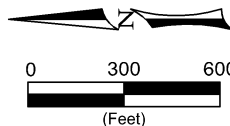
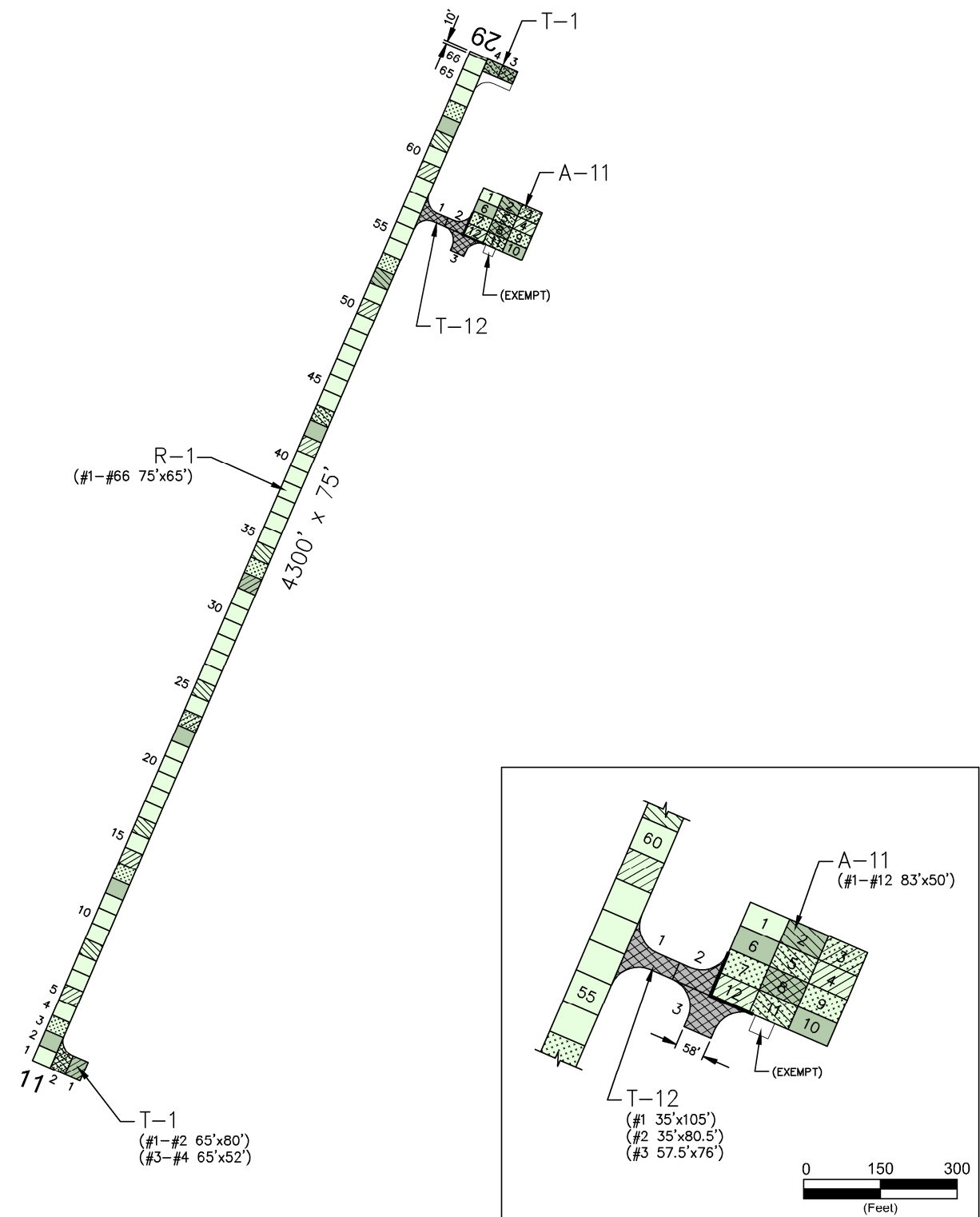


JORDAN



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-1	E-7	CBR=2.8	7" P-154	5" P-208	1.5" TRIPLE SHOT	3.5"P-401,P-609	12,500			1,2,3,4
TAXIWAYS										
T-1	E-7	CBR=2.8	7" P-154	5" P-208	P-609	3.5"P-401,P-609	12,500			1,2,3,4
T-12	E-7	CBR=2.8	GEOGRID, FABRIC, 11" P-154	4" P-208	3" P-401	P-609	12,500			2,3,4
APRONS										
A-11	E-7	CBR=2.8	GEOGRID, FABRIC, 11" P-154	4" P-208	3" P-401	P-609	12,500			2,3,4

REMARKS:

- ADAP-01, 1981, REHABILITATE RUNWAY AND TAXIWAY, CONSTRUCT RUNWAY EXTENSION, REHABILITATE AND EXPAND APRON.
- 1. AIP-01, 1991, RECONSTRUCT RUNWAY.
- 2. AIP-002-2003, RECONSTRUCT APRON AND TAXIWAY (T-12); OVERLAY REMAINING PAVEMENTS.
- 3. AIP-004-2009, CRACK SEAL, FOG SEAL, AND REMARK ALL PAVEMENTS. [INSPECTED AFTER FOG SEAL APPLICATION]
- 4. AIP-005-2014, CRACK SEAL, FOG SEAL, AND REMARK ALL PAVEMENTS.

