

SOUTH CAROLINA AERONAUTICS COMMISSION

STATEWIDE AIRFIELD PAVEMENT MANAGEMENT SYSTEM UPDATE



S19 - McCormick County Airport



SOUTH CAROLINA AERONAUTICS

STATEWIDE AIRFIELD PAVEMENT MANAGEMENT SYSTEM UPDATE



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STATEWIDE AIRFIELD PAVEMENT MANAGEMENT SYSTEM UPDATE



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 D5340-20 — "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 McCormick County Airport (S19).



Figure 1 – Airport Layout



S19 - McCormick County Airport

System Inventory

The pavements at McCormick County Airport (S19) include approximately 0.3 million square feet of airfield pavements consisting of runways, taxiways, and aprons. Per the guidance in the ASTM D5340-20, 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.

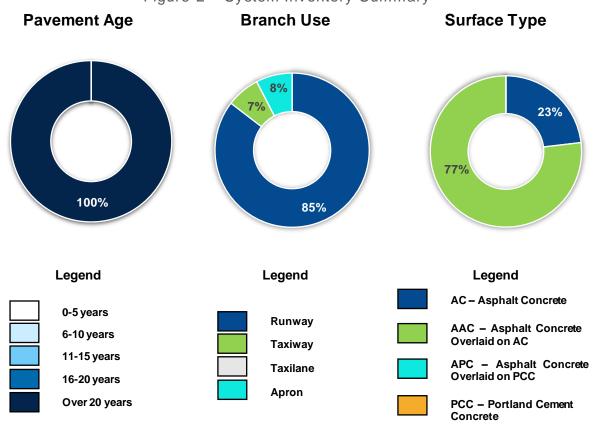
Each pavement update included a review of documentation of any maintenance and major rehabilitation related activities performed on the airfield pavements. No documented or identified projects occurred since the previous inspection.

Table 1 - Recent Airfield Pavement Construction

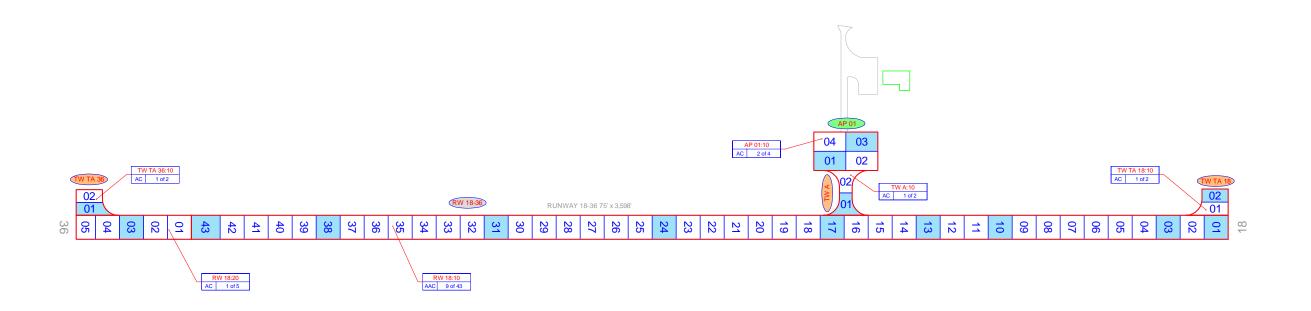
Construction Year	Location	Work Type / Pavement Section					
No Information Provided							

The following figure summarizes the inventory items at McCormick County Airport (S19). The **Estimated Age Exhibit** provides the last major work date for each pavement section based on the collected documentation.

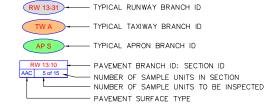
Figure 2 - System Inventory Summary







LEGEND



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

INSPECTED SAMPLE UNITS.

TOTAL SAMPLES INSPECTED = 15 AC: 15 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.







Legend

Estimated Age at Inspection







BRANCH IDENTIFIER
SECTION IDENTIFIER
TWA:20 | 1985

LAST MAJOR WORK DATE







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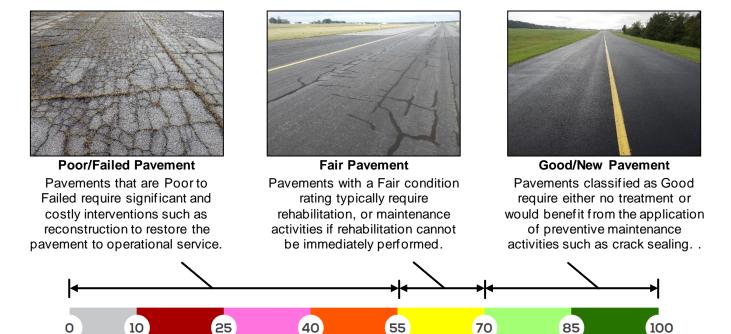
Functional Evaluation

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 D5340-20.

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



STATEWIDE AIRFIELD PAVEMENT MANAGEMENT SYSTEM UPDATE



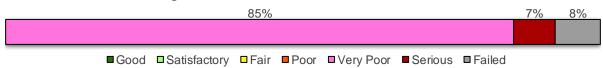
Critical PCI

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

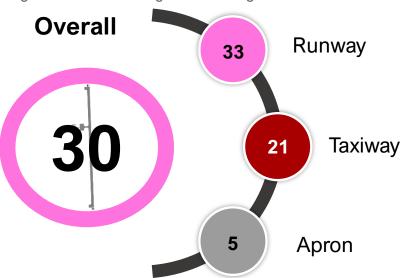
The PCI survey for McCormick County Airport (S19) was performed in January 2023. **The overall area-weighted average PCI value of the network was 30**, representing a condition rating of **Very Poor**. None of inspected pavements are in Good, Satisfactory, or Fair condition. All the pavements are in Poor or worse condition as summarized in **Figure 4**.

