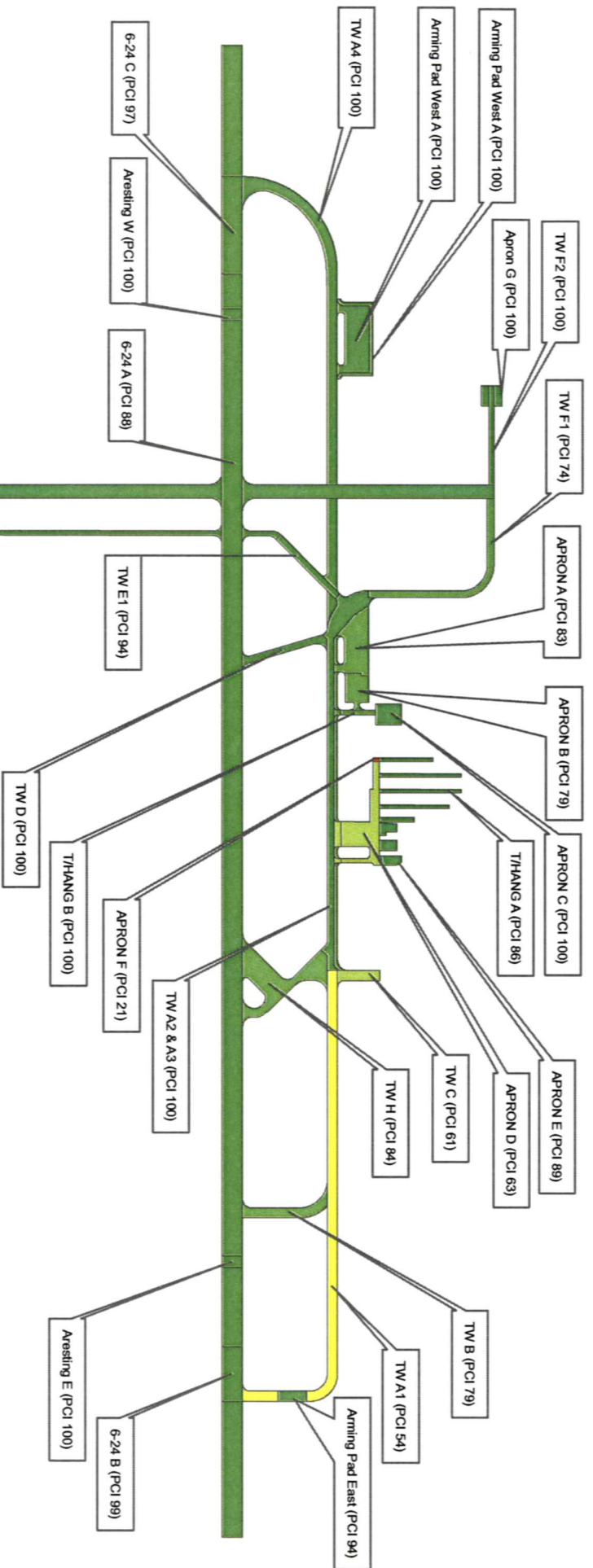


APPENDIX E

PAVEMENT CONDITION STUDY

This appendix contains the results of the Ohio Department of Transportation (ODOT) Pavement Condition Index (PCI) Study. The field study was conducted by ODOT at the end of 2002.



