/30/2023 Surveyed: 1 **Conditions:** PCI: **Inspection Comments:** Sample Number: 02 Type: R Area: 4126.00 SqFt **PCI:** 70 **Sample Comments:** 48

L & T CR L 463.00 Ft
WEATHERING L 4126.00 SqFt

57



Netwo	rk: AQX			Nai	me: ALI	LENDALE CO	UNTY AIRPORT		
Brancl	h: TW A2		Name:	TAXIWAY A	A2	Use:	TAXIWAY	Area:	13,210 SqFt
Section	n: 10	0	of 2 <b>F</b>	rom: -			То: -		<b>Last Const.:</b> 4/1/2004
Surfac	e: AAC	Family:	2024_SC III IV AC	-TW TL- Zoi	ne:		Category: G		Rank: S
Area:		7,305 SqFt	Length:	144	Ft	Width:	40 Ft		
Slabs:		Slab Lei	ngth:	Ft	Slab Width:		Ft	Joint Lengt	h: Ft
Should	ler:	Street T	ype:		Grade: 0			Lanes:	)
Section	n Comments:								
Work	Date: 6/1/1968	W	ork Type: Surfa	ce Course - AC (I	Layer Construct	) Co	de: SU-AC	Is Majo	r M&R: False
Work 1	<b>Date:</b> 6/1/1968	W	ork Type: New	Construction - AC	C	Co	de: NC-AC	Is Majo	r M&R: True
Work	<b>Date:</b> 8/1/1998	W	ork Type: Overl	ay - AC Structura	nl	Co	de: OL-AS	Is Majo	r M&R: True
Work	Date: 4/1/2004	W	ork Type: Overl	ay - AC Structura	ıl	Co	de: OL-AS	Is Majo	r M&R: True
Work	Date: 1/1/2010	W	ork Type: Surfa	ce Treatment - Se	al Coat	Co	de: ST-SC	Is Majo	r M&R: False
Work 1	Date: 1/1/2020	W	ork Type: Crack	Sealing - AC		Coe	de: CS-AC	Is Majo	r M&R: False
Work	Date: 1/1/2020	W	ork Type: Surfa	ce Treatment - Se	al Coat	Co	de: ST-SC	Is Majo	r M&R: False
Last Ir	11/3	0/2023	TotalSa	mples: 2		Surveyed	: 1		
Condit	tions: PCI:	74							
Inspec	tion Comments:								
Sample	e Number: 01	Tyj	pe: R	Area:	3189	9.00 SqFt	PCI: 74	1	
Sample	e Comments:								
48	L & T CR		L	207.00 Ft					
50	PATCHING		L	8.00 SqFt		100			
56	SWELLING		L	10.00 SqFt					
57	WEATHERING		L	3181.00 SqFt					
					UTH CA				
				AL	KUNA	01162			

Network:	AQX					Name:	ALI	ENDALE	COUN	TY AIRPORT				
Branch:	TW A2		Nan	ne: 7	TAXIWA	AY A2		Use:	TA	XIWAY	Area:	13,2	210 SqFt	
Section:	20	of	f 2	From	-					То: -		L	ast Const.:	8/1/1998
Surface:	AAC	Family:	2024_SC AC	C III IV-TW	TL-	Zone:				Category: G		R	ank: S	
Area:	:	5,905 SqFt	Le	ngth:	1	20 Ft		Width:		40 Ft				
Slabs:		Slab Len	gth:		Ft	Slab	Width:			Ft	Joint I	ength:	F	t
Shoulder:		Street Ty	pe:			Grad	<b>de:</b> 0				Lanes:	0		
Section Co	mments:													
Work Date	: 6/1/1968	W	ork Type:	: New Cons	truction -	- AC		ı	Code:	NC-AC	Is	Major M&	R: True	
Work Date	: 6/1/1968	W	ork Type:	Surface Co	ourse - A	.C (Layer C	Construct)		Code:	SU-AC	Is	Major M&	R: False	
Work Date	: 8/1/1998	W	ork Type:	: Overlay - A	AC Struc	ctural			Code:	OL-AS	Is	Major M&	R: True	
Work Date	: 1/1/2010	W	ork Type:	Surface Tr	eatment	- Seal Coat	t	ı	Code:	ST-SC	Is	Major M&	R: False	
Work Date	: 1/1/2020	W	ork Type:	Surface Tr	eatment	- Seal Coat	t	ı	Code:	ST-SC	Is	Major M&	R: False	
Work Date	: 1/1/2020	W	ork Type:	: Crack Seal	ing - AC	2			Code:	CS-AC	Is	Major M&	R: False	
Last Insp. I	<b>Date:</b> 11/30.	/2023	7	ΓotalSample	es: 1			Surve	yed:	1				
Conditions	: PCI:	52												
Inspection	Comments:													
Sample Nu	mber: 01	Тур	e: F	2	Are	ea:	5905	5.00 SqFt		PCI: 62				
Sample Co	mments:													
48 L&	T CR		L	81	7.00 F									
	TCHING		L			qFt	-V.V							
57 WE	ATHERING		L	475	33.00 S	SOUTH	A CAI	ROLIN						



Kimley»Horn