Figure 4 – Overall Network PCI Results



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





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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
S19	AP 01	Apron	10	24,000	AC	5	Failed	61	39	0
S19	RW 18	Runway	10	243,000	AAC	33	Very Poor	100	0	0
S19	RW 18	Runway	20	27,000	AC	34	Very Poor	100	0	0
S19	TW A	Taxiway	10	7,746	AC	22	Serious	90	10	0
S19	TW TA 18	Taxiway	10	7,261	AC	19	Serious	80	10	10
S19	TW TA 36	Taxiway	10	7,097	AC	22	Serious	84	16	0

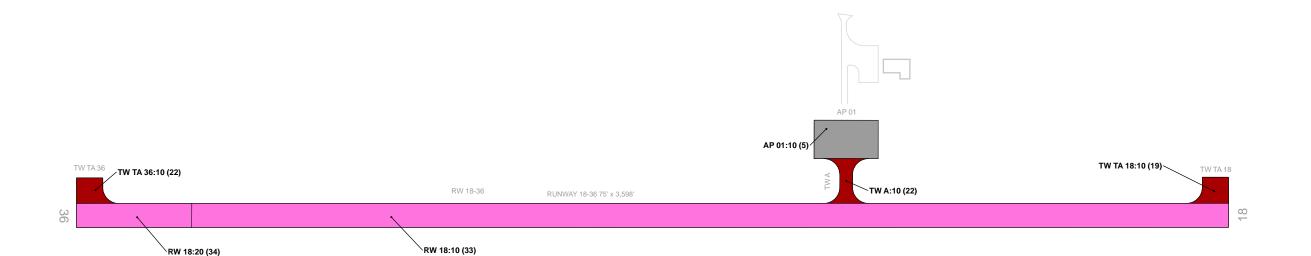
^{*}For further PCI details and photos see Appendix D – Detailed PCI Results.

PCI 26-40 Very Poor

PCI 11-25 Serious

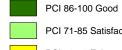
BRANCH IDENTIFIER
SECTION IDENTIFIER
TWA:20 (84)
PCI





Legend

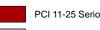
2023 Pavement Condition Index

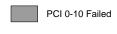
















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Pavement Condition Forecast

A primary objective of this APMS is to estimate the future condition of each individual pavement section. PAVERTM 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, Apron) found at the Airport. The forecasted 5-year PCIs at a section-level are displayed graphically on the **2028 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 S19.

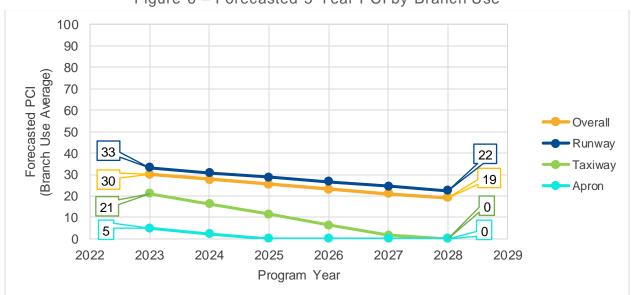


Figure 6 - Forecasted 5-Year PCI by Branch Use

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.



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Table 3 - Forecast (2024-2028) Section Pavement Condition Index - Section

Network	Branch ID	Section ID	Current		Fore	ecasted	IPCI	
ID	Branchib	Section ib	PCI	2024	2025	2026	2027	2028
S19	AP 01	10	5	3	0	0	0	0
S19	RW 18	10	33	31	29	27	24	22
S19	RW 18	20	34	32	30	28	25	23
S19	TW A	10	22	17	12	7	3	0
S19	TW TA 18	10	19	14	9	4	0	0
S19	TW TA 36	10	22	17	12	7	3	0





Legend

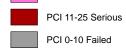
2028 Forecasted Pavement Condition Index

PCI 86-100 Good

PCI 71-85 Satisfactory

PCI 56-70 Fair
PCI 41-55 Poor

PCI 26-40 Very Poor



BRANCH IDENTIFIER
SECTION IDENTIFIER
TWA:20 (84)
FORECASTED PCI





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M&R Overview

An analysis was performed to assess the pavement maintenance and rehabilitation (M&R) needs at S19 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.

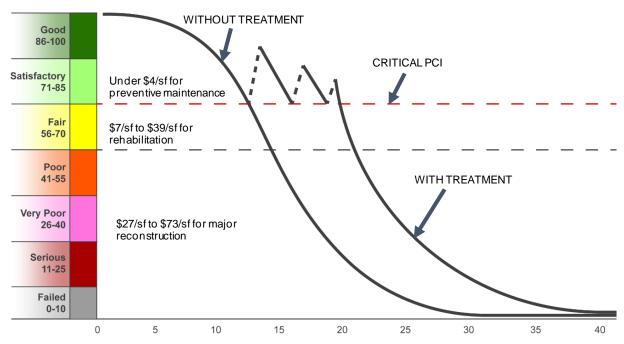


Figure 7 – Pavement Life and the Effect of Treatments



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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.

