2022 ODA Pavement Evaluation Program Paisley Airport

Paisley, Oregon

December 30, 2022 (**REVISED: 01/24/2023**)

Prepared for

State of Oregon Department of Aviation 3040 25th Street SE Salem, OR 97303-1125

Prepared by



16520 SW Upper Boones Ferry Road, Suite 100 Tigard, OR 97224-7661 (503) 641-3478 | www.gri.com



TABLE OF CONTENTS

1	OVER	/IEW	1
2	PAVE	MENT INVENTORY	1
3	PAVE	MENT CONDITION INSPECTION RESULTS	3
	3.1 Introd	uction	3
	3.2 Pavem	ent Condition Index Survey Results	4
4		RE PAVEMENT CONDITION ANALYSIS	
	4.1 Introd	uction	5
	4.2 Future	Condition Analysis	5
	4.3 Function	onal Remaining Life	6
5		TENANCE AND REHABILITATION PROJECT RECOMMENDATIONS	
	5.1 Introd	uction	7
	5.2 Recom	mended Localized Maintenance	7
		Maintenance and Rehabilitation Plan	
6		ATIONS	
TA	BLES		
Tal	ble 3-1:	ASTM PCI Rating Scale	
Tal	ble 5-1:	Localized Maintenance Quantities	
Tal	ble 5-2:	Global Maintenance and Rehabilitation Quantities	
FIG	GURES		
	jure 2.1:	Paisley Airport Location Map	
_	ure 2.2:	Paisley Airport Pavement Area by Surface Type	
_	jure 2.3:	Paisley Airport Pavement Area by Branch Use	
	jure 2.4:	Paisley Airport Pavement Inventory	
_	jure 3.1:	2022 PCI Survey Results	
	jure 3.2:	Paisley Airport Pavement Condition Rating by Percent of Pavement Area Future Pavement Condition	
_	ure 4.1: Jure 5.1:	Paisley Airport Pavement Network General Treatment Type Distribution Based	on
119	Jui C 5. 1.	PCI	J11
Fig	jure 5.2:	5-Year Pavement Management Plan	
AF	PPENDICE	S	
Ар	pendix A:	Pavement Inventory Report and Maps	
Ар	pendix B:	Pavement Condition Index Survey Results	
Ар	pendix C:	Future Pavement Condition Analysis	
Ар	pendix D:	Unit Cost Data and Maintenance and Rehabilitation Plan	
Ар	pendix E:	Re-Inspection Report	



APPENDICES (continued)

Appendix F: Work History Report



1 **OVERVIEW**

GRI assisted with updating the Oregon Department of Aviation (ODA) airport pavement management system and developing a five-year plan for global maintenance and rehabilitation (M&R) and preservation work for the Paisley Airport in Paisley, Oregon. This project was implemented as a part of the ODA and Federal Aviation Administration (FAA) *Oregon Continuous Aviation System Plan*. The information provided in this report ensures compliance with FAA Grant Assurance Number 11, which outlines that an airport shall have an effective airport pavement maintenance-management program in place to receive federal financial assistance for the construction, reconstruction, or repair of airport pavements.

GRI conducted surveys of the airside pavement at Paisley Airport in 2022 in accordance with the procedures of Advisory Circular 150/5380-7B and ASTM International (ASTM) D5340. We uploaded the survey data into the PAVER database and used the software to provide a rapid calculation of the pavement condition index (PCI) rating. The PCI is a numerical indicator that defines the functional condition of the pavement based on visual inspection. The scale ranges from zero to 100, where zero represents a pavement in the worst possible condition with no remaining functional life and 100 represents a pavement in the best possible condition with no defects.

2 PAVEMENT INVENTORY

Paisley Airport is located in Paisley, Oregon, and is owned and operated by Lake County. The airport has one runway that serves a variety of general aviation and air taxi aircraft. The general location of the airport is shown on the Paisley Airport Location Map, Figure 2.1.



Figure 2.1 – PAISLEY AIRPORT LOCATION MAP



Paisley Airport contains one runway and one apron. The airside pavements at Paisley Airport are surfaced with asphalt concrete (AC). The airport pavements, delineated by surface type and branch use, are shown on the Paisley Airport Pavement Area by Surface Type, Figure 2.2 and the Paisley Airport Pavement Area by Branch Use, Figure 2.3. The pavement inventory, including work history for each pavement section, is displayed spatially on the Paisley Airport Pavement Inventory, Figure 2.4. The pavement facilities summarized by branch and section are listed in Tables 1A and 2A, respectively, in Appendix A. The sample unit layout for each section is shown on Figure 1A in Appendix A. We used the sampling rates outlined in Table 3A of Appendix A in our survey. The pavement inventory, including work history for individual airport pavement sections, is provided in the Work History Report, Appendix F.

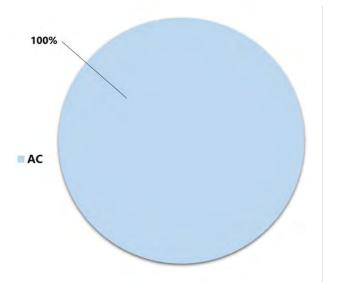


Figure 2.2 - PAISLEY AIRPORT PERCENT OF PAVEMENT AREA BY SURFACE TYPE

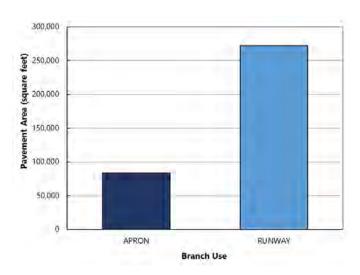
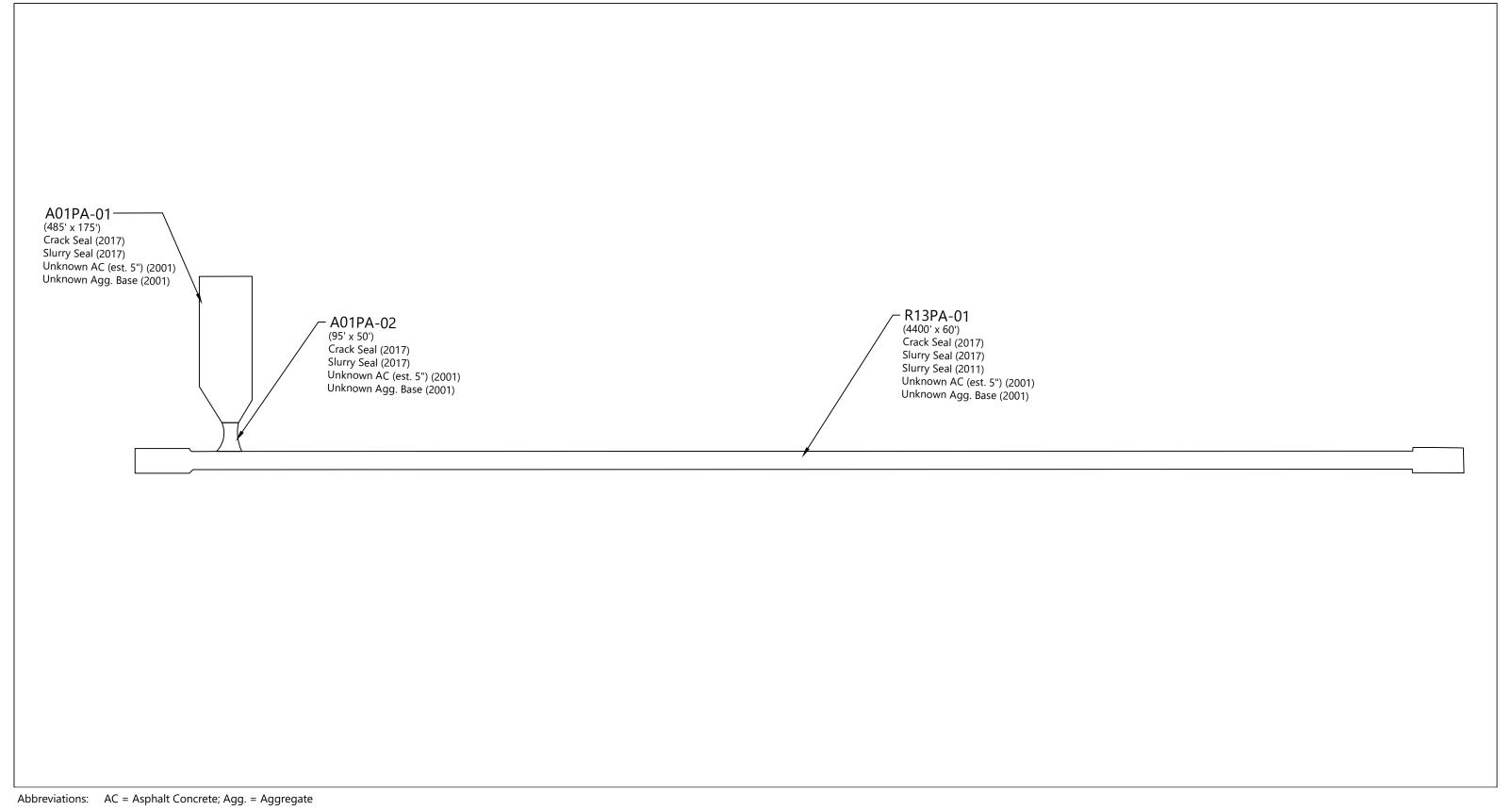


Figure 2.3 - PAISLEY AIRPORT PAVEMENT AREA BY BRANCH USE



600 FEET

GKI STATE

OREGON DEPARTMENT OF AVIATION STATEWIDE PAVEMENT EVALUATION PROGRAM

PAISLEY AIRPORT PAVEMENT INVENTORY

DEC. 2022 JOB NO. 6593-B FIG. 2.4



3 PAVEMENT CONDITION INSPECTION RESULTS

3.1 Introduction

GRI conducted a visual PCI survey of the airside pavements at Paisley Airport in March 2022. The 2022 survey work was performed on sections last inspected in 2019 in order to update the Paisley Airport inspection data. GRI performed the 2022 PCI survey in accordance with the methods described in FAA Advisory Circular 150/5380-6C and ASTM D5340, and further discussed in Appendix B of this report.

