2023 ODAV Pavement Evaluation Program Gold Beach Municipal Airport

Gold Beach, Oregon

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Prepared for

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TABLE OF CONTENTS

ı	OVER	VIEVV	••••••
2	PAVE	MENT INVENTORY	1
3	PAVE	MENT CONDITION INSPECTION RESULTS	5
	3.1 Introd	uction	
	3.2 Pavem	ent Condition Index Survey Results	5
4		RE PAVEMENT CONDITION ANALYSIS	
		uction	
		Condition Analysis	
		onal Remaining Life	
5		TENANCE AND REHABILITATION PROJECT RECOMMENDATIONS	
,		uction	
		nmended Localized Maintenance	
_		e Treatment, Rehabilitation, and Reconstruction Plan	
6	LIMITA	ATIONS	12
	BLES	ACTIA DCLD (*	-
	ole 3-1: ole 5-1:	ASTM PCI Rating Scale	
	ole 5-1. ole 5-2:	Localized Maintenance QuantitiesSurface Treatment, Rehabilitation, And Reconstruction Quantities	
iuk) ic 5 L.	Surface freditheric, heriabilitation, fina neconstruction Quarteties	
FIC	GURES		
Fig	ure 2.1:	Gold Beach Municipal Airport Location Map	
Fig	ure 2.2:	Gold Beach Municipal Airport Pavement Area by Surface Type	
_	ure 2.3:	Gold Beach Municipal Airport Pavement Area by Branch Use	
_	ure 2.4:	Gold Beach Municipal Airport Pavement Inventory	
_	ure 3.1:	Gold Beach Municipal Airport 2023 PCI Survey Results	
_	ure 3.2:	Gold Beach Municipal Airport Pavement Condition Rating by Percent of Are	a
_	ure 4.1:	Gold Beach Municipal Airport Future Pavement Condition	
Fig	ure 5.1:	Gold Beach Municipal Airport 5-Year Pavement Management Plan	
ΑP	PENDICE	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:	Reinspection Report	
Ар	pendix F:	Work History Report	



1 OVERVIEW

GRI assisted with updating the Oregon Department of Aviation (ODAV) airport pavement management system and developing a five-year plan comprised of maintenance, surface treatment, rehabilitation, and reconstruction projects for the Gold Beach Municipal Airport in Gold Beach, Oregon. This project was implemented as part of the ODAV 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 maintenancemanagement 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 Gold Beach Municipal Airport in 2023 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

Gold Beach Municipal Airport is located in Gold Beach, Oregon, and is owned and operated by the Port of Gold Beach. The airport consists of a single runway, a primary taxiway, multiple connector taxiways, and an apron that serves a variety of general aviation and military aircraft. The general location of the airport is shown below on the Gold Beach Municipal Airport Location Map, Figure 2.1.





Figure 2.1: GOLD BEACH MUNICIPAL AIRPORT LOCATION MAP

The airside pavements at the Gold Beach Municipal Airport are comprised of asphalt concrete (AC). The airport pavements, delineated by surface type and branch use, are shown on the Gold Beach Municipal Airport Percent of Pavement Area by Surface Type, Figure 2.2, and on the Gold Beach Municipal Airport Pavement Area by Branch Use, Figure 2.3, shown below. The pavement inventory, including work history for each pavement section, is displayed spatially on the Gold Beach Municipal 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, Table 1F.



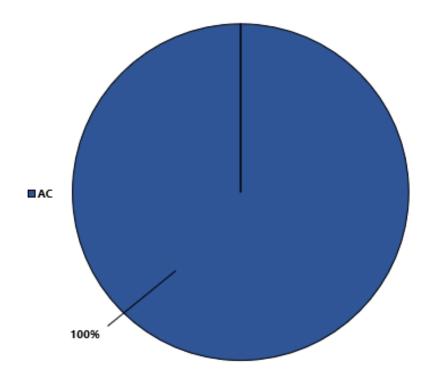


Figure 2.2: GOLD BEACH MUNICIPAL AIRPORT PERCENT OF PAVEMENT AREA BY SURFACE TYPE

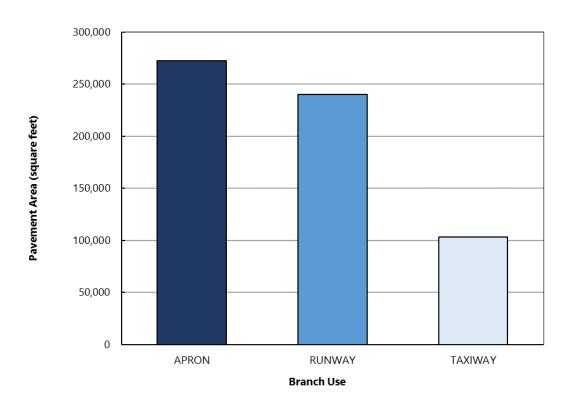
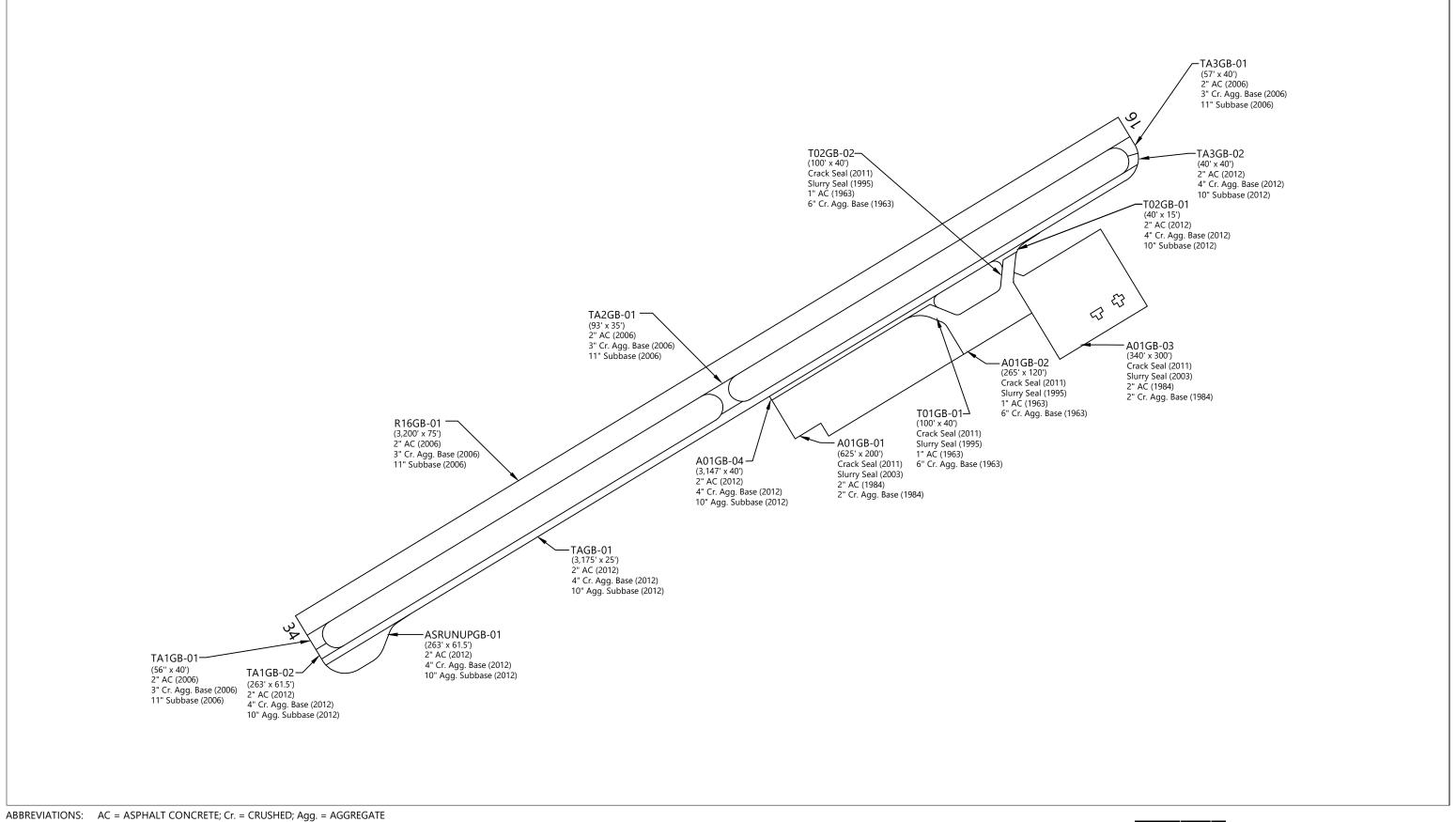
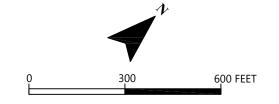


Figure 2.3: GOLD BEACH MUNICIPAL AIRPORT PAVEMENT AREA BY BRANCH USE







GOLD BEACH MUNICIPAL AIRPORT PAVEMENT INVENTORY

FIG. 2.4

DEC. 2023 JOB NO. 6593-F



3 PAVEMENT CONDITION INSPECTION RESULTS

3.1 Introduction

GRI conducted a visual PCI survey of the airside pavements at Gold Beach Municipal Airport in July 2023. The 2023 survey work was performed on sections last inspected in 2019 in order to update the Gold Beach Municipal Airport inspection data. GRI performed the 2023 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.

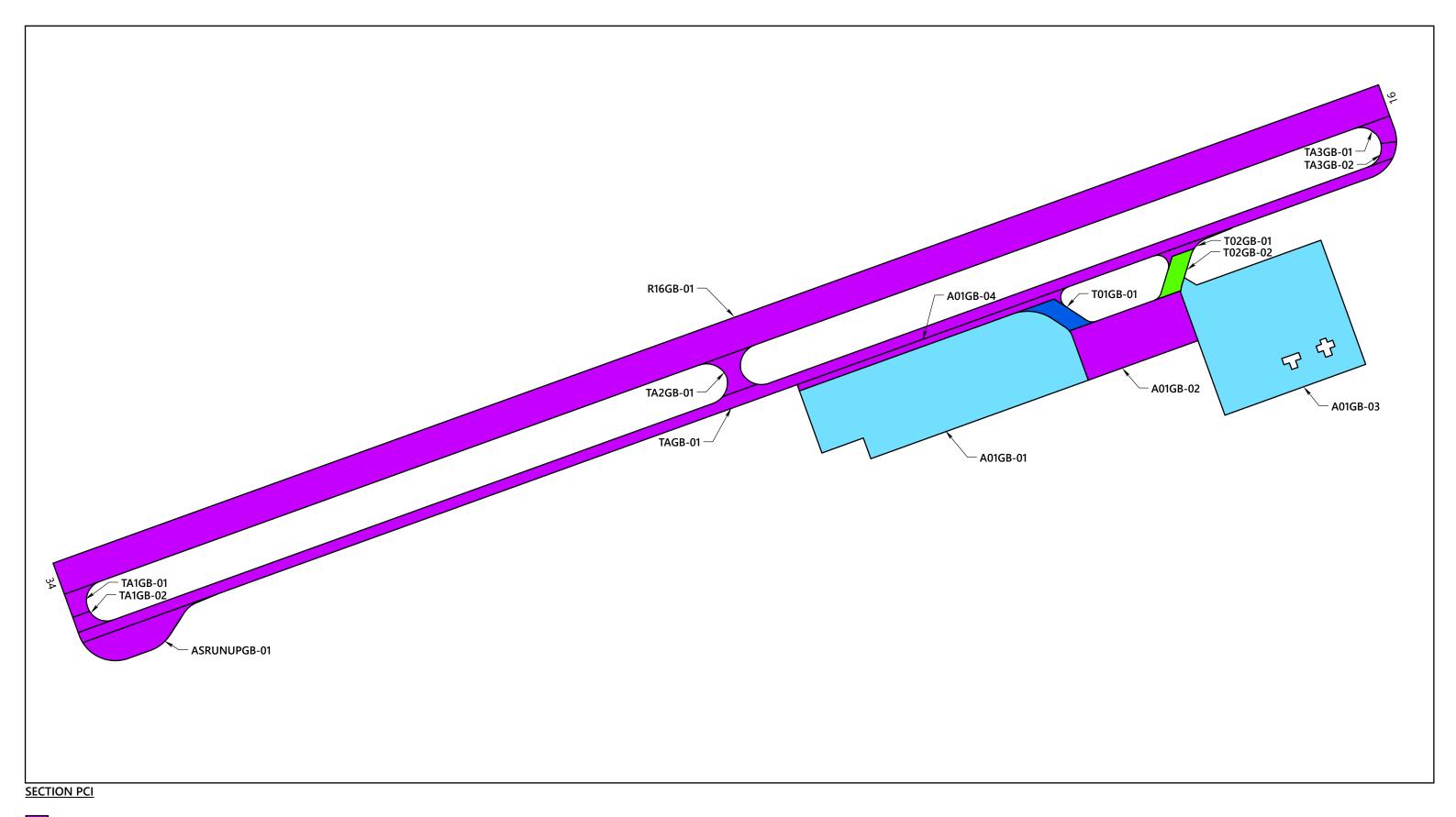
The PCI is based on the type, severity, and quantity of each distress found in an inspected sample unit. Further discussion of distress types for flexible pavement is provided in Appendix B and summarized in Table 1B in Appendix B. The results of the PCI survey are displayed using a seven-category rating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

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

Table 3-1: ASTM PCI RATING SCALE

3.2 Pavement Condition Index Survey Results

The area-weighted average PCI for all airport pavements at Gold Beach Municipal Airport is approximately 85. The section PCIs ranged from a low of 55 to a high of 99. The primary distresses observed during the inspection were weathering, longitudinal and transverse cracking, fatigue (alligator) cracking, block cracking, and patching on AC-surfaced pavements. Section PCIs following our pavement survey are displayed below spatially on the 2023 PCI Survey Results Gold Beach Municipal Airport, Figure 3.1.



