

CE	OVERLAY	PAVE			
		MAX. G	REMARKS		
		SINGLE	DUAL	DUAL TAN.	
AYS					
401	P-609	12,500			1,2,3
				_	
AYS					
101	P-609	12,500			1,2,3
DNS					
401	P-609	12,500			1,2,3

Broadus Airport

Inspection Photos August 23, 2018

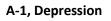




A-1, Overview



R-1, Overview with Crack





R-1, Patch with Crack



T-1, Overview



T-1, Swell

Montana Aviation System Plan

2018 Update

BROP Length:	ADUS AIR	Width: 360 LF	Area:	99.855 SF	Branch:	62A t Const: 2005	APRON	Family:	A-1
From:	ENTIRE APRON			OFF T-1	Las	t Collst. 2005		Surface:	ACAI
				Inspections					
Samples S	es Surveyed: 6 Total Samples: 20			20	Last Inspectio	on Date: 8/15	/2018	PCI:	9
Sample #	1						Area:	4,824	SF
		Distress Description WEATHERING			Severity	Quantity			
		LONGITUDINAL/TRANS	VERSE CR	ACKING	L L	4824 SF 42 LF			
		DEPRESSION	VERSE CR		L	0.16 SF			
Sample #	5						Area:	4,824	SF
	-	Distress Description			Severity	Quantity		.,	-
		LONGITUDINAL/TRANS	VERSE CRA	ACKING	L	62 LF			
		WEATHERING			L	4824 SF			
		DEPRESSION			L	10 SF			
Sample #	6						Area:	4,824	SF
		Distress Description			Severity	Quantity			
		DEPRESSION			L	0.01 SF			
		LONGITUDINAL/TRANS	VERSE CRA	ACKING	L	11 LF			
		WEATHERING			L	4824 SF			
Sample #	12						Area:	4,824	SF
		Distress Description WEATHERING			Severity	Quantity 4824 SF			
		DEPRESSION			L L	4824 SF 0.1 SF			
Sample #	14						Area:	4,824	SE
ampic #	14	Distress Description			Severity	Quantity	Alta.	4,024 5	51
		DEPRESSION			L	0.04 SF			
		PATCHING			L	0.2 SF			
		LONGITUDINAL/TRANS	VERSE CRA	ACKING	L	3 LF			
		WEATHERING			L	4824 SF			
ample #	18						Area:	4,824	SF
		Distress Description			Severity	Quantity			
		LONGITUDINAL/TRANS	VERSE CRA	ACKING	L	23 LF			
		SHOVING WEATHERING			L	0.54 SF 4824 SF			
		DEPRESSION			L L	4824 SF 4.375 SF			
		Distress Description	Extrapola	<mark>ted Distress Q</mark>	<mark>uantities*</mark> Severity	Quantity	Densit	y	Dedu
		DEPRESSION			LOW	51 SF	0.05%		0.3
		LONGITUDINAL/TRANS	VERSE CRA	ACKING	LOW	486 LF	0.499		4.0
		PATCHING			LOW	1 SF	0.009		2.0
		SHOVING			LOW	2 SF	0.009		2.0
Multiple of	deduct values are sca	WEATHERING led down from their algebraic s	um to keep th	e model consiste	LOW ent with experim	99,855 SF ental data.	100.009	Ό	5.9
		Percent of	f Deduct Va	lues Based on	Distress Mech	anism			

