LIVINGSTON AIRPORT

Branch: 24A **APRON** **A-1**

Length: 303 LF **Width:** 231 LF **Area:** 69,993 SF **Last Const. :** 1993 **Family:** 9ACAH
From: ENTIRE APRON **To:** **Surface:** AC

Inspections

Samples Surveyed: 4 **Total Samples:** 13 **Last Inspection Date:** 8/25/2009 **PCI: 49**

Sample # 1 **Area:** 4473 SF

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	M	362 LF
LONGITUDINAL/TRANSVERSE CRACKING	L	311 LF
WEATHERING/RAVELING	L	400 SF
WEATHERING/RAVELING	M	180 SF
DEPRESSION	L	24 SF
OIL SPILLAGE	N	8 SF
PATCHING	L	2 SF
DEPRESSION	M	1 SF

Sample # 4 **Area:** 5775 SF

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	L	380 LF
LONGITUDINAL/TRANSVERSE CRACKING	M	321 LF
WEATHERING/RAVELING	L	578 SF
WEATHERING/RAVELING	M	191 SF
DEPRESSION	L	26 SF
PATCHING	L	4 SF
DEPRESSION	M	2 SF
OIL SPILLAGE	N	2 SF

Sample # 10 **Area:** 5575 SF

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	M	292 LF
LONGITUDINAL/TRANSVERSE CRACKING	L	197 LF
WEATHERING/RAVELING	L	578 SF
WEATHERING/RAVELING	M	217 SF
DEPRESSION	L	45 SF

Sample # 11 **Area:** 5575 SF

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	M	302 LF
LONGITUDINAL/TRANSVERSE CRACKING	L	220 LF
WEATHERING/RAVELING	M	200 SF
WEATHERING/RAVELING	L	78 SF
DEPRESSION	L	38 SF
BLEEDING	N	6 SF
OIL SPILLAGE	N	1 SF

Extrapolated Distress Quantities*

Distress Description	Severity	Quantity	Density	Deduct
LONGITUDINAL/TRANSVERSE CRACKING	M	4178 LF	5.97 %	28.21
LONGITUDINAL/TRANSVERSE CRACKING	L	3625 LF	5.18 %	15.15
WEATHERING/RAVELING	M	2578 SF	3.68 %	13.35
WEATHERING/RAVELING	L	5345 SF	7.64 %	8.55
DEPRESSION	M	10 SF	0.01 %	5.20
DEPRESSION	L	435 SF	0.62 %	4.21
OIL SPILLAGE	N	36 SF	0.05 %	2.00
PATCHING	L	20 SF	0.03 %	2.00
BLEEDING	N	20 SF	0.03 %	0.00

* 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** 85.0 **% Climate/Durability** 15.0 **% Other**

LIVINGSTON AIRPORT

Branch: 24A **APRON** **A-2**

Length: 275 LF **Width:** 202 LF **Area:** 55,550 SF **Last Const. :** 1993 **Family:** 9ACAM
From: **To:** **Surface:** AC

Inspections

Samples Surveyed: 4 **Total Samples:** 12 **Last Inspection Date:** 8/25/2009 **PCI: 57**

Sample # 4 **Area:** 5050 SF

Distress Description	Severity	Quantity
WEATHERING/RAVELING	L	480 SF
LONGITUDINAL/TRANSVERSE CRACKING	M	81 LF
WEATHERING/RAVELING	M	217 SF
LONGITUDINAL/TRANSVERSE CRACKING	L	54 LF
PATCHING	L	18 SF
DEPRESSION	L	17 SF
OIL SPILLAGE	N	11 SF
RUTTING	L	10 SF
DEPRESSION	M	4 SF

Sample # 5 **Area:** 5050 SF

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	L	162 LF
WEATHERING/RAVELING	L	480 SF
LONGITUDINAL/TRANSVERSE CRACKING	M	55 LF
WEATHERING/RAVELING	M	162 SF
OIL SPILLAGE	N	48 SF
PATCHING	L	20 SF
DEPRESSION	L	14 SF
DEPRESSION	M	5 SF
BLEEDING	N	3 SF