(86 - 100) GOOD

(71 - 85) SATISFACTORY

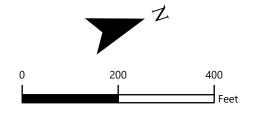
(56 - 70) FAIR

(41 - 55) POOR

(26 - 40) VERY POOR

(11 - 25) SERIOUS

(0 - 10) FAILED





GOLD BEACH MUNICIPAL AIRPORT 2023 PCI SURVEY RESULTS



The condition distribution of the network by percent of total pavement area is provided on the Gold Beach Municipal Airport Pavement Condition Rating by Percent of Area, Figure 3.2. A summary of the pavement condition results by branch and section is included in Tables 2B and 3B of Appendix B, respectively. A comparison between the previous inspection and the 2023 inspection is provided in Table 4B in Appendix B. The reinspection report that includes inspection details for individual sample units is provided in Table 1E in Appendix E.

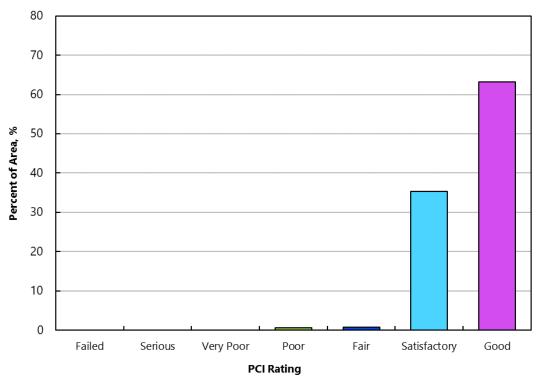


Figure 3.2: GOLD BEACH MUNICIPAL AIRPORT PAVEMENT CONDITION RATING BY PERCENT OF AREA



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 Gold Beach Municipal Airport are displayed on Figures 1C through 3C in Appendix C.

4.2 Future Condition Analysis

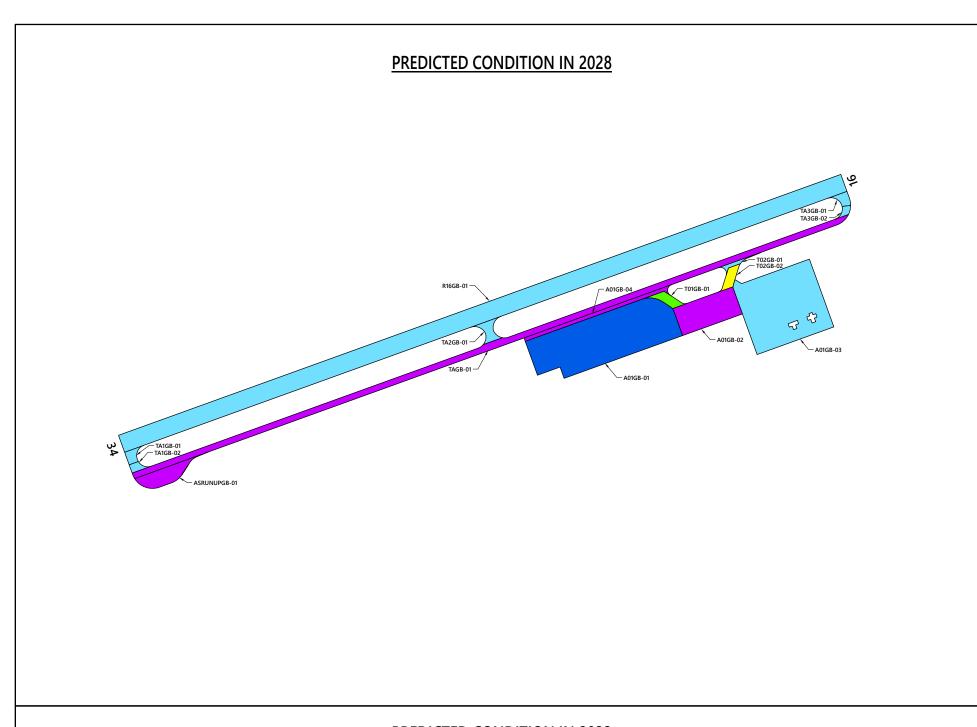
Using the condition prediction models discussed above, the projected condition of each pavement section was determined for 5- and 10-year periods. Based on this analysis, we project the PCI to decrease from a current value of 85 to a value of 80 in 2028 and 74 in 2033 if no maintenance or rehabilitation work is performed. The projected pavement condition in 5 years and 10 years for each pavement section at Gold Beach Municipal Airport is displayed spatially on the Future Pavement Condition Gold Beach Municipal Airport, Figure 4.1, and listed in Table 1C in Appendix C, along with the past and present PCI values for the pavement network.

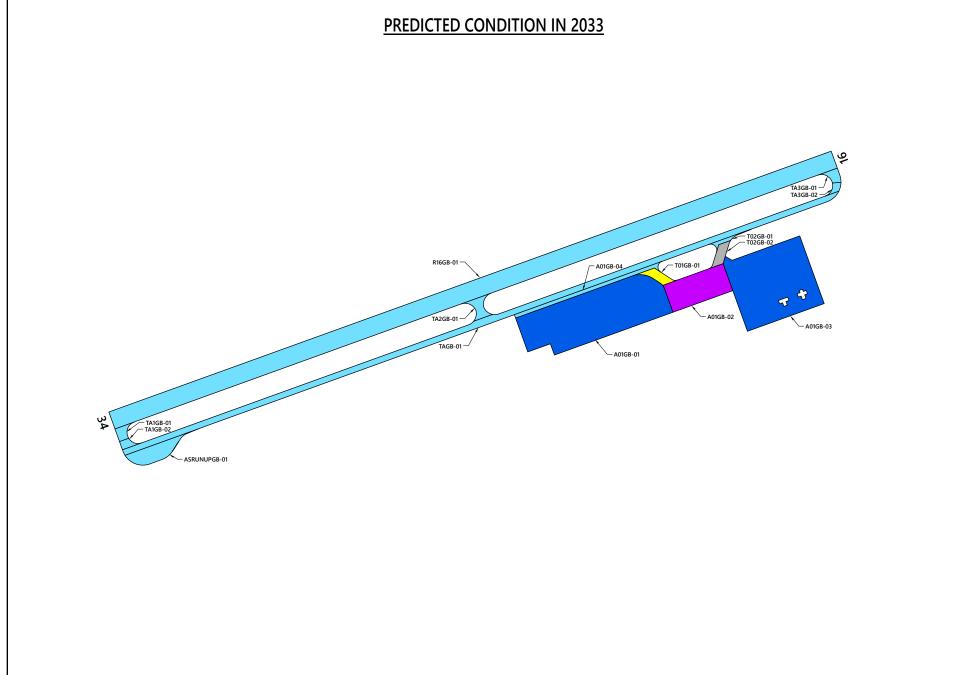
4.3 Functional Remaining Life

Functional remaining life is the practical amount of time a pavement is in service before requiring rehabilitation, as estimated solely based 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 Gold Beach Municipal 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 Gold Beach Municipal Airport are summarized in Table 2C in Appendix C.





SECTION PCI

(86 - 100) GOOD

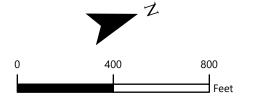
(71 - 85) SATISFACTORY

(56 - 70) FAIR

(41 - 55) POOR

(26 - 40) VERY POOR

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





GOLD BEACH MUNICIPAL AIRPORT FUTURE PAVEMENT CONDITION



5 MAINTENANCE AND REHABILITATION PROJECT RECOMMENDATIONS

5.1 Introduction

We evaluated M&R needs, as determined from the PAVER analysis results, in order to develop localized maintenance, surface treatment, rehabilitation, and reconstruction needs. Details of our M&R work priorities and unit costs for work activities are provided in Tables 1D and 2D, respectively, in Appendix D.

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 surface treatments, rehabilitation, and reconstruction projects associated with the five-year surface treatment and rehabilitation work plan. A summary of total localized maintenance quantities is provided in Table 5-1 below.

Table 5-1: LOCALIZED MAINTENANCE QUANTITIES

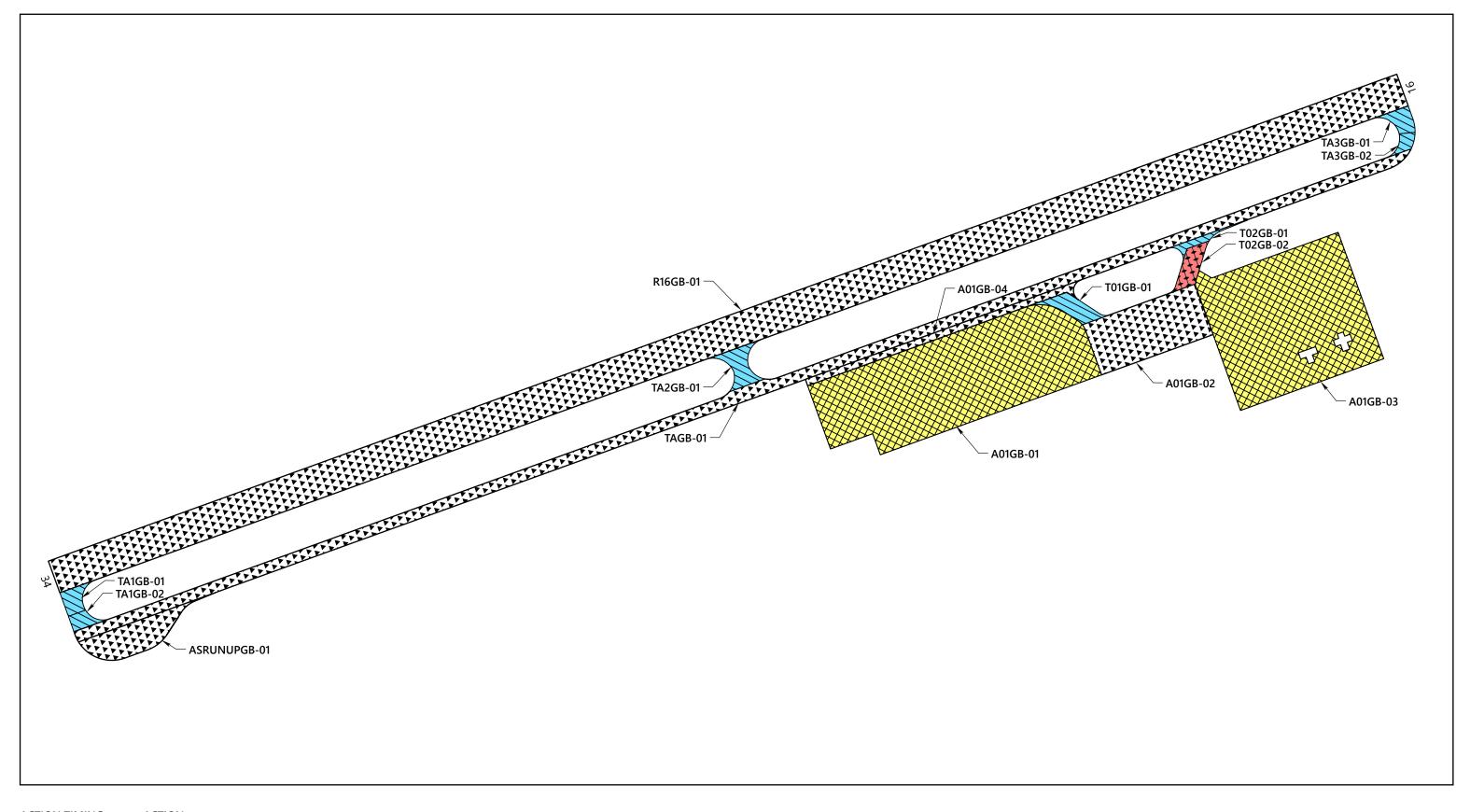
Localized Maintenance Operation	Quantity
Asphalt Concrete Crack Sealing	18,008 linear feet
Asphalt Concrete Full-Depth Patching	16 square feet

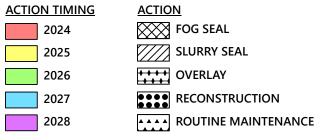
5.3 Surface Treatment, Rehabilitation, and Reconstruction Plan

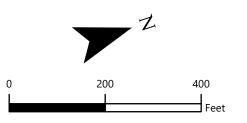
To develop the five-year work plan, we first ran the eliminate backlog scenario with the PAVER M&R Work Planning Module in order to generate a list, organized by year, of surface treatment, rehabilitation, and reconstruction projects. We then reviewed the project list and refined it into practical construction projects for each year. A summary of surface treatment, rehabilitation, and reconstruction 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 Gold Beach Municipal Airport, Figure 5.1. The complete list of recommended surface treatment, rehabilitation, and reconstruction projects is presented in Table 4D in Appendix D.