Table 4 – Localized Maintenance Summary by Policy Type

Localized Maintenance Category	Localized Work Type	Rough Estimate of Work Quantity	Work Units	Plar	nning Material Cost
Localized Preventive Maintenance		N/A		\$	-
	\$	-			
	AC Crack Sealing Narrow	LF	\$	162,940	
Localized Stopgap Maintenance	Surface Seal	291,954	SF	\$	481,770
	AC Full-Depth Patching	6,651	SF	\$	118,090
	nce Total =	\$	762,800		
	R Needs =	\$	762,800		

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
 - 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

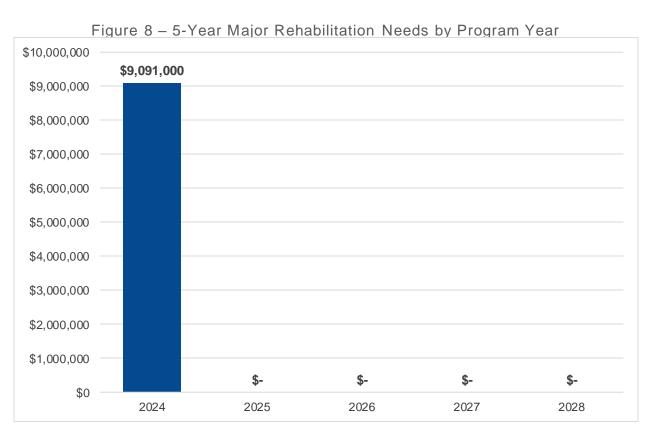
The 5-year major rehabilitation needs analysis at S19 results in a total 5-year cost of \$9.09M. The **5-Year Major Rehabilitation Needs Exhibit** graphically depicts the major rehabilitation needs at a section-level which are also summarized in **Table 5** with rounded costs. Annual needs are displayed graphically in **Figure 8**.



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Table 5 – 5-Year Major Rehabilitation Needs

Program Year	Network ID	Branch ID	Section ID	Surface	Area (SF)	PCI Before	Rehabilitation Type	Planning Cos Estimate	
2024	S19	AP 01	10	AC	24,000	3	AC Reconstruction	\$	690,000
2024	S19	RW 18	10	AAC	243,000	31	AC Reconstruction	\$	6,987,000
2024	S19	RW 18	20	AC	27,000	32	AC Reconstruction	\$	777,000
2024	S19	TW A	10	AC	7,746	17	AC Reconstruction	\$	223,000
2024	S19	TW TA 18	10	AC	7,261	14	AC Reconstruction	\$	209,000
2024	S19	TW TA 36	10	AC	7,097	17	AC Reconstruction	\$	205,000
	Total 5-Year Major Rehabilitation Needs =								





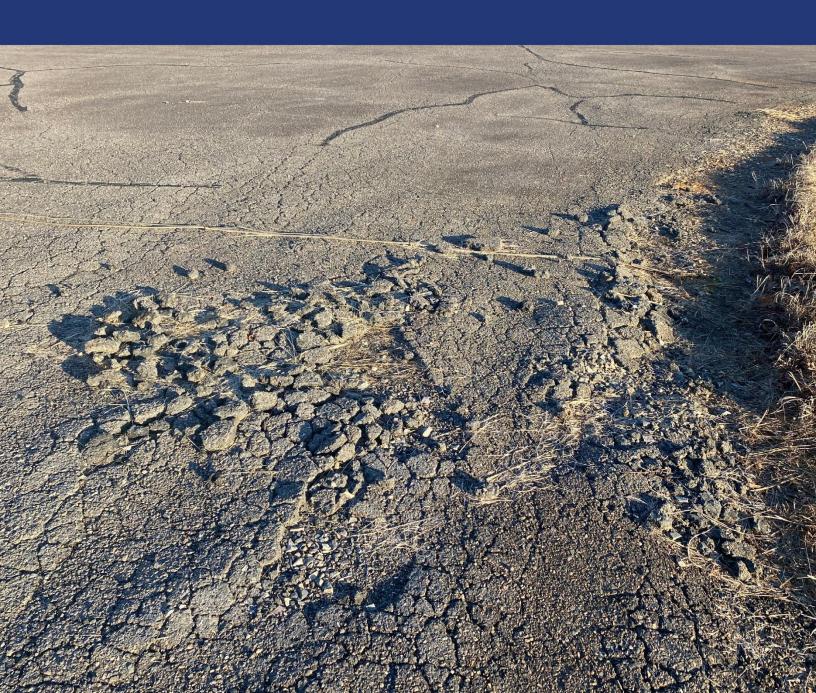


5-Year Major Rehabilitation Needs Exhibit

[Insert M&R Exhibit]

SECTION I

Appendices

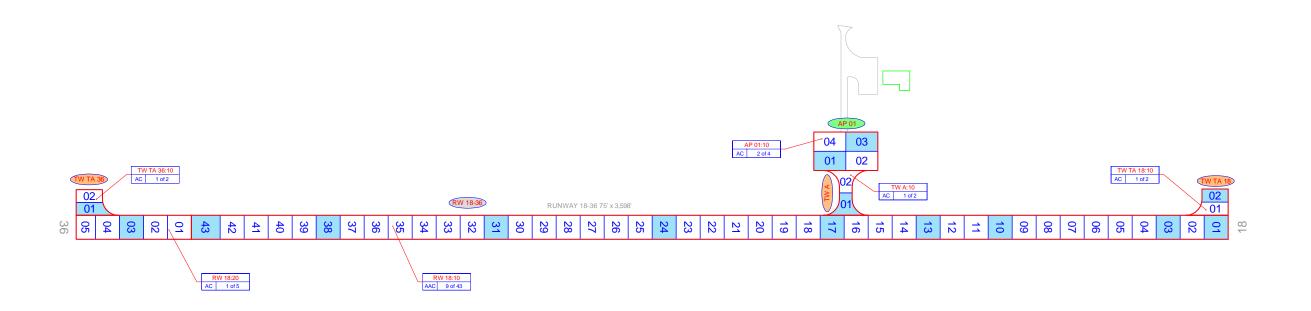




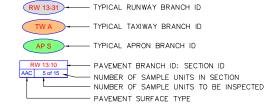
S19 - McCormick County Airport

Appendix A – Exhibits





LEGEND



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

INSPECTED SAMPLE UNITS.