Springfield Beckley Municipal Pavement Condition Index

Inspection 12/11/02

Construction update 2003

- 100-86 Preventative Maintenance
- 85-71 Preventative Maintenance
- 70-56 Preventative Maintenance/Overlay
- 55-41 Overlay/Reconstruction
- 40-26 Reconstruction
- 25-11 Reconstruction
- 10-0 Reconstruction

Date:08/21/2003

Work History Report

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Pavement Database:

Network: Springfield **Branch:** 15-33 (RUNWAY) **Section:** A **Surface:** AC
L.C.D.: 01/13/1995 **Use:** RUNWAY **Rank:** P **Length:** 5,362.00 Ft **Width:** 100.00 Ft **True Area:**536,200.01 Sq

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
01/13/1995	RA-RI	Base Course - Bituminous (L			False	P401
01/13/1995	SU-AC	Surface Course - AC (Major M	\$0	0.00	True	P401
01/13/1995	RA-AC	Base Course - Aggregate (L		42.52	False	
07/01/1986	CS-AC	Crack Sealing - AC	\$53,395	0.00	False	
07/01/1986	ST-SS	Surface Treatment - Slurry S	\$53,395	0.00	False	

Network: Springfield **Branch:** 6-24 (RUNWAY) **Section:** A **Surface:** AAC
L.C.D.: 07/01/1992 **Use:** RUNWAY **Rank:** P **Length:** 7,755.00 Ft **Width:** 150.00 Ft **True Area:**163,250.03 Sq

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
07/01/1992	RA-RI	Base Course - Bituminous (L		2.50	False	P401
07/01/1992	SU-AC	Surface Course - AC (Major M	\$27,594	1.50	True	5% TO FAA FUNDING R/W 6/24 REHAB
07/01/1992	UNKNOWN	UNKNOWN			True	PULVERIZED EXISTING PAVEMENT

Network: Springfield **Branch:** 6-24 (RUNWAY) **Section:** B **Surface:** PCC
L.C.D.: 01/13/1963 **Use:** RUNWAY **Rank:** P **Length:** 400.00 Ft **Width:** 150.00 Ft **True Area:** 60,000.00 Sq

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
01/13/1963	INITIAL	Initial Construction			True	

Network: Springfield **Branch:** 6-24 (RUNWAY) **Section:** C **Surface:** PCC
L.C.D.: 01/13/1998 **Use:** RUNWAY **Rank:** P **Length:** 676.00 Ft **Width:** 150.00 Ft **True Area:**101,400.00 Sq

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
01/13/1998	INITIAL	Initial Construction			True	

Network: Springfield **Branch:** 6-24 (RUNWAY) **Section:** E-arestin **Surface:** PCC
L.C.D.: 01/13/1989 **Use:** RUNWAY **Rank:** P **Length:** 80.00 Ft **Width:** 150.00 Ft **True Area:** 12,000.00 Sq

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
01/13/1989	INITIAL	Initial Construction			True	

Network: Springfield **Branch:** 6-24 (RUNWAY) **Section:** W-aresti **Surface:** PCC
L.C.D.: 01/13/1989 **Use:** RUNWAY **Rank:** P **Length:** 80.00 Ft **Width:** 150.00 Ft **True Area:** 12,000.00 Sq

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
01/13/1989	INITIAL	Initial Construction			True	

Network: Springfield **Branch:** APRON (APRON) **Section:** A **Surface:** AAC
L.C.D.: 07/01/1989 **Use:** APRON **Rank:** S **Length:** 500.00 Ft **Width:** 180.00 Ft **True Area:**114,529.00 Sq

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
07/01/1989	NC-AC	New Construction - AC	\$0	0.01	False	5% of FAA FUNDING
07/01/1989	UNKNOWN	UNKNOWN			True	TERMINAL BUILDING APRON EXPANSION

Network: Springfield **Branch:** APRON (APRON) **Section:** B **Surface:** AC
L.C.D.: 01/13/1991 **Use:** APRON **Rank:** P **Length:** 300.00 Ft **Width:** 155.00 Ft **True Area:** 49,484.00 Sq

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
01/13/1991	SU-AC	Surface Course - AC (Major M		1.50	True	P401

Pavement Database:

01/13/1991	RA-RI	Base Course - Bituminous (L		3.50	False	P401
01/13/1991	RA-AG	Base Course - Aggregate (L		7.50	False	P209
01/13/1991	SB-AG	Subbase - Aggregate (Layer		12.00	False	P154