Sample # 7 **Area:** 5050 SF

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	M	253 LF
LONGITUDINAL/TRANSVERSE CRACKING	L	176 LF
WEATHERING/RAVELING	L	505 SF
WEATHERING/RAVELING	M	162 SF
DEPRESSION	L	14 SF
LONGITUDINAL/TRANSVERSE CRACKING	H	3 LF
OIL SPILLAGE	N	6 SF
BLEEDING	N	1 SF

Sample # 11 **Area:** 5050 SF

Distress Description	Severity	Quantity
WEATHERING/RAVELING	L	450 SF
LONGITUDINAL/TRANSVERSE CRACKING	L	77 LF
LONGITUDINAL/TRANSVERSE CRACKING	M	51 LF
WEATHERING/RAVELING	M	162 SF
PATCHING	L	24 SF
DEPRESSION	L	12 SF
OIL SPILLAGE	N	9 SF
DEPRESSION	M	6 SF

Extrapolated Distress Quantities*

Distress Description	Severity	Quantity	Density	Deduct
LONGITUDINAL/TRANSVERSE CRACKING	M	1210 LF	2.18 %	16.43
WEATHERING/RAVELING	M	1933 SF	3.48 %	13.03
WEATHERING/RAVELING	L	5266 SF	9.48 %	9.56
RUTTING	L	27 SF	0.05 %	8.50
LONGITUDINAL/TRANSVERSE CRACKING	L	1290 LF	2.32 %	8.27
LONGITUDINAL/TRANSVERSE CRACKING	H	8 LF	0.01 %	7.50
DEPRESSION	M	41 SF	0.07 %	5.20
OIL SPILLAGE	N	203 SF	0.37 %	2.96
PATCHING	L	170 SF	0.31 %	2.13
DEPRESSION	L	157 SF	0.28 %	1.47
BLEEDING	N	11 SF	0.02 %	0.00

* 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

11.0 **% Load** 76.0 **% Climate/Durability** 13.0 **% Other**

LIVINGSTON AIRPORT

Branch: 24R **RUNWAY** **R-1**

Length: 4,250 LF **Width:** 75 LF **Area:** 318,750 SF **Last Const. :** 1993 **Family:** 9ACRH
From: STA 0+00 **To:** STA 42+50 **Surface:** AC

Inspections

Samples Surveyed: 7 **Total Samples:** 65 **Last Inspection Date:** 8/25/2009 **PCI: 59**

Sample # 3 **Area:** 4875 SF

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	L	335 LF
WEATHERING/RAVELING	L	392 SF
LONGITUDINAL/TRANSVERSE CRACKING	M	101 LF
WEATHERING/RAVELING	M	98 SF
DEPRESSION	L	4 SF
WEATHERING/RAVELING	H	1 SF

Sample # 13 **Area:** 4875 SF

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	L	396 LF
LONGITUDINAL/TRANSVERSE CRACKING	M	141 LF
WEATHERING/RAVELING	L	392 SF
WEATHERING/RAVELING	M	98 SF
DEPRESSION	L	8 SF
WEATHERING/RAVELING	H	6 SF

Sample # 23 **Area:** 4875 SF

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	L	405 LF
WEATHERING/RAVELING	L	392 SF
LONGITUDINAL/TRANSVERSE CRACKING	M	57 LF
WEATHERING/RAVELING	M	98 SF
WEATHERING/RAVELING	H	50 SF

Sample # 33 **Area:** 4875 SF

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	L	413 LF
WEATHERING/RAVELING	L	392 SF
WEATHERING/RAVELING	M	163 SF
LONGITUDINAL/TRANSVERSE CRACKING	M	37 LF

Sample # 43 **Area:** 4875 SF

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	L	706 LF
WEATHERING/RAVELING	L	392 SF
LONGITUDINAL/TRANSVERSE CRACKING	M	74 LF
WEATHERING/RAVELING	M	163 SF

Sample # 53 **Area:** 4875 SF

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	L	476 LF
WEATHERING/RAVELING	L	392 SF
LONGITUDINAL/TRANSVERSE CRACKING	M	56 LF
WEATHERING/RAVELING	M	98 SF
WEATHERING/RAVELING	H	5 SF

Sample # 63 **Area:** 4875 SF

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	L	593 LF
WEATHERING/RAVELING	L	392 SF
LONGITUDINAL/TRANSVERSE CRACKING	M	41 LF
WEATHERING/RAVELING	M	98 SF
WEATHERING/RAVELING	H	3 SF

