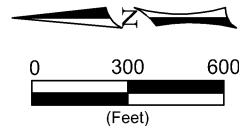
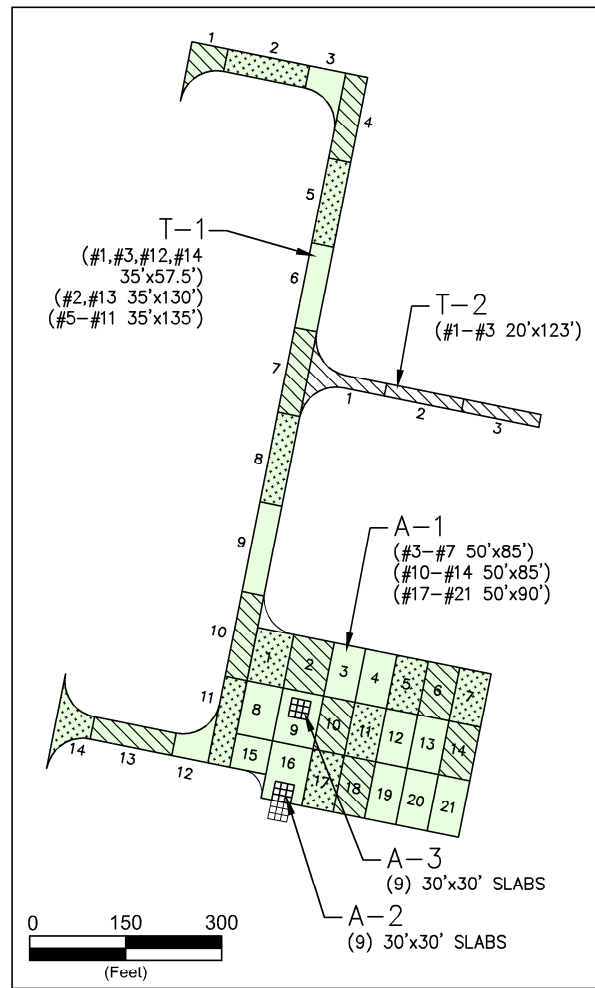
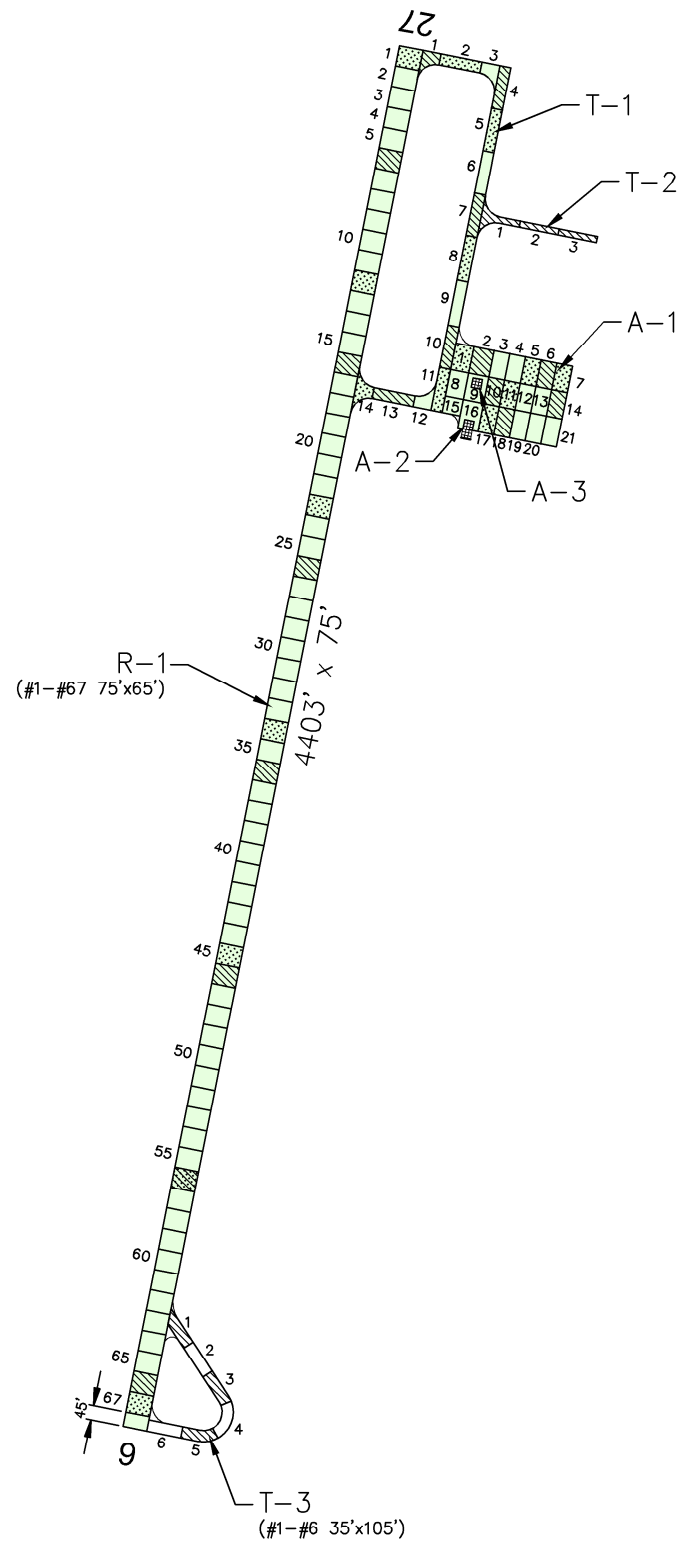