The PCI is based on the type, severity, and quantity of each distress found in an inspected sample unit. Further discussion of distress types for flexible pavement is provided in Appendix B and summarized in Table 1B. The results of the PCI survey are displayed using a seven-category rating scale in accordance with ASTM D5340. Details of the ASTM PCI rating scale are provided in Table 3-1 below.

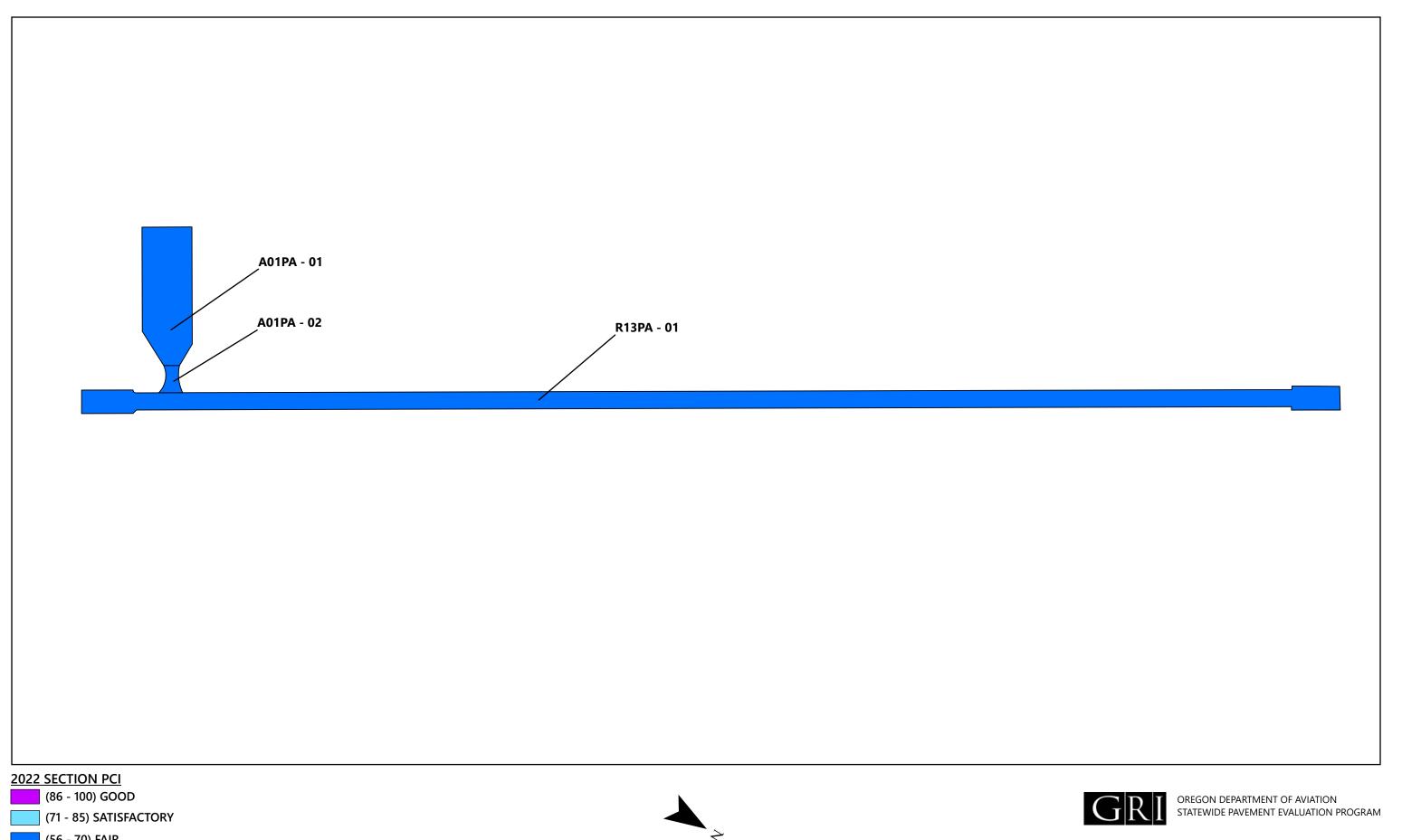
Table 3-1: ASTM PCI RATING SCALE

PCI Color Legend	PCI Range	PCI Rating and Definition
	86 – 100	GOOD: Pavement has minor or no distresses and should require only routine maintenance.
	71 – 85	SATISFACTORY: Pavement has scattered low-severity distresses that should require only routine maintenance.
	56 – 70	FAIR: Pavement has a combination of generally low- and medium-severity distresses. Maintenance and repair needs may range from routine to major.
	41 – 55	POOR: Pavement has low-, medium-, and high-severity distresses that probably cause some operational problems. M&R needs will be major.
	26 – 40	VERY POOR: Pavement has predominantly medium- and high-severity distresses that cause considerable maintenance and operational problems. M&R needs will be major.
	11 – 25	SERIOUS: Pavement has mainly high-severity distresses that may affect operational safety; immediate repairs are needed.
	0 – 10	FAILED: Pavement deterioration has progressed to the point that safe aircraft operations are no longer possible; complete reconstruction is required.



3.2 Pavement Condition Index Survey Results

The area-weighted average PCI for all airport pavements at Paisley Airport is approximately 59. The section PCIs ranged from a low of 59 to a high of 61. The primary distresses observed during the inspection were weathering, raveling, and block cracking. Section PCIs following our pavement survey are displayed below spatially on the 2022 PCI Survey Results, Figure 3.1.

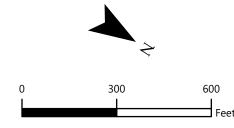


(56 - 70) FAIR

(41 - 55) POOR

(26 - 40) VERY POOR

(11 - 25) SERIOUS (0 - 10) FAILED





PAISLEY AIRPORT

DEC. 2022 JOB NO. 6593-B FIG. 3.1



The condition distribution of the network by the percent of total pavement area is provided on the Paisley Airport Pavement Condition Rating by Percent of Pavement Area, Figure 3.2. A summary of the pavement condition results by branch and section are included in Tables 2B and 3B of Appendix B, respectively. A comparison between the previous inspection and the 2022 inspection is provided in Table 4B in Appendix B. The Re-Inspection Report that includes inspection details for individual sample units is provided in Appendix E.

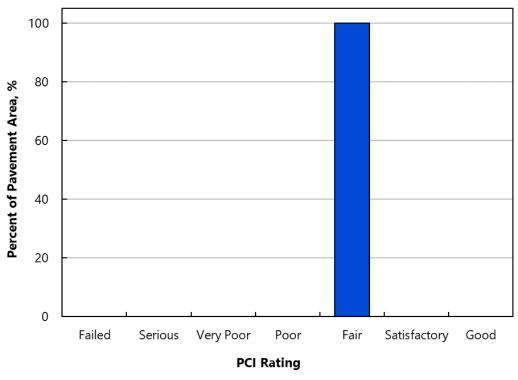


Figure 3.2 - PAISLEY AIRPORT PAVEMENT CONDITION RATING BY PERCENT OF PAVEMENT AREA

4 FUTURE PAVEMENT CONDITION ANALYSIS

4.1 Introduction

In addition to assessing the current condition of a pavement, it is very important from a planning standpoint to be able to predict with reasonable accuracy the future condition. Additional details regarding our future pavement condition analysis, including pavement condition prediction models, are provided in Appendix C. PCI performance curves developed for Paisley Airport are displayed on Figures 1C and 2C in Appendix C.