Extrapolated Distress Quantities*

Distress Description	Severity	Quantity	Density	Deduct
LONGITUDINAL/TRANSVERSE CRACKING	L	31056 LF	9.74 %	22.92
LONGITUDINAL/TRANSVERSE CRACKING	M	4737 LF	1.49 %	13.53
WEATHERING/RAVELING	M	7622 SF	2.39 %	11.13
WEATHERING/RAVELING	L	25631 SF	8.04 %	8.79
WEATHERING/RAVELING	H	607 SF	0.19 %	7.85
DEPRESSION	L	112 SF	0.04 %	0.30

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

LIVINGSTON AIRPORT

Branch: 24R **RUNWAY** **R-1**

Percent of Deduct Values Based on Distress Mechanism

0.0 **% Load**	100.0 **% Climate/Durability**	0.0 **% Other**

LIVINGSTON AIRPORT

Branch: 24R **RUNWAY** **R-2**

Length: 1,450 LF **Width:** 75 LF **Area:** 108,750 SF **Last Const. :** 1993 **Family:** 9ACRMU
From: STA 42+50 **To:** STA 57+00 **Surface:** AC

Inspections

Samples Surveyed: 5 **Total Samples:** 22 **Last Inspection Date:** 8/25/2009 **PCI: 54**

Sample # 1 **Area:** 4875 SF

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	L	508 LF
WEATHERING/RAVELING	L	392 SF
LONGITUDINAL/TRANSVERSE CRACKING	M	48 LF
WEATHERING/RAVELING	M	98 SF
WEATHERING/RAVELING	H	76 SF
BLEEDING	N	3 SF

Sample # 6 **Area:** 4875 SF

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	L	417 LF
WEATHERING/RAVELING	L	392 SF
WEATHERING/RAVELING	M	98 SF
LONGITUDINAL/TRANSVERSE CRACKING	M	23 LF
ALLIGATOR CRACKING	L	65 SF
WEATHERING/RAVELING	H	3 SF

Sample # 11 **Area:** 4875 SF

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	L	338 LF
WEATHERING/RAVELING	L	392 SF
LONGITUDINAL/TRANSVERSE CRACKING	M	33 LF
WEATHERING/RAVELING	M	98 SF
ALLIGATOR CRACKING	L	15 SF
DEPRESSION	L	12 SF
WEATHERING/RAVELING	H	3 SF

Sample # 16 **Area:** 4875 SF

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	L	345 LF
WEATHERING/RAVELING	L	392 SF
LONGITUDINAL/TRANSVERSE CRACKING	M	51 LF
WEATHERING/RAVELING	M	98 SF
ALLIGATOR CRACKING	L	65 SF
WEATHERING/RAVELING	H	14 SF
SWELLING	L	12 SF

Sample # 21 **Area:** 4875 SF

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	L	396 LF
WEATHERING/RAVELING	L	392 SF
LONGITUDINAL/TRANSVERSE CRACKING	M	44 LF
WEATHERING/RAVELING	M	98 SF
DEPRESSION	L	18 SF
WEATHERING/RAVELING	H	3 SF

Extrapolated Distress Quantities*

Distress Description	Severity	Quantity	Density	Deduct
LONGITUDINAL/TRANSVERSE CRACKING	L	8943 LF	8.22 %	20.69
ALLIGATOR CRACKING	L	647 SF	0.59 %	15.89
WEATHERING/RAVELING	M	2186 SF	2.01 %	10.36
LONGITUDINAL/TRANSVERSE CRACKING	M	888 LF	0.82 %	10.27
WEATHERING/RAVELING	H	442 SF	0.41 %	9.87
WEATHERING/RAVELING	L	8745 SF	8.04 %	8.79
SWELLING	L	54 SF	0.05 %	1.00
DEPRESSION	L	134 SF	0.12 %	0.32
BLEEDING	N	13 SF	0.01 %	0.00

* 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

21.0 **% Load** 77.0 **% Climate/Durability** 2.0 **% Other**

LIVINGSTON AIRPORT

Branch: 24T **TAXIWAY** **T-1**

Length: 500 LF **Width:** 40 LF **Area:** 20,000 SF **Last Const. :** 1993 **Family:** 9ACRH
From: RWY STA 11+50 **To:** APRON **Surface:** AC