Table 5-2: SURFACE TREATMENT, REHABILITATION, AND RECONSTRUCTION QUANTITIES

Treatment Type	Quantity, square feet
Reconstruction	0
Overlay	4,042
Fog Seal	217,865
Slurry Seal	19,387









GOLD BEACH MUNICIPAL AIRPORT
5-YEAR PAVEMENT MANAGEMENT PLAN



6 LIMITATIONS

This report has been prepared to assist the ODAV with pavement-related project planning for the Gold Beach Municipal 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 ODAV, estimated costs, and an understanding of the pavement conditions based solely on visual assessment. The surface treatment, rehabilitation, and reconstruction 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 within this report. 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 Gold Beach Municipal Airport would like to know more about the results presented in this report, please contact the undersigned.

Submitted for GRI,

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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

Gold Beach Municipal Airport is located in Gold Beach, Oregon, and is owned and operated by the Port of Gold Beach. The pavement network/facilities at Gold Beach Municipal Airport serve a variety of general aviation aircraft and military aircraft. Gold Beach Municipal Airport consists of a single runway, a primary taxiway, multiple connector taxiways, and an apron. Airside pavements are comprised of asphalt concrete (AC).

The current airport pavement management system (APMS) network at Gold Beach Municipal Airport has an approximate area of 615,678 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 the pavement system and has a distinct function. For airports, branches typically consist of individual runways, taxiways, and aprons. The current pavement network for Gold Beach Municipal Airport contains nine 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 Gold Beach Municipal Airport contains 15 sections that are managed by the Port of Gold Beach, 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 2023 Gold Beach Municipal 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 Gold Beach Municipal 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: GOLD BEACH MUNICIPAL AIRPORT PAVEMENT BRANCHES

Facility Designation			Approximate Area,
(Branch ID)	Branch Name	Number of Sections	square feet
A01GB	Apron 01 Gold Beach	4	259,373
ASRUNUPGB	South Run-Up Apron	1	13,318
R16GB	Runway 16/34 Gold Beach	1	240,000
T01GB	Taxiway 01 Gold Beach	1	4,395
T02GB	Taxiway 02 Gold Beach	2	5,678
TA1GB	Taxiway A1 Gold Beach	2	4,568
TA2GB	Taxiway A2 Gold Beach	1	4,679
TA3BG	Taxiway A3 Gold Beach	2	4,109
TAGB	Taxiway A Gold Beach	1	79,558



Table 2A: GOLD BEACH MUNICIPAL AIRPORT CURRENT PAVEMENT INVENTORY

									Approximate		
									Area, square		
BranchID	Branch Name	Branch Use	SectionID	From	То	Rank	Length, feet	Width, feet	feet	LCD	Surface Type
A01GB	Apron 01 Gold Beach	APRON	01	Taxiway A	Hangars	Р	625	200	117,218	9/1/1984	AC
A01GB	Apron 01 Gold Beach	APRON	02	A01GB-01	A01GB-03	Р	265	120	31,810	9/1/1963	AC
A01GB	Apron 01 Gold Beach	APRON	03	A01GB-02	Hangars	S	340	300	100,647	9/1/1984	AC
A01GB	Apron 01 Gold Beach	APRON	04	Taxiway A	Section 01	S	654	15	9,698	10/3/2012	AC
ASRUNUPGB	South Run-Up Apron	APRON	01	South End of Taxiway A	East	Р	263	62	13,318	10/3/2012	AC
R16GB	Runway 16/34 Gold Beach	RUNWAY	01	Runway 34 End	Runway 16 End	Р	3,200	75	240,000	9/4/2006	AC
T01GB	Taxiway 01 Gold Beach	TAXIWAY	01	A01GB-04	A01BG-02	Р	100	40	4,395	9/1/1963	AC
T02GB	Taxiway 02 Gold Beach	TAXIWAY	01	Taxiway A	Section 02	Р	40	15	1,636	10/3/2012	AC
T02GB	Taxiway 02 Gold Beach	TAXIWAY	02	T02GB-01	A01GB-02	Р	100	40	4,042	9/1/1963	AC
TA1GB	Taxiway A1 Gold Beach	TAXIWAY	01	Runway 34 End	Section 02	Р	56	40	2,678	9/4/2006	AC
TA1GB	Taxiway A1 Gold Beach	TAXIWAY	02	Section 01	Taxiway A	Р	36	40	1,890	10/3/2012	AC
TA2GB	Taxiway A2 Gold Beach	TAXIWAY	01	Runway 16/34	Taxiway A	Р	86	35	4,679	9/4/2006	AC
TA3BG	Taxiway A3 Gold Beach	TAXIWAY	01	Runway 16 End	Taxiway A	Р	57	40	2,688	9/4/2006	AC
TA3BG	Taxiway A3 Gold Beach	TAXIWAY	02	Section 01	Taxiway A	Р	40	40	1,421	10/2/2012	AC
TAGB	Taxiway A Gold Beach	TAXIWAY	01	Taxiway A1	TAxiway A3	Р	3,175	25	79,558	10/3/2012	AC

Abbreviations:

P = Primary pavement, S = Secondary pavement

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

AC = Asphalt Concrete

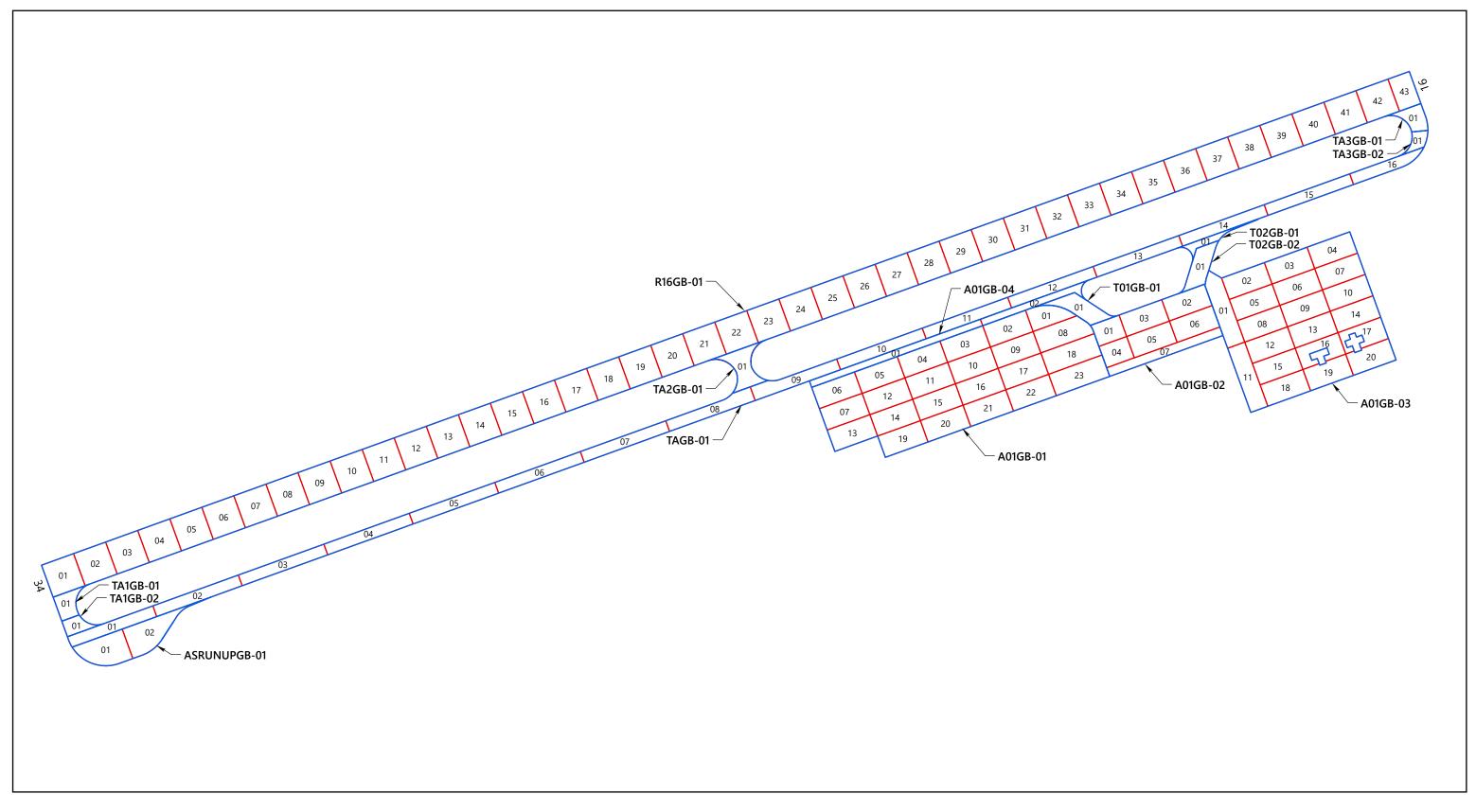




Table 3A: EXAMPLE SAMPLE RATES FOR AC PAVEMENTS

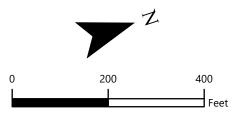
AC Sampling Rate									
Total Number of Sample Units, N	Sample Units to Survey, n								
1	1								
2-3	2								
4-6	3								
7-13	4								
14-38	5								
39+	6								

Note: AC = Asphalt Concrete



<u>LEGEND</u>

SECTION
SAMPLE UNIT





GOLD BEACH MUNICIPAL AIRPORT SAMPLE UNIT LAYOUT

DEC. 2023 JOB NO. 6593-F



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 pavements (e.g., AC and AAC) are presented in Table 1B. A summary of the pavement condition results by branch and section is 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 is 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 structural capacity, nor 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.
- Climate- and durability-related: Flexible pavement distresses include bleeding, block cracking, joint reflection cracking, longitudinal and transverse (L&T) cracking, swelling, and raveling/weathering.
- Moisture- and drainage-related: Flexible pavement distresses include alligator/fatigue cracking, depressions, potholes, and swelling.
- Other factors: Includes oil spillage, bleeding, and patching.



As described above, 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, 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 Gold Beach Municipal Airport pavement network consists of 9 branches and 15 sections. A total of 37 sample units were visually inspected in the field. Data from the inspected sample units was 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 2023 PCI survey, the area-weighted average PCI for the entire pavement network at Gold Beach Municipal Airport is approximately 85, 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 2023 survey to the PCI results from the previous inspection. The variation in PCI between inspections for Gold Beach Municipal Airport pavement sections is outlined in Table 4B in this appendix.

