2022 ODA Pavement Evaluation Program
Chiloquin State Airport

Chiloquin, Oregon

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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 Chiloquin State Airport in Chiloquin, 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 Chiloquin 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

Chiloquin State Airport is located in Chiloquin, Oregon, and is owned and operated by ODA. The airport consists of one runway that serves a variety of general aviation aircraft. The general location of the airport is shown on the Chiloquin State Airport Location Map, Figure 2.1 below.

Figure 2.1 – CHILOQUIN STATE AIRPORT LOCATION MAP

Chiloquin Airport contains one runway and multiple connector taxiways and aprons. The airside pavements are surfaced with asphalt concrete (AC). The airport pavements, delineated by surface type and branch use, are shown on the Chiloquin Airport Percent of Total Pavement Area by Surface Type, Figure 2.2 and the Chiloquin Airport Pavement Area by Branch Use, Figure 2.3. The pavement inventory, including work history for each pavement section, is displayed spatially on the Chiloquin 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.

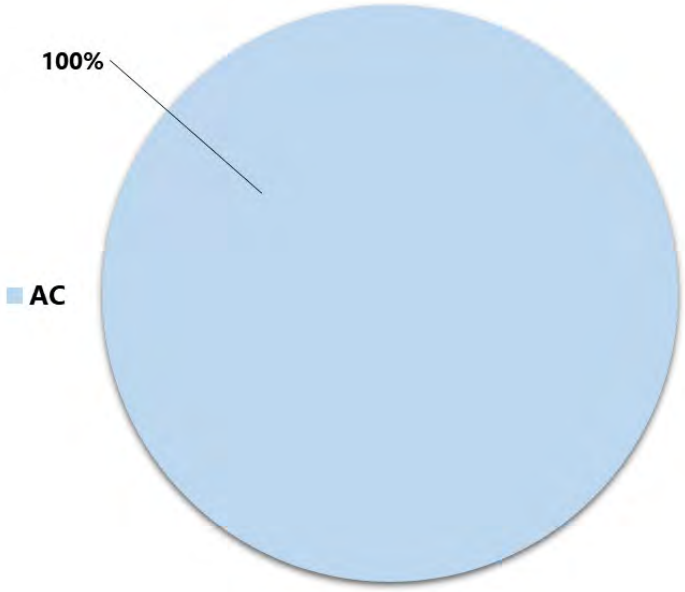


Figure 2.2 – CHILOQUIN AIRPORT PERCENT OF TOTAL PAVEMENT AREA BY SURFACE TYPE

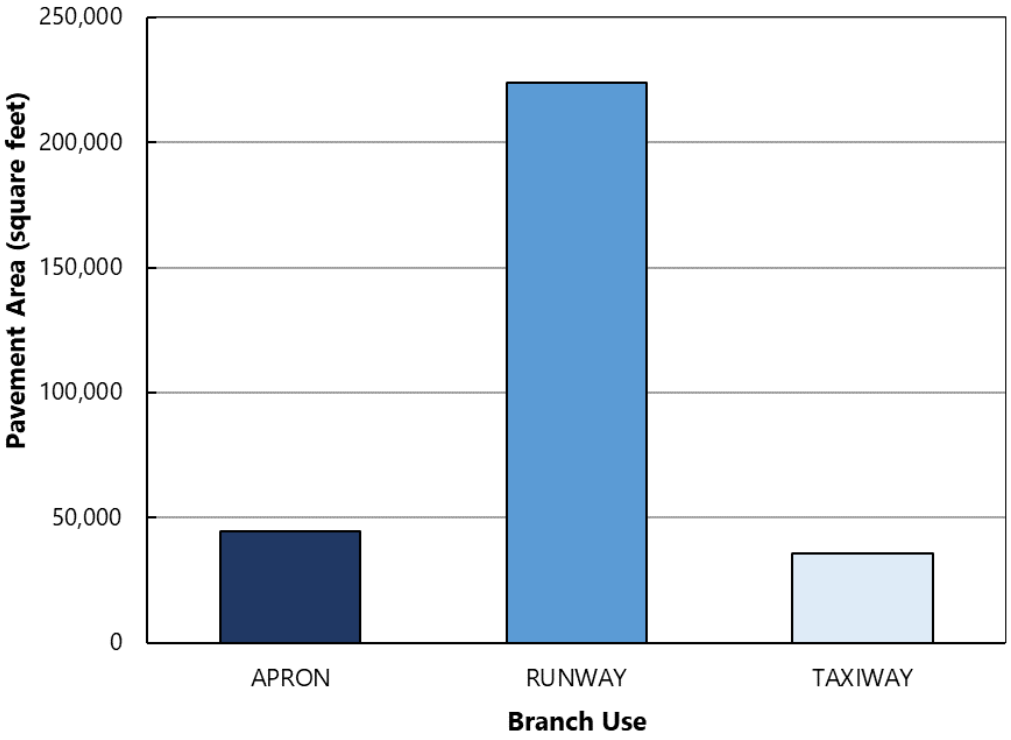
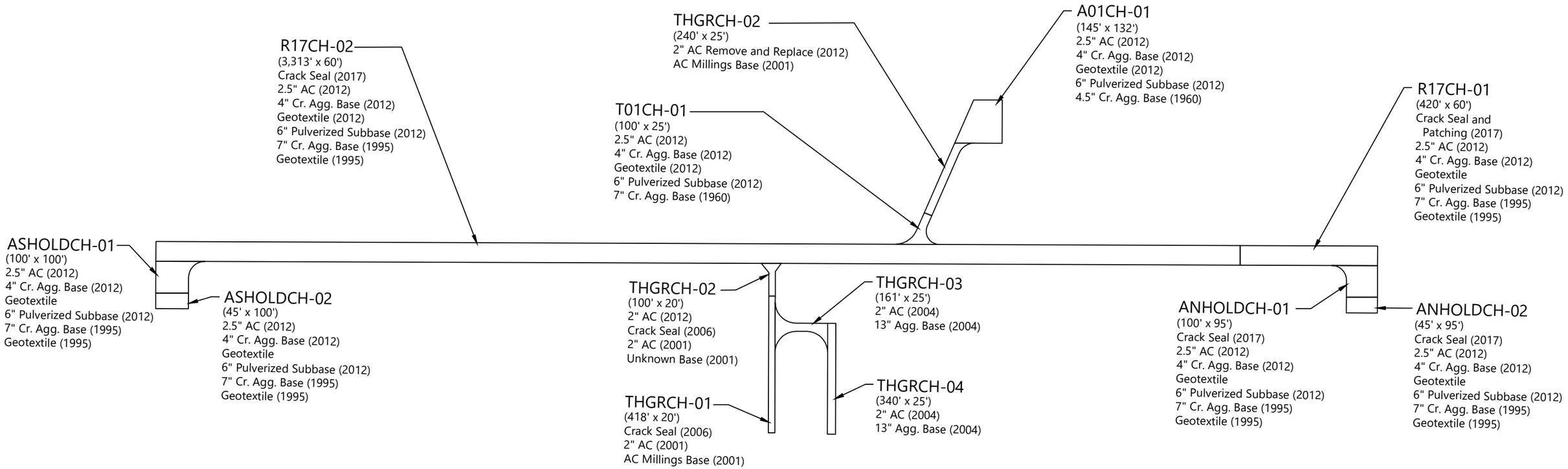
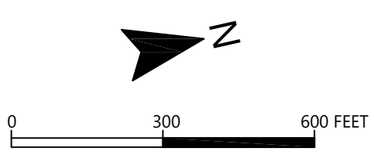


Figure 2.3 – CHILOQUIN AIRPORT PAVEMENT AREA BY BRANCH USE



Abbreviations: AC = Asphalt Concrete; Cr. = Crushed; Agg. = Aggregate



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CHILOQUIN 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 Chiloquin Airport in March 2022. The 2022 survey work was performed on sections last inspected in 2019 in order to update the Chiloquin 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.

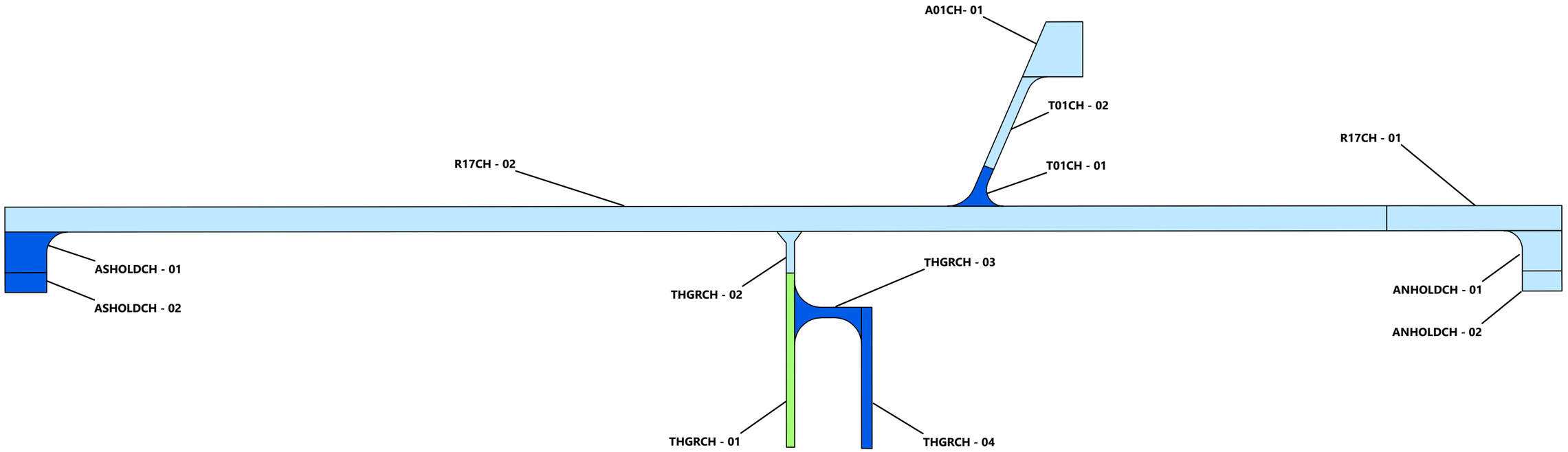
The PCI is based on the type, severity, and quantity of each distress found in an inspected sample unit. Further discussion of distress types for flexible pavement is provided in Appendix B and summarized in Table 1B. The results of the PCI survey are displayed using a seven-category rating scale in 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 Chiloquin Airport is approximately 71. The section PCIs ranged from a low of 52 to a high of 75. The primary distresses observed during the inspection were weathering and longitudinal and transverse cracking. Section PCIs following our pavement survey are displayed below spatially on the 2022 PCI Survey Results, Figure 3.1.



2022 SECTION PCI

- (86 - 100) GOOD
- (71 - 85) SATISFACTORY
- (56 - 70) FAIR
- (41 - 55) POOR
- (26 - 40) VERY POOR
- (11 - 25) SERIOUS
- (0 - 10) FAILED

N

0 250 500 Feet

OREGON DEPARTMENT OF AVIATION
STATEWIDE PAVEMENT EVALUATION PROGRAM

2022 PCI SURVEY RESULTS

CHILOQUIN 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 Chiloquin 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.