Inspections

Samples Surveyed: 3 **Total Samples:** 6 **Last Inspection Date:** 8/25/2009 **PCI: 60**

Sample # 2 **Area:** 6000 SF

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	L	462 LF
WEATHERING/RAVELING	L	500 SF
LONGITUDINAL/TRANSVERSE CRACKING	M	90 LF
WEATHERING/RAVELING	M	150 SF
DEPRESSION	L	4 SF

Sample # 4 **Area:** 6000 SF

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	L	607 LF
LONGITUDINAL/TRANSVERSE CRACKING	M	221 LF
WEATHERING/RAVELING	L	500 SF
WEATHERING/RAVELING	M	150 SF
DEPRESSION	L	6 SF

Sample # 6 **Area:** 5852 SF

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	L	608 LF
WEATHERING/RAVELING	L	585 SF
LONGITUDINAL/TRANSVERSE CRACKING	M	165 LF
WEATHERING/RAVELING	M	176 SF
DEPRESSION	L	19 SF
WEATHERING/RAVELING	H	13 SF

Extrapolated Distress Quantities*

Distress Description	Severity	Quantity	Density	Deduct
LONGITUDINAL/TRANSVERSE CRACKING	L	1879 LF	9.40 %	22.44
LONGITUDINAL/TRANSVERSE CRACKING	M	533 LF	2.67 %	18.29
WEATHERING/RAVELING	M	533 SF	2.67 %	11.65
WEATHERING/RAVELING	L	1776 SF	8.88 %	9.25
WEATHERING/RAVELING	H	15 SF	0.07 %	6.00
DEPRESSION	L	32 SF	0.16 %	0.51

* 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** 99.0 **% Climate/Durability** 1.0 **% Other**

LIVINGSTON AIRPORT

Branch: 24T **TAXIWAY** **T-5**

Length: 2,565 LF **Width:** 35 LF **Area:** 89,775 SF **Last Const. :** 2005 **Family:** 9ACRH
From: T-1 / A-1 **To:** HANGARS **Surface:** AC

Inspections

Samples Surveyed: 5 **Total Samples:** 19 **Last Inspection Date:** 8/25/2009 **PCI: 85**

Sample # 3 **Area:** 4900 SF

Distress Description	Severity	Quantity
WEATHERING/RAVELING	L	73 SF
LONGITUDINAL/TRANSVERSE CRACKING	L	8 LF
WEATHERING/RAVELING	M	24 SF

Sample # 7 **Area:** 5024 SF

Distress Description	Severity	Quantity
PATCHING	L	120 SF
WEATHERING/RAVELING	L	76 SF

Sample # 11 **Area:** 3743 SF

Distress Description	Severity	Quantity
WEATHERING/RAVELING	L	76 SF
WEATHERING/RAVELING	H	2 SF
PATCHING	L	1 SF

Sample # 15 **Area:** 4935 SF

Distress Description	Severity	Quantity
WEATHERING/RAVELING	L	73 SF
WEATHERING/RAVELING	M	12 SF
WEATHERING/RAVELING	H	4 SF
PATCHING	L	1 SF

Sample # 19 **Area:** 4935 SF

Distress Description	Severity	Quantity
WEATHERING/RAVELING	L	73 SF
WEATHERING/RAVELING	M	24 SF
RUTTING	L	10 SF
WEATHERING/RAVELING	H	5 SF
PATCHING	L	3 SF
BLEEDING	N	1 SF

Extrapolated Distress Quantities*

Distress Description	Severity	Quantity	Density	Deduct
RUTTING	L	38 SF	0.04 %	8.50
WEATHERING/RAVELING	H	42 SF	0.05 %	6.00
WEATHERING/RAVELING	M	229 SF	0.25 %	4.98
WEATHERING/RAVELING	L	1415 SF	1.58 %	3.45
PATCHING	L	477 SF	0.53 %	2.53
LONGITUDINAL/TRANSVERSE CRACKING	L	31 LF	0.03 %	2.50
BLEEDING	N	4 SF	0.00 %	0.00

