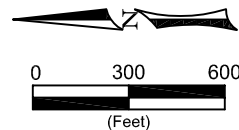
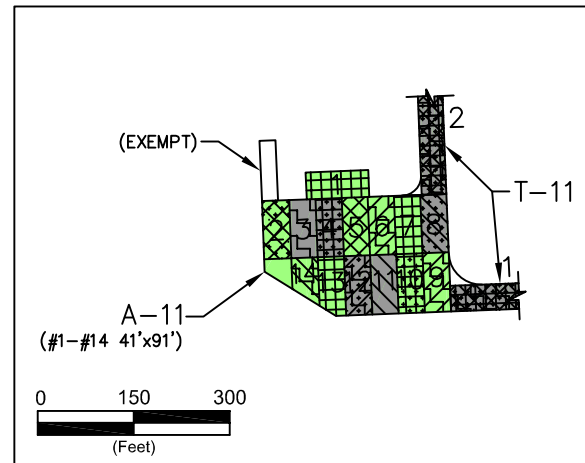
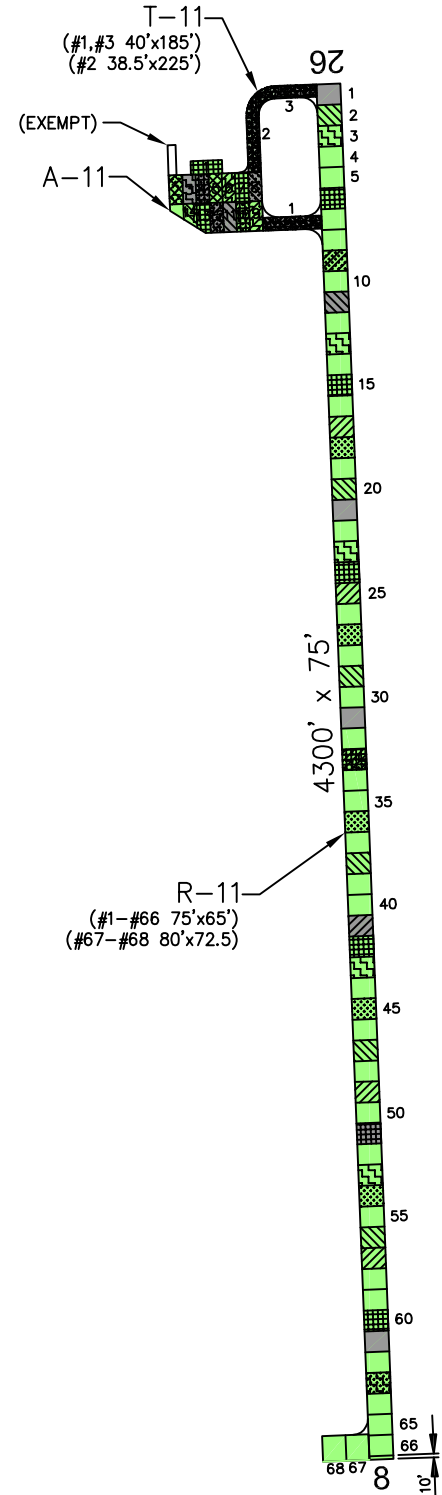


TERRY



PAVEMENT STRENGTH SURVEY/PAVEMENT CONDITION SURVEY

PAVE. IDENT.	SOIL CLASS	SUB GRADE CLASS	SUBBASE COURSE	BASE COURSE	SURFACE COURSE	OVERLAY	PAVEMENT STRENGTH			REMARKS
							MAX. GROSS LOAD (LBS)			
							SINGLE	DUAL	DUAL TAN.	
RUNWAYS										
R-11	E-1			11.5" P-207	2.5" P-401	P-609	12,500			1,2,3
TAXIWAYS										
T-11	E-1			11.5" P-207	2.5" P-401	P-609	12,500			1,2,3
APRONS										
A-11	E-1			11.5" P-207	2.5" P-401	P-609	12,500			1,2,3

REMARKS:

- ADAP, 1977, CONSTRUCTION.
- 1. AIP-001-2001, RECONSTRUCT RUNWAY, TAXIWAY, AND APRON.
- 2. AIP-002-2008, CRACK SEAL, FOG SEAL, AND REMARK ALL PAVEMENTS.
- 3. AIP-006-2014, CRACK SEAL, FOG SEAL, AND REMARK ALL PAVEMENTS.