Table 2B: GOLD BEACH MUNICIPAL AIRPORT CURRENT BRANCH CONDITION REPORT

Branch ID	Number of Sections	Approximate Area, square feet	Use	Area Weighted Average Branch PCI	PCI Category
A01GB	4	259,373	APRON	79	Satisfactory
ASRUNUPGB	1	13,318	APRON	94	Good
R16GB	1	240,000	RUNWAY	89	Good
T01GB	1	4,395	TAXIWAY	65	Fair
T02GB	2	5,678	TAXIWAY	65	Fair
TA1GB	2	4,568	TAXIWAY	90	Good
TA2GB	1	4,679	TAXIWAY	90	Good
TA3BG	2	4,109	TAXIWAY	90	Good
TAGB	1	79,558	TAXIWAY	93	Good

Use Category	Number of Sections	Total Area, square feet	Area Weighted Average PCI
APRON	5	272,691	80
RUNWAY	1	240,000	89
TAXIWAY	9	102,987	90
ALL	15	615,678	85

Abbreviation: PCI = Pavement Condition Index



Table 3B: GOLD BEACH MUNICIPAL AIRPORT 2023 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
A01GB	01	9/1/1984	AC	APRON	7/1/2023	39	74	Satisfactory	74	0	26
A01GB	02	9/1/1963	AC	APRON	7/1/2023	60	99	Good	100	0	0
A01GB	03	9/1/1984	AC	APRON	7/1/2023	39	78	Satisfactory	100	0	0
A01GB	04	10/3/2012	AC	APRON	7/1/2023	11	94	Good	100	0	0
ASRUNUPGB	01	10/3/2012	AC	APRON	7/1/2023	11	94	Good	100	0	0
R16GB	01	9/4/2006	AC	RUNWAY	7/1/2023	17	89	Good	100	0	0
T01GB	01	9/1/1963	AC	TAXIWAY	7/1/2023	60	65	Fair	100	0	0
T02GB	01	10/3/2012	AC	TAXIWAY	7/1/2023	11	89	Good	100	0	0
T02GB	02	9/1/1963	AC	TAXIWAY	7/1/2023	60	55	Poor	85	15	0
TA1GB	01	9/4/2006	AC	TAXIWAY	7/1/2023	17	90	Good	100	0	0
TA1GB	02	10/3/2012	AC	TAXIWAY	7/1/2023	11	90	Good	100	0	0
TA2GB	01	9/4/2006	AC	TAXIWAY	7/1/2023	17	90	Good	100	0	0
TA3BG	01	9/4/2006	AC	TAXIWAY	7/1/2023	17	90	Good	100	0	0
TA3BG	02	10/2/2012	AC	TAXIWAY	7/1/2023	11	90	Good	100	0	0
TAGB	01	10/3/2012	AC	TAXIWAY	7/1/2023	11	93	Good	100	0	0

Abbreviations:

PCI = Pavement Condition Index, AC = Asphalt Concrete



Table 4B: GOLD BEACH MUNICIPAL AIRPORT COMPARISON OF PREVIOUS INSPECTION AND 2023 RESULTS

			Approximate									
			Area, square			2019 Su	rvey	2	023 Survey			Rate of
Branch ID	Section ID	Surface Type ¹	feet	LCD ²	PCI³	PCI Category	Inspection Date	PCI	PCI Category	Age ⁴	Δ PCI/yr⁵	Deterioration
A01GB	01	AC	117,218	9/1/84	76	Satisfactory	5/13/2019	74	Satisfactory	35	-0.48	NORMAL
A01GB	02	AC	31,810	9/1/63	68	Fair	5/13/2019	99	Good	56	7	NONE
A01GB	03	AC	100,647	9/1/84	71	Satisfactory	5/13/2019	78	Satisfactory	35	1.69	NONE
A01GB	04	AC	9,698	10/3/12	94	Good	5/13/2019	94	Good	7	0	NONE
ASRUNUPGB	01	AC	13,318	10/3/12	94	Good	5/13/2019	94	Good	7	0.00	NONE
R16GB	01	AC	240,000	9/4/06	97	Good	5/13/2019	89	Good	13	-2	NORMAL
T01GB	01	AC	4,395	9/1/63	58	Fair	5/13/2019	65	Fair	56	1.69	NONE
T02GB	01	AC	1,636	10/3/12	94	Good	5/13/2019	89	Good	7	-1	NORMAL
T02GB	02	AC	4,042	9/1/63	63	Fair	5/13/2019	55	Poor	56	-1.93	NORMAL
TA1GB	01	AC	2,678	9/4/06	83	Satisfactory	5/13/2019	90	Good	13	2	NONE
TA1GB	02	AC	1,890	10/3/12	94	Good	5/13/2019	90	Good	7	-0.97	NORMAL
TA2GB	01	AC	4,679	9/4/06	87	Good	5/13/2019	90	Good	13	1	NONE
TA3BG	01	AC	2,688	9/4/06	90	Good	5/13/2019	90	Good	13	0.00	NONE
TA3BG	02	AC	1,421	10/2/12	94	Good	5/13/2019	90	Good	7	-1	NORMAL
TAGB	01	AC	79,558	10/3/12	94	Good	5/13/2019	93	Good	7	-0.24	NORMAL

Abbreviations:



¹ AC = Asphalt Concrete, PCI = Pavement Condition Index

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

³ PCI = Pavement Condition Index

⁴ Age = Pavement age in years at the time of the PCI survey in 2019

 $^{^{5}}$ Δ PCI/yr = Change in PCI points per year between 2019 survey and 2023 survey



APPENDIX C

Future Pavement Condition Analysis



APPENDIX C

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 Gold Beach Municipal 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 Gold Beach Municipal Airport. For each model, we reviewed the data in order to filter out any inconsistent or inaccurate data or any data that fell 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 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 4C below.



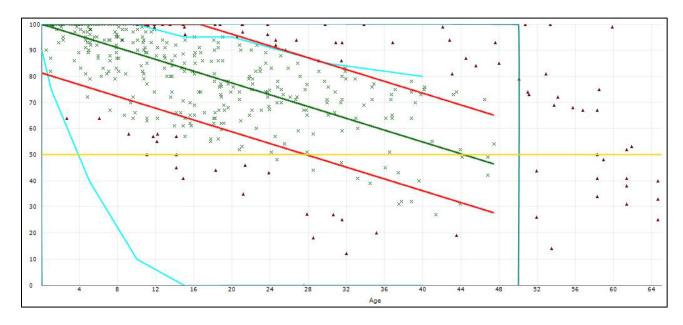


Figure 1C: CONDITION PREDICTION MODEL FOR NORTHWESTERN CATEGORY 4 AC APRONS

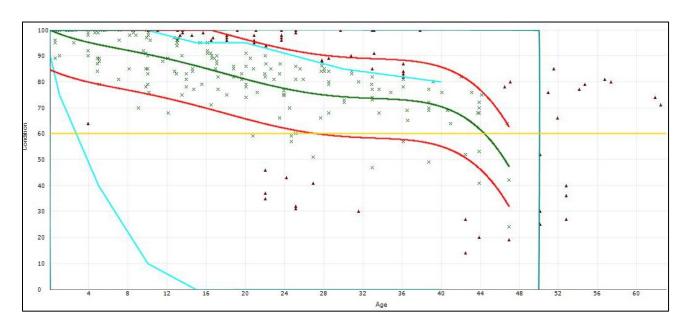


Figure 2C: CONDITION PREDICTION MODEL FOR NORTHWESTERN CATEGORY 4 AC RUNWAYS



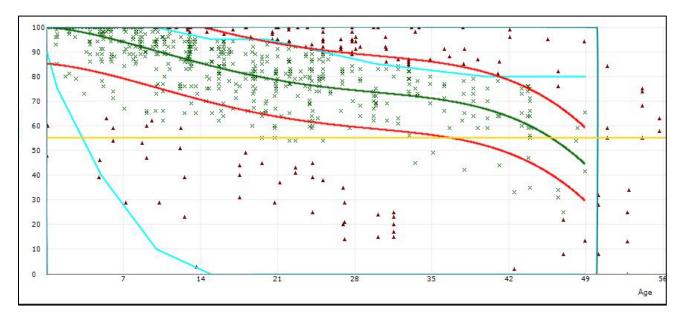


Figure 3C: CONDITION PREDICTION MODEL FOR NORTHWESTERN CATEGORY 4 AC TAXIWAYS

C.3 CRITICAL PCI

Each of the condition-prediction models has 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 (rehabilitation/reconstruction) 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 Gold Beach Municipal Airport:

- Runways 60
- Taxiways/Taxilanes 55
- Aprons 50

C.4 FUTURE CONDITION ANALYSIS

As previously discussed, the projected condition of each pavement section was determined for 5- and 10-year periods. The projected pavement conditions in 5 years and 10 years for each pavement section at Gold Beach Municipal 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 Gold Beach Municipal 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 F	uture PCI
BranchID	SectionID	2019	2023	2028	2033
A01GB	01	76	74	68	63
A01GB	02	68	99	93	88
A01GB	03	71	78	72	67
A01GB	04	94	94	88	83
ASRUNUPGB	01	94	94	88	83
R16GB	01	97	89	84	79
T01GB	01	58	65	54	37
T02GB	01	94	89	83	78
T02GB	02	63	55	38	20
TA1GB	01	83	90	84	79
TA1GB	02	94	90	84	79
TA2GB	01	87	90	84	79
TA3BG	01	90	90	84	79
TA3BG	02	94	90	84	79
TAGB	01	94	93	87	81

Abbreviation: PCI = Pavement Condition Index



Table 2C: GOLD BEACH MUNICIPAL AIRPORT FUNCTIONAL REMAINING LIFE ANALYSIS

						Years to End of
		Surface	Current	Years to Major	Major M&R	Functional Service
Branch ID	Section ID	Туре	PCI	M&R	Trigger PCI ¹	Life
A01GB	01	AC	74	> 20	50	> 20
A01GB	02	AC	99	> 20	50	> 20
A01GB	03	AC	78	> 20	50	> 20
A01GB	04	AC	94	> 20	50	> 20
ASRUNUPGB	01	AC	94	> 20	50	> 20
R16GB	01	AC	89	> 20	60	> 20
T01GB	01	AC	65	0 - 5	55	6 - 10
T02GB	01	AC	89	> 20	55	> 20
T02GB	02	AC	55	0 - 5	55	0 - 5
TA1GB	01	AC	90	> 20	55	> 20
TA1GB	02	AC	90	> 20	55	> 20
TA2GB	01	AC	90	> 20	55	> 20
TA3BG	01	AC	90	> 20	55	> 20
TA3BG	02	AC	90	> 20	55	> 20
TAGB	01	AC	93	> 20	55	> 20

Abbreviations:

PCI = Pavement Condition Index, AC = Asphalt Concrete



¹ Major M&R (Maintenance and Rehabilitation) 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 Gold Beach Municipal Airport pavement network condition over time. We used PAVER v7.0.8 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, 2024. A backlog elimination analysis scenario was selected to generate a list of surface treatment, rehabilitation, and reconstruction 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.
- Rehabilitation (AC Overlay) Considered for pavements between 40 PCI and the critical PCI and for pavements exhibiting significant load-related distresses.
- Surface Treatment Treatments (fog seal, slurry seal, thin AC overlay) are 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 5-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

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 costs 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 costs 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 Gold Beach Municipal Airport and information provided by the ODAV Pavement Maintenance Program (PMP) project team. The costs for reconstruction are based on the existing pavement sections present within each branch use at Gold Beach Municipal 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: REGION 1 UNIT COST DATA

Type of M&R	Work Type	Unit Cost	Work Unit
Maior M9.D	Complete Reconstruction with AC	\$17.32	Sq Ft
Major M&R	Cold Mill and Overlay – 2 Inches Thick	\$7.64	Sq Ft
Conform Tueston and (Clabel) MOD	Surface Treatment - Slurry Seal	\$0.52	Sq Ft
Surface Treatment (Global) M&R	Surface Treatment - Fog Seal	\$0.31	Sq Ft
	Crack Sealing - AC	\$3.12	Ft
	Crack Sealing - PCC	\$23.4	Ft
Land' and Day and a MOD	Crack Sealing – Wide Cracks	\$51.48	Ft
Localized Preventive M&R	Joint Sealing – PCC	\$7.80	Ft
	AC Patching – Full Depth	\$78.00	Sq Ft
	PCC Patching – Full Depth	\$156.00	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 SURFACE TREATMENT, REHABILITATION, AND RECONSTRUCTION PROJECTS

Surface treatment, rehabilitation, and reconstruction projects refer to activities such as slurry seal/fog seals, AC overlays, and reconstruction. A list of recommended projects is provided in Table 4D of this appendix.