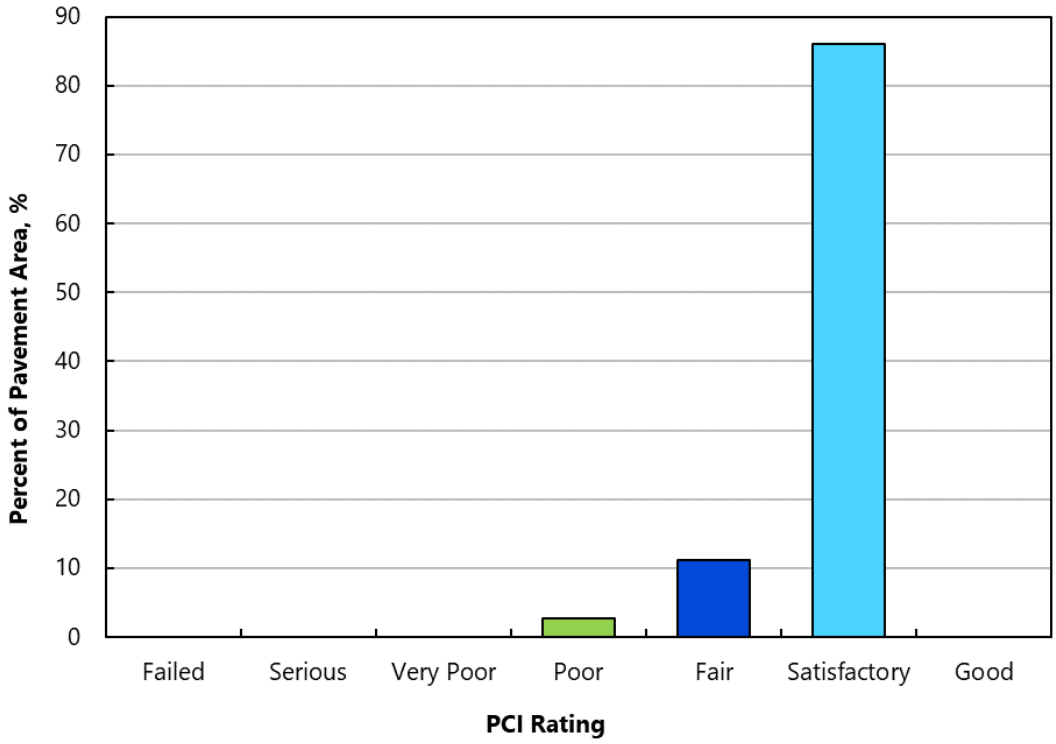


Figure 3.2 – CHILOQUIN AIRPORT PAVEMENT CONDITION RATING BY PERCENT OF PAVEMENT AREA

4 FUTURE PAVEMENT CONDITION ANALYSIS

4.1 Introduction

In addition to assessing the current condition of 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 Chiloquin Airport are displayed on Figures 1C through 3C 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 71 to a value of 59 in the year 2027

and 48 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 Chiloquin 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.

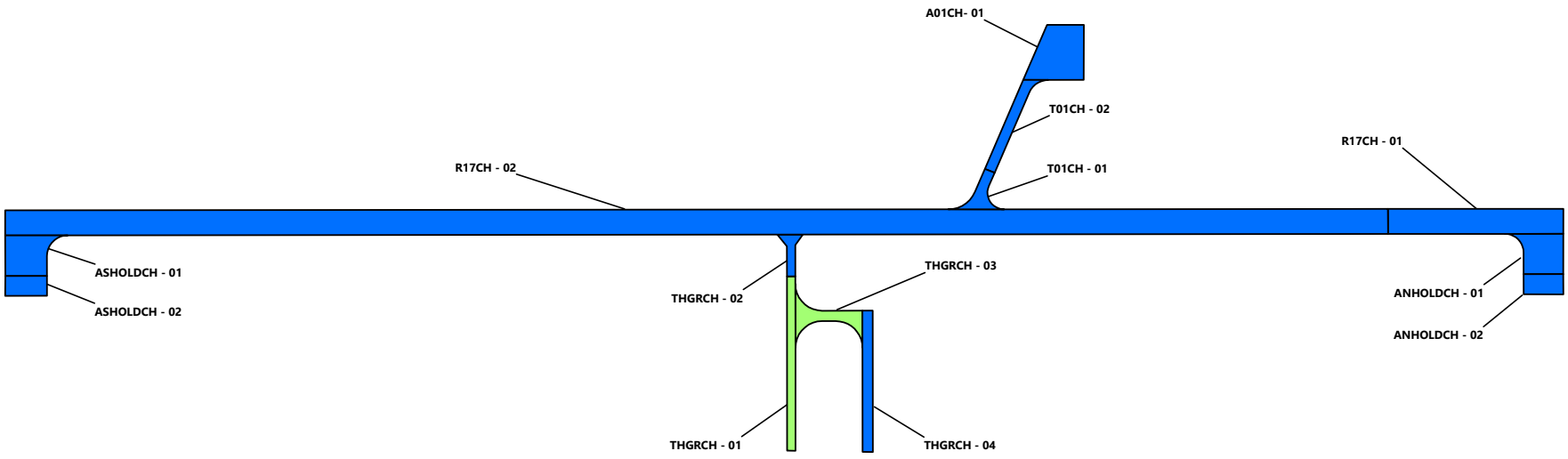
4.3 Functional Remaining Life

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.

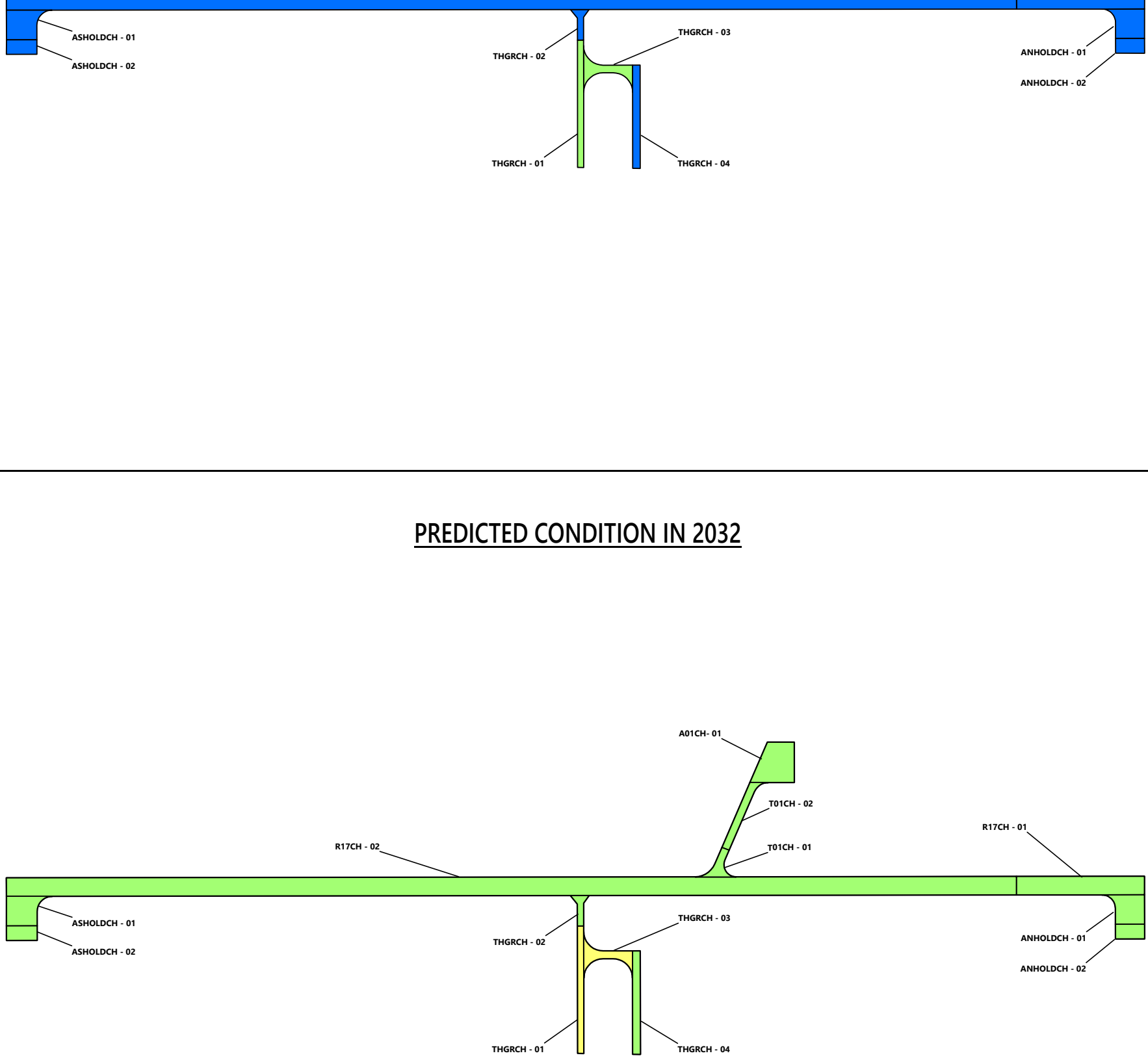
We calculated two forms of functional remaining life based on the current visual condition surveys of the pavement at Chiloquin Airport. The first type of functional remaining life is the time until rehabilitation such as an overlay is needed. The critical PCI, further discussed in Section C.3 of Appendix 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 Chiloquin Airport are summarized in Table 2C in Appendix C.

PREDICTED CONDITION IN 2027



PREDICTED CONDITION IN 2032



SECTION PCI

- (86 - 100) GOOD
- (71 - 85) SATISFACTORY
- (56 - 70) FAIR
- (41 - 55) POOR
- (26 - 40) VERY POOR
- (11 - 25) SERIOUS
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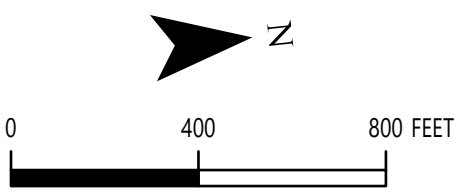

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FUTURE PAVEMENT CONDITION

CHILOQUIN AIRPORT

DEC. 2022 JOB NO. 6593-B FIG. 4.1

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 5-Year Pavement Management Plan Chiloquin Airport, Figure 5.1 displays a breakdown of the Chiloquin Airport network pavement condition by percent of area and general M&R treatment categories. Approximately 86%, 14%, and 0% of the area require preservation treatments, rehabilitation, and reconstruction, respectively.