4.2 Future Condition Analysis

Using the condition prediction models discussed above, the projected condition of each pavement section was determined for 5- and 10-year periods. Based on this analysis, we project the PCI to decrease from a current value of 59 to a value of 47 in the year 2027



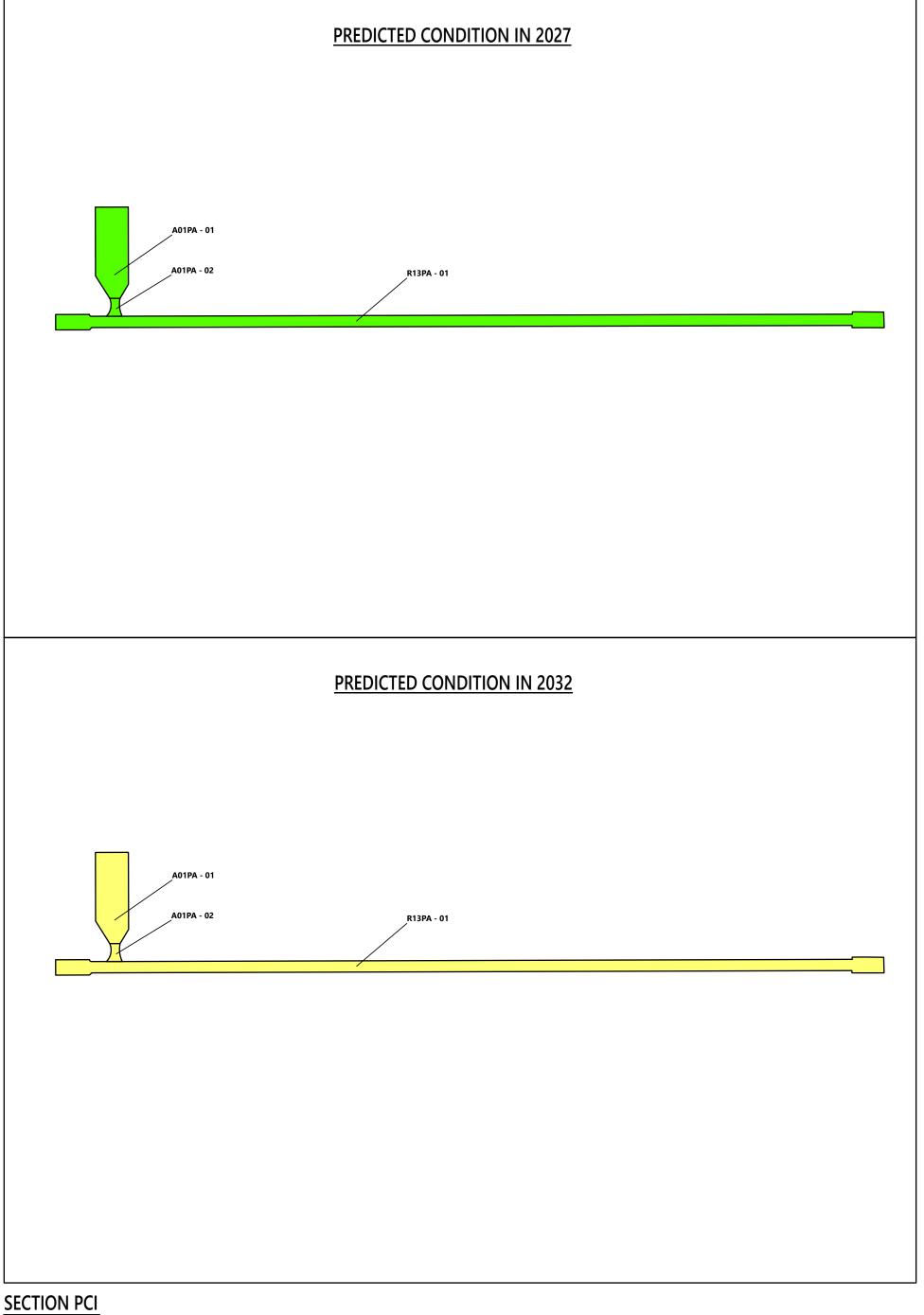
and 35 in the year 2032, if no maintenance or rehabilitation work is performed. The projected pavement condition in 5 years and 10 years for each pavement section at Paisley Airport is displayed spatially on the Future Pavement Condition, Figure 4.1 and listed in Table 1C in Appendix C, along with the past and present PCI values for the pavement network.

4.3 Functional Remaining Life

The functional remaining life is the practical amount of time a pavement is in service before requiring rehabilitation, as estimated based solely on visual condition. This is not to be confused with structural remaining life, which requires analysis of the structural capacity of a pavement and typically a field exploration and testing program that includes core explorations and falling weight deflectometer (FWD) deflection tests.

We calculated two forms of functional remaining life based on the current visual condition surveys of the pavement at Paisley Airport. The first type of functional remaining life is the time until rehabilitation such as an overlay is needed. The critical PCI, further discussed in Section C.3 of Appendix C, is the threshold used for this type of functional remaining life analysis. The second type of functional remaining life is the time until the pavement is no longer operational due to high foreign object debris (FOD) potential and increased safety concerns for trafficking aircraft. A PCI of 40 was set as the trigger point for the end of the pavement's functional service life with regard to FOD potential.

The two types of functional remaining life for each section at Paisley Airport are summarized in Table 2C in Appendix C.



(86 - 100) GOOD

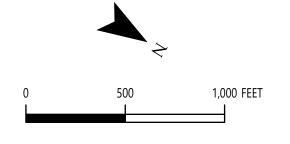
(71 - 85) SATISFACTORY

(56 - 70) FAIR

(41 - 55) POOR

(26 - 40) VERY POOR

(11 - 25) SERIOUS (0 - 10) FAILED





FUTURE PAVEMENT CONDITION PAISLEY AIRPORT



5 MAINTENANCE AND REHABILITATION PROJECT RECOMMENDATIONS

5.1 Introduction

We evaluated Maintenance and Rehabilitation (M&R) needs, as determined from the PAVER analysis results, in order to develop localized maintenance, global maintenance, and rehabilitation needs. Details of our M&R work priority and unit costs for work activities are provided in Tables 1D and 2D, respectively, in Appendix D.

Based on the 2022 PCI-survey results, the Paisley Airport Pavement Network General Treatment Type Distribution Based on PCI, Figure 5.1 displays a breakdown of the Paisley Airport network pavement condition by percent of area and general M&R treatment categories. Approximately 100% the area requires rehabilitation treatments, with none of the sections requiring preservation or reconstruction treatments.

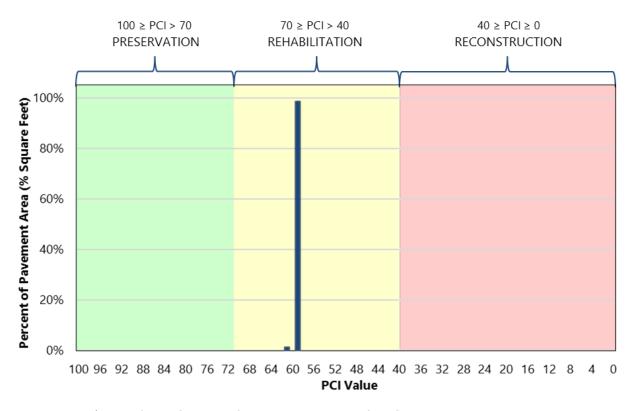


Figure 5.1 – PAISLEY AIRPORT PAVEMENT NETWORK GENERAL TREATMENT TYPE DISTRIBUTION BASED ON PCI

5.2 Recommended Localized Maintenance

Localized maintenance refers to activities such as crack sealing and patching, which should be performed annually in order to properly maintain aging pavements. Using the PAVER Localized Distress Maintenance Analysis tool, we developed a list of recommended localized maintenance. This list is shown in Table 3D in Appendix D and is independent of the global maintenance and rehabilitation projects associated with the five-year global



maintenance and rehabilitation work plan. A summary of the approximate total localized maintenance quantities is provided in Table 5-1 below.

Table 5-1: LOCALIZED MAINTENANCE QUANTITIES

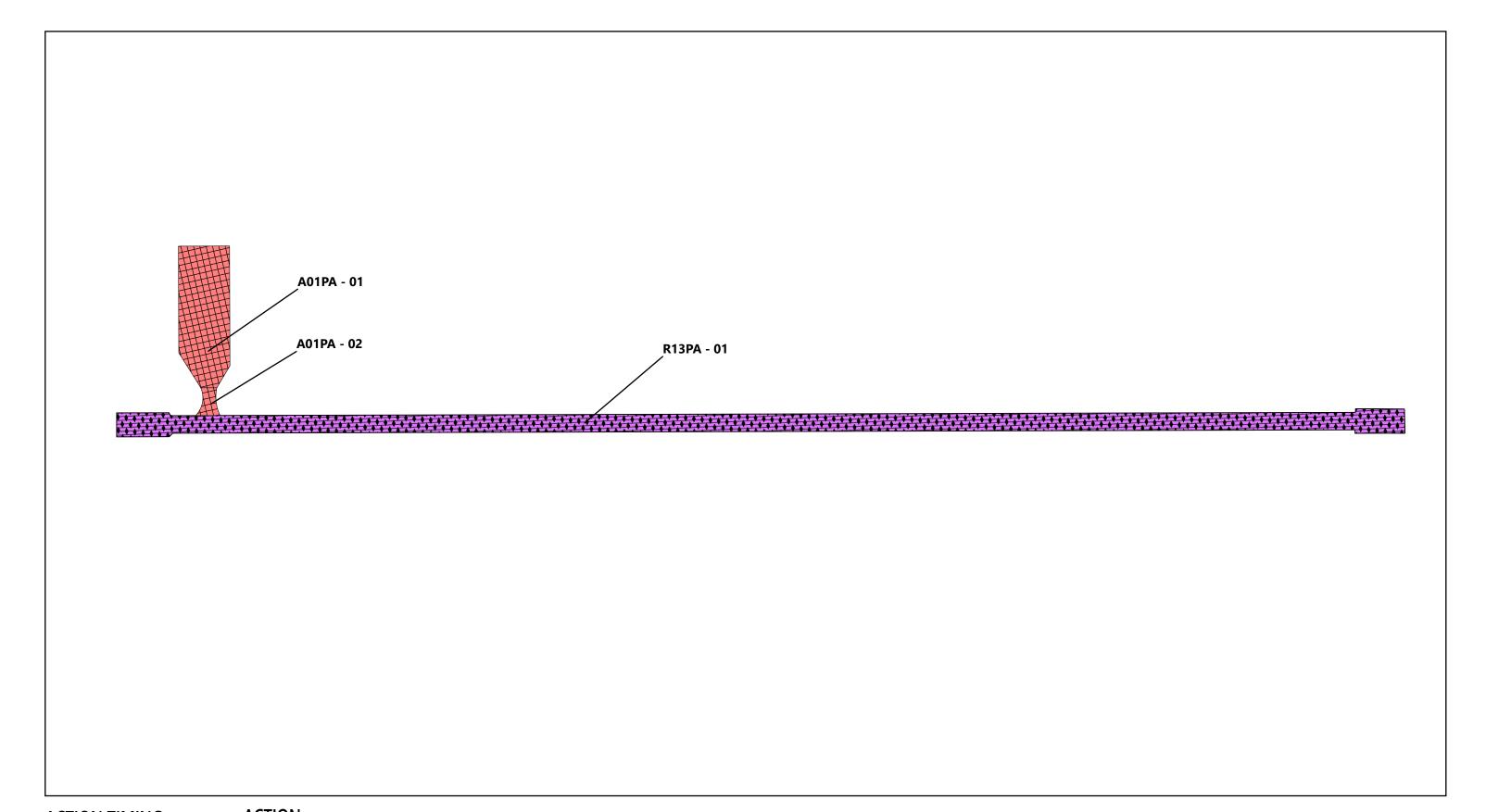
Localized Maintenance Operation	Approximate Quantity
Asphalt Concrete Crack Sealing	108,237 linear feet