LEGEND

- 2003 SURVEY AREA (NOT SURVEYED)
- 2006 SURVEY AREA
- 2009 SURVEY AREA
- 2012 SURVEY AREA
- 2015 SURVEY AREA
- MAINTAIN: PCI > 60
- TRANSITION: PCI 45 TO 60
- RECONSTRUCT: PCI < 45

DATE OF PAVEMENT STRENGTH SURVEY:	AUG. 1, 1989
EVALUATED BY:	J. STYBA
DATE OF MOST RECENT PAVEMENT CONDITION SURVEY:	AUG. 31, 2015
EVALUATED BY:	B. BURKLAND
LOCATION:	JORDAN MONTANA

**MONTANA AVIATION SYSTEM PLAN
2015 UPDATE - PAVEMENT CONDITION INDEXES**

**JORDAN AIRPORT
(JDN)**

Date: DECEMBER 2015 Prepared For: MONTANA DEPARTMENT OF TRANSPORTATION Prepared By: RPA Robert Peccia & Associates, Inc.

JORDAN

JORDAN AIRPORT

8/31/2015



A-11, Overview



A-11, Surface detail with oil spill



T-1, Surface detail



T-1, Overview

JORDAN AIRPORT

8/31/2015



R-1, Overview



R-1, Surface detail with swell

JORDAN AIRPORT

Branch: 37A

APRON

A-11

Length: 250 LF **Width:** 200 LF **Area:** 50,000 SF **Last Const. :** 2003 **Family:** ACAM15
From: T-12 **To:** **Surface:** AC

Inspections

Samples Surveyed: 5 **Total Samples:** 12 **Last Inspection Date (RPA)** 8/31/2015 **PCI:** 76

Sample # 3 **Area:** 4150 SF

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	L	33 LF
OIL SPILLAGE	N	99 SF
WEATHERING	L	35 SF
PATCHING	L	18 SF
RAVELING	L	14 SF
DEPRESSION	L	2 SF
DEPRESSION	M	1 SF

Sample # 5 **Area:** 4150 SF

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	L	24 LF
WEATHERING	L	40 SF
RAVELING	L	19 SF
RAVELING	M	7 SF
LONGITUDINAL/TRANSVERSE CRACKING	M	2 LF
DEPRESSION	L	4 SF
PATCHING	L	1 SF

Sample # 7 **Area:** 4150 SF

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	L	153 LF
LONGITUDINAL/TRANSVERSE CRACKING	M	18 LF
RAVELING	L	42 SF
DEPRESSION	L	30 SF
WEATHERING	L	21 SF
OIL SPILLAGE	N	3 SF

Sample # 9 **Area:** 4150 SF

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	L	129 LF
OIL SPILLAGE	N	61 SF
WEATHERING	L	33 SF
PATCHING	L	33 SF
RAVELING	L	17 SF
LONGITUDINAL/TRANSVERSE CRACKING	M	5 LF

Sample # 11 **Area:** 4150 SF

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	L	150 LF
DEPRESSION	L	57 SF
RAVELING	L	38 SF
WEATHERING	L	20 SF
LONGITUDINAL/TRANSVERSE CRACKING	M	4 LF
OIL SPILLAGE	N	6 SF
PATCHING	L	2 SF
SWELLING	L	2 SF

Extrapolated Distress Quantities*

Distress Description	Severity	Quantity	Density	Deduct
LONGITUDINAL/TRANSVERSE CRACKING	L	1292 LF	2.58 %	8.96
DEPRESSION	M	1 SF	0.00 %	5.20
LONGITUDINAL/TRANSVERSE CRACKING	M	80 LF	0.16 %	4.54
RAVELING	M	19 SF	0.04 %	4.00
DEPRESSION	L	253 SF	0.51 %	3.35
OIL SPILLAGE	N	292 SF	0.58 %	3.15
RAVELING	L	334 SF	0.67 %	2.07
PATCHING	L	117 SF	0.23 %	2.04
SWELLING	L	6 SF	0.01 %	1.00
WEATHERING	L	350 SF	0.70 %	0.40