POPLAR



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		6" P-152	GEOTEX.FABRIC 9" P-154	6" P-208	3" P-401	P-608	12,500	40,000	66,000	1,2
TAXIWAYS										
T-1		6" P-152	GEOTEX.FABRIC 9" P-154	6" P-208	3" P-401	P-608	12,500	40,000	66,000	1,2
T-2		6" P-152	GEOTEX.FABRIC 9" P-154	6" P-208	3" P-401	P-608	12,500	40,000	66,000	1,2
T-3		6" P-152	GEOTEX.FABRIC 9" P-154	6" P-208	3" P-401	P-608	12,500	40,000	66,000	1,2
APRONS										
A-1		6" P-152	GEOTEX.FABRIC 9" P-154	6" P-208	3" P-401	P-608	12,500	40,000	66,000	1,2
A-2		6" P-152	GEOTEX.FABRIC 9" P-154	4" P-208	5" P-501		12,500			1
A-3		6" P-152	GEOTEX.FABRIC 9" P-154	4" P-208	5" P-501		12,500			1

REMARKS:

- AIP-006-2009, NEW POPLAR AIRPORT.
- AIP-010-2015, CRACK SEAL, SEAL COAT, AND REMARK RUNWAY, TAXIWAYS, AND APRON (A-1) [INSPECTED AFTER PROJECT].

LEGEND

- 2003 SURVEY AREA (N/A)
- 2006 SURVEY AREA (N/A)
- 2009 SURVEY AREA (N/A)
- 2012 SURVEY AREA
- 2015 SURVEY AREA
- (N/A)
- 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:

EVALUATED BY:

LOCATION:

SEPT. 1, 2015

B. BURKLAND
POPLAR MONTANA

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

**POPLAR AIRPORT
(P01)**

Date: DECEMBER 2015

Prepared For:



Prepared By:



POPLAR AIRPORT

9/1/2015



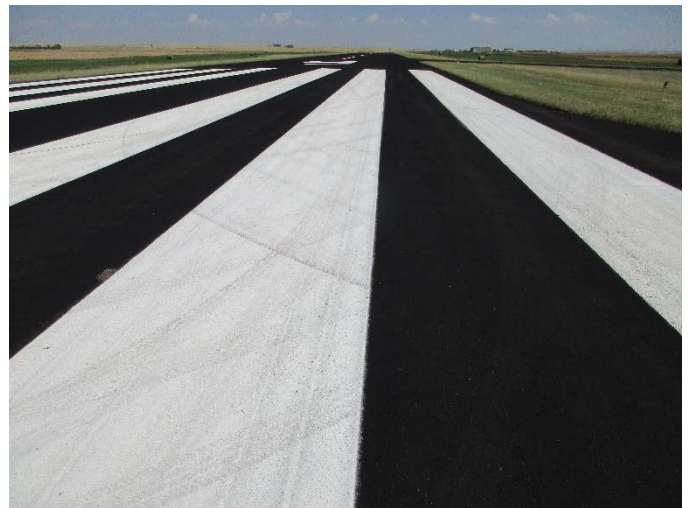
A-1, Overview



A-1, Surface detail with oil spill & bird droppings



R-1, Surface detail



R-1, Overview

POPLAR AIRPORT

9/1/2015



T-1, Overview



T-1, Surface detail

POPLAR AIRPORT

Branch: 65R

RUNWAY

R-1

Length: 4,400 LF **Width:** 75 LF **Area:** 330,000 SF **Last Const. :** 2009 **Family:** ACRMU15
From: T-1 **To:** T-3 **Surface:** AC