Table 3D: GOLD BEACH MUNICIPAL AIRPORT NETWORK MAINTENANCE REPORT

Branch ID	Section ID	Distress	Severity	Action	Work Quantity	Unit	Unit Cost	Work Cost	Section Total
A01GB	01	Long. & Trans. Cracking	Low	Crack Sealing - AC	7,797	Ft	\$3.12	\$24,328	\$24,328
A01GB	02	Long. & Trans. Cracking	Low	Crack Sealing - AC	3	Ft	\$3.12	\$10	\$10
A01GB	03	Long. & Trans. Cracking	Low	Crack Sealing - AC	6,204	Ft	\$3.12	\$19,356	\$19,356
R16GB	01	Long. & Trans. Cracking	Low	Crack Sealing - AC	2,446	Ft	\$3.12	\$7,632	\$7,632
T01GB	01	Long. & Trans. Cracking	Low	Crack Sealing - AC	425	Ft	\$3.12	\$1,326	\$2,653
T01GB	01	Block Cracking	Low	Crack Sealing - AC	425	Ft	\$3.12	\$1,327	\$2,033
T02GB	01	Long. & Trans. Cracking	Low	Crack Sealing - AC	24	Ft	\$3.12	\$75	\$75
T02GB	02	Long. & Trans. Cracking	Low	Crack Sealing - AC	452	Ft	\$3.12	\$1,410	
T02GB	02	Block Cracking	Low	Crack Sealing - AC	146	Ft	\$3.12	\$456	\$3,119
T02GB	02	Alligator Cracking	Medium	Patching - AC Deep	16	SqFt	\$78.00	\$1,252	
TA1GB	01	Long. & Trans. Cracking	Low	Crack Sealing - AC	8	Ft	\$3.12	\$25	\$25
TA1GB	02	Long. & Trans. Cracking	Low	Crack Sealing - AC	8	Ft	\$3.12	\$25	\$25
TA2GB	01	Long. & Trans. Cracking	Low	Crack Sealing - AC	25	Ft	\$3.12	\$79	\$79
TA3BG	01	Long. & Trans. Cracking	Low	Crack Sealing - AC	9	Ft	\$3.12	\$28	\$28
TA3BG	02	Long. & Trans. Cracking	Low	Crack Sealing - AC	9	Ft	\$3.12	\$28	\$28
TAGB	01	Long. & Trans. Cracking	Low	Crack Sealing - AC	27	Ft	\$3.12	\$83	\$83

Abbreviations:

Long. = Longitudinal; Trans. = Transverse; AC = Asphalt Concrete; Ft = Feet; SqFt = Square 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	Total Cost
2024	T02GB	02	TAXIWAY	AC	55	Overlay	4.042	\$7.64	\$30,882
	A01GB	01	APRON	AC	74	Fog Seal	117,218	\$0.31	\$36,337
2025	A01GB	03	APRON	AC	78	Fog Seal	100,647	\$0.31	\$31,200
	T01GB	01	TAXIWAY	AC	65	Slurry Seal	4,395	\$0.52	\$2,285
	T02GB	01	TAXIWAY	AC	89	Slurry Seal	1,636	\$0.52	\$851
	TA1GB	01	TAXIWAY	AC	90	Slurry Seal	2,678	\$0.52	\$1,393
2027	TA1GB	02	TAXIWAY	AC	90	Slurry Seal	1,890	\$0.52	\$983
	TA2GB	01	TAXIWAY	AC	90	Slurry Seal	4,679	\$0.52	\$2,433
	TA3BG	01	TAXIWAY	AC	90	Slurry Seal	2,688	\$0.52	\$1,398
	TA3BG	02	TAXIWAY	AC	90	Slurry Seal	1,421	\$0.52	\$739

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

Cost Summary	
2024 Total Project Cost	\$30,882
2025 Total Project Cost	\$67,538
2026 Total Project Cost	\$0
2027 Total Project Cost	\$10,081
2028 Total Project Cost	\$0
Total 5-Year Project Cost	\$108,501





APPENDIX E

Reinspection Report

ODA_2023Survey_11-21-23

Generated Date 12/5/2023 Page 1 of 15

Generated Date	12/5/2023					rage 1 of 13
Network: Gold Beach		Name:	Gold Beach Municipa	al		
Branch: A01GB	Name:	Apron 01 Gold Beach	Use: A	PRON	Area:	259,373 SqFt
Section: 03	of 4	From: A01GB-02		To: Hangars		Last Const.: 9/1/1984
Surface: AC	Family: 2023_Region1_ n_AC	Cat4_Apro Zone:	4S1	Category: D		Rank: S
Area: 100,64	7 SqFt Length:	340 Ft	Width:	300 Ft		
Slabs:	Slab Length:	Ft Slab V	Vidth:	Ft	Joint Leng	th: Ft
Shoulder:	Street Type:	Grade	: 0		Lanes:	0
Section Comments:						
Work Date: 9/1/1984	Work Type: Base	Course - Aggregate	Code	: BA-AG	Is Maj	or M&R: False
Work Date: 9/1/1984	Work Type: New	Construction - AC	Code	: NC-AC	Is Maj	or M&R: True
Work Date: 9/1/2003	Work Type: Surfa	ce Treatment - Slurry Seal	Code	: ST-SS	Is Maj	or M&R: False
Work Date: 9/1/2003	Work Type: Crack	Sealing - AC	Code	: CS-AC	Is Maj	or M&R: False
Work Date: 6/1/2011	Work Type: Crack	Sealing - AC	Code	: CS-AC	Is Maj	or M&R: False
Last Insp. Date: 7/1/2023	TotalSa	amples: 20	Surveyed:	5		
Conditions: PCI: 78						
Inspection Comments:						
Sample Number: 04	Type: R	Area:	5000.00 SqFt	PCI: 71		
Sample Comments:	• •		-			
48 L & T CR	L	172.00 Ft				
48 L & T CR	L	363.00 Ft				
57 WEATHERING	L	5000.00 SqFt				
Sample Number: 06	Type: R	Area:	5000.00 SqFt	PCI: 77		
Sample Comments:						
48 L & T CR	L	339.00 Ft				
48 L & T CR	L	4.00 Ft				
57 WEATHERING	L	5000.00 SqFt				
Sample Number: 08	Type: R	Area:	5000.00 SqFt	PCI: 82		
Sample Comments:						
48 L & T CR	L	11.00 Ft				
48 L & T CR	L	206.00 Ft				
57 WEATHERING	L	5000.00 SqFt				
Sample Number: 09	Type: R	Area:	5000.00 SqFt	PCI: 81		
Sample Comments:						
48 L & T CR	L	230.00 Ft				
57 WEATHERING	L	5000.00 SqFt				
Sample Number: 13	Type: R	Area:	5000.00 SqFt	PCI: 82		
Sample Comments:						
48 L & T CR	L	75.00 Ft				
48 L & T CR	L	141.00 Ft				
57 WEATHERING	L	5000.00 SqFt				

Netwo	rk:	Gold Beach					Nar	ne:	Goi	d Beach M	rumerpa							
Brancl	h:	A01GB			Name:	Apro	n 01 Gol	ld Beacl	h	Use	e: A	PRON		Area:	2	259,373 S	qFt	
Section	n: 0	1	C	of 4		From:	Taxiwa	ay A				To: Har	gars			Last C	onst.:	9/1/1984
Surfac	e: A	AC .	Family:	202: n_A		nl_Cat4_Ap	ro Zo r	ie:	4S1			Category	D			Rank:	P	
Area:		117,2	18 SqFt		Length	:	625 1	Ft		Width:		200 1	₹t					
Slabs:			Slab Le	ngth:		Ft		Slab '	Width:			Ft		Join	t Length:		Ft	
Should	der:		Street T	ype:				Grad	e: 0					Lan	es: 0			
Section	n Com	iments:																
Work 1	Date:	9/1/1984	W	ork T	ype: Bas	se Course - 1	Aggrega	te			Code:	BA-AG]	ls Major	M&R: F	alse	
Work 1	Date:	9/1/1984	W	ork T	ype: Ne	w Construct	ion - AC	7			Code:	NC-AC]	s Major	M&R: T	rue	
Work 1	Date:	9/1/2003	W	ork T	ype: Sur	face Treatm	ent - Slu	ırry Sea	1		Code:	ST-SS]	ls Major	M&R: F	alse	
Work 1	Date:	9/1/2003	W	ork T	ype: Cra	ick Sealing -	AC				Code:	CS-AC]	ls Major	M&R: F	alse	
Work 1	Date:	6/1/2011	W	ork T	ype: Cra	ick Sealing -	AC				Code:	CS-AC]	s Major	M&R: F	alse	
Last In	nsp. D	ate: 7/1/2023	3		Total	Samples:	23			Surv	eyed:	5						
Condit	tions:	PCI: 74																
Inspec	tion C	Comments:																
Sample	e Num	nber: 01	Ту	pe:	R		Area:		500	0.00 SqFt		PCI:	72					
Sample	e Com	nments:																
45	DEPF	RESSION		I	_	220.00	SqFt											
	L & 7			I		97.00												
	L & 7			I		73.00												
		THERING		I		5000.00	SqFt											
Sample	e Num	nber: 08	Ty	pe:	R		Area:		500	0.00 SqFt		PCI:	69					
Sample	e Com	iments:																
45	DEPF	RESSION		I	_	120.00	SqFt											
48	L & 7	ΓCR		I	_	409.00												
57	WEA	THERING		I	_	5000.00	SqFt											
Sample	e Num	nber: 11	Ту	pe:	R		Area:		500	0.00 SqFt		PCI:	77					
Sample	e Com	nments:																
48	L & 7	ΓCR		I	_	86.00	Ft											
	L&1			I		252.00												
		THERING		I		5000.00												
Sample	e Num	iber: 15	Ту	pe:	R		Area:		500	0.00 SqFt		PCI:	76					
Sample	e Com	nments:																
48	L & 7	ΓCR		I		369.00	Ft											
57	WEA	THERING		I		5000.00	SqFt											
		iber: 16	Ту	pe:	R		Area:		500	0.00 SqFt		PCI:	75					
Sample	e Com	iments:																
	L & 7			I		77.00												
48	L & 7	ΓCR		I	_	300.00	Ft											
		THERING		I		5000.00												

Network: Gold Beach		Name:	Gold Beach Muni	cipal	
Branch: A01GB	Name:	Apron 01 Gold Be	each Use:	APRON	Area: 259,373 SqFt
Section: 02 Surface: AC		From: A01GB-01 Cat4_Apro Zone:	4S1	To: A01GB-03 Category: D	Last Const.: 9/1/1963 Rank: P
Area: 31,81	0 SqFt Length:	265 Ft	Width:	120 Ft	
Slabs:	Slab Length:	Ft Sla	b Width:	Ft	Joint Length: Ft
Shoulder:	Street Type:	Gr	rade: 0		Lanes: 0
Section Comments:					
Work Date: 9/1/1963	Work Type: Base	Course - Aggregate	Co	ode: BA-AG	Is Major M&R: False
Work Date: 9/1/1963	Work Type: New	Construction - AC	Co	ode: NC-AC	Is Major M&R: True
Work Date: 9/1/1995	Work Type: Surfa	ce Treatment - Slurry S	Seal Co	ode: ST-SS	Is Major M&R: False
Work Date: 9/1/2003	Work Type: Crack	Sealing - AC	Co	ode: CS-AC	Is Major M&R: False
Work Date: 6/1/2011	Work Type: Crack	Sealing - AC	Co	ode: CS-AC	Is Major M&R: False
Last Insp. Date: 7/1/2023	TotalSa	amples: 7	Surveye	d: 4	
Conditions: PCI: 99					
Inspection Comments:					
Sample Number: 02	Type: R	Area:	5000.00 SqFt	PCI: 100	
Sample Comments:					
<no distress=""></no>					
Sample Number: 03	Type: R	Area:	5000.00 SqFt	PCI: 98	
Sample Comments:					
48 L & T CR	L	2.00 Ft			
Sample Number: 05	Type: R	Area:	5000.00 SqFt	PCI: 100	
Sample Comments:					
<no distress=""></no>					
Sample Number: 06	Type: R	Area:	5000.00 SqFt	PCI: 100	
Sample Comments:					

<No Distress>

Network:	Gold Beach				Name:	Gold Be	ach Mun	icipal					
Branch:	A01GB		Name:	Apron 01	Gold Beach		Use:	APRON		Area:	259,37	73 SqFt	
Section: (04	of	4	From: Ta	xiway A			To:	Section 01		La	st Const.:	10/3/2012
Surface:	AC		2023_Region n_AC	n1_Cat4_Apro	Zone:	4S1		Categ	gory: D		Ra	nk: S	
Area:	9,69	98 SqFt	Length	:	554 Ft	W	idth:		15 Ft				
Slabs:		Slab Leng	th:	Ft	Slab W	Vidth:		Ft		Joint Le	ngth:	F	:
Shoulder:		Street Typ	e:		Grade	: 0				Lanes:	0		
Section Con	nments:												
Work Date:	: 10/1/2012	Woı	rk Type: Sub	obase - Aggrega	te		C	ode: SB-A	AG	Is M	ajor M&R	: False	
Work Date:	: 10/2/2012	Woi	rk Type: Bas	se Course - Agg	regate		C	ode: BA-	AG	Is M	ajor M&R	: False	
Work Date:	: 10/3/2012	Woi	rk Type: Ne	w Construction	- AC		C	ode: NC-	AC	Is M	ajor M&R	: True	
Last Insp. E	Date: 7/1/2023		Total	Samples: 2			Surveye	d: 2					
Conditions:	PCI: 94												
Inspection (Comments:												
Sample Nur	mber: 01	Туре	: R	Are	ea:	6000.00	SqFt]	PCI: 94				
Sample Cor	mments:												
57 WEA	ATHERING		L	6000.00 S	qFt								
Sample Nur	mber: 02	Туре	: R	Are	ea:	3698.00	SqFt]	PCI: 94				
Sample Cor	mments:												
57 WEA	ATHERING		L	3698.00 S	aEt								