5.3 Global Maintenance and Rehabilitation Plan

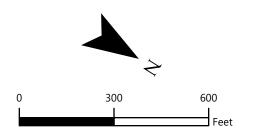
To develop the five-year work plan, we first ran the eliminate backlog scenario with the PAVER M&R Work Planning Module in order to generate a list, organized by year, of global M&R projects. We then reviewed the project list and refined it into practical construction projects for each year. A summary of global M&R quantities is provided in Table 5-2 below, and maps of the project locations by year are shown on the 5-Year Pavement Management Plan, Figure 5.2. The complete list of recommended global M&R projects is presented in Table 4D in Appendix D.

Table 5-2: GLOBAL MAINTENANCE AND REHABILITATION QUANTITIES

Global Maintenance or Rehabilitation Operation	Quantity, square feet
Overlay	272,070
Fog Seal	83,802









5-YEAR PAVEMENT MANAGEMENT PLAN PAISLEY AIRPORT

DEC. 2022 JOB NO. 6593-B

FIG. 5.2



6 LIMITATIONS

This report has been prepared to assist the ODA with pavement-related project planning for the Paisley Airport. The scope is limited to the specific pavement areas described within this report. The conclusions and recommendations provided in this report are based on information provided by ODA, estimated costs, and an understanding of the pavement conditions based solely on visual assessment. The global maintenance and rehabilitation recommendations and project selections provided in this report, as well as their corresponding cost estimates, are based on a practical grouping of projects and an estimate of the structural requirements. It is possible that recommendations based on a structural evaluation would differ materially from the recommendations given herein. Therefore, the information included in this report should be used solely for project planning purposes, and it should be understood that rehabilitation costs may vary from the cost estimates given within this report.

Because the condition of the airport pavement network is dynamic, an effective maintenance and rehabilitation program should be reviewed and updated on a regular basis. In addition to regularly surveying and updating the pavement condition, completed construction activities should be tracked in the PAVER database. If Paisley Airport would like to know more about the results presented in this report, please contact the undersigned.

Submitted for GRI,

RENEWS: 06/2023

Lindsi A. Hammond, PE

Principal

Matthew A. Haynes, PE

Project Engineer

This document has been submitted electronically.



APPENDIX A

Pavement Inventory Reports and Maps



APPENDIX A

PAVEMENT INVENTORY REPORTS AND MAPS

A.1 PAVEMENT NETWORK

Paisley Airport is located in Paisley, Oregon, and is owned and operated by Lake County. The pavement network/facilities at Paisley Airport serve a variety of general aviation and air taxi aircraft. Paisley Airport consists of one runway and one apron. The airside pavements at Paisley Airport are comprised of asphalt concrete (AC).

The current airport pavement management system (APMS) network at Paisley Airport has an approximate area of 355,800 square feet of paved airside facilities. The pavement network has previously been divided (by others) into a hierarchical order of branches, sections, and sample units that facilitate inspection and maintenance planning. The pavement facilities summarized by branch and section are listed in Tables 1A and 2A, respectively. Pavement sections and the sample unit layout for each section are shown on Figure 1A in this appendix.

A.2 BRANCHES

A branch, as defined in the PAVER system, is a facility that is a readily identifiable part of a pavement system and has a distinct function. For airports, branches typically consist of individual runways, taxiways, and aprons. The current pavement network for Paisley Airport contains 2 branches, tabulated in Table 1A and shown on Figure 1A.

A.3 SECTIONS AND SAMPLE UNITS

A pavement section is the smallest management unit used when considering the application and selection of maintenance and rehabilitation (M&R) repairs and treatments and is defined by Section 2.1.8 of ASTM International (ASTM) D5340 as "a contiguous pavement area having uniform construction, maintenance, usage history, and condition." All sections should also have the same traffic volume and load intensity. The current pavement network included in the PAVER database for Paisley Airport contains 3 sections that are managed by Lake County, which are tabulated in Table 2A and shown spatially on Figure 1A.

PAVER assigns a rank, which designates that pavement's prioritization in receiving maintenance and repair. The highest use or priority pavements, such as runways, taxiways, and terminal aprons, are ranked *Primary*, while the surrounding aprons and shoulders are ranked *Secondary* and low-use areas are ranked *Tertiary*. The ranks for all sections are shown on Table 2A.



To facilitate the visual survey of the airport pavement, each section is further subdivided into smaller areas called sample units. Similar sizing of these units is critical, and studies have found that maintaining the size of the sample units to within 40% of the established normal distribution reduces the standard error of the average pavement condition index (PCI) values. To meet this criterion, the ASTM method recommends sample units for flexible pavements be $5,000 \pm 2,000$ square feet and 20 slabs ± 8 slabs for rigid pavements. The delineation of sample units for each section is displayed on Figure 1A.

A.4 SAMPLE UNIT DELINEATION

For an APMS survey, a PCI confidence level of 92% and an allowable error (e) of eight PCI points are used for all airport pavements. To determine the number of sample units that need to be inspected to achieve the required confidence level and allowable error, the following equation is used:

$$n = \frac{N \times s^2}{\left(e^2/4\right)(N-1)+s^2}$$
 (Equation 1)

where:

n = number of sample units to be inspected

N = total number of samples in the pavement sections

e = allowable error

s = section standard deviation

For the 2022 Paisley Airport PCI survey, Table 3A was used as a guideline in developing sampling rates for flexible pavement that reflect similar rates used for other large airport pavement networks. In general, this sampling rate distribution provides a 92% confidence level with a standard error of eight PCI points.

Sample unit locations at Paisley Airport were selected using a systematic random sampling model method. This technique is implemented by first determining the number of sample units needed based on the confidence interval calculated using Equation 1. The first sample unit is randomly placed in the section and then the remaining sample units are systematically spaced throughout the section at an equal distance apart.

Table 1A - PAISLEY PAVEMENT BRANCHES

Facility Designation			Approximate Area,
(Branch ID)	Branch Name	Number of Sections	square feet
A01PA	Apron 01 Paisley	2	83,802
R13PA	Runway 13/31 Paisley	1	272,070



Table 2A - PAISLEY AIRPORT CURRENT PAVEMENT INVENTORY

		Approximate Area, square									
BranchID	Branch Name	Branch Use	SectionID	From	То	Rank	Length, feet	Width, feet	feet	LCD ¹	Surface Type
A01PA	Apron 01 Paisley	APRON	01	Tie-downs	A01PA-02	Р	485	185	78,689	7/28/2001	AC
A01PA	Apron 01 Paisley	APRON	02	A01PA-01	Runway 13/31	Р	95	50	5,113	7/28/2001	AC
R13PA	Runway 13/31 Paisley	RUNWAY	01	Runway 31 End (South)	Runway 13 End (North)	Р	4,400	60	272,070	7/28/2001	AC

Abbreviations:

P = Primary pavement, AC = Asphalt Concrete

Notes

¹ LCD = Last Construction Date. The date of the last major rehabilitation (e.g. overlay)

