



SOUTH CAROLINA AERONAUTICS COMMISSION

STATEWIDE AIRFIELD PAVEMENT MANAGEMENT SYSTEM UPDATE

 BBP - Marlboro County Jetport - H.E. Avent Field



Kimley»»Horn

2023



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Overview

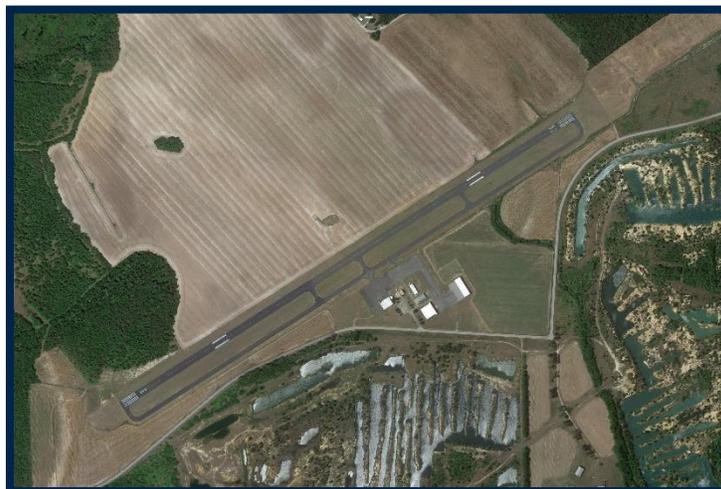
Introduction

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 D5340-20 – “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 performed 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 Marlboro County Jetport - H.E. Avent Field (BBP).

Figure 1 – Airport Layout



System Inventory

The pavements at Marlboro County Jetport - H.E. Avent Field (BBP) include approximately 0.8 million square feet of airfield pavements consisting of runways, taxiways, taxilanes, 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.

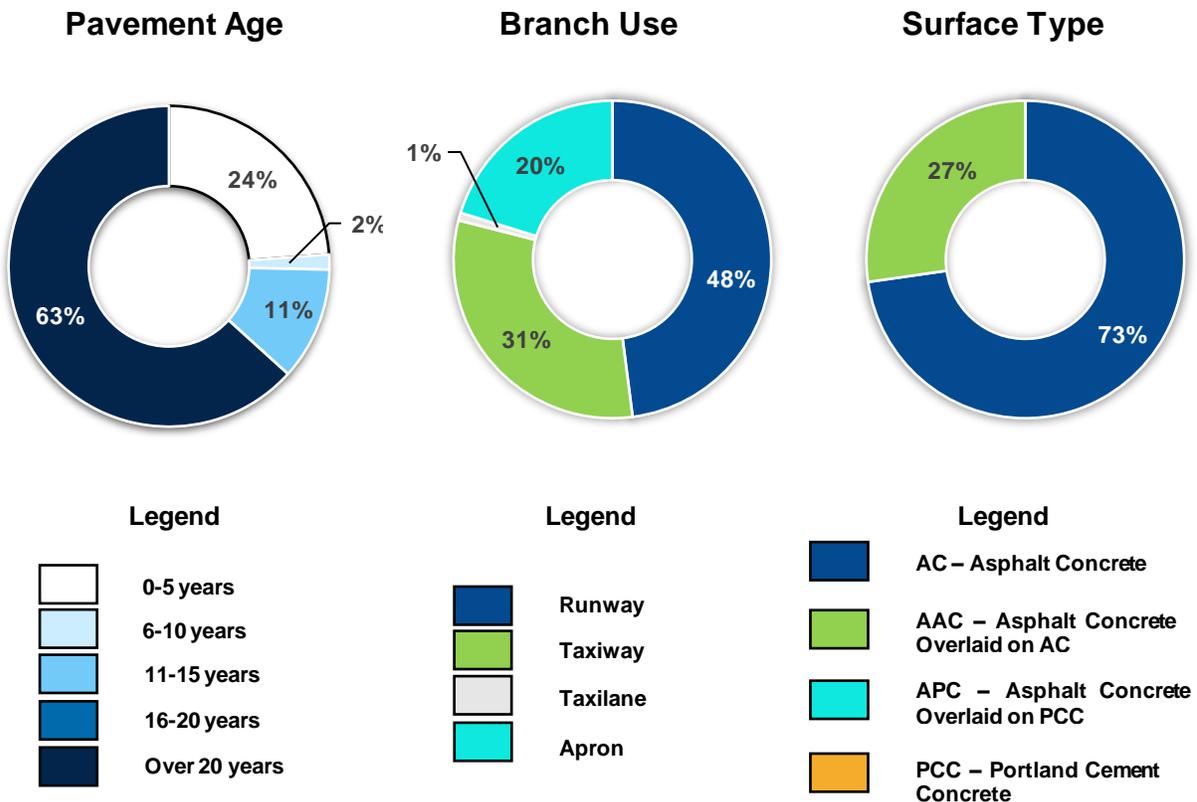
Each pavement update included a review of documentation of any maintenance and major rehabilitation related activities performed on the airfield pavements. The following table summarizes the projects that have occurred since the previous inspection.

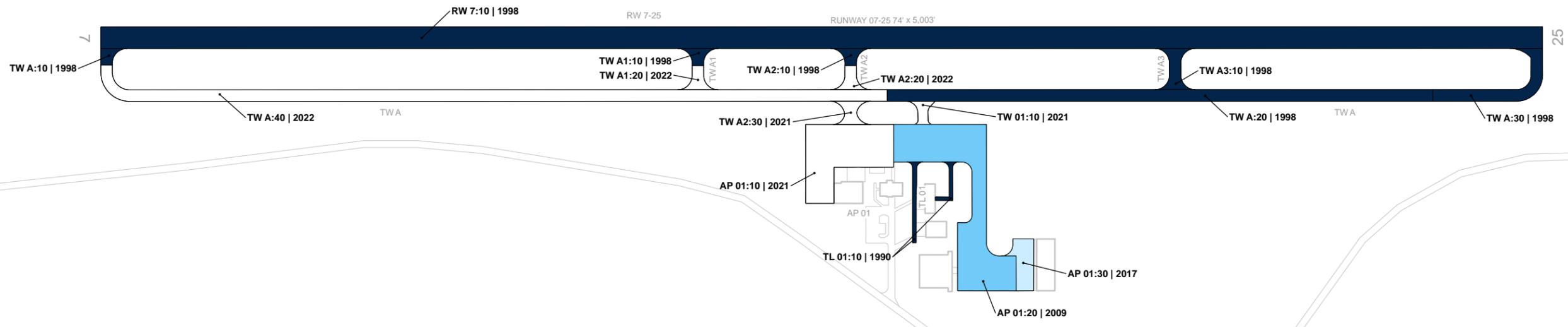
Table 1 - Recent Airfield Pavement Construction

Construction Year	Location	Work Type / Pavement Section
2021	AP 01, TW A2	Complete Reconstruction - AC 8" P-207, 4" P-401
2021	TW 01	New Construction - AC
2022	TW A, TW A1, TW A2	Mill and Overlay 2" Mill, 2" P-401

The following figure summarizes the inventory items at Marlboro County Jetport - H.E. Avent Field (BBP). 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

Estimated Age at Inspection

- 0-5 Years
- 6-10 Years
- 11-15 Years
- 16-20 Years
- > 20 Years

— BRANCH IDENTIFIER
 — SECTION IDENTIFIER

TWA:20 | 1985

— LAST MAJOR WORK DATE



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



Poor/Failed Pavement

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



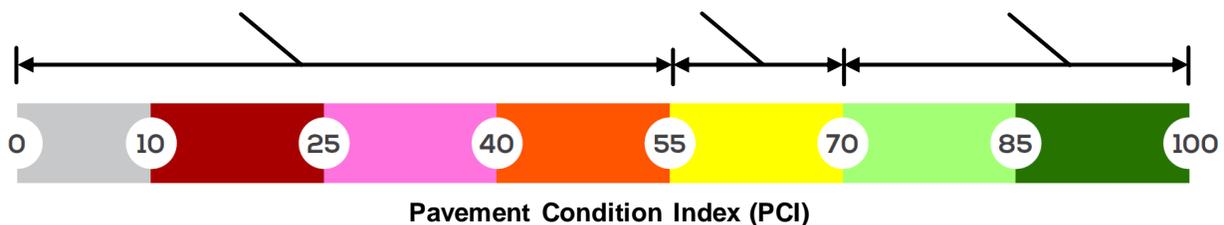
Fair Pavement

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



Good/New Pavement

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

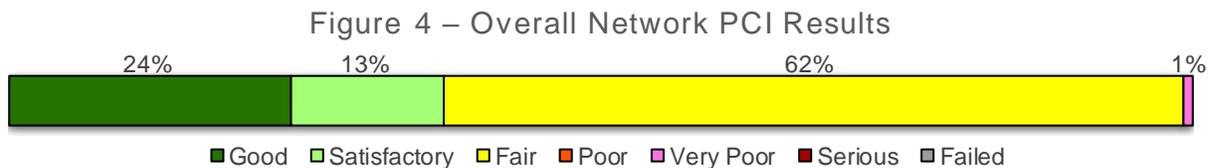


Critical PCI

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.**

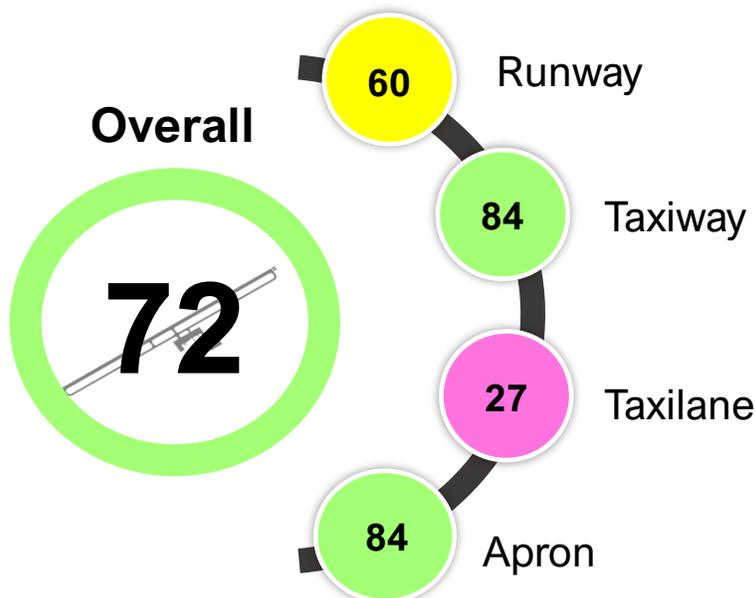
PCI Results

The PCI survey for Marlboro County Jetport - H.E. Avent Field (BBP) was performed in January 2023. **The overall area-weighted average PCI value of the network was 72,** representing a condition rating of **Satisfactory**. Approximately 37% of inspected pavements are in Good or Satisfactory condition, 62% of inspected pavements are in Fair condition, and the remaining 1% are in Poor or worse condition as summarized in **Figure 4.**