Network:	Gold Beach				Name:	Gold Beach N	Aunicipa	ıl				
Branch:	ASRUNUPGI	3	Name:	South Ru	n-Up Apron	Us	e: A	PRON	Area:	13	3,318 SqFt	
Section:	01	of	1	From: So	uth End of Ta	xiway A		To: East			Last Const.:	10/3/2012
Surface:	AC	Family:	2023_Regio n_AC	n1_Cat4_Apro	Zone: 4	·S1		Category:	D		Rank: P	
Area:	13,31	8 SqFt	Lengtl	n: 2	263 Ft	Width:		62 Ft				
Slabs:		Slab Len	gth:	Ft	Slab W	idth:		Ft	Joint	t Length:	F	t
Shoulder:		Street Ty	pe:		Grade:	0			Lane	es: 0		
Section Co	mments:											
Work Date	: 10/1/2012	Wo	ork Type: Su	bbase - Aggrega	te		Code:	SB-AG	I	s Major M	&R: False	
Work Date	: 10/2/2012	Wo	ork Type: Ba	se Course - Agg	regate		Code:	BA-AG	1	s Major M	&R: False	
Work Date	: 10/3/2012	Wo	ork Type: Ne	ew Construction	- AC		Code:	NC-AC	1	s Major M	&R: True	
Last Insp. 1	Date: 7/1/2023		Tota	dSamples: 2		Surv	eyed:	2				
Conditions	: PCI : 94											
Inspection	Comments:											
Sample Nu	mber: 01	Тур	e: R	Are	ea:	6594.00 SqFt		PCI:	94			
Sample Co	mments:											
57 WE	ATHERING		L	6594.00 S	qFt							
Sample Nu	mber: 02	Тур	e: R	Are	ea:	6723.00 SqFt		PCI:	94			
Sample Co	mments:											
57 WE.	ATHERING		L	6723.00 S	a F t							

			G 11D 127 11		
Network: Gold Beach		Name:	Gold Beach Municip		
Branch: R16GB	Name:	Runway 16/34 Gold Bea	ach Use: R	UNWAY Area:	240,000 SqFt
Section: 01	of 1 Fr	om: Runway 34 End		To: Runway 16 End	Last Const.: 9/4/2006
Surface: AC	Family: 2023_Region1_C way_AC	Cat4_Run Zone: 4S	51	Category: D	Rank: P
Area: 240,00	0 SqFt Length:	3,200 Ft	Width:	75 Ft	
Slabs:	Slab Length:	Ft Slab Wi	dth:	Ft Jo	oint Length: Ft
Shoulder:	Street Type:	Grade:	0	L	anes: 0
Section Comments:					
Work Date: 9/1/1963	Work Type: Base C	ourse - Aggregate	Code	: BA-AG	Is Major M&R: False
Work Date: 9/2/1963	Work Type: New C	onstruction - AC	Code	: NC-AC	Is Major M&R: True
Work Date: 9/1/1995	Work Type: Surface	Treatment - Slurry Seal	Code	: ST-SS	Is Major M&R: False
Work Date: 9/1/2003	Work Type: Patchir	g - AC Deep	Code	: PA-AD	Is Major M&R: False
Work Date: 9/1/2006	Work Type: Subgra			: SG-CO	Is Major M&R: False
Work Date: 9/2/2006	Work Type: Subbas			: SB-AG	Is Major M&R: False
Work Date: 9/3/2006		ourse - Crushed Aggregate		: BA-CA	Is Major M&R: False
Work Date: 9/4/2006	Work Type: Comple	ete Reconstruction - AC	Code	: CR-AC	Is Major M&R: True
Last Insp. Date: 7/1/2023	TotalSar	nples: 43	Surveyed:	6	
Conditions: PCI: 89					
Inspection Comments:					
Sample Number: 01	Type: R	Area:	5625.00 SqFt	PCI: 89	
Sample Comments:					
48 L & T CR	L	45.00 Ft			
48 L & T CR	L	28.00 Ft			
57 WEATHERING		5625.00 SqFt			
Sample Number: 09	Type: R	Area:	5625.00 SqFt	PCI: 89	
Sample Comments:					
48 L & T CR	L	75.00 Ft			
57 WEATHERING		5625.00 SqFt			
Sample Number: 17	Type: R	Area:	5625.00 SqFt	PCI: 89	
Sample Comments:	••		•		
_	T	70.00 E4			
48 L & T CR 57 WEATHERING	L L	78.00 Ft 5625.00 SqFt			
Sample Number: 25	Type: R	Area:	5625.00 SqFt	PCI: 90	
Sample Comments:	-2Pc. 17		- 320.00 Sqr t	201. 70	
48 L & T CR	L	25.00 Ft			
57 WEATHERING		5625.00 SqFt			
Sample Number: 33	Type: R	Area:	5625.00 SqFt	PCI: 89	
Sample Comments:					
48 L & T CR	L	75.00 Ft			
57 WEATHERING	L	5625.00 SqFt			
Sample Number: 41	Type: R	Area:	5625.00 SqFt	PCI: 90	
Sample Comments:					
48 L & T CR	L	18.00 Ft			
57 WEATHERING		5625.00 SqFt			

Network: Gold Beac	ch]	Name: Gold	d Beach Municipa	al		
Branch: T01GB	Nan	ne: Taxiway 0	1 Gold Beach	Use: TA	AXIWAY	Area:	4,395 SqFt
Section: 01	of 1	From: A01	GB-04		To: A01BG-0)2	Last Const.: 9/1/196
Surface: AC	Family: 2023_Re way_AC	egion1_Cat4_Taxi	Zone: 4S1		Category: D		Rank: P
Area:	4,395 SqFt Le	ngth: 10	00 Ft	Width:	40 Ft		
Slabs:	Slab Length:	Ft	Slab Width:		Ft	Joint Length:	Ft
Shoulder:	Street Type:		Grade: 0			Lanes: 0	
Section Comments:							
Work Date: 9/1/1963	Work Type:	Base Course - Aggre	egate	Code:	BA-AG	Is Major N	M&R: False
Work Date: 9/1/1963	Work Type:	New Construction -	AC	Code:	NC-AC	Is Major N	M&R: True
Work Date: 9/1/1995	Work Type:	Surface Treatment -	Slurry Seal	Code:	ST-SS	Is Major N	M&R: False
Work Date: 9/1/2003	Work Type:	Crack Sealing - AC		Code:	CS-AC	Is Major N	M&R: False
Work Date: 6/1/2011	Work Type:	Crack Sealing - AC		Code:	CS-AC	Is Major N	M&R: False
Last Insp. Date: 7/1/20	023	TotalSamples: 1		Surveyed:	1		
Conditions: PCI: 6	65						
inspection Comments:							
Sample Number: 01	Type: I	R Area	ı: 4395	5.00 SqFt	PCI: 65		
Sample Comments:							
BLOCK CR	L	750.00 Sq	Ft				
BLOCK CR	L	645.00 Sq					
18 L & T CR	L	71.00 Ft					
18 L & T CR	L	299.00 Ft					
18 L & T CR	L	55.00 Ft					
WEATHERING	L	4395.00 Sq	Ft				

Network: (Gold Beach				Name:	Gold	l Beach Mu	nicipal	1					
Branch:	T02GB		Namo	e: Taxiwa	y 02 Gold	Beach	Use:	TA	XIWAY	Area	:	5,678	8 SqFt	
Section: 02		0	f 2	From:	Γ02GB-01				To: A010	GB-02		Las	t Const.:	9/1/1963
Surface: AC		Family:	2023_Reg way_AC	gion1_Cat4_Taxi	Zone:	4S1			Category:	D		Rar	nk: P	
Area:	4,04	2 SqFt	Len	gth:	100 Ft		Width:		40 F	t				
Slabs:		Slab Len	igth:	Ft	Sla	ab Width:			Ft		Joint Leng	th:	I	₹t
Shoulder:		Street T	ype:		Gı	rade: 0					Lanes:	0		
Section Commo	ents:													
Work Date: 9/	/1/1963	W	ork Type:	Base Course - Ag	ggregate		(Code:	BA-AG		Is Maj	or M&R:	False	
Work Date: 9/	/1/1963	W	ork Type:	New Constructio	n - AC		(Code:	NC-AC		Is Maj	or M&R:	True	
Work Date: 9/	/1/1995	W	ork Type:	Surface Treatmen	nt - Slurry	Seal	(Code:	ST-SS		Is Maj	or M&R:	False	
Work Date: 9/	/1/2003	W	ork Type:	Crack Sealing - A	AC		(Code:	CS-AC		Is Maj	or M&R:	False	
Work Date: 6/	/1/2011	W	ork Type:	Crack Sealing - A	AC		(Code:	CS-AC		Is Maj	or M&R:	False	
Last Insp. Date	e: 7/1/2023		To	otalSamples:	Į.		Survey	ed: 1	1					
Conditions:	PCI: 55													
Inspection Con	nments:													
Sample Numbe	er: 01	Тур	pe: R	A	rea:	4042	00 SqFt		PCI:	55				
Sample Comm	ents:													
41 ALLIGA	ATOR CR		M	4.00	SqFt									
43 BLOCK	CR		L	480.00	SqFt									
48 L & T C			L	428.00										
48 L & T C			L	24.00										
50 PATCH			L		SqFt									
57 WEATH	HERING		L	4042.00	SqFt									

Network:	Gold Beac	ch			1	Name:	Gold	Beach Mu	nicipal						
Branch:	T02GB		Nam	e: Ta	xiway 0	2 Gold Beach	h	Use:	TAX	IWAY		Area:		5,678 SqFt	
Section: 0	01	0	f 2	From:	Tax	iway A			Te	o: Se	ction 02			Last Cons	st.: 10/3/2012
Surface: A	AC	Family:	2023_Reg way_AC	ion1_Cat4_	Taxi Z	Zone: 48	S1		C	ategor	y: D			Rank: P	
Area:		1,636 SqFt	Len	gth:	4	40 Ft	,	Width:		15	Ft				
Slabs:		Slab Len	gth:		Ft	Slab Wi	idth:		Ft			Joint l	Length	:	Ft
Shoulder:		Street T	ype:			Grade:	0					Lanes	: 0		
Section Com	nments:														
Work Date:	10/1/2012	W	ork Type:	Subbase - A	ggregate	2		(Code: S	B-AG		Is	Major	M&R: False	;
Work Date:	10/2/2012	W	ork Type:	Base Course	e - Aggre	egate		(Code: I	BA-AG		Is	Major	M&R: False	•
Work Date:	10/3/2012	W	ork Type:	New Constr	uction -	AC		(Code: N	NC-AC		Is	Major	M&R: True	
Last Insp. D	Date: 7/1/20)23	To	talSamples	: 1			Survey	ed: 1						
Conditions:	PCI:	89													
Inspection C	Comments:														
Sample Nun	nber: 01	Туј	e: R		Area	1:	1636.0	00 SqFt		PC	I: 89				
Sample Con	nments:														

L & T CR L 24.00 Ft WEATHERING L 1636.00 SqFt

Network:	Gold Beac	h			Name:	Gol	d Beach Mu	nicipal					
Branch:	TA1GB		Name:	Taxiwa	y A1 Gold	d Beach	Use:	TAXIW	/AY	Area:	4,5	68 SqFt	
Section:	02	oi	f 2	From: S	ection 01			To:	Taxiway	y A	La	st Const.:	10/3/2012
Surface:	AC	Family:	2023_Region way_AC	1_Cat4_Taxi	Zone:	4S1		Cate	egory: D		Ra	ank: P	
Area:	1	,890 SqFt	Length	;	36 Ft		Width:		40 Ft				
Slabs:		Slab Len	gth:	Ft	SI	ab Width:		Ft		Joint	Length:	F	t
Shoulder:		Street Ty	vpe:		G	rade: 0				Lane	s: 0		
Section Co	omments:												
Work Date	e: 10/1/2012	W	ork Type: Sub	base - Aggreg	ate		(Code: SB	-AG	I	s Major M&F	R: False	
Work Date	e: 10/2/2012	W	ork Type: Bas	e Course - Ag	gregate		(Code: BA	-AG	I	s Major M&F	R: False	
Work Date	e: 10/3/2012	W	ork Type: Nev	v Construction	n - AC		(Code: NC	-AC	I	s Major M&F	R: True	
Last Insp.	Date: 7/1/20	23	Total	Samples: 1			Survey	ed: 1					
Conditions	s: PCI: 9	00											
Inspection	Comments:												
Sample Nu	umber: 01	Тур	e: R	Aı	ea:	1890	0.00 SqFt		PCI: 9	0			
Sample Co	omments:												