TOTAL SAMPLES INSPECTED = 15 AC: 15 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.







Legend

Estimated Age at Inspection







BRANCH IDENTIFIER
SECTION IDENTIFIER
TWA:20 | 1985

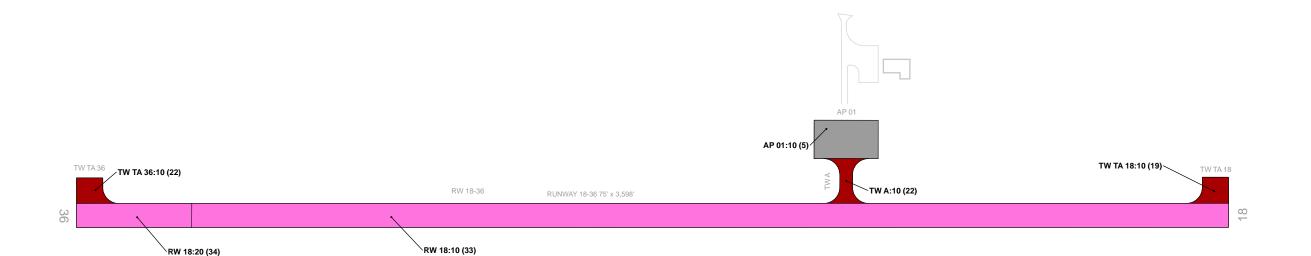
LAST MAJOR WORK DATE

PCI 26-40 Very Poor

PCI 11-25 Serious

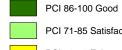
BRANCH IDENTIFIER
SECTION IDENTIFIER
TWA:20 (84)
PCI





Legend

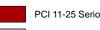
2023 Pavement Condition Index

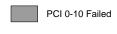


















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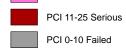
2028 Forecasted Pavement Condition Index

PCI 86-100 Good

PCI 71-85 Satisfactory

PCI 56-70 Fair
PCI 41-55 Poor

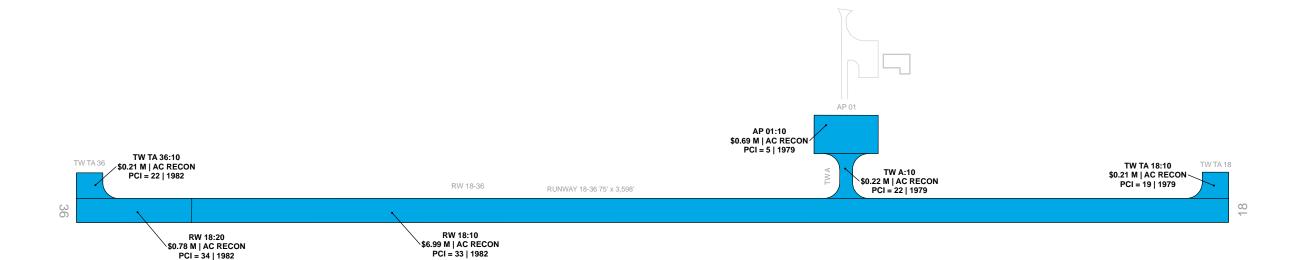
PCI 26-40 Very Poor



BRANCH IDENTIFIER
SECTION IDENTIFIER
TWA:20 (84)
FORECASTED PCI







PCI = 34 | 1982

Legend

5-Year Major Rehabilitation Needs

Year 1 Rehabilitation Needs

Year 1 Reconstruction Needs

Year 2 Rehabilitation Needs

Year 3 Rehabilitation Needs

Year 4 Rehabilitation Needs

Year 5 Rehabilitation Needs

-M&R COST BRANCH IDENTIFIER SECTION IDENTIFIER TWA:20 M&R WORK TYPE

\$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.





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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
S19	AP 01	Apron	10	24,000	AC	6/1/1979
S19	RW 18	Runway	10	243,000	AAC	3/1/1982
S19	RW 18	Runway	20	27,000	AC	6/1/1982
S19	TW A	Taxiway	10	7,746	AC	6/1/1979
S19	TW TA 18	Taxiway	10	7,261	AC	6/1/1979
S19	TW TA 36	Taxiway	10	7,097	AC	6/1/1982

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	24,000	5	Failed
RW 18	Runway	2	270,000	33	Very Poor
TW A	Taxiway	1	7,746	22	Serious
TW TA 18	Taxiway	1	7,261	19	Serious
TW TA 36	Taxiway	1	7,097	22	Serious



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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
S19	AP 01	Apron	10	24,000	AC	5	Failed	61	39	0	2	4
S19	RW 18	Runway	10	243,000	AAC	33	Very Poor	100	0	0	9	43
S19	RW 18	Runway	20	27,000	AC	34	Very Poor	100	0	0	1	5
S19	TW A	Taxiway	10	7,746	AC	22	Serious	90	10	0	1	2
S19	TW TA 18	Taxiway	10	7,261	AC	19	Serious	80	10	10	1	2
S19	TW TA 36	Taxiway	10	7,097	AC	22	Serious	84	16	0	1	2