0.0 % Load

84.0 % Climate/Durability

16.0 % Other

Montana Aviation System Plan

2018 Update

BROA Length:	4,400 LF		Branch: 00 SF Las	62R st Const: 200	RUNWAY	Family	R-1
From:	12+00 RWY 10		WY 10-28	st Collst. 200.	,	Surface:	ACIAN
		Inspect	ions				
Samples S	urveyed:	7 Total Samples: 68	Last Inspection	on Date: 8/1	5/2018	PCI:	85
Sample #	2				Area:	4,875	SF
		Distress Description	Severity	Quantity			
		WEATHERING LONGITUDINAL/TRANSVERSE CRACKING	L L	4875 SF 26 LF			
		DEPRESSION	M	0.02 SF			
ample #	12				Area:	4,875	SE
ampic #	12	Distress Description	Severity	Quantity	Alta.	4,075	51
		PATCHING	L	0.2 SF			
		LONGITUDINAL/TRANSVERSE CRACKING	i L	82 LF			
		WEATHERING	L	4875 SF			
ample #	24				Area:	4,875	SF
		Distress Description	Severity	Quantity			
		LONGITUDINAL/TRANSVERSE CRACKING		102 LF			
		DEPRESSION	М	0.1 SF			
		WEATHERING	L	4875 SF			
ample #	35				Area:	4,875	SF
		Distress Description	Severity	Quantity			
		DEPRESSION	Н	0.2 SF			
		DEPRESSION LONGITUDINAL/TRANSVERSE CRACKING	L L	0.1 SF 67 LF			
		WEATHERING	L	4875 SF			
ample #	46				Area:	4,875	SE
ampie #	40	Distress Description	Severity	Quantity	Alta.	4,075	51
		LONGITUDINAL/TRANSVERSE CRACKING	•	65 LF			
		DEPRESSION	L	0.1 SF			
		WEATHERING	L	4875 SF			
ample #	57				Area:	4,875	SF
		Distress Description	Severity	Quantity			
		LONGITUDINAL/TRANSVERSE CRACKING		72 LF			
		DEPRESSION	L	0.1 SF			
		WEATHERING	L	4875 SF			
ample #	66				Area:	4,875	SF
		Distress Description	Severity	Quantity			
		WEATHERING	L	4875 SF 0.1 SF			
		DEPRESSION LONGITUDINAL/TRANSVERSE CRACKING	L L	0.1 SF 34 LF			
		Extrapolated Distr Distress Description	severity	Quantity	Densit	y	Deduc
		DEPRESSION	HIGH	2 SF	0.009		12.0
		DEPRESSION	LOW	4 SF	0.009		0.3
		DEPRESSION	MEDIUM	1 SF	0.009		5.2
		LONGITUDINAL/TRANSVERSE CRACKING PATCHING	LOW LOW	4,332 LF 2 SF	1.319 0.009		5.6 2.0
		WEATHERING	LOW	2 SF 330,000 SF	100.009		2.0 5.9
Multiple d	deduct values are so	caled down from their algebraic sum to keep the model of			100.007	~	5.9
		Percent of Deduct Values Bas	ed on Distress Meel	hanism			
		0.0 % Load 44	4.0 % Climate/Dura	. h:1:4		560	% Other

44.0 % Climate/Durability

Montana Aviation System Plan

BROADUS A		Branch:	62T	TAXIWAY		T- 1
Length: 1,300 LF			t Const: 200)5	Family:	
From: R/W 12 N	NORTH & SOUTH ENDS To: SOUTHWE Inspection	ST CORNER A-1			Surface:	A
	Inspection				DCI	0
Samples Surveyed:	5 Total Samples: 11	Last Inspection	on Date: 8/	15/2018	PCI:	80
ample # 1				Area:	3,680	SF
	Distress Description	Severity	Quantity			
	LONGITUDINAL/TRANSVERSE CRACKING	L	9 LF			
	DEPRESSION	L	0.01 SF			
	WEATHERING	L	3680 SF			
					2 220	0E
Sample # 4	Distroga Description	Coverity	Onontitu	Area:	3,220	SF
	Distress Description DEPRESSION	Severity	Quantity 0.04 SF			
	LONGITUDINAL/TRANSVERSE CRACKING	L L	0.04 SF 130 LF			
	DEPRESSION	L M	24.5 SF			
	PATCHING	L	0.2 SF			
	WEATHERING	L	3220 SF			
Sample # 7				Area:	3,045	SF
	Distress Description	Severity	Quantity		- ,	
	LONGITUDINAL/TRANSVERSE CRACKING	L	11 LF			
	DEPRESSION	L	0.1 SF			
	WEATHERING	L	3045 SF			
Sample # 10		a .	0	Area:	3,750	SF
	Distress Description	Severity	Quantity			
	SWELL	L	0.01 SF			
	WEATHERING	L	3750 SF			
	SHOVING PATCHING	L L	18 SF 0.2 SF			
Sample # 12		a .	0	Area:	2,880	SF
	Distress Description	Severity	Quantity			
	DEPRESSION	L	0.03 SF			
	RAVELING	Н	0.25 SF			
	DEPRESSION WEATHERING	L L	12 SF 2880 SF			
	Extrapolated Distress Distress Description	Quantities* Severity	Quantity	Densit	v	Dedu
	DEPRESSION	LOW	33 SF	0.079	•	0.3
	DEPRESSION	MEDIUM	67 SF	0.159		5.4
	LONGITUDINAL/TRANSVERSE CRACKING	LOW	412 LF	0.909		4.7
	PATCHING	LOW	1 SF	0.009		2.0
	RAVELING	HIGH	1 SF	0.009		6.0
	SHOVING	LOW	49 SF	0.119		2.0
	SWELL	LOW	0 SF	0.009		1.0
	WEATHERING	LOW	45,500 SF	100.009		5.9
Multiple deduct values	s are scaled down from their algebraic sum to keep the model cons	istent with experim	ental data.			
	Percent of Deduct Values Based	on Distress Mech	nanism			
	0.0 % Load 68.0	% Climate/Dura	bility		32.0	% Othe