Inspections

Samples Surveyed: 7 **Total Samples:** 67 **Last Inspection Date (RPA)** 9/1/2015 **PCI:** 92

Sample # 1	Distress Description LONGITUDINAL/TRANSVERSE CRACKING RAVELING RAVELING	Severity L H M	Quantity 73 LF 1 SF 1 SF	Area: 4875 SF
Sample # 12	Distress Description LONGITUDINAL/TRANSVERSE CRACKING	Severity L	Quantity 47 LF	Area: 4875 SF
Sample # 23	Distress Description LONGITUDINAL/TRANSVERSE CRACKING	Severity L	Quantity 21 LF	Area: 4875 SF
Sample # 34	Distress Description LONGITUDINAL/TRANSVERSE CRACKING DEPRESSION RAVELING	Severity L M M	Quantity 41 LF 1 SF 1 SF	Area: 4875 SF
Sample # 45	Distress Description LONGITUDINAL/TRANSVERSE CRACKING	Severity L	Quantity 84 LF	Area: 4875 SF
Sample # 56	Distress Description LONGITUDINAL/TRANSVERSE CRACKING RAVELING	Severity L L	Quantity 38 LF 22 SF	Area: 4875 SF
Sample # 67	Distress Description PATCHING	Severity L	Quantity 2 SF	Area: 4875 SF

Extrapolated Distress Quantities*

Distress Description	Severity	Quantity	Density	Deduct
RAVELING	H	10 SF	0.00 %	6.00
DEPRESSION	M	10 SF	0.00 %	5.20
LONGITUDINAL/TRANSVERSE CRACKING	L	2940 LF	0.89 %	4.73
RAVELING	M	19 SF	0.01 %	4.00
PATCHING	L	19 SF	0.01 %	2.00
RAVELING	L	213 SF	0.06 %	1.00