LEGEND

- 2006 SURVEY AREA
- 2009 SURVEY AREA
- 2012 SURVEY AREA
- 2015 SURVEY AREA
- 2018 SURVEY AREA
- MAINTAIN: PCI > 60
- TRANSITION: PCI 45 TO 60
- RECONSTRUCT: PCI < 45

DATE OF PAVEMENT STRENGTH SURVEY:	
EVALUATED BY:	
DATE OF MOST RECENT PAVEMENT CONDITION SURVEY:	SEPT. 9, 2018
EVALUATED BY:	N. SCHROHT
LOCATION:	TERRY MONTANA

**MONTANA AVIATION SYSTEM PLAN
2018 UPDATE - PAVEMENT CONDITION INDEXES**

**TERRY AIRPORT
(8U6)**

Date: Prepared For: Prepared By:

DECEMBER 2018



TERRY



A-11, Overview



A-11, Crack Sealed



R-11, Overview



R-11, Slip Crack



T-11, Overview



T-11, Ravel-Crack

TERRY AIRPORT					Branch: 41A	APRON	A-11
Length: 287 LF	Width: 182 LF	Area: 52,234 SF	Last Const: 2001		Family: ACAM		
From: T-11	To: HANGARS				Surface: AC		

Inspections

Samples Surveyed: 5 **Total Samples:** 15 **Last Inspection Date:** 9/19/2018 **PCI:** 62

Sample #	Distress Description	Severity	Quantity	Area:
3	RAVELING	L	50 SF	3,731 SF
	LONGITUDINAL/TRANSVERSE CRACKING	M	58 LF	
	RAVELING	H	10 SF	
	ALLIGATOR	L	25 SF	
	LONGITUDINAL/TRANSVERSE CRACKING	L	51 LF	
6	LONGITUDINAL/TRANSVERSE CRACKING	M	5 LF	3,731 SF
	RAVELING	H	25 SF	
	LONGITUDINAL/TRANSVERSE CRACKING	L	316 LF	
	RAVELING	L	593 SF	
	PATCHING	L	9 SF	
9	LONGITUDINAL/TRANSVERSE CRACKING	M	9 LF	3,731 SF
	RAVELING	H	116 SF	
	LONGITUDINAL/TRANSVERSE CRACKING	L	98 LF	
12	PATCHING	L	27 SF	3,731 SF
	RAVELING	M	10 SF	
	RAVELING	L	650 SF	
	LONGITUDINAL/TRANSVERSE CRACKING	L	79 LF	
	DEPRESSION	L	10 SF	
	RAVELING	H	81 SF	
14	LONGITUDINAL/TRANSVERSE CRACKING	M	5 LF	3,731 SF
	RAVELING	L	100 SF	
	PATCHING	L	9 SF	
	RAVELING	H	5 SF	
	DEPRESSION	L	60 SF	
	LONGITUDINAL/TRANSVERSE CRACKING	L	65 LF	

Extrapolated Distress Quantities*

Distress Description	Severity	Quantity	Density	Deduct
ALLIGATOR	LOW	70 SF	0.13%	7.28
DEPRESSION	LOW	196 SF	0.38%	2.27
LONGITUDINAL/TRANSVERSE CRACKING	LOW	1,705 LF	3.26%	10.72
LONGITUDINAL/TRANSVERSE CRACKING	MEDIUM	216 LF	0.41%	7.60
PATCHING	LOW	126 SF	0.24%	2.05
RAVELING	HIGH	664 SF	1.27%	19.80
RAVELING	LOW	3,900 SF	7.47%	8.45
RAVELING	MEDIUM	28 SF	0.05%	4.00

* Multiple deduct values are scaled down from their algebraic sum to keep the model consistent with experimental data.

Percent of Deduct Values Based on Distress Mechanism		
12.0 % Load	84.0 % Climate/Durability	4.0 % Other

TERRY AIRPORT

Branch: 41R RUNWAY

R-11

Length: 4,300 LF **Width:** 75 LF **Area:** 322,500 SF **Last Const:** 2001 **Family:** ACRML
From: 12+00 **To:** 55+00 **Surface:** AC

Inspections

Samples Surveyed: 7 **Total Samples:** 67 **Last Inspection Date:** 9/19/2018 **PCI:** 81

Sample # 3	Distress Description PATCHING LONGITUDINAL/TRANSVERSE CRACKING	Severity L L	Quantity 0.27 SF 174 LF	Area: 4,875 SF
Sample # 13	Distress Description LONGITUDINAL/TRANSVERSE CRACKING	Severity L	Quantity 184 LF	Area: 4,875 SF
Sample # 23	Distress Description LONGITUDINAL/TRANSVERSE CRACKING LONGITUDINAL/TRANSVERSE CRACKING	Severity M L	Quantity 37 LF 178 LF	Area: 4,875 SF
Sample # 33	Distress Description LONGITUDINAL/TRANSVERSE CRACKING LONGITUDINAL/TRANSVERSE CRACKING	Severity L M	Quantity 134 LF 64 LF	Area: 4,875 SF
Sample # 43	Distress Description LONGITUDINAL/TRANSVERSE CRACKING	Severity L	Quantity 172 LF	Area: 4,875 SF
Sample # 53	Distress Description LONGITUDINAL/TRANSVERSE CRACKING SLIPPAGE	Severity L NA	Quantity 184 LF 243 SF	Area: 4,875 SF
Sample # 63	Distress Description LONGITUDINAL/TRANSVERSE CRACKING RAVELING LONGITUDINAL/TRANSVERSE CRACKING	Severity M H L	Quantity 7 LF 30 SF 140 LF	Area: 4,875 SF