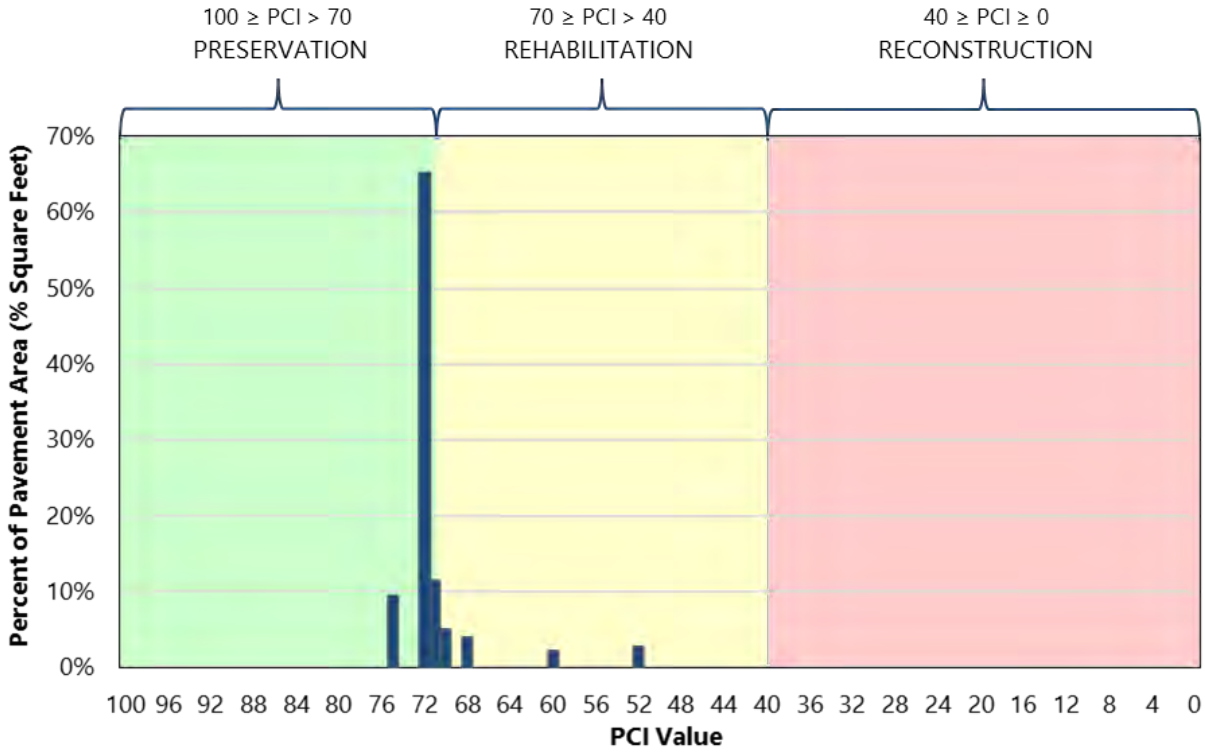


Figure 5.1 – CHILOQUIN AIRPORT PAVEMENT NETWORK GENERAL TREATMENT TYPE DISTRIBUTION BASED ON PCI

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

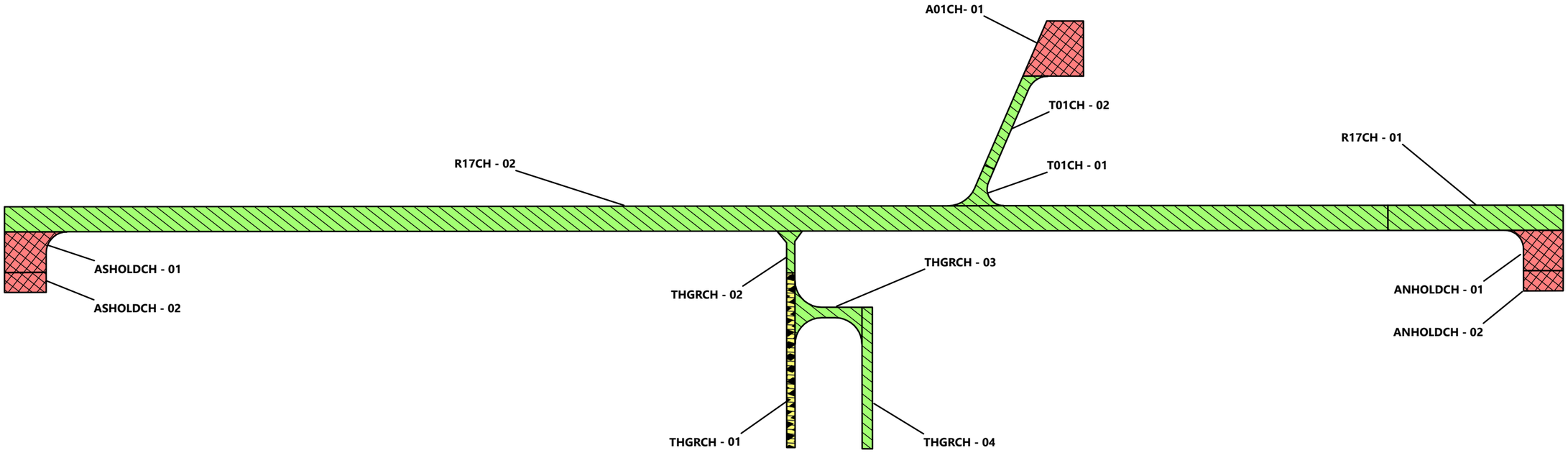
Localized Maintenance Operation	Approximate Quantity
Asphalt Concrete Crack Sealing	5,082 linear feet
Asphalt Concrete Wide Crack Sealing	1,448 linear feet

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 Chiloquin Airport, 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
Reconstruction	0
Overlay	8,360
Fog Seal	44,611
Slurry Seal	251,526



ACTION TIMING

- 2023
- 2024
- 2025
- 2026
- 2027

ACTION

- FOG SEAL
- SLURRY SEAL
- OVERLAY
- RECONSTRUCTION
- ROUTINE MAINTENANCE

N

0 250 500 Feet

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STATEWIDE PAVEMENT EVALUATION PROGRAM

5-YEAR PAVEMENT MANAGEMENT PLAN
CHILOQUIN AIRPORT

DEC. 2022 JOB NO. 6593-B FIG. 5.2

6 LIMITATIONS

This report has been prepared to assist the Oregon Department of Aviation (ODA) with pavement-related project planning for the Chiloquin State Airport. The scope is limited to the specific pavement areas described herein. 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 Chiloquin Airport would like to know more about the results presented in this report, please contact the undersigned.

Submitted for GRI,

RENEWS: 06/2023

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This document has been submitted electronically.

APPENDIX A

Pavement Inventory Reports and Maps

APPENDIX A

PAVEMENT INVENTORY REPORTS AND MAPS

A.1 PAVEMENT NETWORK

Chiloquin State Airport is located in Chiloquin, Oregon, and is owned and operated by ODA. The pavement network/facilities at Chiloquin Airport serve a variety of general aviation aircraft. Chiloquin Airport contains one runway with multiple connector taxiways and aprons. The airside pavements are surfaced with asphalt concrete (AC).

The current airport pavement management system (APMS) network at Chiloquin Airport has an approximate area of 304,500 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 Figures 1A and 2A, respectively, 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 Chiloquin Airport contains six 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 Chiloquin Airport contains 13 sections that are managed by ODA, 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 ± 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:

$$n = \frac{N \times s^2}{\left(e^2/_4\right)(N-1)+s^2} \qquad \text{(Equation 1)}$$

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 Chiloquin 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 Chiloquin 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 – CHILOQUIN AIRPORT PAVEMENT BRANCHES

Facility Designation (Branch ID)	Branch Name	Number of Sections	Approximate Area, square feet
A01CH	Apron 01 Chiloquin	1	15,365
ANHOLDCH	North Hold Apron Chiloquin	2	14,210
ASHOLDCH	South Hold Apron Chiloquin	2	15,036
R17CH	Runway 17/35 Chiloquin	2	223,980
T01CH	Taxiway 01 Chiloquin	2	9,859
THGRCH	Hangar Taxiway Chiloquin	4	26,047

Table 2A - CHILOQUIN AIRPORT CURRENT PAVEMENT INVENTORY

BranchID	Branch Name	Branch Use	SectionID	From	To	Rank	Length, feet	Width, feet	Approximate Area, square feet	LCD[1]	Surface Type
A01CH	Apron 01 Chiloquin	APRON	01	Taxiway 01	End	P	145	132	15,365	11/4/2012	AC
ANHOLDCH	North Hold Apron Chiloquin	APRON	01	R17 End	Hold Line	P	100	95	9,620	11/4/2012	AC
ANHOLDCH	North Hold Apron Chiloquin	APRON	02	Hold Line	East	P	45	95	4,590	11/4/2012	AC
ASHOLDCH	South Hold Apron Chiloquin	APRON	01	R35 End	Hold Line	P	100	100	10,277	11/4/2012	AC
ASHOLDCH	South Hold Apron Chiloquin	APRON	02	Hold Line	East	P	45	100	4,759	11/4/2012	AC
R17CH	Runway 17/35 Chiloquin	RUNWAY	01	Runway 17 End	R17CH-02	P	420	60	25,200	11/4/2012	AC
R17CH	Runway 17/35 Chiloquin	RUNWAY	02	R17CH-01	Runway 35 End	P	3,313	60	198,780	11/4/2012	AC
T01CH	Taxiway 01 Chiloquin	TAXIWAY	01	Runway 17/35	Hold Line	P	100	25	3,747	11/4/2012	AC
T01CH	Taxiway 01 Chiloquin	TAXIWAY	02	Hold Line	Apron 01	P	240	25	6,112	11/1/2012	AC
THGRCH	Hangar Taxiway Chiloquin	TAXIWAY	01	THGRCH-02	Hangars	S	418	20	8,360	9/2/2001	AC
THGRCH	Hangar Taxiway Chiloquin	TAXIWAY	02	Runway 17/35 Midfield	THGRCH-01	S	100	20	2,547	11/2/2012	AC
THGRCH	Hangar Taxiway Chiloquin	TAXIWAY	03	THGRCH-01	THGRCH-04	S	161	25	6,650	6/2/2004	AC
THGRCH	Hangar Taxiway Chiloquin	TAXIWAY	04	THGRCH-03	End	S	340	25	8,490	6/2/2004	AC

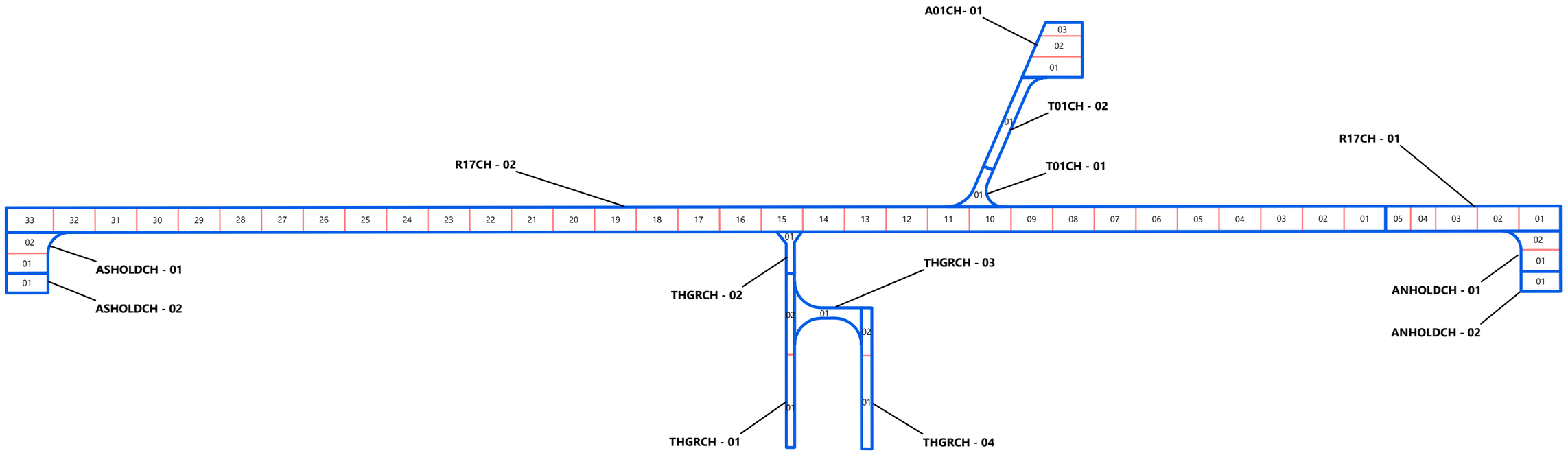
Abbreviations:
P = Primary pavement, S = Secondary pavement, AC = Asphalt Concrete

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



SECTION

SAMPLE UNIT

N

0 250 500 Feet

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SAMPLE UNIT LAYOUT

CHILOQUIN AIRPORT

DEC. 2022 JOB NO. 6593-B FIG. 1A

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
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 Chiloquin Airport pavement network consists of six branches and 13 sections. A total of 25 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, in Appendix E. Based on the 2022 PCI survey, the area-weighted average PCI for the entire pavement network at Chiloquin Airport is approximately 71, which corresponds to a PCI rating of Satisfactory.

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 Chiloquin Airport pavement sections is outlined in Table 4B in this appendix.