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Table B4 -Forecasted (2024-2028) Pavement Condition Index Summary - Section

Network	Branch ID	Section ID	tion ID Current		Forecasted PCI						
ID	Branchib	Section ib	PCI	2024	2025	2026	2027	2028			
S19	AP 01	10	5	3	0	0	0	0			
S19	RW 18	10	33	31	29	27	24	22			
S19	RW 18	20	34	32	30	28	25	23			
S19	TW A	10	22	17	12	7	3	0			
S19	TW TA 18	10	19	14	9	4	0	0			
S19	TW TA 36	10	22	17	12	7	3	0			



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Appendix C – Maintenance and Rehabilitation Tables



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Table C1 – Localized Maintenance Summary by Policy Type

Localized Maintenance Category	Localized Work Type	Rough Estimate of Work Quantity	Work Units		Planning Material Cost	
Localized Preventive Maintenance		N/A		\$	-	
		\$	-			
	AC Crack Sealing Narrow	46,544	LF	LF \$ 16		
Localized Stopgap Maintenance	Surface Seal	291,954	SF	\$	481,770	
	AC Full-Depth Patching	6,651	SF	\$	118,090	
Localized Stopgap Maintenance Total =						
	\$	762,800				

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

Network ID	Branch ID	Section ID	Area (SF)	Start PCI	End PCI	Cost
S19	AP 01	10	24,000	5	49	\$ 168,260
S19	RW 18	10	243,000	33	66	\$ 483,860
S19	RW 18	20	27,000	34	66	\$ 50,450
S19	TW A	10	7,746	22	57	\$ 21,250
S19	TW TA 18	10	7,261	19	49	\$ 19,700
S19	TW TA 36	10	7,097	22	55	\$ 19,200

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	Uni	t Cost	Work Cost	
S19	AP 01	10	ALLIGATOR CR	Medium	4,892	SF	20.4%	Stopgap	AC Full-Depth Patching	5,177	SF	\$	17.75	\$	91,910
S19	AP 01	10	ALLIGATOR CR	High	208	SF	0.9%	Stopgap	AC Full-Depth Patching	270	SF	\$	17.75	\$	4,800
S19	AP 01	10	BLOCKCR	Medium	15,572	SF	64.9%	Stopgap	AC Crack Sealing Narrow	4,746	LF	\$	3.50	\$	16,620
S19	AP 01	10	PATCHING	High	1,040	SF	4.3%	Stopgap	AC Full-Depth Patching	1,173	SF	\$	17.75	\$	20,840
S19	AP 01	10	RAVELING	Medium	20,672	SF	86.1%	Stopgap	Surface Seal	20,672	SF	\$	1.65	\$	34,110
S19	RW 18	10	L&TCR	Medium	31,127	LF	12.8%	Stopgap	AC Crack Sealing Narrow	31,128	LF	\$	3.50	\$	108,950
S19	RW 18	10	RAVELING	Medium	227,218	SF	93.5%	Stopgap	Surface Seal	227,218	SF	\$	1.65	\$	374,920
S19	RW 18	20	L&TCR	Medium	4,061	LF	15.0%	Stopgap	AC Crack Sealing Narrow	4,061	LF	\$	3.50	\$	14,220
S19	RW 18	20	RAVELING	Medium	21,960	SF	81.3%	Stopgap	Surface Seal	21,961	SF	\$	1.65	\$	36,240
S19	TW A	10	ALLIGATOR CR	Medium	12	SF	0.2%	Stopgap	AC Full-Depth Patching	30	SF	\$	17.75	\$	540
S19	TW A	10	BLOCKCR	Medium	7,434	SF	96.0%	Stopgap	AC Crack Sealing Narrow	2,266	LF	\$	3.50	\$	7,940





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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 Co	Work Cost	
S19	TW A	10	RAVELING	Medium	7,746	SF	100.0%	Stopgap	Surface Seal	7,746	SF	\$ 1.65	\$ 12	2,790	
S19	TW TA 18	10	BLOCKCR	Medium	7,229	SF	99.6%	Stopgap	gap AC Crack Sealing Narrow		LF	\$ 3.50	\$ 7	7,720	
S19	TW TA 18	10	RAVELING	Medium	7,261	SF	100.0%	Stopgap	Surface Seal	7,261	SF	\$ 1.65	\$ 11	1,990	
S19	TW TA 36	10	BLOCKCR	Medium	7,021	SF	98.9%	Stopgap	AC Crack Sealing Narrow	2,140	LF	\$ 3.50	\$ 7	7,490	
S19	TW TA 36	10	RAVELING	Medium	7,097	SF	100.0%	Stopgap	opgap Surface Seal		SF	\$ 1.65	\$ 11	1,720	

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
2024	S19	AP 01	10	AC	24,000	3	AC Reconstruction	\$ 690,000
2024	S19	RW 18	10	AAC	243,000	31	AC Reconstruction	\$ 6,987,000
2024	S19	RW 18	20	AC	27,000	32	AC Reconstruction	\$ 777,000
2024	S19	TW A	10	AC	7,746	17	AC Reconstruction	\$ 223,000
2024	S19	TW TA 18	10	AC	7,261	14	AC Reconstruction	\$ 209,000
2024	S19	TW TA 36	10	AC	7,097	17	AC Reconstruction	\$ 205,000
	Total 5- Year Major Rehabilitation Needs =							