Extrapolated Distress Quantities*

Distress Description	Severity	Quantity	Density	Deduct
LONGITUDINAL/TRANSVERSE CRACKING	LOW	11,019 LF	3.42%	11.10
LONGITUDINAL/TRANSVERSE CRACKING	MEDIUM	1,021 LF	0.32%	6.66
PATCHING	LOW	3 SF	0.00%	2.00
RAVELING	HIGH	284 SF	0.09%	6.00
SLIPPAGE	N/A	2,296 SF	0.71%	8.96

* Multiple deduct values are scaled down from their algebraic sum to keep the model consistent with experimental data.

Percent of Deduct Values Based on Distress Mechanism

0.0 % Load 74.0 % Climate/Durability 26.0 % Other

TERRY AIRPORT

Branch: 41T TAXIWAY

T-11

Length: 595 LF **Width:** 39 LF **Area:** 23,464 SF **Last Const:** 2001 **Family:** ACRML
From: R-11 **To:** A-11 **Surface:** AC

Inspections

Samples Surveyed: 3 **Total Samples:** 3 **Last Inspection Date:** 9/9/2018 **PCI:** 72

Sample # 1 **Area:** 7,400 SF

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	L	40 LF
WEATHERING	L	7400 SF
LONGITUDINAL/TRANSVERSE CRACKING	M	22 LF

Sample # 2 **Area:** 8,663 SF

Distress Description	Severity	Quantity
SLIPPAGE	NA	180 SF
RAVELING	M	135 SF
LONGITUDINAL/TRANSVERSE CRACKING	M	58 LF
LONGITUDINAL/TRANSVERSE CRACKING	L	151 LF
WEATHERING	L	2663 SF

Sample # 3 **Area:** 7,400 SF

Distress Description	Severity	Quantity
WEATHERING	L	7400 SF
PATCHING	L	0.09 SF
LONGITUDINAL/TRANSVERSE CRACKING	M	3 LF
LONGITUDINAL/TRANSVERSE CRACKING	L	71 LF
ALLIGATOR	L	28 SF

Extrapolated Distress Quantities*

Distress Description	Severity	Quantity	Density	Deduct
ALLIGATOR	LOW	28 SF	0.12%	7.09
LONGITUDINAL/TRANSVERSE CRACKING	LOW	262 LF	1.12%	5.20
LONGITUDINAL/TRANSVERSE CRACKING	MEDIUM	83 LF	0.35%	7.05
PATCHING	LOW	0 SF	0.00%	2.00
RAVELING	MEDIUM	135 SF	0.58%	6.45
SLIPPAGE	N/A	180 SF	0.77%	9.43
WEATHERING	LOW	17,463 SF	74.43%	5.60

* Multiple deduct values are scaled down from their algebraic sum to keep the model consistent with experimental data.

Percent of Deduct Values Based on Distress Mechanism

17.0 % Load 61.0 % Climate/Durability 22.0 % Other

TERRY AIRPORT (41)