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





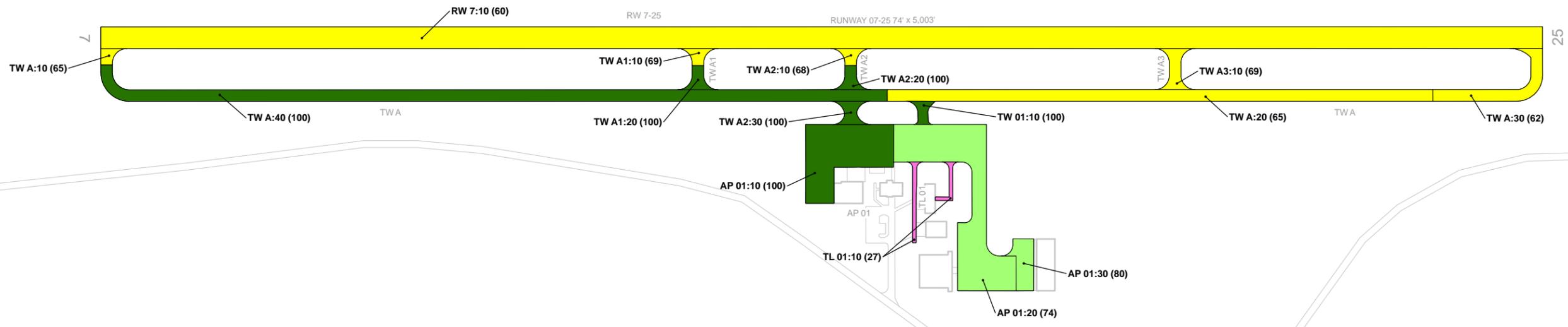
STATEWIDE AIRFIELD PAVEMENT MANAGEMENT SYSTEM UPDATE

BBP - Marlboro County Jetport - H.E. Avent Field

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
BBP	AP 01	Apron	10	57,390	AC	100	Good	0	0	0
BBP	AP 01	Apron	20	89,052	AC	74	Satisfactory	100	0	0
BBP	AP 01	Apron	30	11,911	AC	80	Satisfactory	100	0	0
BBP	RW 7	Runway	10	375,226	AC	60	Fair	100	0	0
BBP	TL 01	Taxilane	10	6,126	AC	27	Very Poor	64	36	0
BBP	TW 01	Taxiway	10	3,596	AC	100	Good	0	0	0
BBP	TW A	Taxiway	10	2,777	AAC	65	Fair	100	0	0
BBP	TW A	Taxiway	20	75,720	AAC	65	Fair	100	0	0
BBP	TW A	Taxiway	30	20,470	AC	62	Fair	100	0	0
BBP	TW A	Taxiway	40	111,246	AAC	100	Good	0	0	0
BBP	TW A1	Taxiway	10	3,413	AAC	69	Fair	100	0	0
BBP	TW A1	Taxiway	20	4,433	AAC	100	Good	0	0	0
BBP	TW A2	Taxiway	10	3,413	AAC	68	Fair	100	0	0
BBP	TW A2	Taxiway	20	4,433	AAC	100	Good	0	0	0
BBP	TW A2	Taxiway	30	5,154	AC	100	Good	0	0	0
BBP	TW A3	Taxiway	10	7,846	AAC	69	Fair	100	0	0

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



Legend

2023 Pavement Condition Index

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

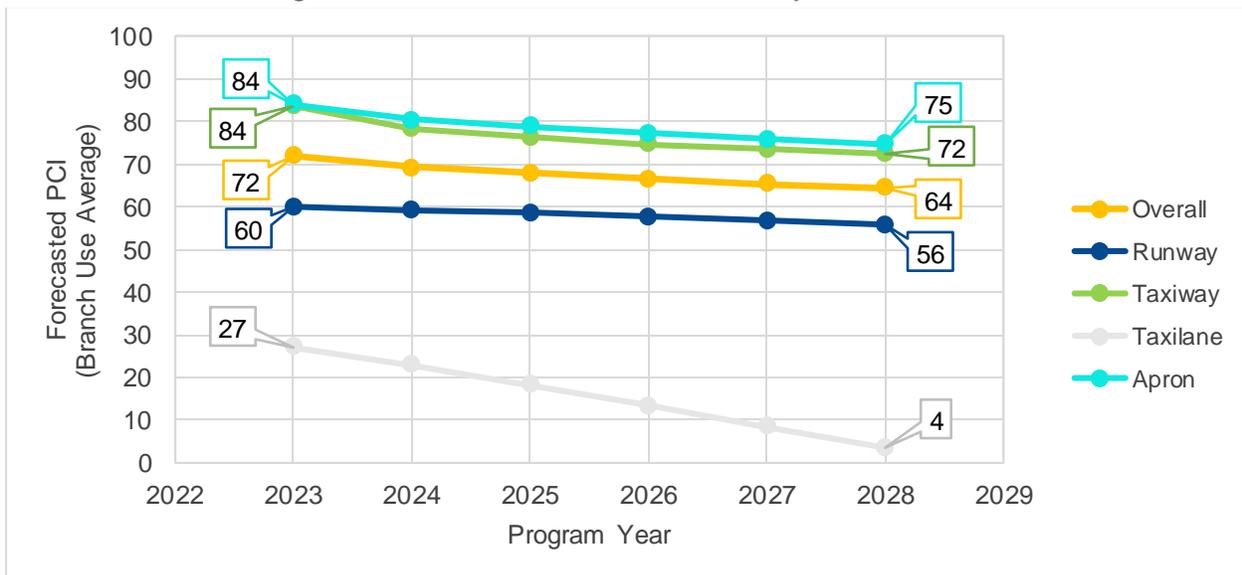
— BRANCH IDENTIFIER
 — SECTION IDENTIFIER
TWA:20 (84)
 — PCI



Pavement Condition Forecast

A primary objective of this APMS is to estimate the future condition of each individual pavement section. PAVER™ 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 **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 BBP.

Figure 6 – Forecasted 5-Year PCI by Branch Use



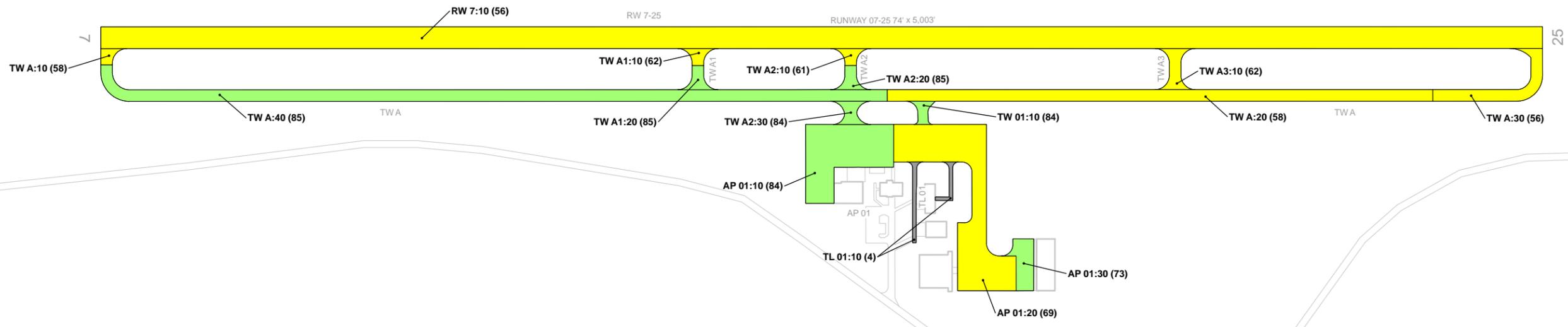
All condition forecasts are based on historical observations and analysis of South Carolina airfield pavements. The forecasts are not a guarantee of future PCI: - rather, they are a planning tool to aid in the timing of maintenance and rehabilitation activities.



BBP - Marlboro County Jetport - H.E. Avent Field

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

Network ID	Branch ID	Section ID	Current PCI	Forecasted PCI				
				2024	2025	2026	2027	2028
BBP	AP 01	10	100	92	90	88	86	84
BBP	AP 01	20	74	73	72	71	70	69
BBP	AP 01	30	80	79	77	76	74	73
BBP	RW 7	10	60	59	58	58	57	56
BBP	TL 01	10	27	23	18	13	8	4
BBP	TW 01	10	100	89	87	86	85	84
BBP	TW A	10	65	64	62	61	60	58
BBP	TW A	20	65	64	62	61	60	58
BBP	TW A	30	62	61	60	58	57	56
BBP	TW A	40	100	91	89	87	86	85
BBP	TW A1	10	69	67	66	64	63	62
BBP	TW A1	20	100	91	89	87	86	85
BBP	TW A2	10	68	67	65	63	62	61
BBP	TW A2	20	100	91	89	87	86	85
BBP	TW A2	30	100	89	87	86	85	84
BBP	TW A3	10	69	67	66	64	63	62



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
- PCI 11-25 Serious
- PCI 0-10 Failed

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



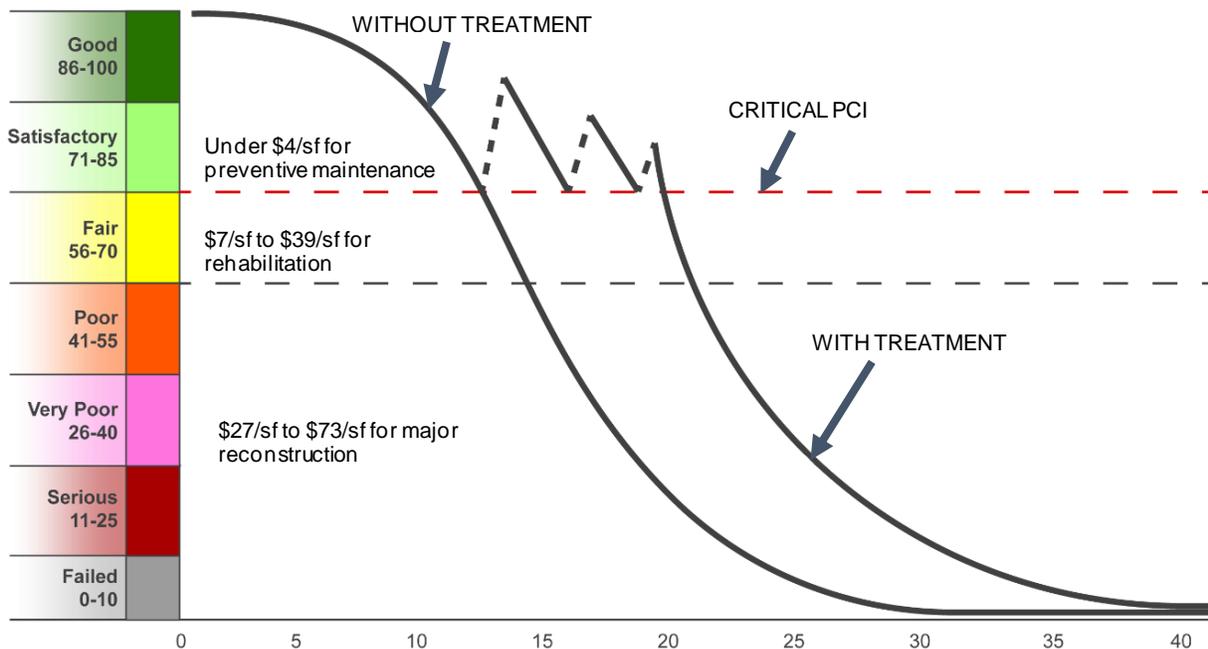
M&R Overview

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



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	Planning Material Cost
Localized Preventive Maintenance	AC Crack Sealing Narrow	7,926	LF	\$ 27,750
	Surface Seal	2,980	SF	\$ 4,920
<i>Localized Preventive Maintenance Total =</i>				\$ 32,670
Localized Stopgap Maintenance	AC Crack Sealing Narrow	23,742	LF	\$ 83,140
	Surface Seal	29,275	SF	\$ 48,340
	AC Full-Depth Patching	229	SF	\$ 4,070
<i>Localized Stopgap Maintenance Total =</i>				\$ 135,550
<i>Planning-Level Localized M&R Needs =</i>				\$ 168,220

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 BBP results in a total 5-year cost of \$5.02. 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**.