* 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

30.0 **% Load** 70.0 **% Climate/Durability** 0.0 **% Other**

LIVINGSTON AIRPORT

FIRST YEAR LOCAL:2010 LOCAL REPAIR COST: $17,670

Section	Distress Description	Severity	Quantity	Work Description	Quantity	Cost	Policy
A-2	L & T CR	H	9 LF	Crack Sealing - AC	9 LF	$12	PREV.
A-2	L & T CR	M	1211 LF	Crack Sealing - AC	1211 LF	$1,815	PREV.
A-2	DEPRESSION	M	42 SF	Patching - AC Deep	72 SF	$2,631	PREV.
A-2	OIL SPILLAGE	N	204 SF	Patching - AC Shallow	265 SF	$3,974	PREV.
R-1	L & T CR	M	4737 LF	Crack Sealing - AC	4737 LF	$7,105	PREV.
R-2	L & T CR	M	889 LF	Crack Sealing - AC	889 LF	$1,332	PREV.
T-1	L & T CR	M	534 LF	Crack Sealing - AC	534 LF	$800	PREV.

FIFTEEN YEAR PROJECTIONS: ESTIMATED AVERAGE ANNUAL COST: $137,566

PLAN YEAR: 2010 ESTIMATED COST: $918,877

SectionI	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	PCI before	PCI after
A-1	Reconstruct			$149,297		$149,297	48	100
A-2	Basic Prev.	$8,432				$8,432	56	56
R-1	Prev. & Thin AC	$7,105	$510,001			$517,107	59	62
R-2	Local Repair				$211,241	$211,241	53	100
T-1	Prev. & Thin AC	$800	$32,000			$32,800	60	64

PLAN YEAR: 2011 ESTIMATED COST: $23,155

SectionI	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	PCI before	PCI after
A-2	Basic Prev.	$4,109				$4,109	53	53
R-1	Basic Prev.	$16,699				$16,699	62	62
T-1	Basic Prev.	$1,013				$1,013	63	63
T-5	Basic Prev.	$1,334				$1,334	81	81

PLAN YEAR: 2012 ESTIMATED COST: $134,512

SectionI	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	PCI before	PCI after
A-1	Basic Prev.	$52				$52	90	90
A-2	Reconstruct			$114,576		$114,576	50	100
R-1	Basic Prev.	$17,019				$17,019	61	61
T-1	Basic Prev.	$1,036				$1,036	62	62
T-5	Basic Prev.	$1,830				$1,830	78	78

PLAN YEAR: 2013 ESTIMATED COST: $21,501

SectionI	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	PCI before	PCI after
A-1	Basic Prev.	$573				$573	85	85
R-1	Basic Prev.	$17,315				$17,315	60	60
R-2	Basic Prev.	$214				$214	89	89
T-1	Basic Prev.	$1,057				$1,057	61	61
T-5	Basic Prev.	$2,342				$2,342	76	76

PLAN YEAR: 2014 ESTIMATED COST: $23,463

SectionI	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	PCI before	PCI after
A-1	Basic Prev.	$1,040				$1,040	81	81
R-1	Basic Prev.	$17,877				$17,877	59	59
R-2	Basic Prev.	$671				$671	86	86
T-1	Basic Prev.	$1,077				$1,077	60	60
T-5	Basic Prev.	$2,798				$2,798	74	74

PLAN YEAR: 2015 ESTIMATED COST: $61,399

SectionI	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	PCI before	PCI after
A-1	Prev. & Fog Seal	$1,610	$13,999			$15,609	77	85
A-2	Basic Prev.	$211				$211	88	88
R-1	Basic Prev.	$18,428				$18,428	59	59
R-2	Prev. & Fog Seal	$1,089	$21,750			$22,839	84	89
T-1	Basic Prev.	$1,101				$1,101	60	60
T-5	Basic Prev.	$3,211				$3,211	72	72

PLAN YEAR: 2016 ESTIMATED COST: $25,928

SectionI	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	PCI before	PCI after
A-1	Basic Prev.	$1,040				$1,040	81	81
A-2	Basic Prev.	$539				$539	84	84
R-1	Basic Prev.	$18,958				$18,958	58	58
R-2	Basic Prev.	$671				$671	86	86
T-1	Basic Prev.	$1,138				$1,138	59	59
T-5	Basic Prev.	$3,581				$3,581	71	71

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PLAN YEAR: 2017 ESTIMATED COST: $39,094