Table 2B - CHILOQUIN AIRPORT CURRENT BRANCH CONDITION REPORT

Branch ID	Number of Sections	Approximate Area, square feet	Use	Area Weighted Average Branch PCI	PCI Category
A01CH	1	15,365	APRON	75	Satisfactory
ANHOLDCH	2	14,210	APRON	72	Satisfactory
ASHOLDCH	2	15,036	APRON	70	Fair
R17CH	2	223,980	RUNWAY	72	Satisfactory
T01CH	2	9,859	TAXIWAY	72	Satisfactory
THGRCH	4	26,047	TAXIWAY	62	Fair

Use Category	Number of Sections	Total Area, square feet	Area Weighted Average PCI
APRON	5	44,611	72
RUNWAY	2	223,980	72
TAXIWAY	6	35,906	64
ALL	**13**	**304,497**	**71**

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

BranchID	SectionID	Last Construction Date	Surface Type	Use	Last Inspection Date	Age at Inspection	PCI	PCI Category	PCI % Climate	PCI % Load	PCI % Other
A01CH	01	11/4/2012	AC	APRON	3/1/2022	9	75	Satisfactory	100	0	0
ANHOLDCH	01	11/4/2012	AC	APRON	3/1/2022	9	71	Satisfactory	100	0	0
ANHOLDCH	02	11/4/2012	AC	APRON	3/1/2022	9	75	Satisfactory	100	0	0
ASHOLDCH	01	11/4/2012	AC	APRON	3/1/2022	9	70	Fair	100	0	0
ASHOLDCH	02	11/4/2012	AC	APRON	3/1/2022	9	70	Fair	100	0	0
R17CH	01	11/4/2012	AC	RUNWAY	3/1/2022	9	71	Satisfactory	100	0	0
R17CH	02	11/4/2012	AC	RUNWAY	3/1/2022	9	72	Satisfactory	100	0	0
T01CH	01	11/4/2012	AC	TAXIWAY	3/1/2022	9	68	Fair	100	0	0
T01CH	02	11/1/2012	AC	TAXIWAY	3/1/2022	9	75	Satisfactory	100	0	0
THGRCH	01	9/2/2001	AC	TAXIWAY	3/1/2022	20	52	Poor	100	0	0
THGRCH	02	11/2/2012	AC	TAXIWAY	3/1/2022	9	75	Satisfactory	100	0	0
THGRCH	03	6/2/2004	AC	TAXIWAY	3/1/2022	18	60	Fair	100	0	0
THGRCH	04	6/2/2004	AC	TAXIWAY	3/1/2022	18	68	Fair	100	0	0

Abbreviations:
PCI = Pavement Condition Index, AC = Asphalt Concrete

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

Branch ID	Section ID	Surface Type[1]	Approximate Area, square feet	LCD[2]	2019 Survey PCI	2019 Survey PCI Category	2019 Survey Insp. Date	2022 Survey PCI	2022 Survey PCI Category	Age[3]	Δ PCI/yr[4]	Rate of Deterioration
A01CH	01	AC	15,365	11/4/2012	98	Good	5/13/2019	75	Satisfactory	7	-8.21	HIGH
ANHOLDCH	01	AC	9,620	11/4/2012	88	Good	5/13/2019	71	Satisfactory	7	-6.07	HIGH
ANHOLDCH	02	AC	4,590	11/4/2012	88	Good	5/13/2019	75	Satisfactory	7	-4.64	HIGH
ASHOLDCH	01	AC	10,277	11/4/2012	88	Good	5/13/2019	70	Fair	7	-6.42	HIGH
ASHOLDCH	02	AC	4,759	11/4/2012	88	Good	5/13/2019	70	Fair	7	-6.42	HIGH
R17CH	01	AC	25,200	11/4/2012	90	Good	5/13/2019	71	Satisfactory	7	-6.78	HIGH
R17CH	02	AC	198,780	11/4/2012	89	Good	5/13/2019	72	Satisfactory	7	-6.07	HIGH
T01CH	01	AC	3,747	11/4/2012	92	Good	5/13/2019	68	Fair	7	-8.56	HIGH
T01CH	02	AC	6,112	11/1/2012	92	Good	5/13/2019	75	Satisfactory	7	-6.07	HIGH
THGRCH	01	AC	8,360	9/2/2001	56	Fair	5/13/2019	52	Poor	18	-1.43	NORMAL
THGRCH	02	AC	2,547	11/2/2012	100	Good	5/13/2019	75	Satisfactory	7	-8.92	HIGH
THGRCH	03	AC	6,650	6/2/2004	68	Fair	5/13/2019	60	Fair	15	-2.85	NORMAL
THGRCH	04	AC	8,490	6/2/2004	77	Satisfactory	5/13/2019	68	Fair	15	-3.21	NORMAL

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 Chiloquin 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 Chiloquin 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 through 3C below.

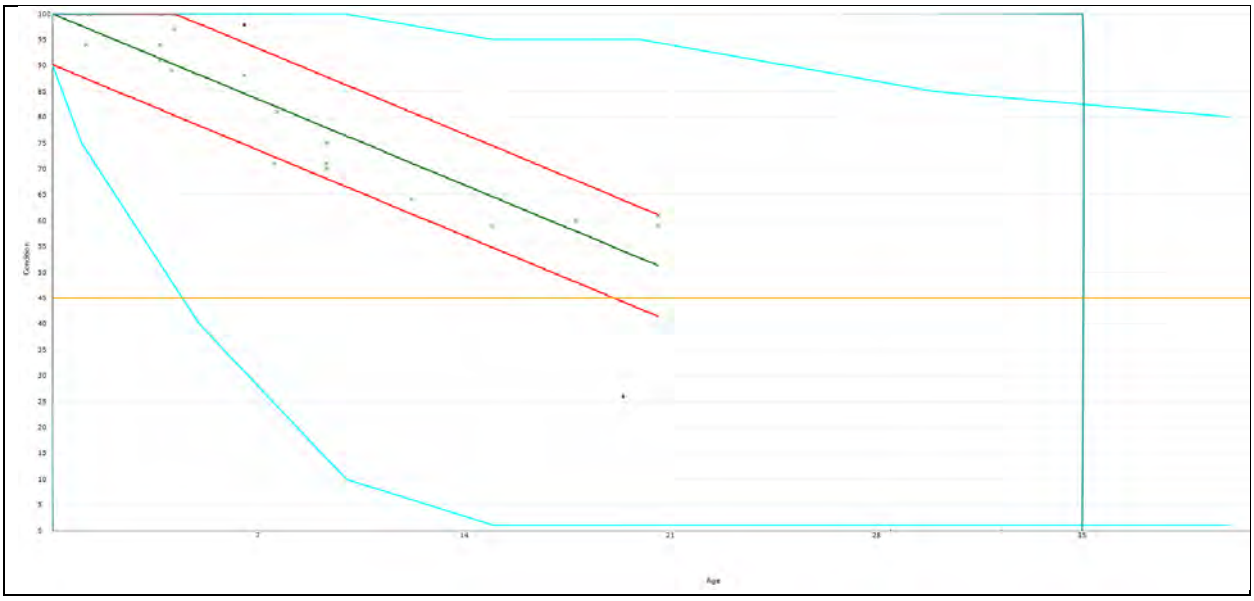

Figure 1C – CONDITION PREDICTION MODEL FOR CENTRAL CATEGORY 5 AC AND AAC APRONS

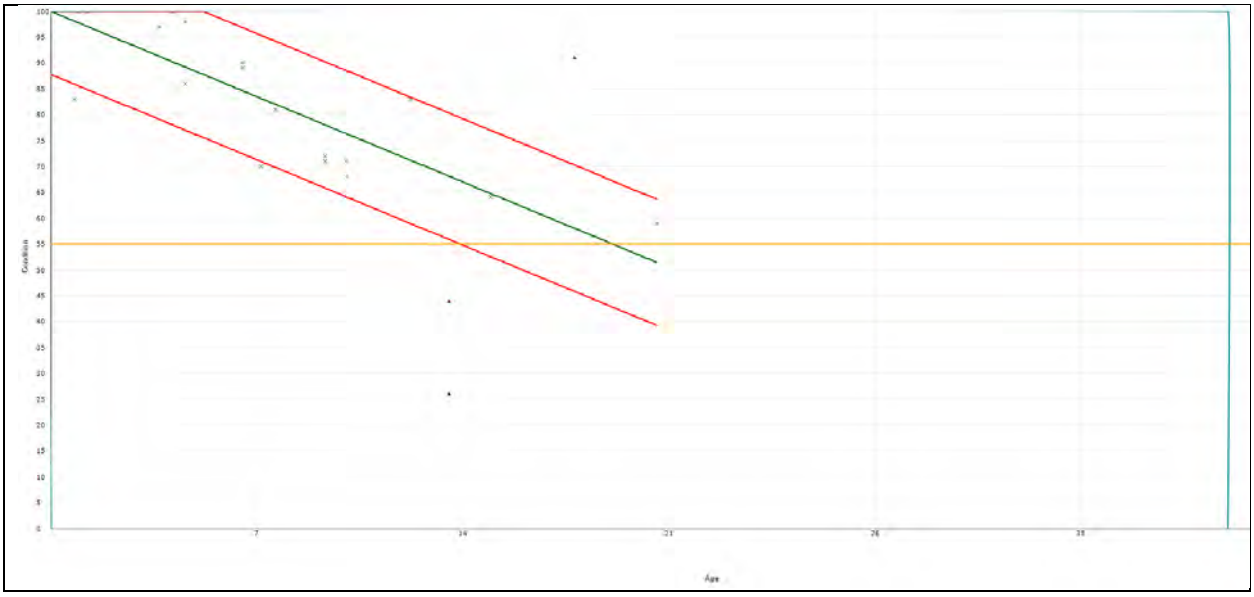

Figure 2C - CONDITION PREDICTION MODEL FOR CENTRAL CATEGORY 5 AC AND AAC RUNWAYS

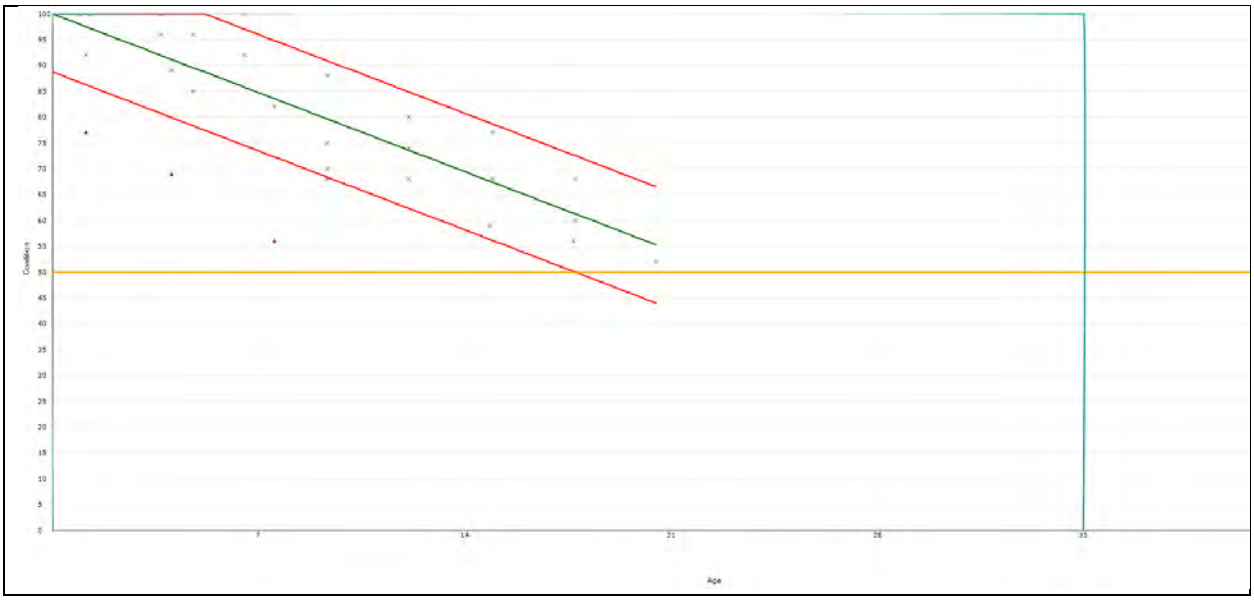

Figure 3C - CONDITION PREDICTION MODEL FOR CENTRAL CATEGORY 5 AC AND AAC TAXIWAYS

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 Chiloquin 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 Chiloquin 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 Chiloquin 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

BranchID	SectionID	Past Inspection PCI 2019	Current PCI 2022	Predicted Future PCI 2027	Predicted Future PCI 2032
A01CH	01	98	75	63	51
ANHOLDCH	01	88	71	59	47
ANHOLDCH	02	88	75	63	51
ASHOLDCH	01	88	70	58	46
ASHOLDCH	02	88	70	58	46
R17CH	01	90	71	59	47
R17CH	02	89	72	60	48
T01CH	01	92	68	57	46
T01CH	02	92	75	64	53
THGRCH	01	56	52	41	30
THGRCH	02	100	75	64	53
THGRCH	03	68	60	49	38
THGRCH	04	77	68	57	46