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

JORDAN AIRPORT

Branch: 37A

APRON

A-11

Percent of Deduct Values Based on Distress Mechanism

0.0 % Load

63.0 % Climate/Durability

37.0 % Other

JORDAN AIRPORT

Branch: 37R

RUNWAY**R-1**

Length: 4,300 LF **Width:** 75 LF **Area:** 322,500 SF **Last Const. :** 2003 **Family:** ACRML15
From: STA 0+00 **To:** STA 43+00 **Surface:** AC

Inspections

Samples Surveyed: 7 **Total Samples:** 66 **Last Inspection Date (RPA)** 8/31/2015 **PCI:** 78

Sample # 3 **Area:** 4875 SF

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	L	271 LF
WEATHERING	L	25 SF
RAVELING	L	25 SF
SWELLING	L	5 SF
PATCHING	L	3 SF
WEATHERING	M	2 SF

Sample # 13 **Area:** 4875 SF

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	L	358 LF
RAVELING	L	25 SF
WEATHERING	L	25 SF
SWELLING	L	1 SF

Sample # 23 **Area:** 4875 SF

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	L	311 LF
RAVELING	L	25 SF
WEATHERING	L	25 SF

Sample # 33 **Area:** 4875 SF

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	L	318 LF
WEATHERING	L	25 SF
RAVELING	L	25 SF

Sample # 43 **Area:** 4875 SF

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	L	399 LF
RAVELING	L	25 SF
WEATHERING	L	25 SF

Sample # 53 **Area:** 4875 SF

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	L	424 LF
RAVELING	L	25 SF
WEATHERING	L	25 SF

Sample # 63 **Area:** 4875 SF

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	L	508 LF
RAVELING	L	25 SF
WEATHERING	L	25 SF

Extrapolated Distress Quantities*

Distress Description	Severity	Quantity	Density	Deduct
LONGITUDINAL/TRANSVERSE CRACKING	L	24467 LF	7.59 %	19.66
PATCHING	L	28 SF	0.01 %	2.00
RAVELING	L	1654 SF	0.51 %	1.79
WEATHERING	M	19 SF	0.01 %	1.20
SWELLING	L	57 SF	0.02 %	1.00
WEATHERING	L	1654 SF	0.51 %	0.32

* 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

96.0 % Climate/Durability

4.0 % Other

JORDAN AIRPORT

Branch: 37T

TAXIWAY

T-1

Length: 272 LF **Width:** 85 LF **Area:** 24,538 SF **Last Const. :** 2003 **Family:** ACRML15
From: RUNWAY 10/28 **To:** **Surface:** AC

Inspections

Samples Surveyed: 3 **Total Samples:** 4 **Last Inspection Date (RPA)** 8/31/2015 **PCI:** 78

Sample # 2 **Area:** 5200 SF

Distress Description	Severity	Quantity
BLEEDING	N	77 SF
LONGITUDINAL/TRANSVERSE CRACKING	L	20 LF
WEATHERING	L	26 SF
RAVELING	L	26 SF
PATCHING	L	6 SF
RAVELING	M	2 SF

Sample # 3 **Area:** 3380 SF

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	L	101 LF
PATCHING	L	93 SF
LONGITUDINAL/TRANSVERSE CRACKING	M	8 LF
WEATHERING	L	16 SF
RAVELING	L	16 SF
RAVELING	M	5 SF

Sample # 4 **Area:** 3380 SF

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	L	114 LF
RAVELING	M	26 SF
RAVELING	L	16 SF
WEATHERING	L	16 SF
PATCHING	L	1 SF

Extrapolated Distress Quantities*

Distress Description	Severity	Quantity	Density	Deduct
LONGITUDINAL/TRANSVERSE CRACKING	L	482 LF	1.96 %	7.32
RAVELING	M	68 SF	0.28 %	5.09
LONGITUDINAL/TRANSVERSE CRACKING	M	16 LF	0.07 %	4.00
BLEEDING	N	158 SF	0.64 %	3.74
PATCHING	L	205 SF	0.84 %	3.19
RAVELING	L	119 SF	0.48 %	1.74
WEATHERING	L	119 SF	0.48 %	0.31

* 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 85.0 % Climate/Durability 15.0 % Other