L & T CR WEATHERING

48 57 L 8.00 Ft L 1890.00 SqFt

Network: Gold Bead	ch			Name:	Gol	ld Beach M	unicipa	1				
Branch: TA1GB	1	Name:	Taxiway	Al Gold	Beach	Use	: T.	AXIWAY	Area:	4,56	68 SqFt	
Section: 01	of 2	Fro	om: R	unway 34	End			To: Section 0	2	La	st Const.:	9/4/2006
Surface: AC	Family: 2023 way_	_Region1_C _AC	at4_Taxi	Zone:	4S1			Category: D		Ra	ınk: P	
Area:	2,678 SqFt	Length:		56 Ft		Width:		40 Ft				
Slabs:	Slab Length:		Ft	Sla	b Width:			Ft	Joint Le	ngth:	F	t
Shoulder:	Street Type:			Gr	ade: 0				Lanes:	0		
Section Comments:												
Work Date: 9/1/1963	Work Ty	ype: Base Co	ourse - Agg	gregate			Code:	BA-AG	Is M	ajor M&R	R: False	
Work Date: 9/1/1963	Work Ty	ype: New Co	nstruction	- AC			Code:	NC-AC	Is M	ajor M&R	R: True	
Work Date: 9/1/1995	Work Ty	ype: Surface	Treatment	- Slurry S	Seal		Code:	ST-SS	Is M	ajor M&R	R: False	
Work Date: 9/1/2001	Work Ty	ype: Patching	g - AC Dec	ер			Code:	PA-AD	Is M	ajor M&R	R: False	
Work Date: 9/1/2003	Work Ty	ype: Crack S	ealing - A	С			Code:	CS-AC	Is M	ajor M&R	R: False	
Work Date: 9/1/2003	Work Ty	ype: Surface	Treatment	t - Slurry S	Seal		Code:	ST-SS	Is M	ajor M&R	R: False	
Work Date: 9/1/2006	Work Ty	y pe: Subgrad	le - Compa	ncted			Code:	SG-CO	Is M	ajor M&R	R: False	
Work Date: 9/2/2006	Work Ty	y pe: Subbase	e - Aggrega	ate			Code:	SB-AG	Is M	ajor M&R	R: False	
Work Date: 9/3/2006	Work Ty	ype: Base Co	ourse - Cru	shed Agg	regate		Code:	BA-CA	Is M	ajor M&R	R: False	
Work Date: 9/4/2006	Work Ty	ype: Comple	te Reconst	ruction - A	AC		Code:	CR-AC	Is M	ajor M&R	R: True	
Last Insp. Date: 7/1/20	023	TotalSam	ples: 1			Surve	eyed:	1				
Conditions: PCI:	90											
Inspection Comments:												
Sample Number: 01	Type:	R	Ar	ea:	267	8.00 SqFt		PCI: 90				
Sample Comments:												

L L

48 57 L & T CR WEATHERING 8.00 Ft 2678.00 SqFt

Network:	Gold Bea	ach				Name:	G	old Beach M	unicipa	1						
Branch:	TA2GB		N	ame:	Taxiwa	y A2 Gol	d Beach	Use	: TA	AXIW	AY .	Area:		4,67	9 SqFt	
Section: 0	1		of 1	I	From: I	Runway 10	6/34			To:	Taxiway A			Las	t Const.:	9/4/2006
Surface: A	.C	Family:	2023_1 way_A		_Cat4_Taxi	Zone:	4S1			Categ	gory: D			Rai	nk: P	
Area:		4,679 SqFt	I	Length:		86 Ft		Width:			35 Ft					
Slabs:		Slab L	ength:		Ft	SI	ab Widtl	h:		Ft		Join	t Lengt	h:	F	t
Shoulder:		Street '	Гуре:			G	rade:	0				Lan	es: ()		
Section Com	ments:															
Work Date:	9/1/1963	•	Vork Typ	e: Base	Course - Ag	ggregate			Code:	BA-	AG]	Is Majo	r M&R:	False	
Work Date:	9/1/1963	•	Vork Typ	e: New	Constructio	n - AC			Code:	NC-	AC]	Is Majo	r M&R	True	
Work Date:	9/1/1995	,	Vork Typ	e: Surfa	ice Treatmen	nt - Slurry	Seal		Code:	ST-S	SS]	Is Majo	r M&R	False	
Work Date:	9/1/2003	•	Vork Typ	e: Cracl	k Sealing - A	AC			Code:	CS-A	AC]	Is Majo	r M&R	False	
Work Date:	9/1/2006	•	Vork Typ	e: Subg	rade - Comp	pacted			Code:	SG-0	CO]	Is Majo	r M&R:	False	
Work Date:	9/2/2006	•	Vork Typ	e: Subb	ase - Aggre	gate			Code:	SB-A	AG]	Is Majo	r M&R	False	
Work Date:	9/3/2006	,	Vork Typ	e: Base	Course - Cr	ushed Ag	gregate		Code:	BA-	CA]	Is Majo	r M&R	False	
Work Date:	9/4/2006	•	Vork Typ	oe: Com	plete Recons	struction -	AC		Code:	CR-	AC]	Is Majo	r M&R:	True	
Last Insp. Da	ate: 7/1/2	2023		TotalS	amples:	1		Surve	eyed:	1						
Conditions:	PCI:	90														
Inspection C	omments:															
Sample Num	ber: 01	T	ype:	R	A	rea:	55	536.00 SqFt			PCI: 90					
Sample Com	ments:															
48 L & T 57 WEA	CR THERING		L L		30.00 5536.00											

Network:	Gold Beach						Name	::	Gold	l Beach M	unicipa	ıl							
Branch:	TA3BG		ľ	Name:	Tax	iway .	A3 Go	ld Beach		Use	: T.	AXIW.	AY	Ar	ea:		4,109 \$	SqFt	
Section:	02	oi	f 2	-	From:	Sec	ction 0	1				To:	Taxiwa	ay A			Last (Const.:	10/2/2012
Surface:	AC	Family:	2023 way_	_Region1 _AC	_Cat4_T	axi	Zone:	4S	1			Cate	gory: D)			Rank	: P	
Area:	1,4	121 SqFt		Length:			40 Ft			Width:			40 Ft						
Slabs:		Slab Len	gth:			Ft	5	Slab Wid	th:			Ft			Joint Le	ngth:		F	t
Shoulder:		Street Ty	ype:				(Grade:	0						Lanes:	0			
Section Co	mments:																		
Work Date	: 10/1/2012	W	ork Ty	pe: Subb	oase - Ag	gregat	te				Code:	SB-	AG		Is N	Iajor N	/1&R:]	False	
Work Date	: 10/2/2012	W	ork Ty	pe: Base	Course	- Aggı	regate				Code:	BA-	AG		Is M	Iajor N	/&R:]	False	
Work Date	: 10/2/2012	W	ork Ty	pe: New	Constru	ction -	- AC				Code:	NC-	AC		Is M	Iajor N	1&R:	True	
Last Insp. 1	Date: 7/1/2023	3		TotalS	Samples:	1				Surve	yed:	1							
Conditions	: PCI : 90																		
nspection	Comments:																		
Sample Nu	mber: 01	Typ	e:	R		Are	a:		1421	.00 SqFt			PCI:	90					
Sample Co	mments:																		
	T CR		L			00 Ft													
57 WE.	ATHERING		L		1421.0	00 Sc	ηFt												

Network: Gold Bea	ch			Name:	Gol	d Beach M	Iunicipa	1				
Branch: TA3BG		Name:	Taxiway	A3 Gold I	Beach	Use	e: T	AXIWAY	Area:		4,109 SqFt	
Section: 01	of 2	Fro	m: R	unway 16 I	End			To: Taxiwa	у А		Last Con	st.: 9/4/200
Surface: AC		3_Region1_Ca _AC	at4_Taxi	Zone:	4S1			Category: D			Rank: P	
Area:	2,688 SqFt	Length:		57 Ft		Width:		40 Ft				
Slabs:	Slab Length:		Ft	Slab	Width:			Ft	Join	t Length:		Ft
Shoulder:	Street Type:			Gra	de: 0				Lan	es: 0		
Section Comments:												
Work Date: 9/1/1963	Work T	ype: Base Co	urse - Agg	gregate			Code:	BA-AG		Is Major I	M&R: False	:
Work Date: 9/1/1963	Work T	ype: New Co	nstruction	- AC			Code:	NC-AC		Is Major I	M&R: True	
Work Date: 9/1/1995	Work T	ype: Surface	Treatment	- Slurry S	eal		Code:	ST-SS		Is Major I	M&R: False	2
Work Date: 9/1/2001	Work T	ype: Patching	g - AC Dec	ep			Code:	PA-AD		Is Major I	M&R: False	e
Work Date: 9/1/2003	Work T	ype: Surface	Treatment	- Slurry Se	eal		Code:	ST-SS		Is Major I	M&R: False	
Work Date: 9/1/2003	Work T	ype: Crack S	ealing - A	C			Code:	CS-AC		Is Major I	M&R: False	
Work Date: 9/1/2006	Work T	ype: Subgrad	e - Compa	acted			Code:	SG-CO		Is Major I	M&R: False	
Work Date: 9/2/2006	Work T	ype: Subbase	- Aggrega	ate			Code:	SB-AG		Is Major I	M&R: False	
Work Date: 9/3/2006	Work T	ype: Base Co	urse - Cru	shed Aggre	gate		Code:	BA-CA		Is Major I	M&R: False	
Work Date: 9/4/2006	Work T	ype: Comple	te Reconst	ruction - A	С		Code:	CR-AC		Is Major I	M&R: True	
Last Insp. Date: 7/1/2	023	TotalSam	ples: 1			Surve	eyed:	1				
Conditions: PCI:	90											
Inspection Comments:												
Sample Number: 01	Type:	R	Ar	ea:	268	8.00 SqFt		PCI: 9	0			
Sample Comments:												

L L

48 57 L & T CR WEATHERING 9.00 Ft 2688.00 SqFt

Network: Gold Beach		Name:	Gold Beach Municip	al	
Branch: TAGB	Name:	Taxiway A Gold Beach	Use: 7	TAXIWAY A	Area: 79,558 SqFt
Section: 01	of 1 Fro	m: Taxiway A1		To: TAxiway A	3 Last Const.: 10/3/2013
Surface: AC	Family: 2023_Region1_Caway_AC	at4_Taxi Zone: 4S	1	Category: D	Rank: P
Area: 79,558	SqFt Length:	3,175 Ft	Width:	25 Ft	
Slabs:	Slab Length:	Ft Slab Wid	lth:	Ft	Joint Length: Ft
Shoulder:	Street Type:	Grade:	0		Lanes: 0
Section Comments:					
Work Date: 9/1/1963	Work Type: New Co	nstruction - AC	Code	: NC-AC	Is Major M&R: True
Work Date: 9/1/1963	Work Type: Base Co	urse - Aggregate	Code	: BA-AG	Is Major M&R: False
Work Date: 9/1/1995	Work Type: Surface	Treatment - Slurry Seal	Code	: ST-SS	Is Major M&R: False
Work Date: 9/1/2001	Work Type: Patching	g - AC Deep	Code	: PA-AD	Is Major M&R: False
Work Date: 9/1/2003	Work Type: Crack So	ealing - AC	Code	: CS-AC	Is Major M&R: False
Work Date: 9/1/2003	Work Type: Surface	Treatment - Slurry Seal	Code	: ST-SS	Is Major M&R: False
Work Date: 10/1/2012	Work Type: Subbase	- Aggregate	Code	: SB-AG	Is Major M&R: False
Work Date: 10/2/2012	Work Type: Base Co	urse - Aggregate	Code	: BA-AG	Is Major M&R: False
Work Date: 10/3/2012	Work Type: Complete	te Reconstruction - AC	Code	: CR-AC	Is Major M&R: True
Last Insp. Date: 7/1/2023	TotalSam	ples: 16	Surveyed:	5	
Conditions: PCI: 93					
Inspection Comments:					
Sample Number: 01	Type: R	Area:	4987.00 SqFt	PCI: 94	
Sample Comments:					
57 WEATHERING	L 4	987.00 SqFt			
Sample Number: 04	Type: R	Area:	5000.00 SqFt	PCI: 94	
Sample Comments:					
57 WEATHERING	L 5	000.00 SqFt			
Sample Number: 08	Type: R	Area:	5000.00 SqFt	PCI: 91	
Sample Comments:					
48 L & T CR	L	8.00 Ft			
57 WEATHERING		000.00 SqFt			
Sample Number: 12	Type: R	Area:	5000.00 SqFt	PCI: 94	
Sample Comments:					
57 WEATHERING	L 5	000.00 SqFt			
Sample Number: 16	Type: R	Area:	3866.00 SqFt	PCI: 94	
Sample Comments:					
57 WEATHERING	L 3	866.00 SqFt			