Abbreviations:
PCI = Pavement Condition Index

Table 2C - CHILOQUIN AIRPORT FUNCTIONAL REMAINING LIFE ANALYSIS

Branch ID	Section ID	Surface Type	Current PCI	Years to Major M&R	Major M&R Trigger PCI[1]	Years to End of Functional Service
A01CH	01	AC	75	11 - 15	45	11 - 15
ANHOLDCH	01	AC	71	6 - 10	45	11 - 15
ANHOLDCH	02	AC	75	11 - 15	45	11 - 15
ASHOLDCH	01	AC	70	6 - 10	45	11 - 15
ASHOLDCH	02	AC	70	6 - 10	45	11 - 15
R17CH	01	AC	71	6 - 10	55	11 - 15
R17CH	02	AC	72	6 - 10	55	11 - 15
T01CH	01	AC	68	6 - 10	50	11 - 15
T01CH	02	AC	75	11 - 15	50	16 - 20
THGRCH	01	AC	52	0 - 5	50	0 - 5
THGRCH	02	AC	75	11 - 15	50	16 - 20
THGRCH	03	AC	60	0 - 5	50	6 - 10
THGRCH	04	AC	68	6 - 10	50	11 - 15

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 Chiloquin 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, 2022. 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

Branch Use	Section Rank		
	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 at Chiloquin 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 Chiloquin 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: CHILOQUIN AIRPORT UNIT COST DATA

Type of M&R	Work Type	Unit Cost	Work Unit
Major M&R	Complete Reconstruction with AC	$11.10	Sq Ft
	Cold Mill and Overlay – 2 Inches Thick	$4.90	Sq Ft
Global M&R	Surface Treatment - Slurry Seal	$0.33	Sq Ft
	Surface Treatment - Fog Seal	$0.20	Sq Ft
Localized Preventive M&R	Crack Sealing - AC	$2.00	Ft
	Crack Sealing - PCC	$15.00	Ft
	Crack Sealing – Wide Cracks	$33.00	Ft
	AC Patching – Full Depth	$50.00	Sq Ft
	PCC Patching – Partial 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 - CHILOQUIN AIRPORT NETWORK MAINTENANCE REPORT

Network	Branch ID	Section ID	Distress	Severity	Action	Work Quantity	Unit	Unit Cost	Work Cost	Section Total
Chiloquin	A01CH	01	Long. & Trans. Cracking	Medium	Crack Sealing - AC	203	Ft	$2.00	$406	$483
Chiloquin	A01CH	01	Long. & Trans. Cracking	Low	Crack Sealing - AC	39	Ft	$2.00	$77	
Chiloquin	ANHOLDCH	01	Long. & Trans. Cracking	High	Crack Seal - Wide Cracks	60	Ft	$33.00	$1,980	$2,210
Chiloquin	ANHOLDCH	01	Long. & Trans. Cracking	Medium	Crack Sealing - AC	87	Ft	$2.00	$174	
Chiloquin	ANHOLDCH	01	Long. & Trans. Cracking	Low	Crack Sealing - AC	28	Ft	$2.00	$56	
Chiloquin	ANHOLDCH	02	Long. & Trans. Cracking	Medium	Crack Sealing - AC	55	Ft	$2.00	$110	$110
Chiloquin	ASHOLDCH	01	Long. & Trans. Cracking	High	Crack Seal - Wide Cracks	76	Ft	$33.00	$2,508	$2,822
Chiloquin	ASHOLDCH	01	Long. & Trans. Cracking	Medium	Crack Sealing - AC	157	Ft	$2.00	$314	
Chiloquin	ASHOLDCH	02	Long. & Trans. Cracking	High	Crack Seal - Wide Cracks	35	Ft	$33.00	$1,155	$1,225
Chiloquin	ASHOLDCH	02	Long. & Trans. Cracking	Medium	Crack Sealing - AC	35	Ft	$2.00	$70	
Chiloquin	R17CH	01	Long. & Trans. Cracking	High	Crack Seal - Wide Cracks	81	Ft	$33.00	$2,680	$3,321
Chiloquin	R17CH	01	Long. & Trans. Cracking	Medium	Crack Sealing - AC	321	Ft	$2.00	$641	
Chiloquin	R17CH	02	Long. & Trans. Cracking	High	Crack Seal - Wide Cracks	800	Ft	$33.00	$26,396	$32,319
Chiloquin	R17CH	02	Long. & Trans. Cracking	Low	Crack Sealing - AC	227	Ft	$2.00	$454	
Chiloquin	R17CH	02	Long. & Trans. Cracking	Medium	Crack Sealing - AC	2,735	Ft	$2.00	$5,469	
Chiloquin	T01CH	01	Long. & Trans. Cracking	High	Crack Seal - Wide Cracks	66	Ft	$33.00	$2,178	$2,194
Chiloquin	T01CH	01	Long. & Trans. Cracking	Medium	Crack Sealing - AC	8	Ft	$2.00	$16	
Chiloquin	T01CH	02	Long. & Trans. Cracking	Medium	Crack Sealing - AC	46	Ft	$2.00	$92	$116
Chiloquin	T01CH	02	Long. & Trans. Cracking	Low	Crack Sealing - AC	12	Ft	$2.00	$24	
Chiloquin	THGRCH	01	Long. & Trans. Cracking	High	Crack Seal - Wide Cracks	38	Ft	$33.00	$1,254	$3,118
Chiloquin	THGRCH	01	Long. & Trans. Cracking	Medium	Crack Sealing - AC	912	Ft	$2.00	$1,824	
Chiloquin	THGRCH	01	Long. & Trans. Cracking	Low	Crack Sealing - AC	20	Ft	$2.00	$40	
Chiloquin	THGRCH	02	Long. & Trans. Cracking	Medium	Crack Sealing - AC	24	Ft	$2.00	$48	$48
Chiloquin	THGRCH	03	Long. & Trans. Cracking	High	Crack Seal - Wide Cracks	160	Ft	$33.00	$5,280	$5,560
Chiloquin	THGRCH	03	Long. & Trans. Cracking	Medium	Crack Sealing - AC	140	Ft	$2.00	$280	
Chiloquin	THGRCH	04	Long. & Trans. Cracking	High	Crack Seal - Wide Cracks	132	Ft	$33.00	$4,356	$4,424
Chiloquin	THGRCH	04	Long. & Trans. Cracking	Medium	Crack Sealing - AC	34	Ft	$2.00	$68	

Long. = Longitudinal; Trans. = Transverse; AC = Asphalt Concrete; Ft = Feet

GRI

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	A01CH	01	APRON	AC	75	Fog Seal	15,365	$0.20	$3,073
	ANHOLDCH	01	APRON	AC	71	Fog Seal	9,620	$0.20	$1,924
	ANHOLDCH	02	APRON	AC	75	Fog Seal	4,590	$0.20	$918
	ASHOLDCH	01	APRON	AC	70	Fog Seal	10,277	$0.20	$2,055
	ASHOLDCH	02	APRON	AC	70	Fog Seal	4,759	$0.20	$952
2024	THGRCH	01	TAXIWAY	AC	52	Overlay	8,360	$6.93	$57,963
2025	R17CH	01	RUNWAY	AC	71	Slurry Seal	25,200	$0.33	$8,316
	R17CH	02	RUNWAY	AC	72	Slurry Seal	198,780	$0.33	$65,597
	T01CH	01	TAXIWAY	AC	68	Slurry Seal	3,747	$0.33	$1,237
	T01CH	02	TAXIWAY	AC	75	Slurry Seal	6,112	$0.33	$2,017
	THGRCH	02	TAXIWAY	AC	75	Slurry Seal	2,547	$0.33	$841
	THGRCH	03	TAXIWAY	AC	60	Slurry Seal	6,650	$0.33	$2,195
	THGRCH	04	TAXIWAY	AC	68	Slurry Seal	8,490	$0.33	$2,802

Abbreviations:
PCI = Pavement Condition Index, AC = Asphalt Concrete

Cost Summary	
2023 Total Project Cost	$8,922
2024 Total Project Cost	$57,963
2025 Total Project Cost	$83,004
2026 Total Project Cost	$0
2027 Total Project Cost	$0
Total 5-Year Project Cost	**$149,889**

APPENDIX E

Re-Inspection Report

Re-Inspection Report

ODA_WOC3_9-1-2022_PostBendAnalysis
Generated Date 9/30/2022

Network: Chiloquin **Name:** Chiloquin State

Branch: A01CH **Name:** Apron 01 Chiloquin **Use:** APRON **Area:** 15,365 SqFt

Section: 01 of 1 **From:** Taxiway 01 **To:** End **Last Const.:** 11/4/2012

Surface: AC **Family:** 2022_Central_Cat4/5_Apron_AC/AAC **Zone:** 2S7 **Category:** M **Rank:** P

Area: 15,365 SqFt **Length:** 145 Ft **Width:** 132 Ft

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

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

Section Comments:

Work Date: 9/1/1960	**Work Type:** Base Course - Aggregate	**Code:** BA-AG	**Is Major M&R:** False
Work Date: 9/1/1961	**Work Type:** New Construction - AC	**Code:** NC-AC	**Is Major M&R:** True
Work Date: 1/1/1968	**Work Type:** New Construction - Initial	**Code:** NU-IN	**Is Major M&R:** True
Work Date: 9/1/1968	**Work Type:** Surface Treatment - Seal Coat (Global MR)	**Code:** ST-SC	**Is Major M&R:** False
Work Date: 9/1/2001	**Work Type:** Overlay - AC Thin	**Code:** OL-AT	**Is Major M&R:** True
Work Date: 9/1/2006	**Work Type:** Crack Sealing - AC	**Code:** CS-AC	**Is Major M&R:** False
Work Date: 11/1/2012	**Work Type:** Subbase - Pulverized AC	**Code:** SU-PA	**Is Major M&R:** False
Work Date: 11/2/2012	**Work Type:** Geotextile	**Code:** FB-TX	**Is Major M&R:** False
Work Date: 11/3/2012	**Work Type:** Base Course - Aggregate	**Code:** BA-AG	**Is Major M&R:** False
Work Date: 11/4/2012	**Work Type:** New Construction - AC	**Code:** NC-AC	**Is Major M&R:** True

Last Insp. Date: 3/1/2022 **TotalSamples:** 3 **Surveyed:** 2

Conditions: **PCI:** 75

Inspection Comments:

Sample Number: 01 **Type:** R **Area:** 6708.00 SqFt **PCI:** 75

Sample Comments: Created by Inspection Schedule

48	L & T CR	L	14.00	Ft
48	L & T CR	L	6.00	Ft
48	L & T CR	M	38.00	Ft
57	WEATHERING	M	6708.00	SqFt

Sample Number: 02 **Type:** R **Area:** 5625.00 SqFt **PCI:** 75

Sample Comments: Created by Inspection Schedule

48	L & T CR	M	125.00	Ft
48	L & T CR	L	11.00	Ft
57	WEATHERING	M	5625.00	SqFt

Network: Chiloquin **Name:** Chiloquin State

Branch: ANHOLDCH **Name:** North Hold Apron Chiloquin **Use:** APRON **Area:** 14,210 SqFt

Section: 02 of 2 **From:** Hold Line **To:** East **Last Const.:** 11/4/2012

Surface: AC **Family:** 2022_Central_Cat4/5_Apron_AC/AAC **Zone:** 2S7 **Category:** M **Rank:** P

Area: 4,590 SqFt **Length:** 45 Ft **Width:** 95 Ft

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

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

Section Comments:

Work Date: 9/1/1995	**Work Type:** Subgrade-Geotextile	**Code:** SG-GE	**Is Major M&R:** True
Work Date: 9/2/1995	**Work Type:** Base Course - Crushed Aggregate	**Code:** BA-CA	**Is Major M&R:** False
Work Date: 11/1/2012	**Work Type:** Subbase - Pulverized AC	**Code:** SU-PA	**Is Major M&R:** False
Work Date: 11/2/2012	**Work Type:** Subgrade-Geotextile	**Code:** SG-GE	**Is Major M&R:** True
Work Date: 11/3/2012	**Work Type:** Base Course - Crushed Aggregate	**Code:** BA-CA	**Is Major M&R:** False
Work Date: 11/4/2012	**Work Type:** New Construction - AC	**Code:** NC-AC	**Is Major M&R:** True
Work Date: 7/1/2017	**Work Type:** Crack Sealing - AC	**Code:** CS-AC	**Is Major M&R:** False