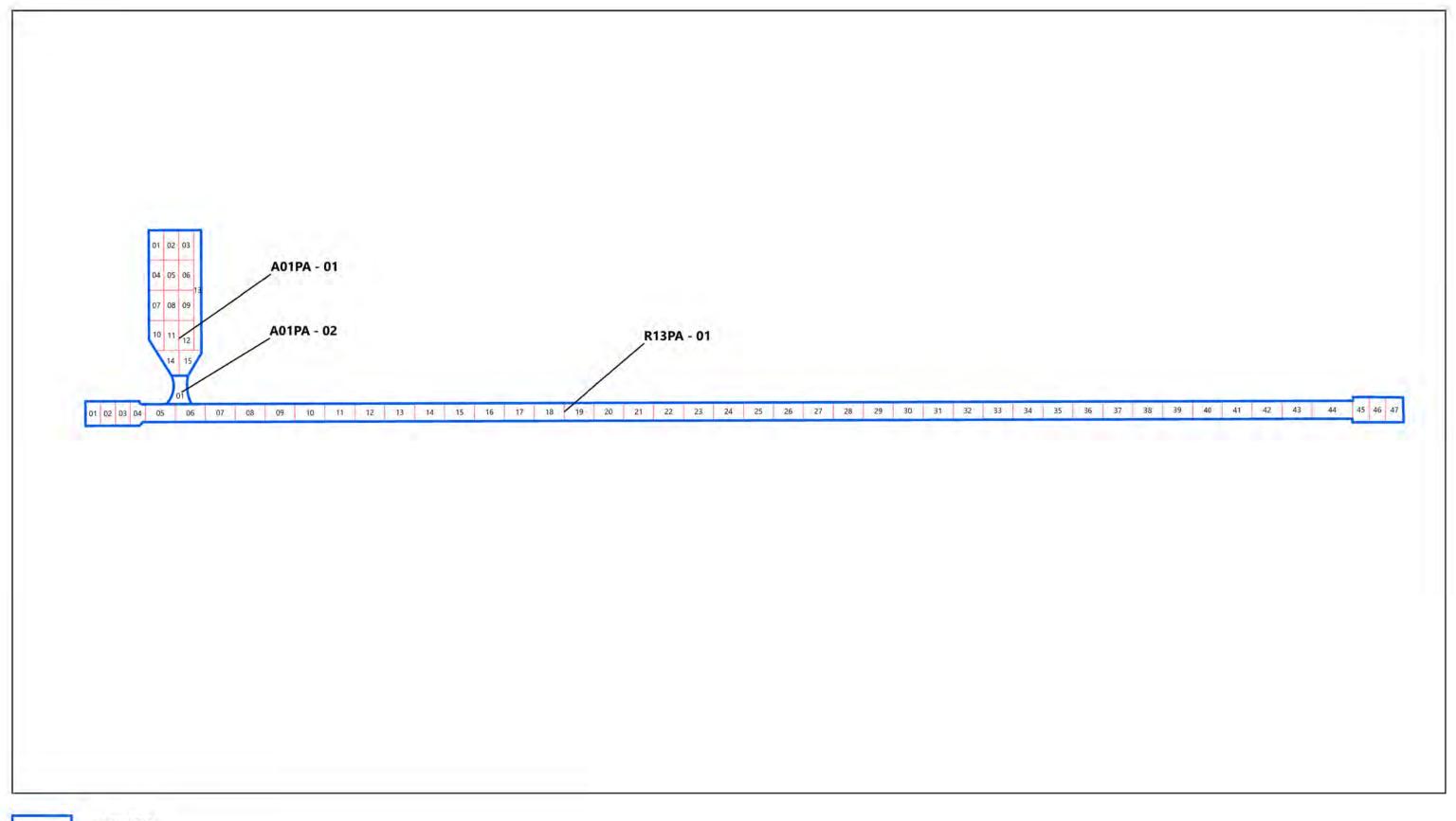




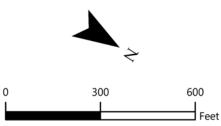
Table 3A: EXAMPLE SAMPLE RATES FOR AC PAVEMENTS

AC Sampling Rate									
Total Number of Sample Units, N	Sample Units to Survey, n								
1	1								
2-3	2								
4-6	3								
7-13	4								
14-38	5								
39+	6								

Note: AC = Asphalt Concrete









DEC. 2022

JOB NO. 6593-B



APPENDIX B

Pavement Condition Index Survey Results



APPENDIX B

PAVEMENT CONDITION INDEX SURVEY RESULTS

B.1 METHODOLOGY

As previously discussed, the PCI is a measure of the pavement's functional surface condition and provides a methodology for assessing the causes of distress and whether the distress is related to a load or climatic conditions. Although the PCI is not a direct measure of structural capacity, it provides a suggestion of the structural needs of the pavement.

The PCI is based on the type, severity, and quantity of each distress found in an inspected sample unit. The results are displayed using a seven-category rating scale in accordance with ASTM D5340. Flexible pavement (e.g., AC) distress types are presented in Table 1B. A summary of the pavement condition results by branch and section are included in Tables 2B and 3B of Appendix B, respectively.

Table 1B: PAVER DISTRESS CODES FOR FLEXIBLE PAVEMENT

Flexible Pavement								
PAVER Code	Pavement Distress	Related Cause						
41	Alligator Cracking	Load						
42	Bleeding	Other						
43	Block Cracking	Climate/ Durability						
44	Corrugation	Other						
45	Depression	Other						
46	Jet Blast	Other						
47	Joint Reflection Cracking	Climate/ Durability						
48	Longitudinal & Transverse Cracking	Climate/ Durability						
49	Oil Spillage	Other						
50	Patching	Climate/ Durability						
51	Polished Aggregate	Other						
52	Raveling	Climate/ Durability						
53	Rutting	Load						



Flexible Pavement									
PAVER Code	Pavement Distress	Related Cause							
54	Shoving	Other							
55	Slippage Cracking	Other							
56	Swelling	Other							
57	Weathering	Climate/ Durability							

To obtain the section PCI, we extrapolated the PCI of each selected sample unit over the entire section area. Distresses found in sample units classified as "additional"— defined as nonrepresentative instead of random— are not extrapolated over the entire section but merely added to the extrapolated quantity. The PCI rating scale presented previously in Table 3-1 of Section 3.1 and are based on ASTM D5340.

Section 4.1 of ASTM D5340 governing PCI surveys offers this caution:

"The PCI is a numerical indicator that rates the surface condition of the pavement. The PCI provides a measure of the **present condition** of the pavement based on the distress observed on the surface of the pavement, which also indicates the structural integrity and surface operational condition (localized roughness and safety). The PCI **cannot** measure the structural capacity; neither does it provide a direct measurement of skid resistance or roughness. It provides an objective and rational basis for determining maintenance and repair needs and priorities. Continuous monitoring of the PCI is used to establish the rate of pavement deterioration, which permits early identification of major rehabilitation needs. The PCI provides feedback on pavement performance for validation or improvement of current pavement design and maintenance procedures."

Based on the limitations of the PCI method, it is imperative that engineers and planners treat the PCI as a tool that will assist them during the M&R planning process. Any major project should always be preceded by an up-to-date, detailed, 100% project-level inspection of the pavement in order to reevaluate maintenance needs prior to the project design process.

B.2 DISTRESS TYPES

Distress tends to fall into one of the following four cause categories:

 Load-related: Flexible pavement distresses include alligator/fatigue cracking, corrugation, depression, polished aggregate, rutting, and slippage cracking. Rigid pavement distresses include corner breaks, longitudinal cracking, divided slabs, polished aggregate, pumping, and joint spalling.



- Climate- and durability-related: Flexible pavement distresses include bleeding, block cracking, joint reflection cracking, longitudinal and transverse (L&T) cracking, swelling, and raveling/weathering. Rigid pavement distresses include blow-ups, durability cracking, longitudinal cracking, pop-outs, pumping, scaling, shrinkage cracks, and joint and corner spalling.
- Moisture- and drainage-related: Flexible pavement distresses include alligator/ fatigue cracking, depressions, potholes, and swelling. Rigid pavement distresses include corner breaks, divided slabs, and pumping.
- Other factors: Oil spillage, jet blast erosion, bleeding, patching, and concrete slab joint faulting.

As described above, a distress may be the result of more than one cause. For example, depressions may be caused by incorrect compaction during construction or by subgrade softening due to environmental factors. In addition, a distress may be initiated by one cause but may progress to a distress of higher severity by another cause. Therefore, engineering judgment is critical in analyzing the actual cause or causes of the distress.

B.3 PAVEMENT CONDITION INDEX SURVEY RESULTS

The evaluated Paisley Airport pavement network consists of 2 branches and 3 sections. A total of 12 sample units were visually inspected in the field. Data from the inspected sample units were input into the PAVER database, and a resultant PCI for each section was computed. Additional details regarding the PCI and distress types observed for each surveyed sample unit are provided in the re-inspection report, Table 1E, in Appendix E. Based on the 2022 PCI survey, the area-weighted average PCI for the entire pavement network at Paisley Airport is approximately 59, which corresponds to a PCI rating of Fair.

To investigate the rate of deterioration of each pavement section we compared the PCI results from the 2022 survey to the PCI results from the previous inspection. The variation in PCI between inspections for Paisley Airport pavement sections is outlined in Table 4B in this appendix.