BROADUS AIRPORT (62)

	US AIRPORT (62) EAR PROJECTIONS		ЕСТ	ESTIMATED AVERAGE ANNUAL COST:				
Plan Year:				EST		\$163.654	PCI	37,327
	Maintenance	Local	Global	Major <crit< th=""><th>Estimated Cost: Major>Crit</th><th>\$163,654 Total</th><th>Before</th><th>After</th></crit<>	Estimated Cost: Major>Crit	\$163,654 Total	Before	After
A-1	Preventive + Global MR	\$31	\$33,950	\$0	\$0	\$33,981	90	92
R-1	Preventive + Global MR	\$1,803	\$112,199	\$0	\$0	\$114,002	85	88
T-1	Preventive + Global MR	\$201	\$15,470	\$0	\$0	\$15,671	86	89
Plan Year:	2020				Estimated Cost:	\$1,132	PCI	
Section	Maintenance	Local	Global	Major <crit< td=""><td>Major>Crit</td><td>Total</td><td>Before</td><td>After</td></crit<>	Major>Crit	Total	Before	After
A-1	None	\$0	\$0	\$0	\$0	\$0	91	91
R-1	Preventive	\$1,030	\$0	\$0	\$0	\$1,030	87	87
T-1	Preventive	\$102	\$0	\$0	\$0	\$102	88	88
Plan Year:	2021				Estimated Cost:	\$1,544	PCI	
Section	Maintenance	Local	Global	Major <crit< td=""><td>Major>Crit</td><td>Total</td><td>Before</td><td>After</td></crit<>	Major>Crit	Total	Before	After
A-1	None	\$0	\$0	\$0	\$0	\$0	90	90
R-1	Preventive	\$1,395	\$0	\$0	\$0	\$1,395	86	86
T-1	Preventive	\$149	\$0	\$0	\$0	\$149	87	87
Plan Year:	2022				Estimated Cost:	\$1,985	PCI	
Section	Maintenance	Local	Global	Major <crit< td=""><td>Major>Crit</td><td>Total</td><td>Before</td><td>After</td></crit<>	Major>Crit	Total	Before	After
A-1	Preventive	\$29	\$0	\$0	\$0	\$29	90	90
R-1	Preventive	\$1,760	\$0	\$0		\$1,760	85	85
T-1	Preventive	\$197	\$0	\$0	\$0	\$197	86	86
Plan Year:	2023				Estimated Cost:	\$2,472	PCI	
Section	Maintenance	Local	Global	Major <crit< td=""><td>Major>Crit</td><td>Total</td><td>Before</td><td>After</td></crit<>	Major>Crit	Total	Before	After
A-1	Preventive	\$104	\$0	\$0	\$0	\$104	89	89
R-1	Preventive	\$2,125	\$0	\$0	\$0	\$2,125	84	84
T-1	Preventive	\$243	\$0	\$0	\$0	\$243	85	85
Plan Year:	2024				Estimated Cost:	\$164,577	PCI	
Section	Maintenance	Local	Global	Major <crit< td=""><td>Major>Crit</td><td>Total</td><td>Before</td><td>After</td></crit<>	Major>Crit	Total	Before	After
A-1	Preventive + Global MR	\$177	\$33,950	\$0	\$0	\$34.128	88	91
R-1	Preventive + Global MR	\$2,489	\$112,199	\$0		\$114,689	82	86
T-1	Preventive + Global MR	\$291	\$15,470	\$0	\$0	\$15,761	84	87
Plan Year:					Estimated Cost:	\$1,932	PCI	
Section	Maintenance	Local	Global	Major <crit< td=""><td>Major>Crit</td><td>Total</td><td>Before</td><td>After</td></crit<>	Major>Crit	Total	Before	After
A-1	Preventive	\$24	\$0	\$0	\$0	\$24	90	90
R-1	Preventive	\$1,717	\$0	\$0		\$1,717	85	85
T-1	Preventive	\$191	\$0	\$0	\$0	\$191	86	86
Plan Year:					Estimated Cost:	\$2,419	PCI	
Section	Maintenance	Local	Global	Major <crit< td=""><td>Major>Crit</td><td>Total</td><td>Before</td><td>After</td></crit<>	Major>Crit	Total	Before	After
A-1	Preventive	\$99	\$ 0	\$ 0	\$ 0	\$99	89	89
R-1 T-1	Preventive Preventive	\$2,082 \$238	\$0 \$0	\$0 \$0	\$0 \$0	\$2,082 \$238	84 85	84 85
1-1	Fleventive	Ş238	Ş 0	ŞU	ŞŪ	Ş236	85	85
Plan Year:		Level.	Clabel		Estimated Cost:	\$2,902	PCI	
Section	Maintenance	Local	Global	Major <crit< td=""><td>Major>Crit</td><td>Total</td><td>Before</td><td>After</td></crit<>	Major>Crit	Total	Before	After
A-1	Preventive	\$173	\$0	\$0	\$0	\$173	88	88
R-1 T-1	Preventive Preventive	\$2,443 \$286	\$0 \$0	\$0 \$0		\$2,443 \$286	83 84	83 84
		ŶĨŨŨ	¢0	¢0				
Plan Year: Section		Local	Global	Major <crit< td=""><td>Estimated Cost: Maior>Crit</td><td>\$3,391 Total</td><td>PCI Before</td><td>After</td></crit<>	Estimated Cost: Maior>Crit	\$3,391 Total	PCI Before	After
Section	Maintenance	Local	Global	IVIajor <crit< td=""><td>Iviajor>Crit</td><td>Total</td><td>Belore</td><td>Alter</td></crit<>	Iviajor>Crit	Total	Belore	Alter
A-1	Preventive	\$248	\$0	\$0	\$0	\$248	88	88
R-1 T-1	Preventive Preventive	\$2,811 \$332	\$0 \$0	\$0 \$0	\$0 \$0	\$2,811 \$332	81 83	82 83
			÷-	<i>Ş</i> 0	· ·			
Plan Year: Section	2029 Maintenance	Local	Global	Major <crit< td=""><td>Estimated Cost: Major>Crit</td><td>\$165,498_ Total</td><td>PCI Before</td><td>After</td></crit<>	Estimated Cost: Major>Crit	\$165,498_ Total	PCI Before	After
A-1 R-1	Preventive + Global MR	\$323 \$3,176	\$33,950 \$112,199	\$0 \$0		\$34,273 \$115 375	87 80	89 84
R-1 T-1	Preventive + Global MR Preventive + Global MR	\$3,176 \$380	\$112,199 \$15,470	\$0 \$0		\$115,375 \$15,849	80 82	84 85