Last Insp. Date: 3/1/2022 **TotalSamples:** 3 **Surveyed:** 1

Conditions: **PCI:** 75

Inspection Comments:

Sample Number: 01 **Type:** R **Area:** 4590.00 SqFt **PCI:** 75

Sample Comments: Created by Inspection Schedule

48	L & T CR	M	55.00	Ft
57	WEATHERING	M	4590.00	SqFt

Network: Chiloquin **Name:** Chiloquin State

Branch: ANHOLDCH **Name:** North Hold Apron Chiloquin **Use:** APRON **Area:** 14,210 SqFt

Section: 01 of 2 **From:** R17 End **To:** Hold Line **Last Const.:** 11/4/2012

Surface: AC **Family:** 2022_Central_Cat4/5_Apron_AC/AAC **Zone:** 2S7 **Category:** M **Rank:** P

Area: 9,620 SqFt **Length:** 100 Ft **Width:** 95 Ft

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

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

Section Comments:

Work Date: 9/1/1995	**Work Type:** Subgrade-Geotextile	**Code:** SG-GE	**Is Major M&R:** True
Work Date: 9/2/1995	**Work Type:** Base Course - Crushed Aggregate	**Code:** BA-CA	**Is Major M&R:** False
Work Date: 11/1/2012	**Work Type:** Subbase - Pulverized AC	**Code:** SU-PA	**Is Major M&R:** False
Work Date: 11/2/2012	**Work Type:** Subgrade-Geotextile	**Code:** SG-GE	**Is Major M&R:** True
Work Date: 11/3/2012	**Work Type:** Base Course - Crushed Aggregate	**Code:** BA-CA	**Is Major M&R:** False
Work Date: 11/4/2012	**Work Type:** New Construction - AC	**Code:** NC-AC	**Is Major M&R:** True
Work Date: 7/1/2017	**Work Type:** Crack Sealing - AC	**Code:** CS-AC	**Is Major M&R:** False

Last Insp. Date: 3/1/2022 **TotalSamples:** 3 **Surveyed:** 2

Conditions: **PCI:** 71

Inspection Comments:

Sample Number: 01 **Type:** R **Area:** 4911.00 SqFt **PCI:** 75

Sample Comments: Created by Inspection Schedule

48	L & T CR	M	70.00	Ft
57	WEATHERING	M	4911.00	SqFt

Sample Number: 02 **Type:** R **Area:** 4709.00 SqFt **PCI:** 68

Sample Comments: Created by Inspection Schedule

48	L & T CR	H	60.00	Ft
48	L & T CR	L	28.00	Ft
48	L & T CR	M	17.00	Ft
57	WEATHERING	M	4709.00	SqFt

Network: Chiloquin **Name:** Chiloquin State

Branch: ASHOLDCH **Name:** South Hold Apron Chiloquin **Use:** APRON **Area:** 15,036 SqFt

Section: 02 of 2 **From:** Hold Line **To:** East **Last Const.:** 11/4/2012

Surface: AC **Family:** 2022_Central_Cat4/5_Apron_AC/AAC **Zone:** 2S7 **Category:** M **Rank:** P

Area: 4,759 SqFt **Length:** 45 Ft **Width:** 100 Ft

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

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

Section Comments:

Work Date: 9/1/1995	**Work Type:** Subgrade-Geotextile	**Code:** SG-GE	**Is Major M&R:** True
Work Date: 9/2/1995	**Work Type:** Subbase - Crushed Aggregate	**Code:** SU-CA	**Is Major M&R:** False
Work Date: 11/1/2012	**Work Type:** Subbase - Pulverized AC	**Code:** SU-PA	**Is Major M&R:** False
Work Date: 11/2/2012	**Work Type:** Subgrade-Geotextile	**Code:** SG-GE	**Is Major M&R:** True
Work Date: 11/3/2012	**Work Type:** Base Course - Crushed Aggregate	**Code:** BA-CA	**Is Major M&R:** False
Work Date: 11/4/2012	**Work Type:** New Construction - AC	**Code:** NC-AC	**Is Major M&R:** True

Last Insp. Date: 3/1/2022 **TotalSamples:** 3 **Surveyed:** 1

Conditions: **PCI:** 70

Inspection Comments:

Sample Number: 01 **Type:** R **Area:** 4759.00 SqFt **PCI:** 70

Sample Comments: Created by Inspection Schedule

48	L & T CR	M	10.00	Ft
48	L & T CR	H	25.00	Ft
57	WEATHERING	M	4759.00	SqFt
48	L & T CR	M	25.00	Ft
48	L & T CR	H	10.00	Ft

Network: Chiloquin **Name:** Chiloquin State

Branch: ASHOLDCH **Name:** South Hold Apron Chiloquin **Use:** APRON **Area:** 15,036 SqFt

Section: 01 of 2 **From:** R35 End **To:** Hold Line **Last Const.:** 11/4/2012

Surface: AC **Family:** 2022_Central_Cat4/5_Apron_AC/AAC **Zone:** 2S7 **Category:** M **Rank:** P

Area: 10,277 SqFt **Length:** 100 Ft **Width:** 100 Ft

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

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

Section Comments:

Work Date: 9/1/1995	**Work Type:** Subgrade-Geotextile	**Code:** SG-GE	**Is Major M&R:** True
Work Date: 9/2/1995	**Work Type:** Subbase - Crushed Aggregate	**Code:** SU-CA	**Is Major M&R:** False
Work Date: 11/1/2012	**Work Type:** Subbase - Pulverized AC	**Code:** SU-PA	**Is Major M&R:** False
Work Date: 11/2/2012	**Work Type:** Subgrade-Geotextile	**Code:** SG-GE	**Is Major M&R:** True
Work Date: 11/3/2012	**Work Type:** Base Course - Crushed Aggregate	**Code:** BA-CA	**Is Major M&R:** False
Work Date: 11/4/2012	**Work Type:** New Construction - AC	**Code:** NC-AC	**Is Major M&R:** True

Last Insp. Date: 3/1/2022 **TotalSamples:** 3 **Surveyed:** 2

Conditions: **PCI:** 70

Inspection Comments:

Sample Number: 01 **Type:** R **Area:** 4757.00 SqFt **PCI:** 70

Sample Comments: Created by Inspection Schedule

48	L & T CR	H	48.00	Ft
48	L & T CR	M	63.00	Ft
57	WEATHERING	M	4757.00	SqFt

Sample Number: 02 **Type:** R **Area:** 5520.00 SqFt **PCI:** 70

Sample Comments: Created by Inspection Schedule

48	L & T CR	M	94.00	Ft
48	L & T CR	H	28.00	Ft
57	WEATHERING	M	5520.00	SqFt

Network: Chiloquin **Name:** Chiloquin State

Branch: R17CH **Name:** Runway 17/35 Chiloquin **Use:** RUNWAY **Area:** 223,980 SqFt

Section: 02 of 2 **From:** R17CH-01 **To:** Runway 35 End **Last Const.:** 11/4/2012

Surface: AC **Family:** 2022_Central_Cat4/5_RW_AC/AAC **Zone:** 2S7 **Category:** M **Rank:** P

Area: 198,780 SqFt **Length:** 3,313 Ft **Width:** 60 Ft

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

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

Section Comments:

Work Date: 9/1/1995	**Work Type:** Subgrade-Geotextile	**Code:** SG-GE	**Is Major M&R:** True
Work Date: 9/2/1995	**Work Type:** Subbase - Aggregate	**Code:** SB-AG	**Is Major M&R:** False
Work Date: 9/3/1995	**Work Type:** Base Course - Aggregate	**Code:** BA-AG	**Is Major M&R:** False
Work Date: 9/4/1995	**Work Type:** Surface Course - Double Bitum.	**Code:** SU-DB	**Is Major M&R:** True
Work Date: 9/1/1999	**Work Type:** Surface Treatment - Slurry Seal	**Code:** ST-SS	**Is Major M&R:** False
Work Date: 11/1/2012	**Work Type:** Subbase - Pulverized AC	**Code:** SU-PA	**Is Major M&R:** False
Work Date: 11/2/2012	**Work Type:** Geotextile	**Code:** FB-TX	**Is Major M&R:** False
Work Date: 11/3/2012	**Work Type:** Base Course - Aggregate	**Code:** BA-AG	**Is Major M&R:** False
Work Date: 11/4/2012	**Work Type:** New Construction - AC	**Code:** NC-AC	**Is Major M&R:** True
Work Date: 9/1/2017	**Work Type:** Crack Sealing - AC	**Code:** CS-AC	**Is Major M&R:** False

Last Insp. Date: 3/1/2022 **TotalSamples:** 33 **Surveyed:** 6

Conditions: **PCI:** 72

Inspection Comments:

Sample Number: 01 **Type:** R **Area:** 6000.00 SqFt **PCI:** 75

Sample Comments: Created by Inspection Schedule

48	L & T CR	L	8.00	Ft
57	WEATHERING	M	6000.00	SqFt
48	L & T CR	M	29.00	Ft
48	L & T CR	L	10.00	Ft
48	L & T CR	M	32.00	Ft

Sample Number: 05 **Type:** R **Area:** 6000.00 SqFt **PCI:** 75

Sample Comments: Created by Inspection Schedule

57	WEATHERING	M	6000.00	SqFt
48	L & T CR	M	40.00	Ft

Sample Number: 10 **Type:** R **Area:** 6000.00 SqFt **PCI:** 70

Sample Comments: Created by Inspection Schedule

57	WEATHERING	M	6000.00	SqFt
48	L & T CR	H	35.00	Ft
48	L & T CR	M	100.00	Ft

Sample Number: 15 **Type:** R **Area:** 6000.00 SqFt **PCI:** 70

Sample Comments: Created by Inspection Schedule

48	L & T CR	M	82.00	Ft
57	WEATHERING	M	6000.00	SqFt
48	L & T CR	H	20.00	Ft
48	L & T CR	M	45.00	Ft

Sample Number: 24 **Type:** R **Area:** 6000.00 SqFt **PCI:** 75

Sample Comments: Created by Inspection Schedule

48	L & T CR	M	100.00	Ft
57	WEATHERING	M	6000.00	SqFt

Sample Number: 33 **Type:** R **Area:** 6780.00 SqFt **PCI:** 67

Sample Comments: Created by Inspection Schedule

48	L & T CR	M	78.00	Ft
57	WEATHERING	M	6780.00	SqFt
48	L & T CR	H	93.00	Ft
48	L & T CR	L	24.00	Ft

Network: Chiloquin **Name:** Chiloquin State

Branch: R17CH **Name:** Runway 17/35 Chiloquin **Use:** RUNWAY **Area:** 223,980 SqFt

Section: 01 of 2 **From:** Runway 17 End **To:** R17CH-02 **Last Const.:** 11/4/2012

Surface: AC **Family:** 2022_Central_Cat4/5_RW_AC/AAC **Zone:** 2S7 **Category:** M **Rank:** P

Area: 25,200 SqFt **Length:** 420 Ft **Width:** 60 Ft

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

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

Section Comments:

Work Date: 9/1/1995	**Work Type:** Subgrade-Geotextile	**Code:** SG-GE	**Is Major M&R:** True
Work Date: 9/2/1995	**Work Type:** Subbase - Aggregate	**Code:** SB-AG	**Is Major M&R:** False
Work Date: 9/3/1995	**Work Type:** Base Course - Aggregate	**Code:** BA-AG	**Is Major M&R:** False
Work Date: 9/4/1995	**Work Type:** Surface Course - Double Bitum.	**Code:** SU-DB	**Is Major M&R:** True
Work Date: 9/1/1999	**Work Type:** Surface Treatment - Slurry Seal	**Code:** ST-SS	**Is Major M&R:** False
Work Date: 11/1/2012	**Work Type:** Subbase - Pulverized AC	**Code:** SU-PA	**Is Major M&R:** False
Work Date: 11/2/2012	**Work Type:** Geotextile	**Code:** FB-TX	**Is Major M&R:** False
Work Date: 11/3/2012	**Work Type:** Base Course - Aggregate	**Code:** BA-AG	**Is Major M&R:** False
Work Date: 11/4/2012	**Work Type:** New Construction - AC	**Code:** NC-AC	**Is Major M&R:** True
Work Date: 9/1/2017	**Work Type:** Patching - AC Full Depth	**Code:** PA-AF	**Is Major M&R:** False
Work Date: 9/2/2017	**Work Type:** Crack Sealing - AC	**Code:** CS-AC	**Is Major M&R:** False