Table 2B - PAISLEY AIRPORT CURRENT BRANCH CONDITION REPORT

Branch ID	Number of Sections	Approximate Area, square feet	Area Weighted Average Branch PCI	PCI Category	
A01PA	2	83,802	APRON	59	Fair
R13PA	1	272,070	RUNWAY	59	Fair

Use Category	Number of Sections	Total Area, square feet	Area Weighted Average PCI
APRON	2	83,802	59
RUNWAY	1	272,070	59
ALL	3	355.872	59



Table 3B - PAISLEY AIRPORT 2022 PAVEMENT CONDITION INDEX SURVEY RESULTS

							5.61	B01.0	Balayall .	B-01-07-1	
BranchID	SectionID	Last Construction Date	Surface Type	Use	Last Inspection Date	Age at Inspection	PCI	PCI Category	PCI % Climate	PCI % Load	PCI % Other
A01PA	01	7/28/2001	AC	APRON	3/1/2022	21	59	Fair	100	0	0
A01PA	02	7/28/2001	AC	APRON	3/1/2022	21	61	Fair	100	0	0
R13PA	01	7/28/2001	AC	RUNWAY	3/1/2022	21	59	Fair	100	0	0

Abbreviations:

PCI = Pavement Condition Index, AC = Asphalt Concrete



Table 4B - PAISLEY AIRPORT COMPARISON OF PREVIOUS INSPECTION AND 2022 RESULTS

Approximate Area, square				2019 Survey			2	2022 Survey			Rate of	
Branch ID	Section ID	Surface Type ¹	feet	LCD ²	PCI	PCI Category	Insp. Date	PCI	PCI Category	Age ³	Δ PCI/yr ⁴	Deterioration
A01PA	01	AC	78,689	7/28/2001	60	Fair	5/13/2019	59	Fair	18	-0.36	NORMAL
A01PA	02	AC	5,113	7/28/2001	60	Fair	5/13/2019	61	Fair	18	0.36	NONE
R13PA	01	AC	272,070	7/28/2001	91	Good	5/13/2019	59	Fair	18	-11.42	HIGH

Abbreviations:



¹ AC = Asphalt Concrete

 $^{^{2}}$ LCD = Last construction date. The date of the last major pavement rehabilitation (e.g. AC overlay)

³ Age = Pavement age in years at the time of the PCI survey in 2019

 $^{^4}$ Δ PCI/yr = Change in PCI points per year between 2019 survey and 2022 survey



APPENDIX C

Future Pavement Condition Analysis



APPENDIX C

FUTURE PAVEMENT CONDITION ANALYSIS

C.1 METHODOLOGY

In addition to assessing the current condition of a pavement, it is very important from a planning standpoint to be able to predict with reasonable accuracy its future condition. In a pavement management plan (PMP), this is done with the aid of a prediction model. When an APMS is initially implemented, the default models are typically used to predict the future condition of a pavement. However, after PCI surveys are completed, the historical data are then used to refine the models, so they better represent the deterioration of a particular class of pavement based on local climatic conditions, loading, material sources, construction procedures, etc. The importance of accurate prediction models is part of the reason it is essential to conduct periodic, routine surveys in order to track the rate of deterioration.

In PAVER, the pavement deterioration curves are developed based on the "family" model procedure. A pavement "family" is defined as a group of pavements with similar deterioration characteristics. The procedure for developing the prediction models is:

- 1. Define the pavement families.
- 2. Review the data.
- 3. Conduct a data outlier analysis.
- 4. Model the data.

C.2 PREDICTION MODELS

We developed separate condition prediction models for each pavement "family" at Paisley Airport. The delineation is based on branch use, surface type, section rank, and structural design life. We use three distinct models for the following "families" of pavements at Paisley Airport. For each model, we reviewed the data in order to filter out any suspicious or inaccurate data or any data that fall outside boundary values set by PAVER. After outliers are removed and the data are checked for accuracy and reasonableness, the PAVER program calculates a best-fit curve using a fourth-order, polynomial-constrained, least-squares analysis procedure. This best-fit curve for each family is used in the analysis to predict the average behavior of all sections within each "family." Our condition prediction models for each "family" are provided on Figures 1C and 2C below.



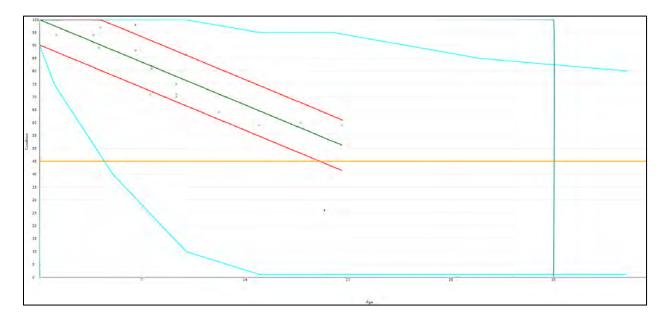


Figure 1C - CONDITION PREDICTION MODEL FOR CENTRAL CATEGORY 5 AC APRONS

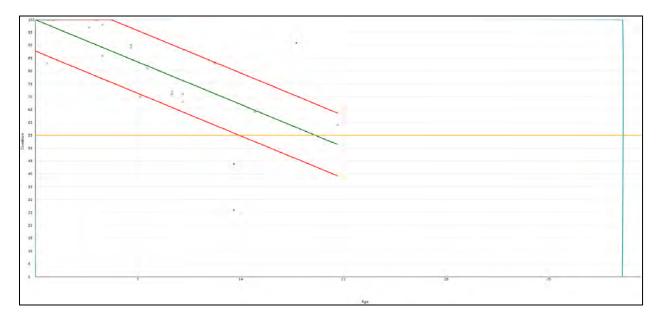


Figure 2C - CONDITION PREDICTION MODEL FOR CENTRAL CATEGORY 5 AC RUNWAYS

C.3 CRITICAL PAVEMENT CONDITION INDEX

Each of the condition-prediction models have an assigned critical PCI. The critical PCI is the point at which the pavement condition begins to deteriorate more quickly over time. As the condition deteriorates to a worse state, major M&R is triggered because the cost to apply localized M&R increases significantly. Pavement sections with PCI above the critical value are given a higher priority for funding during budget analysis in order to



prevent them from deteriorating to the point where more costly rehabilitation is necessary. We used the following critical PCI values at Paisley Airport:

- Runways 55
- Taxiways/Taxilanes 50
- Aprons 45

C.4 FUTURE CONDITION ANALYSIS

As previously discussed, the projected condition of each pavement section was determined for 5-year and 10-year periods. The projected pavement conditions in 5 years and 10 years for each pavement section at Paisley Airport, along with the conditions at the previous inspection, are listed in Table 1C.

C.5 FUNCTIONAL REMAINING LIFE

As mentioned above, functional remaining life is the practical amount of time a pavement is in service before requiring rehabilitation, as estimated based solely on visual condition. This is not to be confused with structural remaining life, which requires analysis of the structural capacity of a pavement.

We calculated two forms of functional remaining life based on the current visual condition surveys of the pavement at Paisley Airport, the time until rehabilitation, and the time until the pavement is no longer operational due to high foreign object debris potential and increased safety concerns for trafficking aircraft (PCI less than 40). The results of the functional life analysis are provided in Table 2C.

Table 1C - PAST, PRESENT, AND FUTURE PCI

		Past Inspection PCI	Current PCI	Predicted Future PCI	
BranchID	SectionID	2019	2022	2027	2032
A01PA	01	60	59	47	35
A01PA	02	60	61	49	37
R13PA	01	91	59	47	35

Abbreviations:

PCI = Pavement Condition Index



Table 2C - PAISLEY AIRPORT FUNCTIONAL REMAINING LIFE ANALYSIS

		Surface	Current	Years to Major	Major M&R	Years to End of
Branch ID	Section ID	Туре	PCI	M&R	Trigger PCI ¹	Functional Service
A01PA	01	AC	59	0 - 5	45	6 - 10
A01PA	02	AC	61	6 - 10	45	6 - 10
R13PA	01	AC	59	0 - 5	55	6 - 10

Abbreviations:

M&R = Maintenance and Rehabilitation, AC = Asphalt Concrete



¹ Major M&R Trigger PCI = Critical PCI



APPENDIX D

Unit Cost Data and Maintenance and Rehabilitation Plan



APPENDIX D

UNIT COST DATA AND MAINTENANCE AND REHABILITATION PLAN

D.1 ANALYSIS METHODOLOGY

We evaluated the M&R needs, as determined from the PAVER analysis results, in order to develop project recommendations for the next five years. The purpose of this analysis is to determine the M&R needs of the Paisley Airport pavement network condition over time. We used PAVER v7 software to develop network-level project recommendations for the next five years.

The PAVER M&R Work Planning Module identifies when and where M&R is required and how much it will cost. M&R plans can be developed either by assuming an annual budget or by identifying specific constraints, such as a condition goal to determine the budget required to meet the goal. The M&R work planning analysis was based on a five-year period beginning on August 1, 2023. A backlog elimination analysis scenario was selected to generate a list of global maintenance and rehabilitation projects in order to optimize the allocation of capital and establish preservation-based project recommendations. The repair strategies considered for pavement sections in our analysis are as follows:

- Reconstruction Considered for pavements with a PCI less than 40.
- Flexible Overlay Considered for pavements between 40 PCI and the critical PCI, and for pavements exhibiting significant load-related distresses.
- Global Maintenance Treatments (fog seal, slurry seal, thin AC overlay) applied to an entire pavement section with the intent of slowing the rate of deterioration.
- Localized Maintenance Maintenance performed on a routine basis such as crack sealing, wide crack repair, and patching.