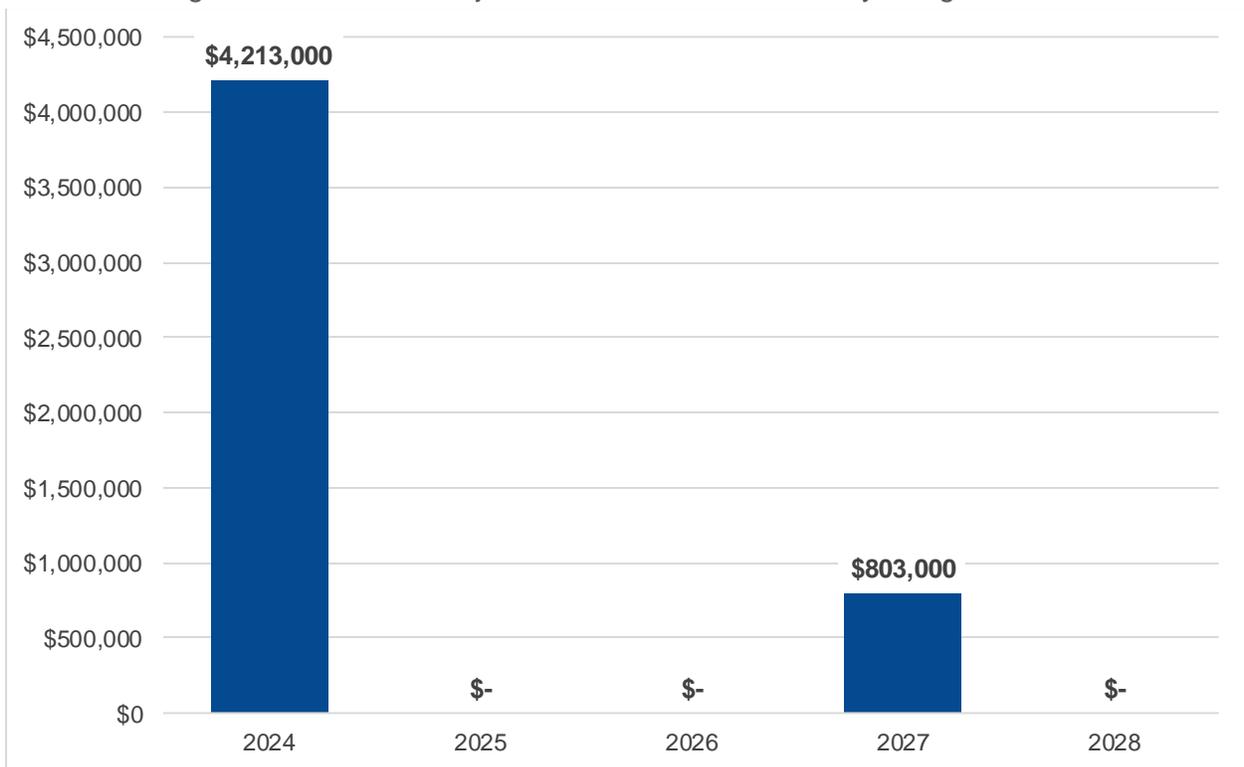
STATEWIDE AIRFIELD PAVEMENT MANAGEMENT SYSTEM UPDATE

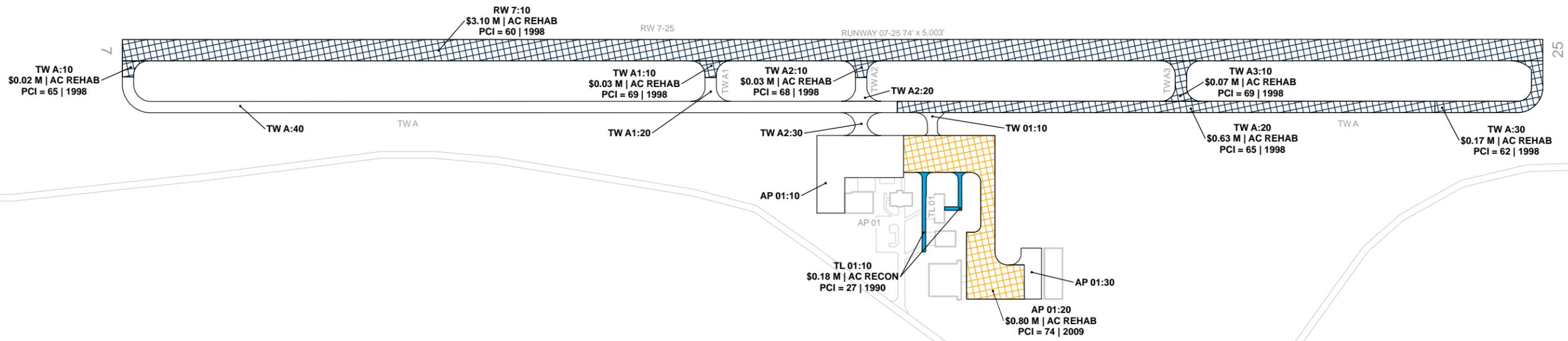
BBP - Marlboro County Jetport - H.E. Avent Field

Table 5 – 5-Year Major Rehabilitation Needs

Program Year	Network ID	Branch ID	Section ID	Surface	Area (SF)	PCI Before	Rehabilitation Type	Planning Cost Estimate
2024	BBP	RW 7	10	AC	375,226	59	AC Rehabilitation	\$ 3,096,000
2024	BBP	TL 01	10	AC	6,126	23	AC Reconstruction	\$ 177,000
2024	BBP	TW A	10	AAC	2,777	64	AC Rehabilitation	\$ 23,000
2024	BBP	TW A	20	AAC	75,720	64	AC Rehabilitation	\$ 625,000
2024	BBP	TW A	30	AC	20,470	61	AC Rehabilitation	\$ 169,000
2024	BBP	TW A1	10	AAC	3,413	67	AC Rehabilitation	\$ 29,000
2024	BBP	TW A2	10	AAC	3,413	67	AC Rehabilitation	\$ 29,000
2024	BBP	TW A3	10	AAC	7,846	67	AC Rehabilitation	\$ 65,000
2027	BBP	AP 01	20	AC	89,052	70	AC Rehabilitation	\$ 803,000
Total 5-Year Major Rehabilitation Needs =								\$ 5,016,000

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

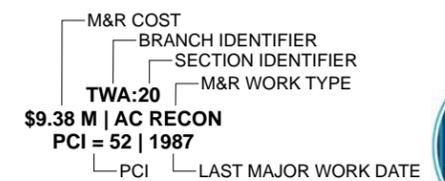




Legend

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



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



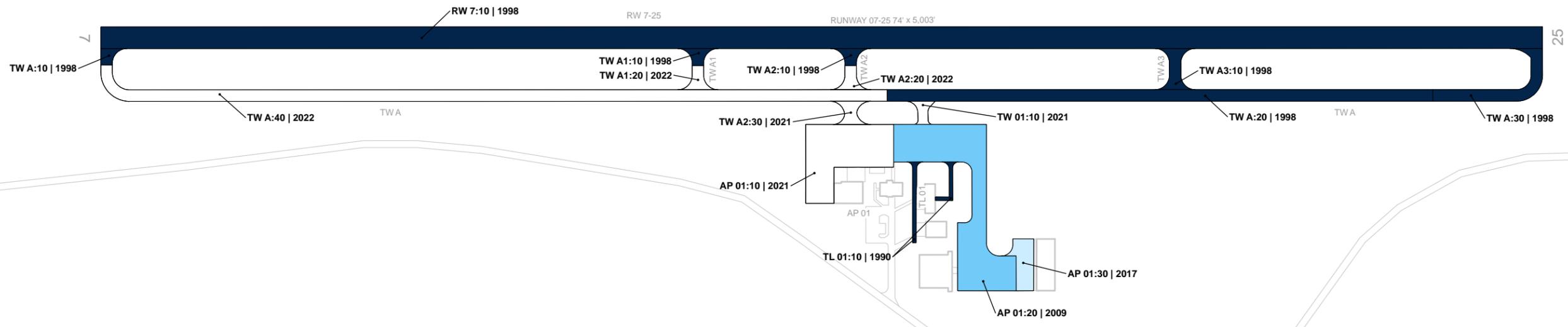
SECTION I

Appendices





Appendix A – Exhibits



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Estimated Age at Inspection

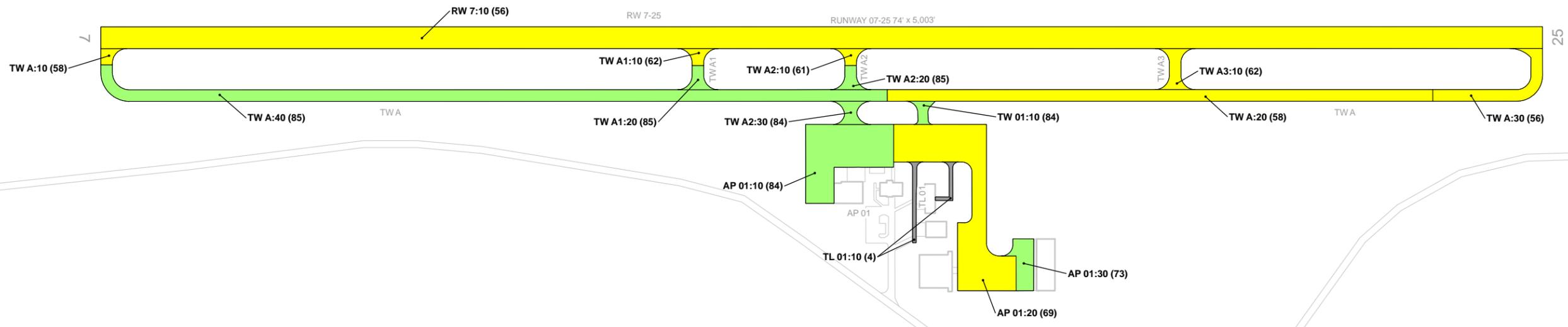
- 0-5 Years
- 6-10 Years
- 11-15 Years
- 16-20 Years
- > 20 Years