* 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

0.0 % **Load** 77.0 % **Climate/Durability** 23.0 % **Other**

POPLAR AIRPORT

Branch: 65T

TAXIWAY

T-1

Length: 1,570 LF
From: R-1

Width: 35 LF

Area: 58,500 SF

Last Const. : 2009

Family: ACRMU15

To: R-1

Surface: AC

Inspections

Samples Surveyed: 5

Total Samples: 14

Last Inspection Date (RPA) 9/1/2015

PCI: 95

Sample # 2

Distress Description

Severity

Quantity

Area: 4550 SF

RAVELING

M

2 SF

PATCHING

L

1 SF

Sample # 5

Distress Description

Severity

Quantity

Area: 4725 SF

LONGITUDINAL/TRANSVERSE CRACKING

L

4 LF

Sample # 8

Distress Description

Severity

Quantity

Area: 4725 SF

LONGITUDINAL/TRANSVERSE CRACKING

L

1 LF

RAVELING

L

2 SF

PATCHING

L

1 SF

Sample # 11

Distress Description

Severity

Quantity

Area: 4725 SF

RAVELING

L

1 SF

DEPRESSION

L

1 SF

Sample # 14

Distress Description

Severity

Quantity

Area: 3089 SF

LONGITUDINAL/TRANSVERSE CRACKING

L

44 LF

PATCHING

L

10 SF

RAVELING

L

2 SF

Extrapolated Distress Quantities*

Distress Description

Severity

Quantity

Density

Deduct

RAVELING

M

5 SF

0.01 %

4.00

LONGITUDINAL/TRANSVERSE CRACKING

L

127 LF

0.22 %

3.26

PATCHING

L

31 SF

0.06 %

2.00

RAVELING

L

13 SF

0.02 %

1.00

DEPRESSION

L

3 SF

0.00 %

0.30

* 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

97.0 % Climate/Durability

3.0 % Other

POPLAR AIRPORT**FIFTEEN YEAR PROJECTIONS: ESTIMATED AVERAGE ANNUAL COST: \$39,692**

PLAN YEAR: 2016			ESTIMATED COST:			\$127,747	PCI	
SectionID	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	before	after
T-1	Seal Coat		\$15,876			\$15,876	93	100
A-1	Seal Coat		\$19,250			\$19,250	92	99
R-1	Prev. & Seal Coat	\$221	\$92,400			\$92,621	89	96
PLAN YEAR: 2018			ESTIMATED COST:			\$176	PCI	
SectionID	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	before	after
R-1	Basic Prev.	\$176				\$176	90	90
PLAN YEAR: 2019			ESTIMATED COST:			\$1,311	PCI	
SectionID	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	before	after
R-1	Basic Prev.	\$1,240				\$1,240	87	87
A-1	Basic Prev.	\$71				\$71	89	89
PLAN YEAR: 2020			ESTIMATED COST:			\$2,827	PCI	
SectionID	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	before	after
A-1	Basic Prev.	\$299				\$299	86	86
T-1	Basic Prev.	\$199				\$199	87	87
R-1	Basic Prev.	\$2,329				\$2,329	84	84
PLAN YEAR: 2021			ESTIMATED COST:			\$152,188	PCI	
SectionID	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	before	after
R-1	Prev. & Seal Coat	\$3,426	\$107,117			\$110,543	81	87
A-1	Prev. & Seal Coat	\$532	\$22,316			\$22,848	83	90
T-1	Prev. & Seal Coat	\$392	\$18,405			\$18,797	84	90
PLAN YEAR: 2022			ESTIMATED COST:			\$2,836	PCI	
SectionID	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	before	after
A-1	Basic Prev.	\$292				\$292	86	87
T-1	Basic Prev.	\$190				\$190	87	87
R-1	Basic Prev.	\$2,354				\$2,354	84	84
PLAN YEAR: 2023			ESTIMATED COST:			\$4,452	PCI	
SectionID	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	before	after
R-1	Basic Prev.	\$3,518				\$3,518	81	81
T-1	Basic Prev.	\$394				\$394	84	85
A-1	Basic Prev.	\$540				\$540	84	84
PLAN YEAR: 2024			ESTIMATED COST:			\$7,664	PCI	
SectionID	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	before	after
R-1	Basic Prev.	\$6,272				\$6,272	79	79
A-1	Basic Prev.	\$790				\$790	81	81
T-1	Basic Prev.	\$602				\$602	82	82
PLAN YEAR: 2025			ESTIMATED COST:			\$13,142	PCI	
SectionID	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	before	after
A-1	Basic Prev.	\$1,478				\$1,478	78	79
T-1	Basic Prev.	\$1,024				\$1,024	79	79
R-1	Basic Prev.	\$10,640				\$10,640	76	76
PLAN YEAR: 2026			ESTIMATED COST:			\$190,641	PCI	
SectionID	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	before	after
R-1	Prev. & Seal Coat	\$15,043	\$124,178			\$139,221	74	79
T-1	Prev. & Seal Coat	\$1,801	\$21,336			\$23,137	77	82
A-1	Prev. & Seal Coat	\$2,413	\$25,870			\$28,283	76	81
PLAN YEAR: 2027			ESTIMATED COST:			\$13,325	PCI	
SectionID	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	before	after
T-1	Basic Prev.	\$1,005				\$1,005	79	79
A-1	Basic Prev.	\$1,469				\$1,469	79	79
R-1	Basic Prev.	\$10,851				\$10,851	77	77
PLAN YEAR: 2028			ESTIMATED COST:			\$19,825	PCI	
SectionID	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	before	after
R-1	Basic Prev.	\$15,526				\$15,526	74	74
A-1	Basic Prev.	\$2,466				\$2,466	76	76
T-1	Basic Prev.	\$1,833				\$1,833	77	77

PLAN YEAR: 2029			ESTIMATED COST:			\$26,349	PCI	
SectionID	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	before	after
R-1	Basic Prev.	\$20,220				\$20,220	72	72
T-1	Basic Prev.	\$2,664				\$2,664	74	75
A-1	Basic Prev.	\$3,465				\$3,465	74	74
PLAN YEAR: 2030			ESTIMATED COST:			\$32,901	PCI	
SectionID	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	before	after
R-1	Basic Prev.	\$24,939				\$24,939	70	70
A-1	Basic Prev.	\$4,467				\$4,467	72	72
T-1	Basic Prev.	\$3,495				\$3,495	72	72