SectionI	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	PCI before	PCI after
A-1	Basic Prev.	$1,611				$1,611	77	77
A-2	Prev. & Fog Seal	$848	$11,110			$11,959	81	88
R-1	Basic Prev.	$19,447				$19,447	58	58
R-2	Basic Prev.	$1,089				$1,089	84	84
T-1	Basic Prev.	$1,172				$1,172	59	59
T-5	Basic Prev.	$3,817				$3,817	69	69

PLAN YEAR: 2018 ESTIMATED COST: $29,309

SectionI	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	PCI before	PCI after
A-1	Basic Prev.	$2,168				$2,168	74	74
A-2	Basic Prev.	$539				$539	84	84
R-1	Basic Prev.	$19,929				$19,929	57	57
R-2	Basic Prev.	$1,489				$1,489	82	82
T-1	Basic Prev.	$1,203				$1,203	58	58
T-5	Basic Prev.	$3,980				$3,980	68	68

PLAN YEAR: 2019 ESTIMATED COST: $31,208

SectionI	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	PCI before	PCI after
A-1	Basic Prev.	$2,659				$2,659	71	71
A-2	Basic Prev.	$847				$847	81	81
R-1	Basic Prev.	$20,400				$20,400	57	57
R-2	Basic Prev.	$1,940				$1,940	79	79
T-1	Basic Prev.	$1,234				$1,234	57	57
T-5	Basic Prev.	$4,128				$4,128	66	66

PLAN YEAR: 2020 ESTIMATED COST: $610,964

SectionI	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	PCI before	PCI after
A-1	Prev. & Fog Seal	$2,993	$13,999			$16,992	69	74
A-2	Basic Prev.	$1,253				$1,253	78	78
R-1	Prev. & Thin AC	$20,883	$510,001			$530,884	56	59
R-2	Prev. & Fog Seal	$2,557	$21,750			$24,307	77	82
T-1	Prev. & Thin AC	$1,264	$32,000			$33,264	57	60
T-5	Basic Prev.	$4,264				$4,264	65	65

PLAN YEAR: 2021 ESTIMATED COST: $30,756

SectionI	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	PCI before	PCI after
A-1	Basic Prev.	$2,659				$2,659	71	71
A-2	Basic Prev.	$1,673				$1,673	74	74
R-1	Basic Prev.	$18,958				$18,958	58	58
R-2	Basic Prev.	$1,940				$1,940	79	79
T-1	Basic Prev.	$1,138				$1,138	59	59
T-5	Basic Prev.	$4,389				$4,389	64	64

PLAN YEAR: 2022 ESTIMATED COST: $43,865

SectionI	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	PCI before	PCI after
A-1	Basic Prev.	$2,993				$2,993	69	69
A-2	Prev. & Fog Seal	$2,075	$11,110			$13,185	72	78
R-1	Basic Prev.	$19,456				$19,456	58	58
R-2	Basic Prev.	$2,557				$2,557	77	77
T-1	Basic Prev.	$1,172				$1,172	59	59
T-5	Basic Prev.	$4,503				$4,503	63	63

PLAN YEAR: 2023 ESTIMATED COST: $33,807

SectionI	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	PCI before	PCI after
A-1	Basic Prev.	$3,191				$3,191	67	67
A-2	Basic Prev.	$1,672				$1,672	75	75
R-1	Basic Prev.	$19,929				$19,929	57	57
R-2	Basic Prev.	$3,203				$3,203	75	75
T-1	Basic Prev.	$1,203				$1,203	58	58
T-5	Basic Prev.	$4,608				$4,608	62	62