FIFTEEN YEAR PROJECTIONS							ESTIMATED AVERAGE ANNUAL COST:		\$53,243		
Plan Year: 2019							Estimated Cost:	\$144,308		PCI	
Section	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	Before	After			
A-11	Preventive + Global MR	\$4,879	\$17,759	\$0	\$0	\$22,638	61	68			
R-11	Preventive + Global MR	\$3,011	\$109,649	\$0	\$0	\$112,660	81	84			
T-11	Preventive + Global MR	\$1,032	\$7,977	\$0	\$0	\$9,010	72	76			
Plan Year: 2020							Estimated Cost:	\$6,678		PCI	
Section	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	Before	After			
A-11	Preventive	\$3,677	\$0	\$0	\$0	\$3,677	66	66			
R-11	Preventive	\$2,283	\$0	\$0	\$0	\$2,283	83	83			
T-11	Preventive	\$718	\$0	\$0	\$0	\$718	75	75			
Plan Year: 2021							Estimated Cost:	\$7,709		PCI	
Section	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	Before	After			
A-11	Preventive	\$4,218	\$0	\$0	\$0	\$4,218	64	64			
R-11	Preventive	\$2,628	\$0	\$0	\$0	\$2,628	82	82			
T-11	Preventive	\$863	\$0	\$0	\$0	\$863	73	73			
Plan Year: 2022							Estimated Cost:	\$8,737		PCI	
Section	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	Before	After			
A-11	Preventive	\$4,756	\$0	\$0	\$0	\$4,756	62	62			
R-11	Preventive	\$2,972	\$0	\$0	\$0	\$2,972	81	81			
T-11	Preventive	\$1,009	\$0	\$0	\$0	\$1,009	72	72			
Plan Year: 2023							Estimated Cost:	\$163,570		PCI	
Section	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	Before	After			
A-11	Major Below Critical	\$0	\$0	\$158,817	\$0	\$158,817	60	100			
R-11	Preventive	\$3,598	\$0	\$0	\$0	\$3,598	80	80			
T-11	Preventive	\$1,154	\$0	\$0	\$0	\$1,154	70	70			
Plan Year: 2024							Estimated Cost:	\$123,936		PCI	
Section	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	Before	After			
A-11	None	\$0	\$0	\$0	\$0	\$0	97	97			
R-11	Preventive + Global MR	\$4,980	\$109,649	\$0	\$0	\$114,629	79	82			
T-11	Preventive + Global MR	\$1,330	\$7,977	\$0	\$0	\$9,308	69	74			
Plan Year: 2025							Estimated Cost:	\$3,922		PCI	
Section	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	Before	After			
A-11	None	\$0	\$0	\$0	\$0	\$0	94	94			
R-11	Preventive	\$2,936	\$0	\$0	\$0	\$2,936	81	81			
T-11	Preventive	\$985	\$0	\$0	\$0	\$985	72	72			
Plan Year: 2026							Estimated Cost:	\$4,573		PCI	
Section	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	Before	After			
A-11	None	\$0	\$0	\$0	\$0	\$0	91	91			
R-11	Preventive	\$3,443	\$0	\$0	\$0	\$3,443	80	80			
T-11	Preventive	\$1,131	\$0	\$0	\$0	\$1,131	70	71			
Plan Year: 2027							Estimated Cost:	\$6,230		PCI	
Section	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	Before	After			
A-11	Preventive	\$104	\$0	\$0	\$0	\$104	88	88			
R-11	Preventive	\$4,824	\$0	\$0	\$0	\$4,824	79	79			
T-11	Preventive	\$1,302	\$0	\$0	\$0	\$1,302	69	69			
Plan Year: 2028							Estimated Cost:	\$7,937		PCI	
Section	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	Before	After			
A-11	Preventive	\$249	\$0	\$0	\$0	\$249	85	85			
R-11	Preventive	\$6,205	\$0	\$0	\$0	\$6,205	78	78			
T-11	Preventive	\$1,483	\$0	\$0	\$0	\$1,483	67	67			
Plan Year: 2029							Estimated Cost:	\$127,272		PCI	
Section	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	Before	After			
A-11	Preventive	\$396	\$0	\$0	\$0	\$396	82	83			
R-11	Preventive + Global MR	\$7,583	\$109,649	\$0	\$0	\$117,232	77	80			
T-11	Preventive + Global MR	\$1,666	\$7,977	\$0	\$0	\$9,643	66	71			

TERRY AIRPORT (41)

FIFTEEN YEAR PROJECTIONS **ESTIMATED AVERAGE ANNUAL COST: \$53,243**

Plan Year: 2030		Estimated Cost:					\$6,552	PCI	
Section	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	Before	After	
A-11	Preventive	\$597	\$0	\$0	\$0	\$597	80	80	
R-11	Preventive	\$4,683	\$0	\$0	\$0	\$4,683	79	79	
T-11	Preventive	\$1,272	\$0	\$0	\$0	\$1,272	69	69	

Plan Year: 2031		Estimated Cost:					\$8,695	PCI	
Section	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	Before	After	
A-11	Preventive	\$1,181	\$0	\$0	\$0	\$1,181	77	77	
R-11	Preventive	\$6,061	\$0	\$0	\$0	\$6,061	78	78	
T-11	Preventive	\$1,453	\$0	\$0	\$0	\$1,453	68	68	

Plan Year: 2032		Estimated Cost:					\$10,838	PCI	
Section	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	Before	After	
A-11	Preventive	\$1,762	\$0	\$0	\$0	\$1,762	74	74	
R-11	Preventive	\$7,442	\$0	\$0	\$0	\$7,442	77	77	
T-11	Preventive	\$1,634	\$0	\$0	\$0	\$1,634	66	66	

Plan Year: 2033		Estimated Cost:					\$125,288	PCI	
Section	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	Before	After	
A-11	Preventive + Global MR	\$2,344	\$112,303	\$0	\$0	\$114,647	71	86	
R-11	Preventive	\$8,824	\$0	\$0	\$0	\$8,824	76	76	
T-11	Preventive	\$1,817	\$0	\$0	\$0	\$1,817	65	65	