It should be noted that the five-year list of recommended projects only includes the highest-cost maintenance items and does not include routine localized maintenance (e.g., crack sealing) work that should also be conducted in addition to and concurrently with the five-year work plan.

D.1.1 Pavement Rank and Use Prioritization

Pavement sections are assigned a rank to establish their relative importance in the overall pavement network, which is most commonly defined by their use (e.g., Taxiway, Apron, Runway). The PAVER analysis uses the combination of the section rank and the branch use



to define the priority of each section during the M&R analysis. Table 1D displays the branch use and section rank prioritization schema we used for analysis.

Table 1D: M&R WORK PRIORITY BY BRANCH USE AND SECTION RANK

	Section Rank							
Branch Use	Primary	Secondary	Tertiary					
RUNWAY	1	3	6					
TAXIWAY	2	5	8					
APRON	4	7	9					

D.2 MAINTENANCE POLICIES AND UNIT COSTS

The distress-maintenance policies are policies that determine what type of work should be applied to a specific distress type and severity. For example, on an AC pavement, a medium-severity longitudinal/transverse crack would be repaired by crack sealing. Policies for all the distress types and severities are established by ASTM D5340.

Although our work scope does not include budget analysis, we did assign construction costs to the maintenance work so that PAVER would allocate M&R projects that were approximately equal in cost for each year of the five-year period. The anticipated cost of performing M&R is based on cost tables that relate M&R work type cost to PCI. We reviewed the unit costs from the 2019 report and updated them by reviewing the bid tabulations for recent projects within the vicinity of Paisley Airport and information provided by the project team. The costs for reconstruction are based on the existing pavement sections present within each branch use at Paisley Airport. The costs represent the fully-loaded costs and include aspects of the project such as administration, contingencies, mobilization, and striping. The cost tables used in the analysis are presented in Table 2D below.



Table 2D: PAISLEY AIRPORT UNIT COST DATA

Type of M&R	Work Type	Unit Cost	Work Unit
Maior MARID	Complete Reconstruction with AC	\$11.10	Sq Ft
Major M&R	Cold Mill and Overlay – 3 Inches Thick	\$4.90	Sq Ft
Chalad MOD	Surface Treatment - Slurry Seal	\$0.33	Sq Ft
Global M&R	Surface Treatment - Fog Seal	\$0.20	Sq Ft
	Crack Sealing - AC	\$2.00	Ft
	Crack Sealing - PCC	\$15.00	Ft
Localized Preventive M&R	Crack Sealing – Wide Cracks	\$33.00	Ft
r reventive wax	AC Patching – Full Depth	\$50.00	Sq Ft
	PCC Patching – Full Depth	\$100.00	Sq Ft

D.3 RECOMMENDED LOCALIZED MAINTENANCE

In order to properly maintain aging pavements, localized M&R activities such as crack sealing and patching should be performed on a routine basis. A list of recommended localized maintenance activities is provided in Table 3D of this appendix.

D.4 RECOMMENDED GLOBAL MAINTENANCE AND REHABILITATION PROJECTS

Global maintenance and rehabilitation projects refer to activities such as slurry seal and thin AC overlays, as well as thick AC overlays and reconstruction. A list of recommended global M&R activities is provided in Table 4D of this appendix.

Table 3D - PAISLEY AIRPORT NETWORK MAINTENANCE REPORT

Network	Branch ID	Section ID	Distress	Severity	Action	Work Quantity	Unit	Unit Cost	Work Cost	Section Total
Paisley	A01PA	01	Block Cracking	Low	Crack Sealing - AC	23,984	Ft	\$2.00	\$47,969	\$47,969
Paisley	A01PA	02	Block Cracking	Low	Crack Sealing - AC	1,326	Ft	\$2.00	\$2,652	\$2,652
Paisley	R13PA	01	Block Cracking	Low	Crack Sealing - AC	82,927	Ft	\$2.00	\$165,854	\$165,854

AC = Asphalt Concrete; Ft = Feet



Table 4D - FIVE-YEAR GLOBAL MAINTENANCE AND REHABILITATION PLAN

Action Year	Branch ID	Section ID	Branch Use	Surface Type	Current PCI	Action	Area, square feet	Unit Cost per square foot	Total Cost
2023	A01PA	01	APRON	AC	59	Fog Seal	78,689	\$0.20	\$15,738
2023	A01PA	02	APRON	AC	61	Fog Seal	5,113	\$0.20	\$1,023
2027	R13PA	01	RUNWAY	AC	59	Overlay	272,070	\$4.90	\$1,333,063

Abbreviations:

PCI = Pavement Condition Index, AC = Asphalt Concrete

Cost Summary	
2023 Total Project Cost	\$16,761
2024 Total Project Cost	\$0
2025 Total Project Cost	\$0
2026 Total Project Cost	\$0
2027 Total Project Cost	\$1,333,063
Total 5-Year Project Cost	\$1,349,824





APPENDIX E

Re-Inspection Report

Re-Inspection Report

 $ODA_WOC3_9-1-2022_PostBendAnalysis$

Page 1 of 4 **Generated Date** 9/30/2022

Network: Paisley	9/30/2022	Name:	Paisley		
Branch: A01PA	Name:	Apron 01 Paisley	-	PRON Are	ea: 167,604 SqFt
Section: 01x		From: Runway 13/31		To: Tie-downs	Last Const.: 7/28/2001
Surface: AC		-	28	Category: M	Rank: P
Area: 83,80	2 SqFt Length:	580 Ft	Width:	175 Ft	
Slabs:	Slab Length:	Ft Slab Wi	idth:	Ft	Joint Length: Ft
Shoulder:	Street Type:	Grade:	0		Lanes: 0
Section Comments:					
Work Date: 7/28/2001	Work Type: New	Construction - AC	Code	: NC-AC	Is Major M&R: True
Work Date: 7/28/2001	Work Type: Base	Course - Aggregate	Code	: BA-AG	Is Major M&R: False
Work Date: 9/1/2001	Work Type: Surfa	ace Treatment - Slurry Seal	Code	: ST-SS	Is Major M&R: False
Work Date: 6/1/2011	Work Type: Crac	k Sealing - AC	Code	: CS-AC	Is Major M&R: False
Last Insp. Date: 3/1/2022	TotalS	amples: 16	Surveyed:	6	
Conditions: PCI: 59					
Inspection Comments:					
Sample Number: 01	Type: R	Area:	5000.00 SqFt	PCI: 59	
Sample Comments:					
43 BLOCK CR	L	5000.00 SqFt			
52 RAVELING	L	5000.00 SqFt			
Sample Number: 05	Type: R	Area:	5000.00 SqFt	PCI: 59	
Sample Comments:					
52 RAVELING	L	5000.00 SqFt			
43 BLOCK CR	L Types P	5000.00 SqFt	5000 00 S~E+	DCI. 50	
Sample Number: 09	Type: R	Area:	5000.00 SqFt	PCI: 59	
Sample Comments:	_	- 000 00 0 =			
43 BLOCK CR52 RAVELING	L L	5000.00 SqFt 5000.00 SqFt			
Sample Number: 11	Type: R	Area:	5000.00 SqFt	PCI: 59	
Sample Comments:	2 JP0. 10			2 02.	
52 RAVELING	L	5000.00 SqFt			
43 BLOCK CR	L	5000.00 SqFt			
Sample Number: 12	Type: R	Area:	5000.00 SqFt	PCI: 59	
Sample Comments:					
52 RAVELING	L	5000.00 SqFt			
43 BLOCK CR	L D	5000.00 SqFt	4250 00 G E	DCI. 50	
Sample Number: 16	Type: R	Area:	4350.00 SqFt	PCI: 59	
Sample Comments:					
43 BLOCK CR	L	4350.00 SqFt			
52 RAVELING	L	4350.00 SqFt			

Network: Paisley		Name:	Paisley		
Branch: A01PA	Name:	Apron 01 Paisley	Use:	APRON A	rea: 167,604 SqFt
Section: 01	of 3	From: Tie-downs		To: A01PA-02	Last Const.: 7/28/2001
Surface: AC	Family: 2022_Central on_AC/AAC	_Cat4/5_Apr Zone:	22S	Category: M	Rank: P
Area: 78,6	89 SqFt Length:	485 Ft	Width:	185 Ft	
Slabs:	Slab Length:	Ft Slab	Width:	Ft	Joint Length: Ft
Shoulder:	Street Type:	Gra	de: 0		Lanes: 0
Section Comments:					
Work Date: 7/28/2001	Work Type: Base	e Course - Aggregate	Со	de: BA-AG	Is Major M&R: False
Work Date: 7/28/2001	Work Type: New	Construction - AC	Со	de: NC-AC	Is Major M&R: True
Work Date: 9/1/2001	Work Type: Surf	ace Treatment - Slurry Se	eal Co	de: ST-SS	Is Major M&R: False
Work Date: 6/1/2011	Work Type: Crae	ck Sealing - AC	Со	de: CS-AC	Is Major M&R: False
Last Insp. Date: 3/1/2022	Totals	Samples: 16	Surveyed	l: 5	
Conditions: PCI: 59					
Inspection Comments:					
Sample Number: 01	Type: R	Area:	5000.00 SqFt	PCI: 59	
Sample Comments:					
43 BLOCK CR	L	5000.00 SqFt			
52 RAVELING	L	5000.00 SqFt			
Sample Number: 05	Type: R	Area:	5000.00 SqFt	PCI: 59	
Sample Comments:					
52 RAVELING	L	5000.00 SqFt			
43 BLOCK CR	L	5000.00 SqFt			
Sample Number: 09	Type: R	Area:	5000.00 SqFt	PCI: 59	
Sample Comments:					
52 RAVELING	L	5000.00 SqFt			
43 BLOCK CR	L	5000.00 SqFt			
Sample Number: 11	Type: R	Area:	5000.00 SqFt	PCI: 59	
Sample Comments:					
52 RAVELING	L	5000.00 SqFt			
43 BLOCK CR	L	5000.00 SqFt	5000 00 7 7	D. 22 - 22	
Sample Number: 12	Type: R	Area:	5000.00 SqFt	PCI: 59	
Sample Comments:					