S19 - McCormick County Airport

Appendix D – PCI Results Summary





RW 18

Branch ID	Branch Use	Number of Sections	Branch Area (SF)	Branch Area- Weighted Avg PCI	Branch Condition Rating
RW 18	RUNWAY	2	270,000	33	Very Poor

Section ID	Area (SF)	Surface		Est. Last Global Treatment Year	PCI	Condition Rating	PCI % Climate		PCI % Other
10	243,000	AAC	1982	-	33	Very Poor	100	0	0
20	27,000	AC	1982	-	34	Very Poor	100	0	0





RW 18-10 RW 18-20

TW A

1117						
Branch ID	Branch Use	Number of Sections	Branch Area (SF)	Branch Area- Weighted Avg PCI	Branch Condition Rating	
TW A	TAXIWAY	1	7,746	22	Serious	
Section ID	Area (SF)	Surface Est. Last Major Work Year	Est. Last Global Treatment Year	Condition PCI % Rating Climate		







TW A-10 TW A-10





TWTA 18

Branch ID	Branch Use	Number of Sections	Branch Area (SF)	Branch Area- Weighted Avg PCI	Branch Condition Rating
TW TA 18	TAXIWAY	1	7,261	19	Serious

Section ID	Area (SF)	Surface	Est. Last Major Work Year	Est. Last Global Treatment Year	PCI	Condition Rating	PCI % Climate		
10	7,261	AC	1979	-	19	Serious	80	10	10



TW TA-18

TWTA36

Branch ID	Branch Use	Number of Sections	Branch Area (SF)	Branch Area- Weighted Avg PCI	Branch Condition Rating
TW TA 36	TAXIWAY	1	7,097	22	Serious

Section ID	Area (SF)	Surface		Est. Last Global Treatment Year	PCI	Condition Rating	PCI % Climate		
10	7,097	AC	1982	-	22	Serious	84	16	0



TW TA-36





AP <u>01</u>

Branch ID	Branch Use	Number of Sections	Branch Area (SF)	Branch Area- Weighted Avg PCI	Branch Condition Rating
AP 01	APRON	1	24,000	5	Failed

Section ID	Area (SF)	Surface	Est. Last Major Work Year	Est. Last Global Treatment Year	PCI	Condition Rating	PCI % Climate		
10	24,000	AC	1979	-	5	Failed	61	39	0





AP 01-10 AP 01-10



S19 - McCormick County Airport

Appendix E – Re-Inspection Report

SCAC_2023

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52

PATCHING

PATCHING

RAVELING

M

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M

1144.00

520.00

4336.00

SqFt

SqFt

SqFt

Page 1 of 7 **Generated Date** 5/31/2023 Network: S19 Name: McCormick County Airport **Branch:** AP 01 APRON 01 Use: **APRON** 24,000 SqFt Name: Area: Section: 10 of 1 From: To: -**Last Const.:** 6/1/1979 Surface: AC Family: SC34_AP_AC Zone: Category: G Rank: T 24,000 SqFt 200 Ft Width: 120 Ft Area: Length: Slab Length: Ft Slab Width: Joint Length: Ft Slabs: Ft **Shoulder: Street Type:** Grade: 0 Lanes: **Section Comments:** Work Date: 6/1/1979 Work Type: Surface Course - AC (Layer Construct) Code: SU-AC Is Major M&R: False Work Date: 6/1/1979 Work Type: Subbase - Aggregate Code: SB-AG Is Major M&R: False Work Date: 6/1/1979 Code: NU-IN Is Major M&R: True Work Type: New Construction - Initial Work Date: 1/1/2013 Work Type: Patching - AC Code: PA-AC Is Major M&R: False Work Date: 1/1/2015 Work Type: Crack Sealing - AC Code: CS-AC Is Major M&R: False **Last Insp. Date:** 1/11/2023 TotalSamples: 4 Surveyed: 2 **Conditions:** PCI: **Inspection Comments:** Sample Number: 01 R 6000.00 SqFt PCI: 3 Type: Area: **Sample Comments:** ALLIGATOR CR M 1459.00 SqFt 41 41 ALLIGATOR CR Η 64.00 SqFt 43 BLOCK CR M 4477.00 SqFt 52 RAVELING M 6000.00 SqFt R 6000.00 SqFt **PCI:** 7 Sample Number: 03 Type: Area: **Sample Comments:** ALLIGATOR CR SqFt 41 M 987.00 SqFt 41 ALLIGATOR CR Η 40.00 43 BLOCK CR M 3309.00 SqFt