Last Insp. Date: 3/1/2022 **TotalSamples:** 5 **Surveyed:** 3

Conditions: **PCI:** 71

Inspection Comments:

Sample Number: 01 **Type:** R **Area:** 6000.00 SqFt **PCI:** 70

Sample Comments: Created by Inspection Schedule

48	L & T CR	H	50.00	Ft
57	WEATHERING	M	6000.00	SqFt
48	L & T CR	M	83.00	Ft

Sample Number: 02 **Type:** R **Area:** 6000.00 SqFt **PCI:** 70

Sample Comments: Created by Inspection Schedule

48	L & T CR	H	8.00	Ft
48	L & T CR	M	64.00	Ft
57	WEATHERING	M	6000.00	SqFt

Sample Number: 03 **Type:** R **Area:** 6000.00 SqFt **PCI:** 75

Sample Comments: Created by Inspection Schedule

48	L & T CR	M	82.00	Ft
57	WEATHERING	M	6000.00	SqFt

Network: Chiloquin **Name:** Chiloquin State

Branch: T01CH **Name:** Taxiway 01 Chiloquin **Use:** TAXIWAY **Area:** 9,859 SqFt

Section: 01 of 2 **From:** Runway 17/35 **To:** Hold Line **Last Const.:** 11/4/2012

Surface: AC **Family:** 2022_Central_Cat4/5_Taxiway_AC/AAC **Zone:** 2S7 **Category:** M **Rank:** P

Area: 3,747 SqFt **Length:** 100 Ft **Width:** 25 Ft

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

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

Section Comments:

Work Date: 9/1/1960	**Work Type:** Base Course - Crushed Aggregate	**Code:** BA-CA	**Is Major M&R:** False
Work Date: 11/1/2012	**Work Type:** Subbase - Pulverized AC	**Code:** SU-PA	**Is Major M&R:** False
Work Date: 11/2/2012	**Work Type:** Subgrade-Geotextile	**Code:** SG-GE	**Is Major M&R:** True
Work Date: 11/3/2012	**Work Type:** Base Course - Crushed Aggregate	**Code:** BA-CA	**Is Major M&R:** False
Work Date: 11/4/2012	**Work Type:** New Construction - AC	**Code:** NC-AC	**Is Major M&R:** True

Last Insp. Date: 3/1/2022 **TotalSamples:** 2 **Surveyed:** 1

Conditions: **PCI:** 68

Inspection Comments:

Sample Number: 01 **Type:** R **Area:** 3747.00 SqFt **PCI:** 68

Sample Comments: Created by Inspection Schedule

48	L & T CR	H	66.00	Ft
48	L & T CR	M	8.00	Ft
57	WEATHERING	M	3747.00	SqFt

Network: Chiloquin **Name:** Chiloquin State

Branch: T01CH **Name:** Taxiway 01 Chiloquin **Use:** TAXIWAY **Area:** 9,859 SqFt

Section: 02 of 2 **From:** Hold Line **To:** Apron 01 **Last Const.:** 11/1/2012

Surface: AC **Family:** 2022_Central_Cat4/5_Taxiway_AC/AAC **Zone:** 2S7 **Category:** M **Rank:** P

Area: 6,112 SqFt **Length:** 240 Ft **Width:** 25 Ft

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

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

Section Comments:

Work Date: 9/1/1960	**Work Type:** Base Course - Crushed Aggregate	**Code:** BA-CA	**Is Major M&R:** False
Work Date: 9/1/2001	**Work Type:** Base Course - Pulverized AC	**Code:** BA-PA	**Is Major M&R:** False
Work Date: 11/1/2012	**Work Type:** Cold Mill and Overlay - 2 Inches	**Code:** MOL-2	**Is Major M&R:** True

Last Insp. Date: 3/1/2022 **TotalSamples:** 2 **Surveyed:** 1

Conditions: **PCI:** 75

Inspection Comments:

Sample Number: 01 **Type:** R **Area:** 6112.00 SqFt **PCI:** 75

Sample Comments: Created by Inspection Schedule

48	L & T CR	M	21.00	Ft
48	L & T CR	M	25.00	Ft
48	L & T CR	L	12.00	Ft
57	WEATHERING	M	6112.00	SqFt

Network: Chiloquin **Name:** Chiloquin State

Branch: THGRCH **Name:** Hangar Taxiway Chiloquin **Use:** TAXIWAY **Area:** 26,047 SqFt

Section: 01 of 4 **From:** THGRCH-02 **To:** Hangars **Last Const.:** 9/2/2001

Surface: AC **Family:** 2022_Central_Cat4/5_Taxiway_AC/AAC **Zone:** 2S7 **Category:** M **Rank:** S

Area: 8,360 SqFt **Length:** 418 Ft **Width:** 20 Ft

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

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

Section Comments:

Work Date: 9/1/2001	**Work Type:** Base Course - Aggregate	**Code:** BA-AG	**Is Major M&R:** False
Work Date: 9/2/2001	**Work Type:** New Construction - AC	**Code:** NC-AC	**Is Major M&R:** True
Work Date: 9/1/2006	**Work Type:** Crack Sealing - AC	**Code:** CS-AC	**Is Major M&R:** False

Last Insp. Date: 3/1/2022 **TotalSamples:** 2 **Surveyed:** 2

Conditions: **PCI:** 52

Inspection Comments:

Sample Number: 01 **Type:** R **Area:** 4464.00 SqFt **PCI:** 55

Sample Comments: Created by Inspection Schedule

48	L & T CR	M	205.00	Ft
48	L & T CR	M	194.00	Ft
48	L & T CR	H	8.00	Ft
57	WEATHERING	M	4464.00	SqFt

Sample Number: 02 **Type:** R **Area:** 3896.00 SqFt **PCI:** 47

Sample Comments: Created by Inspection Schedule

48	L & T CR	H	30.00	Ft
57	WEATHERING	M	3896.00	SqFt
48	L & T CR	M	178.00	Ft
48	L & T CR	L	20.00	Ft
48	L & T CR	M	335.00	Ft

Network: Chiloquin **Name:** Chiloquin State

Branch: THGRCH **Name:** Hangar Taxiway Chiloquin **Use:** TAXIWAY **Area:** 26,047 SqFt

Section: 02 of 4 **From:** Runway 17/35 Midfield **To:** THGRCH-01 **Last Const.:** 11/2/2012

Surface: AC **Family:** 2022_Central_Cat4/5_Taxiway_AC/AAC **Zone:** 2S7 **Category:** M **Rank:** S

Area: 2,547 SqFt **Length:** 100 Ft **Width:** 20 Ft

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

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

Section Comments:

Work Date: 9/1/2001	**Work Type:** Base Course - Aggregate	**Code:** BA-AG	**Is Major M&R:** False
Work Date: 9/2/2001	**Work Type:** New Construction - AC	**Code:** NC-AC	**Is Major M&R:** True
Work Date: 9/1/2006	**Work Type:** Crack Sealing - AC	**Code:** CS-AC	**Is Major M&R:** False
Work Date: 11/1/2012	**Work Type:** Cold Milling	**Code:** MI-CO	**Is Major M&R:** False
Work Date: 11/2/2012	**Work Type:** New Construction - AC	**Code:** NC-AC	**Is Major M&R:** True

Last Insp. Date: 3/1/2022 **TotalSamples:** 1 **Surveyed:** 1

Conditions: **PCI:** 75

Inspection Comments:

Sample Number: 01 **Type:** R **Area:** 2547.00 SqFt **PCI:** 75

Sample Comments: Created by Inspection Schedule

48	L & T CR	M	24.00	Ft
57	WEATHERING	M	2547.00	SqFt

Network: Chiloquin **Name:** Chiloquin State

Branch: THGRCH **Name:** Hangar Taxiway Chiloquin **Use:** TAXIWAY **Area:** 26,047 SqFt

Section: 03 of 4 **From:** THGRCH-01 **To:** THGRCH-04 **Last Const.:** 6/2/2004

Surface: AC **Family:** 2022_Central_Cat4/5_Taxiway_AC/AAC **Zone:** 2S7 **Category:** M **Rank:** S

Area: 6,650 SqFt **Length:** 161 Ft **Width:** 25 Ft

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

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

Section Comments:

Work Date: 6/1/2004 **Work Type:** Base Course - Aggregate **Code:** BA-AG **Is Major M&R:** False

Work Date: 6/2/2004 **Work Type:** New Construction - AC **Code:** NC-AC **Is Major M&R:** True

Last Insp. Date: 3/1/2022 **TotalSamples:** 1 **Surveyed:** 1

Conditions: **PCI:** 60

Inspection Comments:

Sample Number: 01 **Type:** R **Area:** 6650.00 SqFt **PCI:** 60

Sample Comments: Created by Inspection Schedule

57	WEATHERING	M	6650.00	SqFt
48	L & T CR	H	70.00	Ft
48	L & T CR	H	30.00	Ft
48	L & T CR	M	10.00	Ft
48	L & T CR	M	130.00	Ft
48	L & T CR	H	20.00	Ft
48	L & T CR	H	40.00	Ft

Network: Chiloquin **Name:** Chiloquin State

Branch: THGRCH **Name:** Hangar Taxiway Chiloquin **Use:** TAXIWAY **Area:** 26,047 SqFt

Section: 04 of 4 **From:** THGRCH-03 **To:** End **Last Const.:** 6/2/2004

Surface: AC **Family:** 2022_Central_Cat4/5_Taxiway_AC/AAC **Zone:** 2S7 **Category:** M **Rank:** S

Area: 8,490 SqFt **Length:** 340 Ft **Width:** 25 Ft

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

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

Section Comments:

Work Date: 6/1/2004 **Work Type:** Base Course - Aggregate **Code:** BA-AG **Is Major M&R:** False

Work Date: 6/2/2004 **Work Type:** New Construction - AC **Code:** NC-AC **Is Major M&R:** True

Last Insp. Date: 3/1/2022 **TotalSamples:** 2 **Surveyed:** 2

Conditions: **PCI:** 68

Inspection Comments:

Sample Number: 01 **Type:** R **Area:** 5620.00 SqFt **PCI:** 67

Sample Comments:

48	L & T CR	H	60.00	Ft
48	L & T CR	M	10.00	Ft
48	L & T CR	H	24.00	Ft
48	L & T CR	H	24.00	Ft
57	WEATHERING	M	5620.00	SqFt

Sample Number: 02 **Type:** R **Area:** 2870.00 SqFt **PCI:** 70

Sample Comments:

48	L & T CR	M	24.00	Ft
48	L & T CR	H	24.00	Ft
57	WEATHERING	M	2870.00	SqFt

APPENDIX F

Work History Report

Pavement Database: ODA_WOC3_9-1-2022_PostBendAnalysis

Network: Chiloquin State **Branch:** A01CH Apron 01 Chiloqui **Section:** 01 **Surface:**AC

L.C.D. 11/4/2012 **Use:** APRON **Rank:** P **Length:** 145.00 (Ft) **Width:** 132.00 (Ft) **True Area:** 15365.00046 (SqFt