BROADUS AIRPORT (62)

5								
FIFTEEN Y	EAR PROJECTIONS			ESTIN	MATED AVERAGE A	ANNUAL COST:		<mark>\$37,327</mark>
Plan Year	: 2030				Estimated Cost:	\$2,846	PCI	
Section	Maintenance	Local	Global	Major <crit< th=""><th>Major>Crit</th><th>Total</th><th>Before</th><th>After</th></crit<>	Major>Crit	Total	Before	After
A-1	Preventive	\$168	\$0	\$0	\$0	\$168	88	88
R-1	Preventive	\$2,397	\$0 \$0	\$0 \$0	\$0	\$2,397	83	83
T-1	Preventive	\$280	\$0	\$0	\$0	\$280	84	84
Plan Year	: 2031				Estimated Cost:	\$3,334	PCI	
Section	Maintenance	Local	Global	Major <crit< td=""><td>Major>Crit</td><td>Total</td><td>Before</td><td>After</td></crit<>	Major>Crit	Total	Before	After
A-1	Preventive	\$241	\$0	\$0	\$0	\$241	88	88
R-1	Preventive	\$2,765	\$0 \$0	\$0 \$0	\$0 \$0	\$2,765	82	82
T-1	Preventive	\$328	\$0	\$0	\$0	\$328	83	83
Plan Year	: 2032				Estimated Cost:		PCI	
Section	Maintenance	Local	Global	Major <crit< td=""><td>Major>Crit</td><td>Total</td><td>Before</td><td>After</td></crit<>	Major>Crit	Total	Before	After
A-1	Preventive	\$316	\$0	\$0	\$0	\$316	87	87
R-1	Preventive	\$3,130	\$0 \$0 \$0	\$0 \$0 \$0	\$0	\$3,130	81	81
T-1	Preventive	\$375	\$0	\$0	\$0 \$0	\$375	82	82
Plan Year	: 2033			1	Estimated Cost:		PCI	
Section	Maintenance	Local	Global	Major <crit< td=""><td>Major>Crit</td><td>Total</td><td>Before</td><td>After</td></crit<>	Major>Crit	Total	Before	After
A-1	Preventive	\$391	\$0	\$0 \$0 \$0	\$0	\$391	86	86
R-1	Preventive	\$4,078	\$0 \$0 \$0	\$ 0	\$0 \$0 \$0	\$4,078	79	79
T-1	Preventive	\$421	\$0	\$0	\$0	\$421	81	81