BRANCH IDENTIFIER
SECTION IDENTIFIER
TWA:20 | 1985
LAST MAJOR WORK DATE



STATEWIDE AIRFIELD PAVEMENT MANAGEMENT SYSTEM UPDATE

MARLBORO COUNTY JETPORT - H.E. AVENT FIELD (BBP)
AIRFIELD PAVEMENT ESTIMATED AGE EXHIBIT



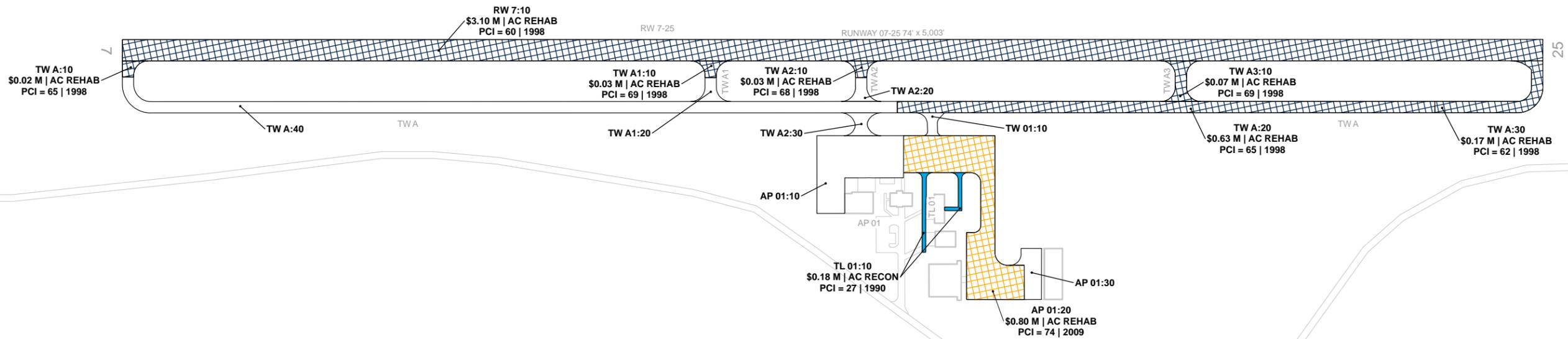
Legend

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
- PCI 11-25 Serious
- PCI 0-10 Failed

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

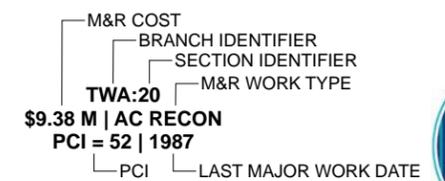




Legend

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



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





Appendix B – Analysis Tables



STATEWIDE AIRFIELD PAVEMENT MANAGEMENT SYSTEM UPDATE

BBP - Marlboro County Jetport - H.E. Avent Field

Table B1 – System Inventory Data - Section

Network ID	Branch ID	Branch Use	Section ID	Area (SF)	Surface Type	Estimate of Last Construction Date
BBP	AP 01	Apron	10	57,390	AC	1/1/2021
BBP	AP 01	Apron	20	89,052	AC	7/1/2009
BBP	AP 01	Apron	30	11,911	AC	7/1/2017
BBP	RW 7	Runway	10	375,226	AC	1/1/1998
BBP	TL 01	Taxilane	10	6,126	AC	6/1/1990
BBP	TW 01	Taxiway	10	3,596	AC	1/1/2021
BBP	TW A	Taxiway	10	2,777	AAC	6/1/1998
BBP	TW A	Taxiway	20	75,720	AAC	6/1/1998
BBP	TW A	Taxiway	30	20,470	AC	6/1/1998
BBP	TW A	Taxiway	40	111,246	AAC	1/3/2022
BBP	TW A1	Taxiway	10	3,413	AAC	6/1/1998
BBP	TW A1	Taxiway	20	4,433	AAC	1/3/2022
BBP	TW A2	Taxiway	10	3,413	AAC	6/1/1998
BBP	TW A2	Taxiway	20	4,433	AAC	1/3/2022
BBP	TW A2	Taxiway	30	5,154	AC	1/1/2021
BBP	TW A3	Taxiway	10	7,846	AAC	6/1/1998

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	3	158,353	84	Satisfactory
RW 7	Runway	1	375,226	60	Fair
TL 01	Taxilane	1	6,126	27	Very Poor
TW 01	Taxiway	1	3,596	100	Good
TW A	Taxiway	4	210,213	83	Satisfactory
TW A1	Taxiway	2	7,846	87	Good
TW A2	Taxiway	3	13,000	92	Good
TW A3	Taxiway	1	7,846	69	Fair



STATEWIDE AIRFIELD PAVEMENT MANAGEMENT SYSTEM UPDATE

BBP - Marlboro County Jetport - H.E. Avent Field

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
BBP	AP 01	Apron	10	57,390	AC	100	Good	0	0	0	0	0
BBP	AP 01	Apron	20	89,052	AC	74	Satisfactory	100	0	0	4	18
BBP	AP 01	Apron	30	11,911	AC	80	Satisfactory	100	0	0	1	3
BBP	RW 7	Runway	10	375,226	AC	60	Fair	100	0	0	14	67
BBP	TL01	Taxilane	10	6,126	AC	27	Very Poor	64	36	0	2	2
BBP	TW 01	Taxiway	10	3,596	AC	100	Good	0	0	0	0	0
BBP	TW A	Taxiway	10	2,777	AAC	65	Fair	100	0	0	1	1
BBP	TW A	Taxiway	20	75,720	AAC	65	Fair	100	0	0	5	19
BBP	TW A	Taxiway	30	20,470	AC	62	Fair	100	0	0	1	5
BBP	TW A	Taxiway	40	111,246	AAC	100	Good	0	0	0	0	0
BBP	TW A1	Taxiway	10	3,413	AAC	69	Fair	100	0	0	1	1
BBP	TW A1	Taxiway	20	4,433	AAC	100	Good	0	0	0	0	0
BBP	TW A2	Taxiway	10	3,413	AAC	68	Fair	100	0	0	1	1
BBP	TW A2	Taxiway	20	4,433	AAC	100	Good	0	0	0	0	0
BBP	TW A2	Taxiway	30	5,154	AC	100	Good	0	0	0	0	0
BBP	TW A3	Taxiway	10	7,846	AAC	69	Fair	100	0	0	1	2



STATEWIDE AIRFIELD PAVEMENT MANAGEMENT SYSTEM UPDATE

BBP - Marlboro County Jetport - H.E. Avent Field

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

Network ID	Branch ID	Section ID	Current PCI	Forecasted PCI				
				2024	2025	2026	2027	2028
BBP	AP 01	10	100	92	90	88	86	84
BBP	AP 01	20	74	73	72	71	70	69
BBP	AP 01	30	80	79	77	76	74	73
BBP	RW 7	10	60	59	58	58	57	56
BBP	TL 01	10	27	23	18	13	8	4
BBP	TW 01	10	100	89	87	86	85	84
BBP	TW A	10	65	64	62	61	60	58
BBP	TW A	20	65	64	62	61	60	58
BBP	TW A	30	62	61	60	58	57	56
BBP	TW A	40	100	91	89	87	86	85
BBP	TW A1	10	69	67	66	64	63	62
BBP	TW A1	20	100	91	89	87	86	85
BBP	TW A2	10	68	67	65	63	62	61
BBP	TW A2	20	100	91	89	87	86	85
BBP	TW A2	30	100	89	87	86	85	84
BBP	TW A3	10	69	67	66	64	63	62



Appendix C – Maintenance and Rehabilitation Tables



STATEWIDE AIRFIELD PAVEMENT MANAGEMENT SYSTEM UPDATE

BBP - Marlboro County Jetport - H.E. Avent Field

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	AC Crack Sealing Narrow	7,926	LF	\$ 27,750
	Surface Seal	2,980	SF	\$ 4,920
Localized Preventive Maintenance Total =				\$ 32,670
Localized Stopgap Maintenance	AC Crack Sealing Narrow	23,742	LF	\$ 83,140
	Surface Seal	29,275	SF	\$ 48,340
	AC Full-Depth Patching	229	SF	\$ 4,070
Localized Stopgap Maintenance Total =				\$ 135,550
Planning-Level Localized M&R Needs =				\$ 168,220

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

Network ID	Branch ID	Section ID	Area (SF)	Start PCI	End PCI	Cost
BBP	AP 01	10	57,390	100	100	\$ -
BBP	AP 01	20	89,052	74	74	\$ 27,400
BBP	AP 01	30	11,911	80	90	\$ 5,260
BBP	RW 7	10	375,226	60	74	\$ 107,410
BBP	TL01	10	6,126	27	66	\$ 12,370
BBP	TW 01	10	3,596	100	100	\$ -
BBP	TW A	10	2,777	65	73	\$ 580
BBP	TW A	20	75,720	65	72	\$ 7,600
BBP	TW A	30	20,470	62	76	\$ 4,940
BBP	TW A	40	111,246	100	100	\$ -
BBP	TW A1	10	3,413	69	76	\$ 740
BBP	TW A1	20	4,433	100	100	\$ -
BBP	TW A2	10	3,413	68	75	\$ 780
BBP	TW A2	20	4,433	100	100	\$ -
BBP	TW A2	30	5,154	100	100	\$ -
BBP	TW A3	10	7,846	69	75	\$ 1,080