RAVELING BLOCK CR

52 43 L L 5000.00 SqFt 5000.00 SqFt

Network:	Paisley				Name	: Pais	sley							
Branch:	A01PA		Name:	Apron	01 Paisle	у	Use	: Al	PRON	A	Area:	167	7,604 SqFt	
Section:	02	0	of 3	From:	A01PA-0	1			To:	Runway 13/	/31		Last Const.:	7/28/2001
Surface:	AC	Family:	2022_Central on_AC/AAC		r Zone:	22S			Categ	ory: M			Rank: P	
Area:		5,113 SqFt	Length	:	95 Ft		Width:			50 Ft				
Slabs:		Slab Ler	ngth:	Ft	5	Slab Width:			Ft		Joint I	ength:	I	
Shoulder:		Street T	ype:		(Grade: 0					Lanes:	0		
Section Co	omments:													
Work Dat	e: 7/28/200	u w	ork Type: New	w Constructi	on - AC			Code:	NC-A	кC	Is	Major M	&R: True	
Work Dat	e: 7/28/200	ı w	ork Type: Bas	se Course - A	ggregate			Code:	BA-A	. G	Is	Major M	&R: False	
Work Dat	e: 9/1/2001	W	ork Type: Sur	face Treatme	ent - Slurr	y Seal		Code:	ST-S	S	Is	Major M	&R: False	
Work Dat	e: 6/1/2011	W	ork Type: Cra	ck Sealing -	AC			Code:	CS-A	C	Is	Major M	&R: False	
Last Insp.	Date: 3/1/	2022	Total	Samples:	16		Surve	yed:	1					
Condition	s: PCI:	61												
Inspection	Comments	:												
Sample N	umber: 16	Tyj	pe: R	I	Area:	511:	3.00 SqFt		P	PCI: 61				
Sample Co	omments:													
	OCK CR		L	4350.00										
52 RA	VELING		L	4350.00	sqrt									

Network:	Paisley				Nar	ne:	Paisley						
Branch:	R13PA		Nam	e: Run	way 13/3	1 Paisley	U	se: RU	UNWAY	Area:	272,07	0 SqFt	
Section: (01	of 1		From:	Runwa	y 31 End	(South)		To: Runw	ay 13 End (Nor	th) Las	t Const.:	7/28/2001
Surface:	AC		22_Ce \C/AA	ntral_Cat4/5_R C	W Zor	ie: 22	2S		Category:	M	Rai	nk: P	
Area:	272,07	70 SqFt	Len	igth:	4,400 1	₹t	Width:		60 Ft				
Slabs:		Slab Length		F	t	Slab Wi	idth:		Ft	Joint	Length:	F	t
Shoulder:		Street Type:				Grade:	0			Lane	es: 0		
Section Con	nments:												
Work Date:	: 7/28/2001	Work	Type:	New Construc	tion - AC			Code:	NC-AC	1	s Major M&R	True	
Work Date:	: 7/28/2001	Work	Type:	Base Course -	Aggrega	te		Code:	BA-AG	1	s Major M&R	False	
Work Date:	: 9/1/2001	Work	Type:	Surface Treatr	nent - Slu	ırry Seal		Code:	ST-SS	1	s Major M&R	False	
Work Date:	: 9/1/2011	Work	Type:	Crack Sealing	- AC			Code:	CS-AC	1	s Major M&R	False	
Work Date:	: 9/2/2011	Work	Type:	Surface Treatr	nent - Slu	ırry Seal		Code:	ST-SS	1	s Major M&R	False	
Work Date:	: 9/1/2017	Work	Type:	Crack Sealing	- AC			Code:	CS-AC]	s Major M&R	False	
Work Date:	: 9/2/2017	Work	Type:	Oregon Slurry	Seal			Code:	OR-SS	1	s Major M&R	False	
Last Insp. I Conditions: Inspection (Т	otalSamples:	47		Sur	veyed:	6				
Sample Nur		Type:	R		Area:		4200.00 SqF	t	PCI:	59			
Sample Cor	mments:												
	ATHERING OCK CR		L L		0 SqFt 0 SqFt								
Sample Nui	mber: 09	Type:	R		Area:		6000.00 SqF	t	PCI:	59			
Sample Cor	mments:												
	OCK CR ATHERING		L L		0 SqFt 0 SqFt								
Sample Nur	mber: 17	Type:	R		Area:		6000.00 SqF	t	PCI:	59			
Sample Cor	mments:												
	ATHERING OCK CR		L L		0 SqFt 0 SqFt								
Sample Nui		Type:	R		Area:		6000.00 SqF	t	PCI:	59			
Sample Cor							1						
	ATHERING OCK CR		L L		0 SqFt 0 SqFt								
Sample Nui		Type:	R		Area:		6000.00 SqF	t	PCI:	59			
Sample Cor		J.F.					r						
57 WEA	ATHERING OCK CR		L L		0 SqFt 0 SqFt								
Sample Nui		Type:	R		Area:		6000.00 SqF	t	PCI:	59			
Sample Cor		- J P 34	20				1 -						
43 BLO	OCK CR ATHERING		L L		0 SqFt 0 SqFt								



APPENDIX F

Work History Report

Work History Report

Page 1 of 2

Pavement Database: ODA_WOC3_10-07-2022_PostDetCurves

Network: Paisley		Branch: A01PA	Apron	01 Paisley	Section:	01 Surface:AC
L.C.D. 7/28/	2001 Us	se: APRON Rank: P L	ength: 485	.00 (Ft) Wie	dth: 185.0	0 (Ft) True Area: 78689.00002 (SqFt
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
6/1/2011	CS-AC	Crack Sealing - AC	0.00	0.00		PMP 2011
9/1/2001	ST-SS	Surface Treatment - Slurry Seal	27,541.15	0.50		
7/28/2001	NC-AC	New Construction - AC	0.00	5.00	>	Unknown depth, est. 5"
7/28/2001	BA-AG	Base Course - Aggregate	0.00	0.00		Unknown base
			II.			
Network:	Paisley	Branch: A01PA	Apron	01 Paisley	Section:	02 Surface:AC
L.C.D. 7/28/	2001 Us	se: APRON Rank: P L	ength: 95	.00 (Ft) Wi	dth: 50.0	0 (Ft) True Area: 5113.000001 (SqFt
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
6/1/2011	CS-AC	Crack Sealing - AC	0.00	0.00		PMP 2011
9/1/2001	ST-SS	Surface Treatment - Slurry Seal	1,789.55	0.50		
7/28/2001	NC-AC	New Construction - AC	0.00	5.00	>	Unknown depth est. 5"
7/28/2001	BA-AG	Base Course - Aggregate	0.00	0.00		Unknown base
			I			
Network:	Paisley	Branch: R13PA	Runwa	ay 13/31 Pais	Section:	01 Surface:AC
L.C.D. 7/28/	2001 Us	se: RUNWAY Rank: P L	ength: 4,400	.00 (Ft) Wi	dth: 60.0	0 (Ft) True Area: 272070.0000 (SqFt
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
9/2/2017	OR-SS	Oregon Slurry Seal	0.00	0.00		
9/1/2017	CS-AC	Crack Sealing - AC	0.00	0.00		
9/2/2011	ST-SS	Surface Treatment - Slurry Seal	0.00	0.00		PMP 2011
9/1/2011	CS-AC	Crack Sealing - AC	0.00	0.00		PMP 2011
9/1/2001	ST-SS	Surface Treatment - Slurry Seal	0.00	0.50		
7/28/2001	NC-AC	New Construction - AC	0.00	5.00	V	Unknown depth, est. 5"
7/28/2001	BA-AG	Base Course - Aggregate	0.00	0.00		Unknown base

Pavement Management System PAVER 7.0 TM

Work History Report

Page 2 of 2

Pavement Database: ODA_WOC3_10-07-2022_PostDetCurves

Summary:

Work Description	Section Count	Area Total (SqFt)	Thickness Avg (in)	Thickness STD (in)
Base Course - Aggregate	3	355,872.00	0.00	0.00
Crack Sealing - AC	4	627,942.00	0.00	0.00
New Construction - AC	3	355,872.00	5.00	0.00
Oregon Slurry Seal	1	272,070.00	0.00	0.00
Surface Treatment - Slurry Seal	4	627,942.00	0.37	0.22

Pavement Management System PAVER 7.0 TM