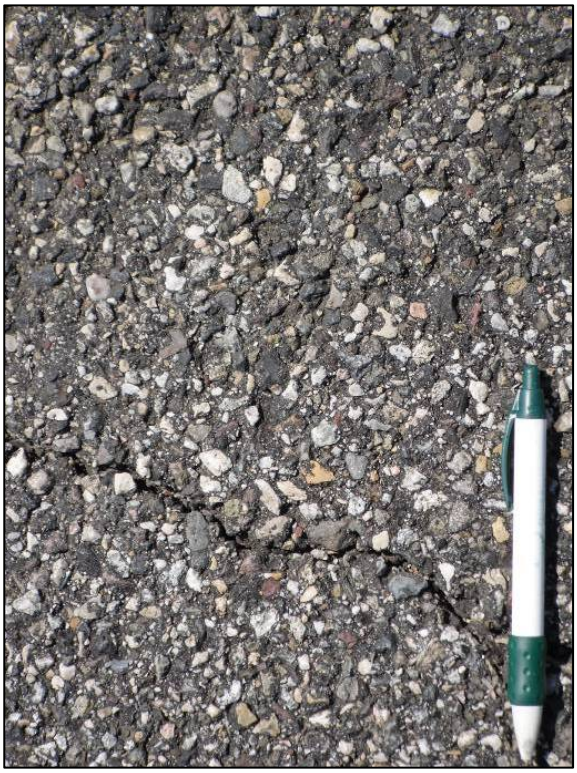
PLAN YEAR: 2024 ESTIMATED COST: $35,650

SectionI	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	PCI before	PCI after
A-1	Basic Prev.	$3,362				$3,362	65	65
A-2	Basic Prev.	$2,073				$2,073	72	72
R-1	Basic Prev.	$20,400				$20,400	57	57
R-2	Basic Prev.	$3,874				$3,874	72	72
T-1	Basic Prev.	$1,234				$1,234	57	57
T-5	Basic Prev.	$4,706				$4,706	62	62