APPENDIX F

Work History Report

Page 1 of 5

Pavement Database: ODA_2023Survey_MASTER DB-12-13-2023-5pm

Network:	Gold Beac	h Municipal Branch: A01GE	3 Apron	01 Gold Be	Section: 01		Surface:AC
L.C.D. 9/1/1	984 Us	se: APRON Rank: P L	ength: 625	.00 (Ft) Wid	lth: 200.00 ((Ft) True Area:	117218 (SqFt)
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comi	ments
6/1/2011	CS-AC	Crack Sealing - AC	0.00	0.00	P	MP 2011	
9/1/2003	CS-AC	Crack Sealing - AC	0.00	0.10			
9/1/2003	ST-SS	Surface Treatment - Slurry Seal	0.00	0.50			
9/1/1984	NC-AC	New Construction - AC	0.00	2.00			
9/1/1984	BA-AG	Base Course - Aggregate	0.00	2.00	1'	"-0	
Notwork	Gold Page	h Municipal Branch: A01GE	Anron	01 Gold Be	Section: 02	,	Surface:AC
L.C.D. 9/1/1		1	•			(Ft) True Area:	31810 (SqFt)
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comi	nents
6/1/2011	CS-AC	Crack Sealing - AC	0.00	0.00		MP 2011	
9/1/2003	CS-AC	Crack Sealing - AC	0.00	0.10			
9/1/1995	ST-SS	Surface Treatment - Slurry Seal	0.00	0.50			
9/1/1963	NC-AC	New Construction - AC	0.00	1.00			
9/1/1963	BA-AG	Base Course - Aggregate	0.00	6.00			
Network:	Gold Beac	h Municipal Branch: A01GE	3 Apron	01 Gold Be	Section: 03	3	Surface:AC
L.C.D. 9/1/1	984 Us	se: APRON Rank: S L	ength: 340	.00 (Ft) Wid	lth: 300.00 ((Ft) True Area:	100647 (SqFt)
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comi	ments
6/1/2011	CS-AC	Crack Sealing - AC	0.00	0.00	P:	MP 2011	
9/1/2003	CS-AC	Crack Sealing - AC	0.00	0.10			
9/1/2003	ST-SS	Surface Treatment - Slurry Seal	0.00	0.50			
9/1/1984	NC-AC	New Construction - AC	0.00	2.00			
9/1/1984	BA-AG	Base Course - Aggregate	0.00	2.00		"-0	
	a 115			04 G 11 B	~		
Network: L.C.D. 10/3/2		h Municipal Branch: A01GE se: APRON Rank: S L	1	01 Gold Be .00 (Ft) Wi d	Section: 04		Surface: AC 9698 (SqFt)
L.C.D. 10/3/	Work	se: APRON Kank: 5 L	ength: 654	.00 (Ft) Wid	Major	(Ft) True Area:	9098 (SqFt)
Work Date	Code	Work Description	Cost	(in)	M&R	Comi	ments
10/3/2012		New Construction - AC	0.00			401	
10/2/2012		Base Course - Aggregate	0.00	4.00	P:	209	
10/1/2012	SB-AG	Subbase - Aggregate	0.00	10.00			
Network:	Gold Beac	h Municipal Branch: ASRU	NUPGRSouth	Run-Un Anr	Section: 01		Surface:AC
L.C.D. 10/3/		_		.00 (Ft) Wi d			13318 (SqFt)
Work Date	Work	Work Description	Cost	Thickness	Major	Comi	` •
10/3/2012	Code NC-AC	New Construction - AC	0.00	(in) 2.00	M&R	401	
10/3/2012	BA-AG	Base Course - Aggregate	0.00	4.00		209	
						20)	
10/1/2012	SB-AG	Subbase - Aggregate	0.00	10.00			

Page 2 of 5

Pavement Database: ODA_2023Survey_MASTER DB-12-13-2023-5pm

Network:	Gold Beac	h Municipal Branch: R16GB	Runwa	ay 16/34 Gol	Section:	01	Surface:AC
L.C.D. 9/4/2	006 Us	se: RUNWAY Rank: P L	ength: 3,200	.00 (Ft) Wio	dth: 75.0	0 (Ft) True A	Area: 240000 (SqFt)
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R		Comments
9/4/2006	CR-AC	Complete Reconstruction - AC	0.00	2.00	V	p-403	
9/3/2006	BA-CA	Base Course - Crushed Aggregate	0.00	3.00		P-209	
9/2/2006	SB-AG	Subbase - Aggregate	0.00	11.00		P-154	
9/1/2006	SG-CO	Subgrade - Compacted	0.00	12.00		P-152	
9/1/2003	PA-AD	Patching - AC Deep	0.00	0.00		circa 2003	
9/1/1995	ST-SS	Surface Treatment - Slurry Seal	0.00	0.50			
9/2/1963	NC-AC	New Construction - AC	0.00	1.00			
9/1/1963	BA-AG	Base Course - Aggregate	0.00	6.00			
	ı						
Network:	Gold Beac	h Municipal Branch: T01GB	Taxiw	ay 01 Gold	Section:	01	Surface:AC
L.C.D. 9/1/1	963 Us	se: TAXIWAY Rank: P L	ength: 100	.00 (Ft) Wio	dth: 40.0	0 (Ft) True A	Area: 4395 (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	
9/1/2003	CS-AC	Crack Sealing - AC	0.00	0.10			
9/1/1995	ST-SS	Surface Treatment - Slurry Seal	0.00	0.50			
9/1/1963	NC-AC	New Construction - AC	0.00	1.00			
9/1/1963	BA-AG	Base Course - Aggregate	0.00	6.00			
			I				
Network:	Gold Beac	h Municipal Branch: T02GB	Taxiwa	ay 02 Gold	Section:	01	Surface:AC
L.C.D. 10/3/	2012 Us	se: TAXIWAY Rank: P L	ength: 40	.00 (Ft) Wio	dth: 15.0	0 (Ft) True A	Area: 1636 (SqFt)
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R		Comments
10/3/2012	NC-AC	New Construction - AC	0.00	2.00	V	P401	
10/2/2012	BA-AG	Base Course - Aggregate	0.00	4.00		P209	
10/1/2012	SB-AG	Subbase - Aggregate	0.00	10.00			
			•				
		h Municipal Branch: T02GB		ay 02 Gold	Section:	02	Surface:AC
L.C.D. 9/1/1		se: TAXIWAY Rank: P L		()		0 (Ft) True A	Area: 4042 (SqFt)
Work Date	Work Code	Work Description	Cost	(in)	Major M&R		Comments
6/1/2011	CS-AC	Crack Sealing - AC	0.00	0.00		PMP 2011	
9/1/2003	CS-AC	Crack Sealing - AC	0.00	0.10			
9/1/1995	ST-SS	Surface Treatment - Slurry Seal	0.00	0.50			
9/1/1963	NC-AC	New Construction - AC	0.00	1.00			
9/1/1963	BA-AG	Base Course - Aggregate	0.00	6.00	:		

Page 3 of 5

Pavement Database: ODA_2023Survey_MASTER DB-12-13-2023-5pm

Network:	Gold Beac	h Municipal Branch: TA1GE	3 Taxiw	ay A1 Gold	Section:	01		Surface:AC	
L.C.D. 9/4/2	006 Us	se: TAXIWAY Rank: P L	ength: 56	.00 (Ft) Wie	dth: 40.0	0 (Ft)	True Area:	2678 (S	SqFt)
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R		Comr	nents	
9/4/2006	CR-AC	Complete Reconstruction - AC	0.00	2.00		p-403			
9/3/2006	BA-CA	Base Course - Crushed Aggregate	0.00	3.00		P-209			
9/2/2006	SB-AG	Subbase - Aggregate	0.00	11.00		P-154			
9/1/2006	SG-CO	Subgrade - Compacted	0.00	12.00		P-152			
9/1/2003	CS-AC	Crack Sealing - AC	0.00	0.10					
9/1/2003	ST-SS	Surface Treatment - Slurry Seal	0.00	0.50					
9/1/2001	PA-AD	Patching - AC Deep	0.00	0.00		circa 20	001		
9/1/1995	ST-SS	Surface Treatment - Slurry Seal	0.00	0.50					
9/1/1963	NC-AC	New Construction - AC	0.00	1.00					
9/1/1963	BA-AG	Base Course - Aggregate	0.00	6.00					
Network:	Gold Beac	h Municipal Branch: TA1GE	B Taxiwa	ay A1 Gold	Section:	02		Surface:AC	
L.C.D. 10/3/	2012 Us	se: TAXIWAY Rank: P L	ength: 36	.40 (Ft) Wi	dth: 40.0	0 (Ft)	True Area:	1890 (S	SqFt
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R		Comr	nents	
10/3/2012	NC-AC	New Construction - AC	0.00	2.00	Y	P401			
10/2/2012	BA-AG	Base Course - Aggregate	0.00	4.00		P209			
10/1/2012	SB-AG	Subbase - Aggregate	0.00	10.00					
		h Municipal Branch: TA2GE		ay A2 Gold	Section:			Surface:AC	
L.C.D. 9/4/2		se: TAXIWAY Rank: P L	ength: 85			0 (Ft) '	True Area:	4679 (S	SqFt
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R		Comr	nents	
9/4/2006	CR-AC	Complete Reconstruction - AC	0.00	2.00	~	p-403			
9/3/2006	BA-CA	Base Course - Crushed Aggregate	0.00	3.00		P-209			
9/2/2006	SB-AG	Subbase - Aggregate	0.00	11.00	<u> </u>	P-154			
9/1/2006	SG-CO	Subgrade - Compacted	0.00	12.00	;	P-152			
9/1/2003	CS-AC	Crack Sealing - AC	0.00	0.10					
9/1/1995	ST-SS	Surface Treatment - Slurry Seal	0.00	0.50					
9/1/1963	NC-AC	New Construction - AC	0.00	1.00					
9/1/1963	BA-AG	Base Course - Aggregate	0.00	6.00					

Page 4 of 5

Pavement Database: ODA_2023Survey_MASTER DB-12-13-2023-5pm

Network:	Gold Beac	h Municipal Branch: TA3BC	G Taxiwa	ay A3 Gold	Section:	01	Surfa	ce:AC
L.C.D. 9/4/20	006 Us	se: TAXIWAY Rank: P L	ength: 57	.00 (Ft) Wie	dth: 40.0	0 (Ft) True	Area:	2688 (SqFt)
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R		Comments	
9/4/2006	CR-AC	Complete Reconstruction - AC	0.00	2.00	V	p-403		
9/3/2006	BA-CA	Base Course - Crushed Aggregate	0.00	3.00		P-209		
9/2/2006	SB-AG	Subbase - Aggregate	0.00	11.00		P-154		
9/1/2006	SG-CO	Subgrade - Compacted	0.00	12.00		P-152		
9/1/2003	CS-AC	Crack Sealing - AC	0.00	0.10				
9/1/2003	ST-SS	Surface Treatment - Slurry Seal	0.00	0.50				
9/1/2001	PA-AD	Patching - AC Deep	0.00	0.00		circa 2001		
9/1/1995	ST-SS	Surface Treatment - Slurry Seal	0.00	0.50				
9/1/1963	NC-AC	New Construction - AC	0.00	1.00				
9/1/1963	BA-AG	Base Course - Aggregate	0.00	6.00				
Network:	Gold Beac	h Municipal Branch: TA3BC	G Taxiwa	ay A3 Gold	Section:	02	Surfa	ce:AC
L.C.D. 10/2/2	2012 Us	se: TAXIWAY Rank: P L	ength: 40	.00 (Ft) Wie	dth: 40.0	0 (Ft) True	Area:	1421 (SqFt)
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R		Comments	
10/2/2012	NC-AC	New Construction - AC	0.00	2.00	V	P401		
10/2/2012	BA-AG	Base Course - Aggregate	0.00	4.00		P209		
10/1/2012	SB-AG	Subbase - Aggregate	0.00	10.00				
Network:	Gold Beac	h Municipal Branch: TAGB	Taxiwa	ay A Gold B	Section:	01	Surfa	ice:AC
L.C.D. 10/3/2	2012 Us	se: TAXIWAY Rank: P L	ength: 3,175	.00 (Ft) Wie	dth: 25.0	0 (Ft) True	Area:	79558 (SqFt)
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R		Comments	
10/3/2012	CR-AC	Complete Reconstruction - AC	0.00	2.00	V	P401		
10/2/2012	BA-AG	Base Course - Aggregate	0.00	4.00		P209		
10/1/2012	SB-AG	Subbase - Aggregate	0.00	10.00				
9/1/2003	CS-AC	Crack Sealing - AC	0.00	0.10				
9/1/2003	ST-SS	Surface Treatment - Slurry Seal	0.00	0.50				
9/1/2001	PA-AD	Patching - AC Deep	0.00	0.00		circa 2001		
9/1/1995	ST-SS	Surface Treatment - Slurry Seal	0.00	0.50				
9/1/1963	NC-AC	New Construction - AC	0.00	1.00				
9/1/1963	BA-AG	Base Course - Aggregate	0.00	6.00				

Page 5 of 5

Pavement Database: ODA_2023Survey_MASTER DB-12-13-2023-5pm

Summary:

Work Description	Section Count	Area Total (SqFt)	Thickness Avg (in)	Thickness STD (in)
Base Course - Aggregate	16	695,236.00	4.75	1.39
Base Course - Crushed Aggregate	4	250,045.00	3.00	0.00
Complete Reconstruction - AC	5	329,603.00	2.00	0.00
Crack Sealing - AC	14	605,827.01	0.06	0.05
New Construction - AC	15	615,678.00	1.47	0.50
Patching - AC Deep	4	324,924.00	0.00	0.00
Subbase - Aggregate	10	357,566.00	10.40	0.49
Subgrade - Compacted	4	250,045.00	12.00	0.00
Surface Treatment - Slurry Seal	13	672,639.00	0.50	0.00