JORDAN AIRPORT

FIFTEEN YEAR PROJECTIONS: ESTIMATED AVERAGE ANNUAL COST: \$57,364

PLAN YEAR: 2016			ESTIMATED COST:			\$161,981	PCI	
SectionID	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	before	after
T-1	Prev. & Thin AC	\$572	\$47,849			\$48,421	77	88
A-11	Prev. & Seal Coat	\$1,740	\$14,000			\$15,740	74	79
R-1	Prev. & Seal Coat	\$7,520	\$90,300			\$97,820	77	80
PLAN YEAR: 2017			ESTIMATED COST:			\$6,828	PCI	
SectionID	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	before	after
A-11	Basic Prev.	\$1,215				\$1,215	77	77
T-1	Basic Prev.	\$126				\$126	85	85
R-1	Basic Prev.	\$5,487				\$5,487	78	78
PLAN YEAR: 2018			ESTIMATED COST:			\$9,693	PCI	
SectionID	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	before	after
T-1	Basic Prev.	\$193				\$193	83	83
A-11	Basic Prev.	\$1,782				\$1,782	74	74
R-1	Basic Prev.	\$7,718				\$7,718	77	77
PLAN YEAR: 2019			ESTIMATED COST:			\$12,486	PCI	
SectionID	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	before	after
T-1	Basic Prev.	\$255				\$255	80	81
A-11	Basic Prev.	\$2,350				\$2,350	72	72
R-1	Basic Prev.	\$9,881				\$9,881	75	76
PLAN YEAR: 2020			ESTIMATED COST:			\$15,546	PCI	
SectionID	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	before	after
T-1	Basic Prev.	\$422				\$422	79	79
R-1	Basic Prev.	\$12,035				\$12,035	74	74
A-11	Basic Prev.	\$3,089				\$3,089	70	70
PLAN YEAR: 2021			ESTIMATED COST:			\$140,223	PCI	
SectionID	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	before	after
T-1	Basic Prev.	\$611				\$611	77	77
A-11	Prev. & Seal Coat	\$4,434	\$16,230			\$20,664	67	72
R-1	Prev. & Seal Coat	\$14,265	\$104,683			\$118,948	73	76
PLAN YEAR: 2022			ESTIMATED COST:			\$16,396	PCI	
SectionID	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	before	after
T-1	Basic Prev.	\$792				\$792	76	76
R-1	Basic Prev.	\$12,493				\$12,493	74	74
A-11	Basic Prev.	\$3,111				\$3,111	70	70
PLAN YEAR: 2023			ESTIMATED COST:			\$20,374	PCI	
SectionID	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	before	after
A-11	Basic Prev.	\$4,538				\$4,538	68	68
T-1	Basic Prev.	\$971				\$971	74	75
R-1	Basic Prev.	\$14,865				\$14,865	73	73
PLAN YEAR: 2024			ESTIMATED COST:			\$24,610	PCI	
SectionID	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	before	after
R-1	Basic Prev.	\$17,436				\$17,436	72	72
A-11	Basic Prev.	\$6,017				\$6,017	66	66
T-1	Basic Prev.	\$1,157				\$1,157	73	73
PLAN YEAR: 2025			ESTIMATED COST:			\$29,258	PCI	
SectionID	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	before	after
R-1	Basic Prev.	\$20,332				\$20,332	70	71
T-1	Basic Prev.	\$1,358				\$1,358	72	72
A-11	Basic Prev.	\$7,568				\$7,568	63	64
PLAN YEAR: 2026			ESTIMATED COST:			\$242,025	PCI	
SectionID	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	before	after
R-1	Prev. & Seal Coat	\$26,740	\$121,356			\$148,096	69	72
T-1	Prev. & Thin AC	\$1,583	\$64,305			\$65,888	70	78
A-11	Prev. & Seal Coat	\$9,226	\$18,815			\$28,041	61	66
PLAN YEAR: 2027			ESTIMATED COST:			\$29,856	PCI	
SectionID	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	before	after
A-11	Basic Prev.	\$7,841				\$7,841	64	64
T-1	Basic Prev.	\$855				\$855	76	76
R-1	Basic Prev.	\$21,160				\$21,160	71	71

PLAN YEAR: 2028			ESTIMATED COST:			\$37,833	PCI	
SectionID	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	before	after
R-1	Basic Prev.	\$27,173				\$27,173	69	69
A-11	Basic Prev.	\$9,595				\$9,595	62	62
T-1	Basic Prev.	\$1,065				\$1,065	75	75
PLAN YEAR: 2029			ESTIMATED COST:			\$49,453	PCI	
SectionID	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	before	after
R-1	Basic Prev.	\$36,466				\$36,466	67	67
T-1	Basic Prev.	\$1,279				\$1,279	74	74
A-11	Basic Prev.	\$11,708				\$11,708	59	60
PLAN YEAR: 2030			ESTIMATED COST:			\$63,897	PCI	
SectionID	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	before	after
T-1	Basic Prev.	\$1,505				\$1,505	72	72
A-11	Basic Prev.	\$14,635				\$14,635	57	57
R-1	Basic Prev.	\$47,757				\$47,757	65	65