Network	: S19						Nan	ne: M	cCormick C	ounty A	irport				
Branch:	RW 18			Naı	ne: R	UNV	VAY 18	3-36	Use	: RU	JNWAY	Area:	270,000) SqFt	
Section:	10		of 2		From:		-				То: -		Las	t Const.:	3/1/1982
Surface:	AAC	Fai	mily: SC	C34_R	RW_AC		Zon	ie:			Category: G		Rai	ık: T	
Area:		243,000 Sc	qFt	Le	ength:		3,240 I	₹t	Width:		75 Ft				
Slabs:		SI	lab Length	:		Ft		Slab Width	:		Ft	Joint L	ength:	F	₹t
Shoulder	:	St	treet Type:					Grade:	0			Lanes:	0		
Section (Comments:														
Work Da	nte: 6/1/1979)	Work	Type	: Subbase - A	Aggre	gate			Code:	SB-AG	Is N	Iajor M&R:	False	
Work Da	ate: 6/1/1979)	Work	Туре	: Surface Co	urse -	- AC (L	ayer Construc	et)	Code:	SU-AC	Is N	Iajor M&R:	False	
Work Da	ate: 6/1/1979)	Work	Туре	: New Const	ructio	on - AC	1		Code:	NC-AC	Is N	Iajor M&R:	True	
Work Da	nte: 3/1/1982	2	Work	Туре	: Overlay - A	AC St	ructura	I		Code:	OL-AS	Is N	Iajor M&R:	True	
Work Da	nte: 1/1/2015	5	Work	Type	: Crack Seali	ing -	AC			Code:	CS-AC	Is N	Iajor M&R:	False	
Last Insp	Date: 1/1	1/2023		,	TotalSample	es:	43		Surve	eyed:)				
Conditio	ns: PCI:	33													
Inspectio	on Comment	s:													
Sample N	Number: 0	1	Туре:]	R	A	\rea:	56	25.00 SqFt		PCI: 30	0			
Sample (Comments:														
48 L	& T CR			M	92	6.00	Ft								
	AVELING			M			SqFt								
Sample N	Number: 03	3	Type:]	R	A	rea:	56	25.00 SqFt	V	PCI: 31	1			
Sample (Comments:														
48 L	& T CR			L	3	1.00	Ft		5						
	& T CR			M		5.00									
	AVELING			M			SqFt			_/_					
_	Number: 10	0	Type:]	R	A	Area:		25.00 SqFt		PCI: 30	0			
Sample (Comments:														
	& T CR			M		1.00									
	AVELING			M			SqFt		25 00 G F:		DCI 21				
-	Number: 13	3	Type:		R	Α	Area:	56.	25.00 SqFt		PCI: 31	I			
_	Comments:														
	& T CR			M		9.00									
	AVELING			M			SqFt		25 00 G F:		DCI 20	0			
-	Number: 1'	/	Type:	J	R	Α	Area:	36.	25.00 SqFt		PCI: 38	8			
-	Comments:														
	& T CR AVELING			L M		4.00	Ft SqFt								
	Number: 24	1	Type:		R		Area:	56	25.00 SqFt		PCI: 32	2			
-	Comments:	7	Type.	,	X	P	uca.	30.	23.00 Sqrt		1 (1. 32	<u> </u>			
_							_								
	& T CR AVELING			M M		9.00	Ft SqFt								
	Number: 3	1	Type:		R		rea:	56	25.00 SqFt		PCI: 33	3			
-	Comments:	-	Турст			-			20.00 541 0		1011 55				
_					20	7 .00	т.								
	& T CR AVELING			M M		7.00	Ft SqFt								
	Number: 38	<u> </u>	Type:		R		rea:	56	25.00 SqFt		PCI: 36	 6			
-	Comments:								1						
48 L	& T CR			L	37	5.00	Ft								
48 L	& T CR			M		9.00									
52 R.	AVELING			M	457	5.00	SqFt								

Sample Number: 43	Type: R	Area:	6750.00 SqFt	PCI: 34
Sample Comments:				
48 L & T CR	M	1063.00 Ft		
52 RAVELING	M	5490.00 SqFt		



Network: S19 McCormick County Airport Name: RW 18 **RUNWAY 18-36** Use: RUNWAY 270,000 SqFt **Branch:** Name: Area: 20 of 2 Section: From: To: Last Const.: 6/1/1982 ACFamily: SC34_RW_AC Category: G Rank: T Surface: Zone: 27,000 SqFt Length: 360 Ft Width: 75 Ft Area: Ft Slab Width: Ft Slabs: Slab Length: Ft Joint Length: **Street Type:** Lanes: Shoulder: Grade: **Section Comments:** Work Date: 3/1/1982 Work Type: Surface Course - AC (Layer Construct) Code: SU-AC Is Major M&R: False Work Date: 3/1/1982 Work Type: Subbase - Aggregate Code: SB-AG Is Major M&R: False Work Date: 6/1/1982 Work Type: New Construction - Initial Code: NU-IN Is Major M&R: True Work Date: 1/1/2015 Work Type: Crack Sealing - AC Code: CS-AC Is Major M&R: False **Last Insp. Date:** 1/11/2023 **TotalSamples:** 5 Surveyed: 1 **Conditions:** PCI: **Inspection Comments: PCI:** 34

Sample Number: 03 Type: R 5625.00 SqFt Area:

Sample Comments:

L & T CR 48 M 846.00 Ft 52 RAVELING M 4575.00 SqFt



S19			Name:	McCormick Cou	inty Airport		
TW A		Name:	TAXIWAY A	Use:	TAXIWAY	Area:	7,746 SqFt
	of	f 1 I	rom: -		То: -		Last Const.: 6/1/1979
C	Family:	SC34_TWTL_	AC Zone:		Category: G		Rank: T
7,74	6 SqFt	Length:	140 Ft	Width:	55 Ft		
	Slab Len	gth:	Ft Sla	b Width:	Ft	Joint Length	: Ft
	Street Ty	pe:	Gra	ade: 0		Lanes: 0	
nents:							
5/1/1979	Wo	ork Type: Subb	ase - Aggregate	(Code: SB-AG	Is Major	M&R: False
5/1/1979	Wo	ork Type: New	Construction - Initial	(Code: NU-IN	Is Major	M&R: True
5/1/1979	W	ork Type: Surfa	ce Course - AC (Layer	Construct) (Code: SU-AC	Is Major	· M&R: False
1/1/2015	W	ork Type: Crack	Sealing - AC	(Code: CS-AC	Is Major	· M&R: False
te: 1/11/2023		TotalSa	amples: 2	Survey	ed: 1		
PCI: 22							
mments:							
oer: 01	Тур	e: R	Area:	3873.00 SqFt	PCI: 2	2	
nents:							
ATOR CR		M	6.00 SqFt				
	TW A 7,74 nents: 6/1/1979 6/1/1979 1/1/2015 te: 1/11/2023	TW A Of Family: 7,746 SqFt Slab Len Street Ty nents: 6/1/1979 W/6 6/1/1979 W/6 1/1/2015 W/6 Te: 1/11/2023 PCI: 22 omments: Der: 01 Typ	TW A Name: of 1 F Family: SC34_TWTL_ 7,746 SqFt Length: Slab Length: Street Type: nents: 6/1/1979 Work Type: Subb. 6/1/1979 Work Type: Surfa 1/1/2015 Work Type: Crack te: 1/11/2023 TotalSaments: per: 01 Type: R	TW A	TW A Name: TAXIWAY A Use: of 1 From: - Family: SC34_TWTL_AC Zone: 7,746 SqFt Length: 140 Ft Width: Slab Length: Ft Slab Width: Street Type: Grade: 0 nents: 6/1/1979 Work Type: Subbase - Aggregate G 6/1/1979 Work Type: New Construction - Initial G 6/1/1979 Work Type: Surface Course - AC (Layer Construct) G 1/1/2015 Work Type: Crack Sealing - AC G 1/1/2023 TotalSamples: 2 Survey: PCI: 22 omments: per: 01 Type: R Area: 3873.00 SqFt	TW A	TW A Name: TAXIWAY A Use: TAXIWAY Area: Of 1 From: -

3717.00 SqFt 3873.00 SqFt

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43

52

BLOCK CR

RAVELING

Network: S19			Na	me: Mcc	Cormick Co	ounty Airport			
Branch: TW TA	18	Name:	TURNARO	JND TAXIWA	Y 18 Use	TAXIW	AY	Area:	7,261 SqFt
Section: 10	of	1 Fr	om: -			To:	-		Last Const.: 6/1/197
Surface: AC	Family: S	SC34_TWTL_A	C Z 0	ne:		Cate	gory: G		Rank: T
Area:	7,261 SqFt	Length:	82	Ft	Width:		88 Ft		
Slabs:	Slab Lengt	h:	Ft	Slab Width:		Ft		Joint Length:	Ft
Shoulder:	Street Type	e:		Grade: 0				Lanes: 0	
Section Comments:									
Work Date: 6/1/1979	Wor	k Type: New C	onstruction - In	itial		Code: NU-	IN	Is Major I	M&R: True
Work Date: 6/1/1979	Wor	k Type: Surface	e Course - AC (Layer Construct)	Code: SU-	AC	Is Major I	M&R: False
Work Date: 6/1/1979	Wor	k Type: Subbas	se - Aggregate			Code: SB-	AG	Is Major I	M&R: False
Work Date: 1/1/2015	Wor	k Type: Crack	Sealing - AC			Code: CS-	AC	Is Major I	M&R: False
Last Insp. Date: 1/11	/2023	TotalSar	nples: 2		Surve	yed: 1			
Conditions: PCI:	19								
Inspection Comments:									
Sample Number: 02	Type:	R	Area:	336	4.00 SqFt		PCI: 19		
Sample Comments:									
41 ALLIGATOR C	R	L	15.00 SqFt						
43 BLOCK CR		M	3349.00 SqFt						
45 DEPRESSION		M	25.00 SqFt						
52 RAVELING		M	3364.00 SqFt						

Network: S19	9		Name:	McCormick Cou	inty Airport		
	V TA 36	Name:	TURNAROUND TA		TAXIWAY	Area:	7,097 SqFt
Section: 10	C	of 1 Fro	m: -		То: -		Last Const.: 6/1/1982
Surface: AC	Family:	SC34_TWTL_AC	Zone:		Category: G		Rank: T
Area:	7,097 SqFt	Length:	80 Ft	Width:	89 Ft		
Slabs:	Slab Le	ngth:	Ft Slab	Width:	Ft	Joint Length:	Ft
Shoulder:	Street T	ype:	Grad	e: 0		Lanes: 0	
Section Comment	ts:						
Work Date: 3/1/1	1982 W	ork Type: Subbase	- Aggregate	(Code: SB-AG	Is Major M	1&R: False
Work Date: 3/1/1	1982 W	ork Type: Surface	Course - AC (Layer Co	onstruct) (Code: SU-AC	Is Major M	1&R: False
Work Date: 6/1/1	1982 W	ork Type: New Co	nstruction - Initial	(Code: NU-IN	Is Major M	1&R: True
Work Date: 1/1/2	2015 W	ork Type: Crack So	ealing - AC	(Code: CS-AC	Is Major M	1&R: False
Last Insp. Date:	1/11/2023	TotalSam	ples: 2	Survey	ed: 1		
Conditions: PC	CI: 22						
Inspection Comm	nents:						
Sample Number:	01 Ty	pe: R	Area:	3813.00 SqFt	PCI: 22	2	
Sample Comment	ts:						

ALLIGATOR CR

BLOCK CR

RAVELING

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M

41.00 SqFt

3772.00 SqFt 3813.00 SqFt



Kimley»Horn