LIVINGSTON AIRPORT

8/25/2009

A-1, overview with cracks



A-1, surface detail with crack & raveling

A-2, surface detail with crack & depression

A-2, overview

LIVINGSTON AIRPORT

8/25/2009

T-1, surface detail with cracks

T-1, overview with streaks

T-5, overview with oil spill

T-5, surface detail with bleeding

LIVINGSTON AIRPORT

8/25/2009

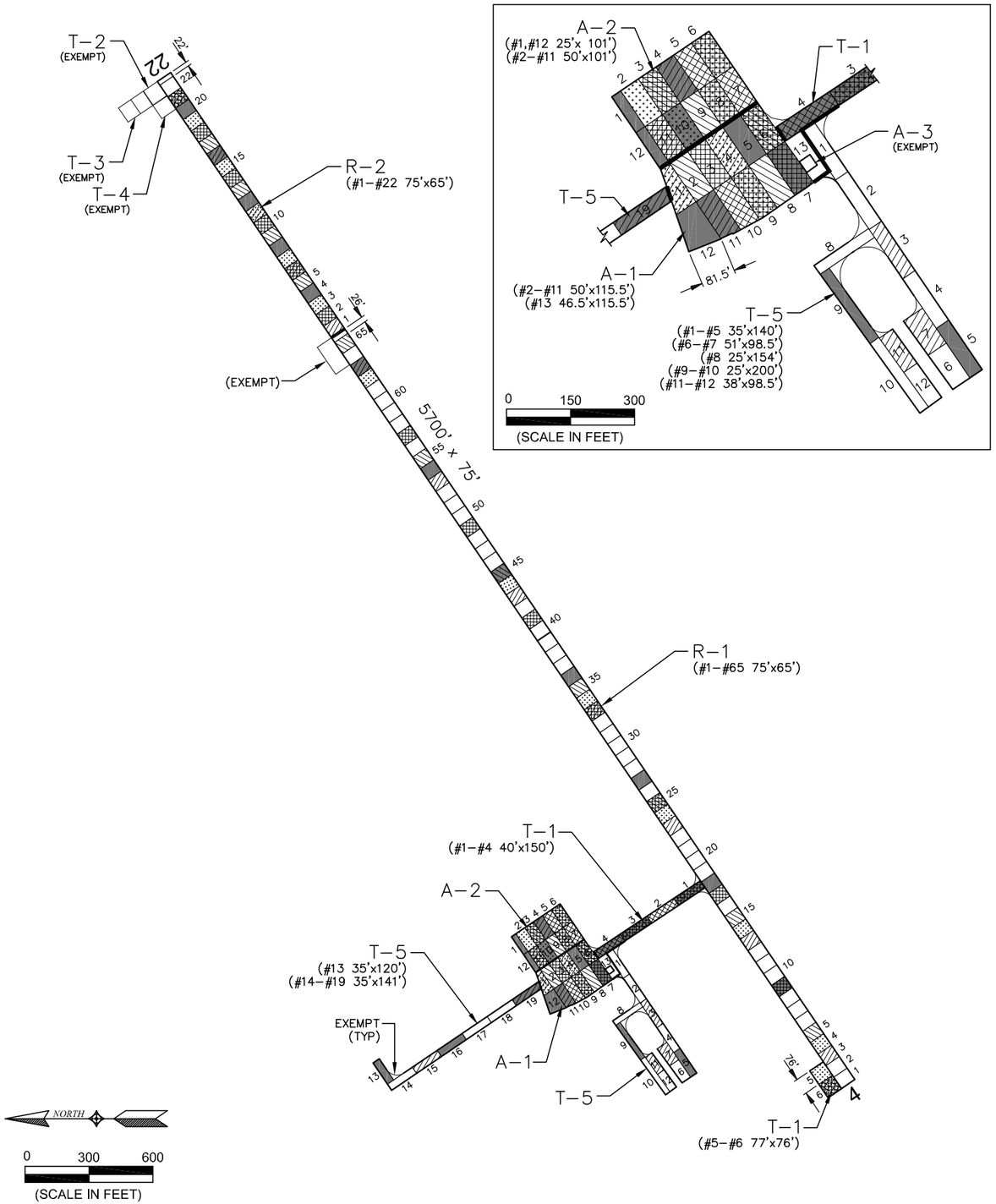
R-1, overview with cracks

R-1, surface detail with cracks & raveling

R-2, surface detail with voids

R-2, overview with voids

LIVINGSTON



PAVEMENT STRENGTH SURVEY/PAVEMENT CONDITION SURVEY

PAVE. IDENT.	SOIL CLASS	SUB GRADE CLASS	SUBBASE COURSE	BASE COURSE	SURFACE COURSE	OVERLAY	PAVEMENT STRENGTH MAX. GROSS LOAD (LBS) SINGLE	DUAL	DUAL TAN.	REMARKS
RUNWAYS										
R-1	E-2	FA		7" C. AGG.	1.5" AC	1"P-402,P-609	40,000	70,000	110,000	2 3 4
R-2	E-1	FA	P-154	7" P-208	2" P-401	1"P-402,P-609	30,000	50,000		1 2 3 4
TAXIWAYS										
T-1	E-2	FA		7" C. AGG.	1.5" AC	1"P-402,P-609	40,000	70,000	110,000	2 4
T-2	E-1	FA	P-154	7" P-208	2" P-401	1"P-402,P-609	30,000	50,000		3 4
T-3				4" P-208	3" P-401	1"P-402,P-609	12,500			3 4
T-4					6" PCC	1"P-402,P-609				3 4
T-5			8" P-154	6" P-209	3" P-401		40,000	70,000		5
APRONS										
A-1	E-2	FA		7" C. AGG.	2" AC	1"P-402,P-609	45,000	75,000	130,000	3 4
A-2	WELL-GRADED GRAVEL			4" P-208	3" P-401	1"P-402,P-609	12,500			3 4
A-3					PCC					

REMARKS:

1. ADAP-01, 1972, EXTEND RUNWAY AND CONSTRUCT TAXIWAY (T-2).
2. AIP-01, 1983, CHIP SEAL ALL PAVEMENTS (P-602).
3. AIP-02, 1993, 1" OVERLAY, APRON EXTENSION (A-2), AND CONSTRUCT TAXIWAY (T-3).
4. AIP-03, 2002, CRACK SEAL, FOG SEAL, AND REMARK ALL PAVEMENTS.
5. AIP-004-2005, CONSTRUCT TAXIWAYS (T-5). SELECT ON-SITE BORROW WAS USED TO REPLACE UNSUITABLE SUBGRADE, TYPICALLY RANGING FROM 0" TO 6" (SPOT LOCATIONS WERE AS DEEP AS 4 FT.).

LEGEND

- 1997 SURVEY AREA
- 2000 SURVEY AREA
- 2003 SURVEY AREA
- 2006 SURVEY AREA
- 2009 SURVEY AREA

DATE OF PAVEMENT STRENGTH SURVEY:	DEC. 1992
EVALUATED BY:	J. STYBA
DATE OF MOST RECENT PAVEMENT CONDITION SURVEY:	AUG. 25, 2009
EVALUATED BY:	B. BURKLAND

MONTANA AVIATION SYSTEM PLAN
2009 UPDATE - PAVEMENT CONDITION INDEXES

MISSION FIELD

PREPARED FOR: MONTANA AERONAUTICS DIVISION

LIVINGSTON
MONTANA

DATE: NOV. 2009

PREPARED BY: RPA

LIVINGSTON