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
11/4/2012	NC-AC	New Construction - AC	0.00	2.50	☑	P403
11/3/2012	BA-AG	Base Course - Aggregate	0.00	4.00	☐	P209
11/2/2012	FB-TX	Geotextile	0.00	0.00	☐	
11/1/2012	SU-PA	Subbase - Pulverized AC	0.00	6.00	☐	
9/1/2006	CS-AC	Crack Sealing - AC	0.00	0.00	☐	
9/1/2001	OL-AT	Overlay - AC Thin	0.00	2.00	☑	2"+
9/1/1968	ST-SC	Surface Treatment - Seal Coat (Global MR)	0.00	0.10	☐	Slurry / Fog Seal
1/1/1968	NU-IN	New Construction - Initial	0.00	0.00	☑	
9/1/1961	NC-AC	New Construction - AC	0.00	1.25	☑	
9/1/1960	BA-AG	Base Course - Aggregate	0.00	4.50	☐	Subbase remaining after pulverization

Network: Chiloquin State **Branch:** ANHOLDCH North Hold Apron **Section:** 01 **Surface:**AC

L.C.D. 11/4/2012 **Use:** APRON **Rank:** P **Length:** 100.00 (Ft) **Width:** 95.00 (Ft) **True Area:** 9620.000002 (SqFt

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
7/1/2017	CS-AC	Crack Sealing - AC	0.00	0.00	☐	
11/4/2012	NC-AC	New Construction - AC	0.00	2.50	☑	P403
11/3/2012	BA-CA	Base Course - Crushed Aggregate	0.00	4.00	☐	P209
11/2/2012	SG-GE	Subgrade-Geotextile	0.00	0.00	☑	
11/1/2012	SU-PA	Subbase - Pulverized AC	0.00	6.00	☐	
9/2/1995	BA-CA	Base Course - Crushed Aggregate	0.00	7.00	☐	
9/1/1995	SG-GE	Subgrade-Geotextile	0.00	0.00	☑	

Network: Chiloquin State **Branch:** ANHOLDCH North Hold Apron **Section:** 02 **Surface:**AC

L.C.D. 11/4/2012 **Use:** APRON **Rank:** P **Length:** 45.00 (Ft) **Width:** 95.00 (Ft) **True Area:** 4590.000001 (SqFt

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
7/1/2017	CS-AC	Crack Sealing - AC	0.00	0.00	☐	
11/4/2012	NC-AC	New Construction - AC	0.00	2.50	☑	P403
11/3/2012	BA-CA	Base Course - Crushed Aggregate	0.00	4.00	☐	P209
11/2/2012	SG-GE	Subgrade-Geotextile	0.00	0.00	☑	
11/1/2012	SU-PA	Subbase - Pulverized AC	0.00	6.00	☐	
9/2/1995	BA-CA	Base Course - Crushed Aggregate	0.00	7.00	☐	
9/1/1995	SG-GE	Subgrade-Geotextile	0.00	0.00	☑	

Network: Chiloquin State **Branch:** ASHOLDCH South Hold Apron **Section:** 01 **Surface:**AC

L.C.D. 11/4/2012 **Use:** APRON **Rank:** P **Length:** 100.00 (Ft) **Width:** 100.00 (Ft) **True Area:** 10277.00000 (SqFt

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
11/4/2012	NC-AC	New Construction - AC	0.00	2.50	☑	P403
11/3/2012	BA-CA	Base Course - Crushed Aggregate	0.00	4.00	☐	P209
11/2/2012	SG-GE	Subgrade-Geotextile	0.00	0.00	☑	
11/1/2012	SU-PA	Subbase - Pulverized AC	0.00	6.00	☐	
9/2/1995	SU-CA	Subbase - Crushed Aggregate	0.00	7.00	☐	P-154
9/1/1995	SG-GE	Subgrade-Geotextile	0.00	0.00	☑	

Network: Chiloquin State **Branch:** ASHOLDCH South Hold Apron **Section:** 02 **Surface:**AC

L.C.D. 11/4/2012 **Use:** APRON **Rank:** P **Length:** 45.00 (Ft) **Width:** 100.00 (Ft) **True Area:** 4759.000001 (SqFt

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
11/4/2012	NC-AC	New Construction - AC	0.00	2.50	☑	P403
11/3/2012	BA-CA	Base Course - Crushed Aggregate	0.00	4.00	☐	P209
11/2/2012	SG-GE	Subgrade-Geotextile	0.00	0.00	☑	
11/1/2012	SU-PA	Subbase - Pulverized AC	0.00	6.00	☐	
9/2/1995	SU-CA	Subbase - Crushed Aggregate	0.00	7.00	☐	P-154
9/1/1995	SG-GE	Subgrade-Geotextile	0.00	0.50	☑	

Network: Chiloquin State **Branch:** R17CH Runway 17/35 Chil **Section:** 01 **Surface:**AC

L.C.D. 11/4/2012 **Use:** RUNWAY **Rank:** P **Length:** 420.00 (Ft) **Width:** 60.00 (Ft) **True Area:** 25200 (SqFt

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
9/2/2017	CS-AC	Crack Sealing - AC	0.00	0.00	☐	
9/1/2017	PA-AF	Patching - AC Full Depth	0.00	0.00	☐	
11/4/2012	NC-AC	New Construction - AC	0.00	2.50	☑	P403
11/3/2012	BA-AG	Base Course - Aggregate	0.00	4.00	☐	P209
11/2/2012	FB-TX	Geotextile	0.00	0.00	☐	
11/1/2012	SU-PA	Subbase - Pulverized AC	0.00	6.00	☐	
9/1/1999	ST-SS	Surface Treatment - Slurry Seal	0.00	0.50	☐	
9/4/1995	SU-DB	Surface Course - Double Bitum.	0.00	1.50	☑	P-609
9/3/1995	BA-AG	Base Course - Aggregate	0.00	3.00	☐	P-209
9/2/1995	SB-AG	Subbase - Aggregate	0.00	10.00	☐	P154, Remaining after pulverization
9/1/1995	SG-GE	Subgrade-Geotextile	0.00	0.50	☑	

Network: Chiloquin State **Branch:** R17CH Runway 17/35 Chil **Section:** 02 **Surface:**AC

L.C.D. 11/4/2012 **Use:** RUNWAY **Rank:** P **Length:** 3,313.00 (Ft) **Width:** 60.00 (Ft) **True Area:** 198780 (SqFt

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
9/1/2017	CS-AC	Crack Sealing - AC	0.00	0.00	☐	
11/4/2012	NC-AC	New Construction - AC	0.00	2.50	☑	P403
11/3/2012	BA-AG	Base Course - Aggregate	0.00	4.00	☐	P209
11/2/2012	FB-TX	Geotextile	0.00	0.00	☐	
11/1/2012	SU-PA	Subbase - Pulverized AC	0.00	6.00	☐	
9/1/1999	ST-SS	Surface Treatment - Slurry Seal	0.00	0.50	☐	
9/4/1995	SU-DB	Surface Course - Double Bitum.	0.00	1.50	☑	P-609
9/3/1995	BA-AG	Base Course - Aggregate	0.00	3.00	☐	P-209
9/2/1995	SB-AG	Subbase - Aggregate	0.00	7.50	☐	P154, remaining after pulverization
9/1/1995	SG-GE	Subgrade-Geotextile	0.00	0.50	☑	

Network: Chiloquin State **Branch:** T01CH Taxiway 01 Chiloq **Section:** 01 **Surface:**AC

L.C.D. 11/4/2012 **Use:** TAXIWAY **Rank:** P **Length:** 100.00 (Ft) **Width:** 25.00 (Ft) **True Area:** 3747.000001 (SqFt

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
11/4/2012	NC-AC	New Construction - AC	0.00	2.50	☑	P403
11/3/2012	BA-CA	Base Course - Crushed Aggregate	0.00	4.00	☐	P209
11/2/2012	SG-GE	Subgrade-Geotextile	0.00	0.00	☑	
11/1/2012	SU-PA	Subbase - Pulverized AC	0.00	6.00	☐	
9/1/1960	BA-CA	Base Course - Crushed Aggregate	0.00	7.00	☐	

Network: Chiloquin State **Branch:** T01CH Taxiway 01 Chiloq **Section:** 02 **Surface:**AC

L.C.D. 11/1/2012 **Use:** TAXIWAY **Rank:** P **Length:** 240.00 (Ft) **Width:** 25.00 (Ft) **True Area:** 6112.000001 (SqFt

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
11/1/2012	MOL-2	Cold Mill and Overlay - 2 Inches	0.00	2.00	☑	
9/1/2001	BA-PA	Base Course - Pulverized AC	0.00	0.00	☐	
9/1/1960	BA-CA	Base Course - Crushed Aggregate	0.00	7.00	☐	

Network: Chiloquin State **Branch:** THGRCH Hangar Taxiway C **Section:** 01 **Surface:**AC

L.C.D. 9/2/2001 **Use:** TAXIWAY **Rank:** S **Length:** 418.00 (Ft) **Width:** 20.00 (Ft) **True Area:** 8360 (SqFt

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
9/1/2006	CS-AC	Crack Sealing - AC	0.00	0.00	☐	
9/2/2001	NC-AC	New Construction - AC	0.00	2.00	☑	Cold mix?
9/1/2001	BA-AG	Base Course - Aggregate	0.00	0.00	☐	Unknown depth, AC millings

Network: Chiloquin State **Branch:** THGRCH Hangar Taxiway C **Section:** 02 **Surface:**AC
L.C.D. 11/2/2012 **Use:** TAXIWAY **Rank:** S **Length:** 100.00 (Ft) **Width:** 20.00 (Ft) **True Area:** 2547.000027 (SqFt

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
11/2/2012	NC-AC	New Construction - AC	0.00	2.00	☑	P403
11/1/2012	MI-CO	Cold Milling	0.00	-2.00	☐	
9/1/2006	CS-AC	Crack Sealing - AC	0.00	0.00	☐	
9/2/2001	NC-AC	New Construction - AC	0.00	2.00	☑	Cold mix?
9/1/2001	BA-AG	Base Course - Aggregate	0.00	0.00	☐	Unknown depth, AC millings

Network: Chiloquin State **Branch:** THGRCH Hangar Taxiway C **Section:** 03 **Surface:**AC
L.C.D. 6/2/2004 **Use:** TAXIWAY **Rank:** S **Length:** 161.00 (Ft) **Width:** 25.00 (Ft) **True Area:** 6650.000001 (SqFt

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
6/2/2004	NC-AC	New Construction - AC	0.00	2.00	☑	
6/1/2004	BA-AG	Base Course - Aggregate	0.00	13.00	☐	

Network: Chiloquin State **Branch:** THGRCH Hangar Taxiway C **Section:** 04 **Surface:**AC
L.C.D. 6/2/2004 **Use:** TAXIWAY **Rank:** S **Length:** 340.00 (Ft) **Width:** 25.00 (Ft) **True Area:** 8490.000002 (SqFt

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
6/2/2004	NC-AC	New Construction - AC	0.00	2.00	☑	
6/1/2004	BA-AG	Base Course - Aggregate	0.00	13.00	☐	

Summary:

Work Description	Section Count	Area Total (SqFt)	Thickness Avg (in)	Thickness STD (in)
Base Course - Aggregate	10	504,737.00	4.85	4.35
Base Course - Crushed Aggregate	9	57,062.00	5.33	1.49
Base Course - Pulverized AC	1	6,112.00	0.00	0.00
Cold Mill and Overlay - 2 Inches	1	6,112.00	2.00	0.00
Cold Milling	1	2,547.00	-2.00	0.00
Crack Sealing - AC	7	264,462.00	0.00	0.00
Geotextile	3	239,345.00	0.00	0.00
New Construction - AC	14	316,297.00	2.23	0.36
New Construction - Initial	1	15,365.00	0.00	0.00
Overlay - AC Thin	1	15,365.00	2.00	0.00
Patching - AC Full Depth	1	25,200.00	0.00	0.00
Subbase - Aggregate	2	223,980.00	8.75	1.25
Subbase - Crushed Aggregate	2	15,036.00	7.00	0.00
Subbase - Pulverized AC	8	272,338.00	6.00	0.00
Subgrade-Geotextile	11	286,219.00	0.14	0.22
Surface Course - Double Bitum.	2	223,980.00	1.50	0.00
Surface Treatment - Seal Coat (Global MR)	1	15,365.00	0.10	0.00
Surface Treatment - Slurry Seal	2	223,980.00	0.50	0.00