STATEWIDE AIRFIELD PAVEMENT MANAGEMENT SYSTEM UPDATE

BBP - Marlboro County Jetport - H.E. Avent Field

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
BBP	AP 01	20	L & T CR	Low	7,828	LF	8.8%	Preventive	AC Crack Sealing Narrow	7,828	LF	\$ 3.50	\$ 27,400
BBP	AP 01	30	L & T CR	Low	98	LF	0.8%	Preventive	AC Crack Sealing Narrow	98	LF	\$ 3.50	\$ 350
BBP	AP 01	30	WEATHERING	Medium	2,980	SF	25.0%	Preventive	Surface Seal	2,980	SF	\$ 1.65	\$ 4,920
BBP	RW 7	10	L & T CR	Medium	21,851	LF	5.8%	Stopgap	AC Crack Sealing Narrow	21,851	LF	\$ 3.50	\$ 76,480
BBP	RW 7	10	WEATHERING	Medium	18,745	SF	5.0%	Stopgap	Surface Seal	18,744	SF	\$ 1.65	\$ 30,930
BBP	TL 01	10	ALLIGATOR CR	Medium	149	SF	2.4%	Stopgap	AC Full-Depth Patching	202	SF	\$ 17.75	\$ 3,590
BBP	TL 01	10	ALLIGATOR CR	High	10	SF	0.2%	Stopgap	AC Full-Depth Patching	27	SF	\$ 17.75	\$ 480
BBP	TL 01	10	L & T CR	Medium	310	LF	5.1%	Stopgap	AC Crack Sealing Narrow	310	LF	\$ 3.50	\$ 1,090
BBP	TL 01	10	RAVELING	Medium	4,372	SF	71.4%	Stopgap	Surface Seal	4,372	SF	\$ 1.65	\$ 7,220
BBP	TW A	10	L & T CR	Medium	32	LF	1.2%	Stopgap	AC Crack Sealing Narrow	32	LF	\$ 3.50	\$ 120
BBP	TW A	10	WEATHERING	Medium	278	SF	10.0%	Stopgap	Surface Seal	278	SF	\$ 1.65	\$ 460
BBP	TW A	20	L & T CR	Medium	386	LF	0.5%	Stopgap	AC Crack Sealing Narrow	386	LF	\$ 3.50	\$ 1,360
BBP	TW A	20	WEATHERING	Medium	3,786	SF	5.0%	Stopgap	Surface Seal	3,786	SF	\$ 1.65	\$ 6,250
BBP	TW A	30	L & T CR	Medium	926	LF	4.5%	Stopgap	AC Crack Sealing Narrow	926	LF	\$ 3.50	\$ 3,250
BBP	TW A	30	WEATHERING	Medium	1,024	SF	5.0%	Stopgap	Surface Seal	1,024	SF	\$ 1.65	\$ 1,690
BBP	TW A1	10	L & T CR	Medium	49	LF	1.4%	Stopgap	AC Crack Sealing Narrow	49	LF	\$ 3.50	\$ 180
BBP	TW A1	10	WEATHERING	Medium	341	SF	10.0%	Stopgap	Surface Seal	341	SF	\$ 1.65	\$ 570
BBP	TW A2	10	L & T CR	Medium	62	LF	1.8%	Stopgap	AC Crack Sealing Narrow	62	LF	\$ 3.50	\$ 220
BBP	TW A2	10	WEATHERING	Medium	341	SF	10.0%	Stopgap	Surface Seal	341	SF	\$ 1.65	\$ 570
BBP	TW A3	10	L & T CR	Medium	125	LF	1.6%	Stopgap	AC Crack Sealing Narrow	125	LF	\$ 3.50	\$ 440
BBP	TW A3	10	WEATHERING	Medium	389	SF	5.0%	Stopgap	Surface Seal	389	SF	\$ 1.65	\$ 650



BBP - Marlboro County Jetport - H.E. Avent Field

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	BBP	RW 7	10	AC	375,226	59	AC Rehabilitation	\$ 3,096,000
2024	BBP	TL 01	10	AC	6,126	23	AC Reconstruction	\$ 177,000
2024	BBP	TW A	10	AAC	2,777	64	AC Rehabilitation	\$ 23,000
2024	BBP	TW A	20	AAC	75,720	64	AC Rehabilitation	\$ 625,000
2024	BBP	TW A	30	AC	20,470	61	AC Rehabilitation	\$ 169,000
2024	BBP	TW A1	10	AAC	3,413	67	AC Rehabilitation	\$ 29,000
2024	BBP	TW A2	10	AAC	3,413	67	AC Rehabilitation	\$ 29,000
2024	BBP	TW A3	10	AAC	7,846	67	AC Rehabilitation	\$ 65,000
2027	BBP	AP 01	20	AC	89,052	70	AC Rehabilitation	\$ 803,000
Total 5-Year Major Rehabilitation Needs =								\$ 5,016,000



Appendix D – PCI Results Summary

RW 7

Branch ID	Branch Use	Number of Sections	Branch Area (SF)	Branch Area-Weighted Avg PCI	Branch Condition Rating
RW 7	RUNWAY	1	375,226	60	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	375,226	AAC	1998	2010	60	Fair	100	0	0



RW 7-10



RW 7-10

TW 01

Branch ID	Branch Use	Number of Sections	Branch Area (SF)	Branch Area-Weighted Avg PCI	Branch Condition Rating
TW 01	TAXIWAY	1	3,596	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	3,596	AC	2021	-	100	Good	0	0	0

TWA

Branch ID	Branch Use	Number of Sections	Branch Area (SF)	Branch Area-Weighted Avg PCI	Branch Condition Rating
TW A	TAXIWAY	4	210,213	83	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	2,777	AAC	1998	-	65	Fair	100	0	0
20	75,720	AAC	1998	2010	65	Fair	100	0	0
30	20,470	AC	1998	2010	62	Fair	100	0	0
40	111,246	AAC	2022	-	100	Good	0	0	0



TW A-10



TW A-20



TW A-30

TW A1

Branch ID	Branch Use	Number of Sections	Branch Area (SF)	Branch Area-Weighted Avg PCI	Branch Condition Rating
TW A1	TAXIWAY	2	7,846	87	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	3,413	AAC	1998	2010	69	Fair	100	0	0
20	4,433	AAC	2022	-	100	Good	0	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	3	13,000	92	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	3,413	AAC	1998	2010	68	Fair	100	0	0
20	4,433	AAC	2022	-	100	Good	0	0	0
30	5,154	AC	2021	-	100	Good	0	0	0



TW A2-10

TW A3

Branch ID	Branch Use	Number of Sections	Branch Area (SF)	Branch Area-Weighted Avg PCI	Branch Condition Rating
TW A3	TAXIWAY	1	7,846	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	7,846	AAC	1998	2010	69	Fair	100	0	0



TW A3-10

TL 01

Branch ID	Branch Use	Number of Sections	Branch Area (SF)	Branch Area-Weighted Avg PCI	Branch Condition Rating
TL 01	TAXILANE	1	6,126	27	Very Poor

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	6,126	AC	1990	-	27	Very Poor	64	36	0



TL 01-10

AP 01

Branch ID	Branch Use	Number of Sections	Branch Area (SF)	Branch Area-Weighted Avg PCI	Branch Condition Rating
AP 01	APRON	3	158,353	84	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	57,390	AC	2021	-	100	Good	0	0	0
20	89,052	AC	2009	-	74	Satisfactory	100	0	0
30	11,911	AC	2017	-	80	Satisfactory	100	0	0



AP 01-20



AP 01-30



Appendix E – Re-Inspection Report

Re-Inspection Report

SCAC_2023

Generated Date

5/31/2023

Page 1 of 16

Network: BBP	Name: Marlboro County Jetport - H E Avent Field	
Branch: AP 01	Name: APRON 01	Use: APRON Area: 158,353 SqFt
Section: 10 of 3	From: -	To: - Last Const.: 1/1/2021
Surface: AC	Family: SC34_AP_AC	Zone: Category: G Rank: P
Area: 57,390 SqFt	Length: 305 Ft	Width: 273 Ft
Slabs:	Slab Length: Ft	Slab Width: Ft Joint Length: Ft
Shoulder:	Street Type:	Grade: 0 Lanes: 0

Section Comments:

Work Date: 6/1/1970	Work Type: New Construction - AC	Code: NC-AC	Is Major M&R: True
Work Date: 6/1/1970	Work Type: Surface Course - AC (Layer Construct)	Code: SU-AC	Is Major M&R: False
Work Date: 6/1/1995	Work Type: Surface Seal - Rejuvenating	Code: SS-RE	Is Major M&R: False
Work Date: 6/1/2004	Work Type: Surface Treatment - Seal Coat	Code: ST-SCT	Is Major M&R: False
Work Date: 1/1/2021	Work Type: Complete Reconstruction - AC	Code: CR-AC	Is Major M&R: True
Work Date: 1/2/2021	Work Type: Base Course - Bituminous	Code: BA-BI	Is Major M&R: False
Work Date: 1/3/2021	Work Type: Surface Course - AC (Layer Construct)	Code: SU-AC	Is Major M&R: False

Last Insp. Date: 4/27/2016 **Total Samples:** 11 **Surveyed:** 4

Conditions: PCI: 63 **NOTE: *** Pre-Construction PCI *****

Inspection Comments:

Sample Number: 02	Type: R	Area: 5000.00 SqFt	PCI: 59
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Sample Comments:

48	LONGITUDINAL/TRANSVERSE CRACKING	L	878.00 Ft
50	PATCHING	L	54.00 SqFt
52	RAVELING	L	4946.00 SqFt

Sample Number: 04	Type: R	Area: 5000.00 SqFt	PCI: 62
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Sample Comments:

45	DEPRESSION	L	9.00 SqFt
48	LONGITUDINAL/TRANSVERSE CRACKING	L	788.00 Ft
52	RAVELING	L	5000.00 SqFt

Sample Number: 06	Type: R	Area: 5000.00 SqFt	PCI: 60
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Sample Comments:

48	LONGITUDINAL/TRANSVERSE CRACKING	L	1084.00 Ft
52	RAVELING	L	5000.00 SqFt

Sample Number: 08	Type: R	Area: 5000.00 SqFt	PCI: 69
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Sample Comments:

48	LONGITUDINAL/TRANSVERSE CRACKING	L	391.00 Ft
52	RAVELING	L	5000.00 SqFt

Network: BBP **Name:** Marlboro County Jetport - H E Avent Field

Branch: AP 01 **Name:** APRON 01 **Use:** APRON **Area:** 158,353 SqFt

Section: 20 of 3 **From:** - **To:** - **Last Const.:** 7/1/2009

Surface: AC **Family:** SC34_AP_AC **Zone:** **Category:** **Rank:** P

Area: 89,052 SqFt **Length:** 575 Ft **Width:** 322 Ft

Slabs: **Slab Length:** Ft **Slab Width:** Ft **Joint Length:** Ft

Shoulder: **Street Type:** **Grade:** 0 **Lanes:** 0

Section Comments:

Work Date: 7/1/2009 **Work Type:** New Construction - AC **Code:** NC-AC **Is Major M&R:** True

Last Insp. Date: 1/30/2023 **TotalSamples:** 18 **Surveyed:** 4

Conditions: PCI: 74

Inspection Comments:

Sample Number: 05 **Type:** R **Area:** 5000.00 SqFt **PCI:** 72

Sample Comments:

48 L & T CR L 486.00 Ft

57 WEATHERING L 5000.00 SqFt

Sample Number: 06 **Type:** R **Area:** 6100.00 SqFt **PCI:** 74

Sample Comments:

48 L & T CR L 510.00 Ft

57 WEATHERING L 6100.00 SqFt

Sample Number: 10 **Type:** R **Area:** 5024.00 SqFt **PCI:** 78

Sample Comments:

48 L & T CR L 296.00 Ft

57 WEATHERING L 5024.00 SqFt

Sample Number: 17 **Type:** R **Area:** 5150.00 SqFt **PCI:** 70

Sample Comments:

48 L & T CR L 578.00 Ft

57 WEATHERING L 5150.00 SqFt



Network: BBP **Name:** Marlboro County Jetport - H E Avent Field

Branch: AP 01 **Name:** APRON 01 **Use:** APRON **Area:** 158,353 SqFt

Section: 30 of 3 **From:** - **To:** - **Last Const.:** 7/1/2017

Surface: AC **Family:** SC34_AP_AC **Zone:** **Category:** **Rank:** S

Area: 11,911 SqFt **Length:** 179 Ft **Width:** 72 Ft

Slabs: **Slab Length:** Ft **Slab Width:** Ft **Joint Length:** Ft

Shoulder: **Street Type:** **Grade:** 0 **Lanes:** 0

Section Comments:

Work Date: 7/1/2017 **Work Type:** New Construction - AC **Code:** NC-AC **Is Major M&R:** True

Work Date: 7/2/2017 **Work Type:** Base Course - Aggregate **Code:** BA-AG **Is Major M&R:** False

Work Date: 7/3/2017 **Work Type:** Surface Course - AC (Layer Construct) **Code:** SU-AC **Is Major M&R:** False

Last Insp. Date: 1/30/2023 **TotalSamples:** 3 **Surveyed:** 1

Conditions: PCI: 80

Inspection Comments:

Sample Number: 02 **Type:** R **Area:** 3050.00 SqFt **PCI:** 80

Sample Comments:

48 L & T CR L 25.00 Ft
57 WEATHERING L 2287.00 SqFt
57 WEATHERING M 763.00 SqFt



Network: BBP **Name:** Marlboro County Jetport - H E Avent Field

Branch: RW 7 **Name:** RUNWAY 7-25 **Use:** RUNWAY **Area:** 375,226 SqFt

Section: 10 of 1 **From:** - **To:** - **Last Const.:** 6/1/1998

Surface: AAC **Family:** SC34_RW_AC **Zone:** **Category:** G **Rank:** P

Area: 375,226 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: 1/1/1968 **Work Type:** New Construction - AC **Code:** NC-AC **Is Major M&R:** True

Work Date: 1/2/1968 **Work Type:** Base Course - Aggregate **Code:** BA-AG **Is Major M&R:** False

Work Date: 1/3/1968 **Work Type:** Base Course - Aggregate **Code:** BA-AG **Is Major M&R:** False

Work Date: 6/1/1998 **Work Type:** Overlay - AC Structural **Code:** OL-AS **Is Major M&R:** True

Work Date: 10/1/1998 **Work Type:** Surface Course - AC (Layer Construct) **Code:** SU-AC **Is Major M&R:** False

Work Date: 1/1/2010 **Work Type:** Surface Seal - Rejuvenating **Code:** SS-RE **Is Major M&R:** False

Work Date: 1/1/2017 **Work Type:** Crack Sealing - AC **Code:** CS-AC **Is Major M&R:** False

Last Insp. Date: 1/30/2023 **TotalSamples:** 67 **Surveyed:** 14

Conditions: PCI: 60

Inspection Comments:

Sample Number: 02 **Type:** R **Area:** 5625.00 SqFt **PCI:** 65

Sample Comments:

48 L & T CR L 69.00 Ft

48 L & T CR M 225.00 Ft

57 WEATHERING L 5344.00 SqFt

57 WEATHERING M 281.00 SqFt

Sample Number: 06 **Type:** R **Area:** 5625.00 SqFt **PCI:** 59

Sample Comments:

48 L & T CR L 96.00 Ft

48 L & T CR M 359.00 Ft

57 WEATHERING L 5344.00 SqFt

57 WEATHERING M 281.00 SqFt

Sample Number: 11 **Type:** R **Area:** 5625.00 SqFt **PCI:** 65

Sample Comments:

48 L & T CR L 500.00 Ft

48 L & T CR M 80.00 Ft

57 WEATHERING L 5344.00 SqFt

57 WEATHERING M 281.00 SqFt

Sample Number: 16 **Type:** R **Area:** 5625.00 SqFt **PCI:** 59

Sample Comments:

48 L & T CR L 91.00 Ft

48 L & T CR M 362.00 Ft

57 WEATHERING L 5344.00 SqFt

57 WEATHERING M 281.00 SqFt

Sample Number: 21 **Type:** R **Area:** 5625.00 SqFt **PCI:** 58

Sample Comments:

48 L & T CR L 109.00 Ft

48 L & T CR M 362.00 Ft

57 WEATHERING L 5344.00 SqFt

57 WEATHERING M 281.00 SqFt

Sample Number: 26 **Type:** R **Area:** 5625.00 SqFt **PCI:** 70

Sample Comments:

48 L & T CR L 279.00 Ft

48	L & T CR	M	128.00	Ft
57	WEATHERING	L	5344.00	SqFt
57	WEATHERING	M	281.00	SqFt

Sample Number: 32 **Type:** R **Area:** 5625.00 SqFt **PCI:** 58

Sample Comments:

48	L & T CR	L	127.00	Ft
48	L & T CR	M	344.00	Ft
57	WEATHERING	L	5344.00	SqFt
57	WEATHERING	M	281.00	SqFt

Sample Number: 36 **Type:** R **Area:** 5625.00 SqFt **PCI:** 57

Sample Comments:

48	L & T CR	L	95.00	Ft
48	L & T CR	M	403.00	Ft
57	WEATHERING	L	5344.00	SqFt
57	WEATHERING	M	281.00	SqFt

Sample Number: 41 **Type:** R **Area:** 5625.00 SqFt **PCI:** 58

Sample Comments:

48	L & T CR	L	132.00	Ft
48	L & T CR	M	344.00	Ft
57	WEATHERING	L	5344.00	SqFt
57	WEATHERING	M	281.00	SqFt

Sample Number: 46 **Type:** R **Area:** 5625.00 SqFt **PCI:** 57

Sample Comments:

48	L & T CR	L	47.00	Ft
48	L & T CR	M	458.00	Ft
57	WEATHERING	L	5344.00	SqFt
57	WEATHERING	M	281.00	SqFt

Sample Number: 51 **Type:** R **Area:** 5625.00 SqFt **PCI:** 56

Sample Comments:

48	L & T CR	L	23.00	Ft
48	L & T CR	M	499.00	Ft
57	WEATHERING	L	5344.00	SqFt
57	WEATHERING	M	281.00	SqFt

Sample Number: 56 **Type:** R **Area:** 5625.00 SqFt **PCI:** 59

Sample Comments:

48	L & T CR	L	158.00	Ft
48	L & T CR	M	320.00	Ft
57	WEATHERING	L	5344.00	SqFt
57	WEATHERING	M	281.00	SqFt

Sample Number: 61 **Type:** R **Area:** 5625.00 SqFt **PCI:** 61

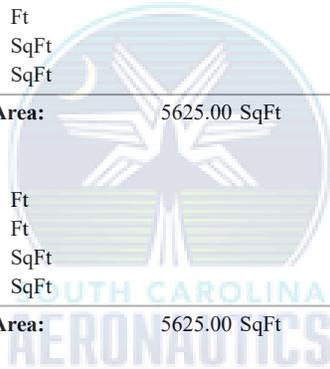
Sample Comments:

48	L & T CR	L	448.00	Ft
48	L & T CR	M	282.00	Ft
57	WEATHERING	L	5344.00	SqFt
57	WEATHERING	M	281.00	SqFt

Sample Number: 66 **Type:** R **Area:** 5625.00 SqFt **PCI:** 55

Sample Comments:

48	L & T CR	L	178.00	Ft
48	L & T CR	M	420.00	Ft
57	WEATHERING	L	5344.00	SqFt
57	WEATHERING	M	281.00	SqFt



Network: BBP **Name:** Marlboro County Jetport - H E Avent Field

Branch: TL 01 **Name:** TAXILANE 01 **Use:** TAXILANE **Area:** 6,126 SqFt

Section: 10 of 1 **From:** - **To:** - **Last Const.:** 6/1/1990

Surface: AC **Family:** SC34_TWTL_AC **Zone:** **Category:** G **Rank:** T

Area: 6,126 SqFt **Length:** 750 Ft **Width:** 12 Ft

Slabs: **Slab Length:** Ft **Slab Width:** Ft **Joint Length:** Ft

Shoulder: **Street Type:** **Grade:** 0 **Lanes:** 0

Section Comments:

Work Date: 6/1/1990 **Work Type:** Surface Course - AC (Layer Construct) **Code:** SU-AC **Is Major M&R:** False

Work Date: 6/1/1990 **Work Type:** New Construction - AC **Code:** NC-AC **Is Major M&R:** True

Work Date: 7/1/2009 **Work Type:** Patching - AC **Code:** PA-AC **Is Major M&R:** False

Last Insp. Date: 1/30/2023 **TotalSamples:** 2 **Surveyed:** 2

Conditions: PCI: 27

Inspection Comments:

Sample Number: 01 **Type:** R **Area:** 3734.00 SqFt **PCI:** 18

Sample Comments:

41 ALLIGATOR CR M 149.00 SqFt
41 ALLIGATOR CR H 10.00 SqFt
45 DEPRESSION L 1.00 SqFt
48 L & T CR M 285.00 Ft
50 PATCHING L 654.00 SqFt
52 RAVELING M 3080.00 SqFt

Sample Number: 02 **Type:** R **Area:** 2392.00 SqFt **PCI:** 41

Sample Comments:

48 L & T CR L 95.00 Ft
48 L & T CR M 25.00 Ft
50 PATCHING L 1100.00 SqFt
52 RAVELING M 1292.00 SqFt



Network: BBP **Name:** Marlboro County Jetport - H E Avent Field

Branch: TW A **Name:** TAXIWAY A **Use:** TAXIWAY **Area:** 210,213 SqFt

Section: 10 of 4 **From:** - **To:** - **Last Const.:** 6/1/1998

Surface: AAC **Family:** SC34_TWTL_AC **Zone:** **Category:** G **Rank:** S

Area: 2,777 SqFt **Length:** 56 Ft **Width:** 40 Ft

Slabs: **Slab Length:** Ft **Slab Width:** Ft **Joint Length:** Ft

Shoulder: **Street Type:** **Grade:** 0 **Lanes:** 0

Section Comments:

Work Date: 7/1/1978 **Work Type:** Base Course - Aggregate **Code:** BA-AG **Is Major M&R:** False

Work Date: 7/1/1978 **Work Type:** Surface Course - AC (Layer Construct) **Code:** SU-AC **Is Major M&R:** False

Work Date: 7/1/1978 **Work Type:** New Construction - AC **Code:** NC-AC **Is Major M&R:** True

Work Date: 6/1/1998 **Work Type:** Overlay - AC Structural **Code:** OL-AS **Is Major M&R:** True

Work Date: 1/1/2017 **Work Type:** Crack Sealing - AC **Code:** CS-AC **Is Major M&R:** False

Last Insp. Date: 1/30/2023 **TotalSamples:** 1 **Surveyed:** 1

Conditions: PCI: 65

Inspection Comments:

Sample Number: 01 **Type:** R **Area:** 2777.00 SqFt **PCI:** 65

Sample Comments:

48 L & T CR L 216.00 Ft
48 L & T CR M 32.00 Ft
57 WEATHERING L 2499.00 SqFt
57 WEATHERING M 278.00 SqFt



Network: BBP **Name:** Marlboro County Jetport - H E Avent Field

Branch: TW A **Name:** TAXIWAY A **Use:** TAXIWAY **Area:** 210,213 SqFt

Section: 20 of 4 **From:** - **To:** - **Last Const.:** 6/1/1997

Surface: AAC **Family:** SC34_TWTL_AC **Zone:** **Category:** G **Rank:** S

Area: 75,720 SqFt **Length:** 1,893 Ft **Width:** 40 Ft

Slabs: **Slab Length:** Ft **Slab Width:** Ft **Joint Length:** Ft

Shoulder: **Street Type:** **Grade:** 0 **Lanes:** 0

Section Comments:

Work Date: 7/1/1978 **Work Type:** Base Course - Aggregate **Code:** BA-AG **Is Major M&R:** False

Work Date: 7/1/1978 **Work Type:** Surface Course - AC (Layer Construct) **Code:** SU-AC **Is Major M&R:** False

Work Date: 7/1/1978 **Work Type:** New Construction - AC **Code:** NC-AC **Is Major M&R:** True

Work Date: 6/1/1997 **Work Type:** Overlay - AC Structural **Code:** OL-AS **Is Major M&R:** True

Work Date: 1/1/2010 **Work Type:** Surface Seal - Rejuvenating **Code:** SS-RE **Is Major M&R:** False

Work Date: 1/1/2017 **Work Type:** Crack Sealing - AC **Code:** CS-AC **Is Major M&R:** False

Last Insp. Date: 1/30/2023 **Total Samples:** 19 **Surveyed:** 5

Conditions: PCI: 65

Inspection Comments:

Sample Number: 02 **Type:** R **Area:** 4000.00 SqFt **PCI:** 65

Sample Comments:

48 L & T CR L 357.00 Ft

48 L & T CR M 8.00 Ft

57 WEATHERING L 3800.00 SqFt

57 WEATHERING M 200.00 SqFt

Sample Number: 06 **Type:** R **Area:** 4000.00 SqFt **PCI:** 64

Sample Comments:

48 L & T CR L 376.00 Ft

48 L & T CR M 10.00 Ft

57 WEATHERING L 3800.00 SqFt

57 WEATHERING M 200.00 SqFt

Sample Number: 10 **Type:** R **Area:** 4000.00 SqFt **PCI:** 63

Sample Comments:

48 L & T CR L 405.00 Ft

48 L & T CR M 9.00 Ft

57 WEATHERING L 3800.00 SqFt

57 WEATHERING M 200.00 SqFt

Sample Number: 14 **Type:** R **Area:** 4000.00 SqFt **PCI:** 66

Sample Comments:

48 L & T CR L 320.00 Ft

48 L & T CR M 60.00 Ft

57 WEATHERING L 3800.00 SqFt

57 WEATHERING M 200.00 SqFt

Sample Number: 18 **Type:** R **Area:** 4000.00 SqFt **PCI:** 65

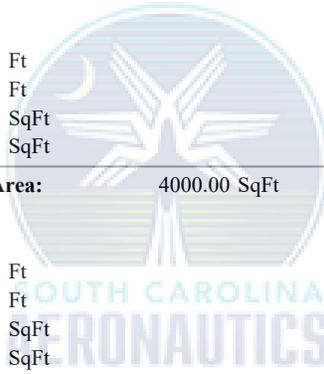
Sample Comments:

48 L & T CR L 340.00 Ft

48 L & T CR M 15.00 Ft

57 WEATHERING L 3800.00 SqFt

57 WEATHERING M 200.00 SqFt



Network: BBP **Name:** Marlboro County Jetport - H E Avent Field

Branch: TW A **Name:** TAXIWAY A **Use:** TAXIWAY **Area:** 210,213 SqFt

Section: 30 of 4 **From:** - **To:** - **Last Const.:** 6/1/1998

Surface: AC **Family:** SC34_TWTL_AC **Zone:** **Category:** G **Rank:** S

Area: 20,470 SqFt **Length:** 475 Ft **Width:** 40 Ft

Slabs: **Slab Length:** Ft **Slab Width:** Ft **Joint Length:** Ft

Shoulder: **Street Type:** **Grade:** 0 **Lanes:** 0

Section Comments:

Work Date: 6/1/1998 **Work Type:** Base Course - Aggregate **Code:** BA-AG **Is Major M&R:** False

Work Date: 6/1/1998 **Work Type:** Base Course - Aggregate **Code:** BA-AG **Is Major M&R:** False

Work Date: 6/1/1998 **Work Type:** Surface Course - AC (Layer Construct) **Code:** SU-AC **Is Major M&R:** False

Work Date: 6/1/1998 **Work Type:** New Construction - AC **Code:** NC-AC **Is Major M&R:** True

Work Date: 1/1/2010 **Work Type:** Surface Seal - Rejuvenating **Code:** SS-RE **Is Major M&R:** False

Work Date: 1/1/2017 **Work Type:** Crack Sealing - AC **Code:** CS-AC **Is Major M&R:** False

Last Insp. Date: 1/30/2023 **Total Samples:** 5 **Surveyed:** 1

Conditions: PCI: 62

Inspection Comments:

Sample Number: 04 **Type:** R **Area:** 4000.00 SqFt **PCI:** 62

Sample Comments:

48 L & T CR L 102.00 Ft
48 L & T CR M 181.00 Ft
57 WEATHERING L 3800.00 SqFt
57 WEATHERING M 200.00 SqFt



Network: BBP **Name:** Marlboro County Jetport - H E Avent Field

Branch: TW A **Name:** TAXIWAY A **Use:** TAXIWAY **Area:** 210,213 SqFt

Section: 40 of 4 **From:** - **To:** - **Last Const.:** 1/3/2022

Surface: AAC **Family:** SC34_TWTL_AC **Zone:** **Category:** G **Rank:** P

Area: 111,246 SqFt **Length:** 2,800 Ft **Width:** 40 Ft

Slabs: **Slab Length:** Ft **Slab Width:** Ft **Joint Length:** Ft

Shoulder: **Street Type:** **Grade:** 0 **Lanes:** 0

Section Comments:

Work Date: 7/1/1978 **Work Type:** Surface Course - AC (Layer Construct) **Code:** SU-AC **Is Major M&R:** False

Work Date: 7/1/1978 **Work Type:** New Construction - AC **Code:** NC-AC **Is Major M&R:** True

Work Date: 7/1/1978 **Work Type:** Base Course - Aggregate **Code:** BA-AG **Is Major M&R:** False

Work Date: 6/1/1997 **Work Type:** Overlay - AC Structural **Code:** OL-AS **Is Major M&R:** True

Work Date: 1/1/2022 **Work Type:** Mill and Overlay **Code:** ML-OV **Is Major M&R:** True

Work Date: 1/2/2022 **Work Type:** Cold Milling **Code:** MI-CO **Is Major M&R:** False

Work Date: 1/3/2022 **Work Type:** Overlay - AC Structural **Code:** OL-AS **Is Major M&R:** True

Last Insp. Date: 4/27/2016 **TotalSamples:** 27 **Surveyed:** 5

Conditions: PCI: 70 **NOTE: *** Pre-Construction PCI *****

Inspection Comments:

Sample Number: 02 **Type:** R **Area:** 4000.00 SqFt **PCI:** 74

Sample Comments:

48 LONGITUDINAL/TRANSVERSE L 266.00 Ft
CRACKING

57 WEATHERING L 3800.00 SqFt

57 WEATHERING M 200.00 SqFt

Sample Number: 08 **Type:** R **Area:** 4000.00 SqFt **PCI:** 72

Sample Comments:

48 LONGITUDINAL/TRANSVERSE L 308.00 Ft
CRACKING

57 WEATHERING L 3800.00 SqFt

57 WEATHERING M 200.00 SqFt

Sample Number: 14 **Type:** R **Area:** 4000.00 SqFt **PCI:** 70

Sample Comments:

48 LONGITUDINAL/TRANSVERSE L 308.00 Ft
CRACKING

57 WEATHERING L 3600.00 SqFt

57 WEATHERING M 400.00 SqFt

Sample Number: 20 **Type:** R **Area:** 4000.00 SqFt **PCI:** 70

Sample Comments:

48 LONGITUDINAL/TRANSVERSE L 309.00 Ft
CRACKING

57 WEATHERING L 3600.00 SqFt

57 WEATHERING M 400.00 SqFt

Sample Number: 26 **Type:** R **Area:** 4000.00 SqFt **PCI:** 65

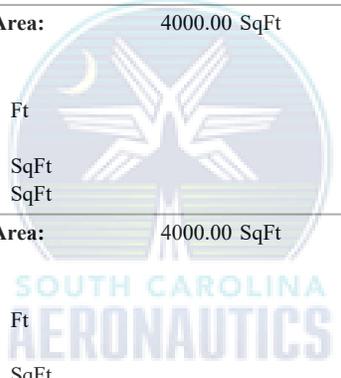
Sample Comments:

48 LONGITUDINAL/TRANSVERSE L 300.00 Ft
CRACKING

48 LONGITUDINAL/TRANSVERSE M 10.00 Ft
CRACKING

57 WEATHERING L 3600.00 SqFt

57 WEATHERING M 400.00 SqFt



Network:	BBP	Name:	Marlboro County Jetport - H E Avent Field				
Branch:	TW A1	Name:	TAXIWAY A1	Use:	TAXIWAY	Area:	7,846 SqFt
Section:	10	of 2	From:	-	To:	-	Last Const.: 6/1/1998
Surface:	AAC	Family:	SC34_TWTL_AC	Zone:		Category:	G
Area:	3,413 SqFt	Length:	59 Ft	Width:	40 Ft		
Slabs:		Slab Length:	Ft	Slab Width:	Ft	Joint Length:	Ft
Shoulder:		Street Type:		Grade:	0	Lanes:	0
Section Comments:							
Work Date:	7/1/1978	Work Type:	Surface Course - AC (Layer Construct)		Code:	SU-AC	Is Major M&R: False
Work Date:	7/1/1978	Work Type:	New Construction - AC		Code:	NC-AC	Is Major M&R: True
Work Date:	7/1/1978	Work Type:	Base Course - Aggregate		Code:	BA-AG	Is Major M&R: False
Work Date:	6/1/1998	Work Type:	Overlay - AC Structural		Code:	OL-AS	Is Major M&R: True
Work Date:	1/1/2010	Work Type:	Surface Seal - Rejuvenating		Code:	SS-RE	Is Major M&R: False
Last Insp. Date:	1/30/2023	TotalSamples:	1	Surveyed:	1		
Conditions:	PCI: 69						
Inspection Comments:							
Sample Number:	01	Type:	R	Area:	3413.00 SqFt	PCI:	69

Sample Comments:

48	L & T CR	L	198.00 Ft
48	L & T CR	M	49.00 Ft
57	WEATHERING	L	3072.00 SqFt
57	WEATHERING	M	341.00 SqFt



Network: BBP **Name:** Marlboro County Jetport - H E Avent Field

Branch: TW A1 **Name:** TAXIWAY A1 **Use:** TAXIWAY **Area:** 7,846 SqFt

Section: 20 of 2 **From:** - **To:** - **Last Const.:** 1/3/2022

Surface: AAC **Family:** SC34_TWTL_AC **Zone:** **Category:** G **Rank:** P

Area: 4,433 SqFt **Length:** 84 Ft **Width:** 40 Ft

Slabs: **Slab Length:** Ft **Slab Width:** Ft **Joint Length:** Ft

Shoulder: **Street Type:** **Grade:** 0 **Lanes:** 0

Section Comments:

Work Date: 7/1/1978 **Work Type:** New Construction - AC **Code:** NC-AC **Is Major M&R:** True

Work Date: 7/1/1978 **Work Type:** Surface Course - AC (Layer Construct) **Code:** SU-AC **Is Major M&R:** False

Work Date: 7/1/1978 **Work Type:** Base Course - Aggregate **Code:** BA-AG **Is Major M&R:** False

Work Date: 6/1/1997 **Work Type:** Overlay - AC Structural **Code:** OL-AS **Is Major M&R:** True

Work Date: 1/1/2010 **Work Type:** Surface Treatment - Seal Coat **Code:** ST-SCT **Is Major M&R:** False

Work Date: 1/1/2022 **Work Type:** Mill and Overlay **Code:** ML-OV **Is Major M&R:** True

Work Date: 1/2/2022 **Work Type:** Cold Milling **Code:** MI-CO **Is Major M&R:** False

Work Date: 1/3/2022 **Work Type:** Overlay - AC Structural **Code:** OL-AS **Is Major M&R:** True

Last Insp. Date: 4/27/2016 **TotalSamples:** 1 **Surveyed:** 1

Conditions: PCI: 84 **NOTE: *** Pre-Construction PCI *****

Inspection Comments:

Sample Number: 01 **Type:** R **Area:** 7846.00 SqFt **PCI:** 84

Sample Comments:

48 LONGITUDINAL/TRANSVERSE L 121.00 Ft
CRACKING

57 WEATHERING L 7061.00 SqFt

57 WEATHERING M 785.00 SqFt



Network:	BBP	Name:	Marlboro County Jetport - H E Avent Field				
Branch:	TW A2	Name:	TAXIWAY A2	Use:	TAXIWAY	Area:	13,000 SqFt
Section:	10	of 3	From:	-	To:	-	Last Const.: 6/1/1998
Surface:	AAC	Family:	SC34_TWTL_AC	Zone:		Category:	G
Area:	3,413 SqFt	Length:	59 Ft	Width:	40 Ft	Rank:	S
Slabs:		Slab Length:	Ft	Slab Width:	Ft	Joint Length:	Ft
Shoulder:		Street Type:		Grade:	0	Lanes:	0
Section Comments:							
Work Date:	7/1/1978	Work Type:	Base Course - Aggregate	Code:	BA-AG	Is Major M&R:	False
Work Date:	7/1/1978	Work Type:	New Construction - AC	Code:	NC-AC	Is Major M&R:	True
Work Date:	7/1/1978	Work Type:	Surface Course - AC (Layer Construct)	Code:	SU-AC	Is Major M&R:	False
Work Date:	6/1/1998	Work Type:	Overlay - AC Structural	Code:	OL-AS	Is Major M&R:	True
Work Date:	1/1/2010	Work Type:	Surface Seal - Rejuvenating	Code:	SS-RE	Is Major M&R:	False
Last Insp. Date:	1/30/2023	TotalSamples:	1	Surveyed:	1		
Conditions:	PCI: 68						
Inspection Comments:							
Sample Number:	01	Type:	R	Area:	3413.00 SqFt	PCI:	68

Sample Comments:

48	L & T CR	L	207.00 Ft
48	L & T CR	M	62.00 Ft
57	WEATHERING	L	3072.00 SqFt
57	WEATHERING	M	341.00 SqFt



Network: BBP **Name:** Marlboro County Jetport - H E Avent Field

Branch: TW A2 **Name:** TAXIWAY A2 **Use:** TAXIWAY **Area:** 13,000 SqFt

Section: 20 of 3 **From:** - **To:** - **Last Const.:** 1/3/2022

Surface: AAC **Family:** SC34_TWTL_AC **Zone:** **Category:** G **Rank:** P

Area: 4,433 SqFt **Length:** 84 Ft **Width:** 40 Ft

Slabs: **Slab Length:** Ft **Slab Width:** Ft **Joint Length:** Ft

Shoulder: **Street Type:** **Grade:** 0 **Lanes:** 0

Section Comments:

Work Date: 7/1/1978 **Work Type:** Surface Course - AC (Layer Construct) **Code:** SU-AC **Is Major M&R:** False

Work Date: 7/1/1978 **Work Type:** Base Course - Aggregate **Code:** BA-AG **Is Major M&R:** False

Work Date: 7/1/1978 **Work Type:** New Construction - AC **Code:** NC-AC **Is Major M&R:** True

Work Date: 6/1/1997 **Work Type:** Overlay - AC Structural **Code:** OL-AS **Is Major M&R:** True

Work Date: 1/1/2010 **Work Type:** Surface Treatment - Seal Coat **Code:** ST-SCT **Is Major M&R:** False

Work Date: 1/1/2022 **Work Type:** Mill and Overlay **Code:** ML-OV **Is Major M&R:** True

Work Date: 1/2/2022 **Work Type:** Cold Milling **Code:** MI-CO **Is Major M&R:** False

Work Date: 1/3/2022 **Work Type:** Overlay - AC Structural **Code:** OL-AS **Is Major M&R:** True

Last Insp. Date: 4/27/2016 **TotalSamples:** 3 **Surveyed:** 2

Conditions: PCI: 84 **NOTE: *** Pre-Construction PCI *****

Inspection Comments:

Sample Number: 01 **Type:** R **Area:** 4673.00 SqFt **PCI:** 88

Sample Comments:

48 LONGITUDINAL/TRANSVERSE L 81.00 Ft
CRACKING

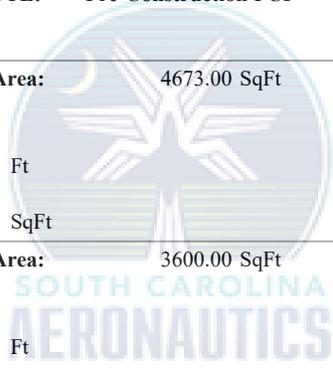
57 WEATHERING L 4673.00 SqFt

Sample Number: 02 **Type:** R **Area:** 3600.00 SqFt **PCI:** 78

Sample Comments:

48 LONGITUDINAL/TRANSVERSE L 214.00 Ft
CRACKING

57 WEATHERING L 3600.00 SqFt



Network: BBP **Name:** Marlboro County Jetport - H E Avent Field

Branch: TW A2 **Name:** TAXIWAY A2 **Use:** TAXIWAY **Area:** 13,000 SqFt

Section: 30 of 3 **From:** - **To:** - **Last Const.:** 1/1/2021

Surface: AC **Family:** SC34_TWTL_AC **Zone:** **Category:** G **Rank:** P

Area: 5,154 SqFt **Length:** 82 Ft **Width:** 42 Ft

Slabs: **Slab Length:** Ft **Slab Width:** Ft **Joint Length:** Ft

Shoulder: **Street Type:** **Grade:** 0 **Lanes:** 0

Section Comments:

Work Date: 7/1/1978 **Work Type:** Surface Course - AC (Layer Construct) **Code:** SU-AC **Is Major M&R:** False

Work Date: 7/1/1978 **Work Type:** Base Course - Aggregate **Code:** BA-AG **Is Major M&R:** False

Work Date: 7/1/1978 **Work Type:** New Construction - AC **Code:** NC-AC **Is Major M&R:** True

Work Date: 6/1/1997 **Work Type:** Overlay - AC Structural **Code:** OL-AS **Is Major M&R:** True

Work Date: 1/1/2010 **Work Type:** Surface Treatment - Seal Coat **Code:** ST-SCT **Is Major M&R:** False

Work Date: 1/1/2021 **Work Type:** Complete Reconstruction - AC **Code:** CR-AC **Is Major M&R:** True

Work Date: 1/2/2021 **Work Type:** Base Course - Bituminous **Code:** BA-BI **Is Major M&R:** False

Work Date: 1/3/2021 **Work Type:** Surface Course - AC (Layer Construct) **Code:** SU-AC **Is Major M&R:** False

Last Insp. Date: 4/27/2016 **Total Samples:** 3 **Surveyed:** 2

Conditions: PCI: 84 **NOTE: *** Pre-Construction PCI *****

Inspection Comments:

Sample Number: 01 **Type:** R **Area:** 4673.00 SqFt **PCI:** 88

Sample Comments:

48 LONGITUDINAL/TRANSVERSE L 81.00 Ft
CRACKING

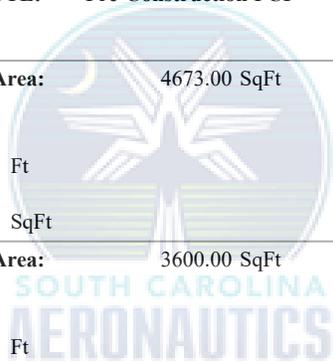
57 WEATHERING L 4673.00 SqFt

Sample Number: 02 **Type:** R **Area:** 3600.00 SqFt **PCI:** 78

Sample Comments:

48 LONGITUDINAL/TRANSVERSE L 214.00 Ft
CRACKING

57 WEATHERING L 3600.00 SqFt



Network: BBP **Name:** Marlboro County Jetport - H E Avent Field

Branch: TW A3 **Name:** TAXIWAY A3 **Use:** TAXIWAY **Area:** 7,846 SqFt

Section: 10 of 1 **From:** - **To:** - **Last Const.:** 6/1/1998

Surface: AAC **Family:** SC34_TWTL_AC **Zone:** **Category:** G **Rank:** S

Area: 7,846 SqFt **Length:** 140 Ft **Width:** 40 Ft

Slabs: **Slab Length:** Ft **Slab Width:** Ft **Joint Length:** Ft

Shoulder: **Street Type:** **Grade:** 0 **Lanes:** 0

Section Comments:

Work Date: 7/1/1978 **Work Type:** New Construction - AC **Code:** NC-AC **Is Major M&R:** True

Work Date: 7/1/1978 **Work Type:** Surface Course - AC (Layer Construct) **Code:** SU-AC **Is Major M&R:** False

Work Date: 7/1/1978 **Work Type:** Base Course - Aggregate **Code:** BA-AG **Is Major M&R:** False

Work Date: 6/1/1998 **Work Type:** Overlay - AC Structural **Code:** OL-AS **Is Major M&R:** True

Work Date: 1/1/2010 **Work Type:** Surface Seal - Rejuvenating **Code:** SS-RE **Is Major M&R:** False

Last Insp. Date: 1/30/2023 **TotalSamples:** 2 **Surveyed:** 1

Conditions: PCI: 69

Inspection Comments:

Sample Number: 01 **Type:** R **Area:** 3773.00 SqFt **PCI:** 69

Sample Comments:

48 L & T CR L 190.00 Ft
48 L & T CR M 60.00 Ft
52 RAVELING L 30.00 SqFt
57 WEATHERING L 3556.00 SqFt
57 WEATHERING M 187.00 SqFt





Kimley»»Horn