Network: Springfield Branch: APRON (APRON) Section: C Surface: AAC
 L.C.D.: 01/13/1997 Use: APRON Rank: P Length: 200.00 Ft Width: 93.00 Ft True Area: 20,630.00 Sq

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
01/13/1997	INITIAL	Initial Construction			True	
01/13/1997	OI-AS	Overlaid - AC Structural (Maio			True	

Network: Springfield Branch: APRON (APRON) Section: D Surface: AAC
 L.C.D.: 01/13/1989 Use: APRON Rank: P Length: 490.00 Ft Width: 70.00 Ft True Area: 100,412.00 Sq

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
01/13/1989	INITIAL	Initial Construction			True	
01/13/1989	SR-AC	Surface Reconstruction - AC			True	

Network: Springfield Branch: APRON (APRON) Section: E Surface: AC
 L.C.D.: 01/13/1970 Use: APRON Rank: P Length: 150.00 Ft Width: 70.00 Ft True Area: 10,174.00 Sq

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
01/13/1970	INITIAL	Initial Construction			True	

Network: Springfield Branch: APRON (APRON) Section: F Surface: PCC
 L.C.D.: 01/13/1963 Use: APRON Rank: S Length: 46.00 Ft Width: 24.00 Ft True Area: 1,104.00 Sq

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
01/13/1963	INITIAL	Initial Construction	\$0	0.00	True	

Network: Springfield Branch: APRON (APRON) Section: G Surface: AC
 L.C.D.: 05/13/2002 Use: APRON Rank: T Length: 300.00 Ft Width: 120.00 Ft True Area: 36,000.00 Sq

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
05/13/2002	INITIAL	Initial Construction	\$0	0.00	True	

Network: Springfield Branch: ARMING PD (F16 ARMING AREAS) Section: EAST Surface: PCC
 L.C.D.: 01/13/1963 Use: TAXIWAY Rank: S Length: 214.00 Ft Width: 75.00 Ft True Area: 16,050.00 Sq

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
01/13/1963	INITIAL	Initial Construction			True	

Network: Springfield Branch: ARMING PD (F16 ARMING AREAS) Section: West A Surface: PCC
 L.C.D.: 05/13/2003 Use: TAXIWAY Rank: S Length: 488.00 Ft Width: 183.00 Ft True Area: 96,414.00 Sq

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
05/13/2003	INITIAL	Initial Construction	\$0	0.00	True	

Network: Springfield Branch: ARMING PD (F16 ARMING AREAS) Section: West B Surface: AC
 L.C.D.: 05/13/2003 Use: TAXIWAY Rank: T Length: 1,030.00 Ft Width: 25.00 Ft True Area: 25,750.00 Sq

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
05/13/2003	INITIAL	Initial Construction	\$0	0.00	True	

Pavement Database:

Network: Springfield Branch: SafetyArea (Runway 6-24 Safety Area) Section: East Surface: AC
 L.C.D.: 05/13/2002 Use: RUNWAY Rank: S Length: 1,000.00 Ft Width: 150.00 Ft True Area:150,000.00 Sq

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
05/13/2002	INITIAL	Initial Construction	\$0	0.00	True	

Network: Springfield Branch: SafetyArea (Runway 6-24 Safety Area) Section: West Surface: AC
 L.C.D.: 05/13/2002 Use: RUNWAY Rank: S Length: 1,000.00 Ft Width: 150.00 Ft True Area:150,000.00 Sq

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
05/13/2002	INITIAL	Initial Construction	\$0	0.00	True	

Network: Springfield Branch: T/HANGAR (T/HANGAR STREETS) Section: A Surface: AAC
 L.C.D.: 01/13/1999 Use: TAXIWAY Rank: T Length: 2,400.00 Ft Width: 25.00 Ft True Area: 80,830.00 Sq

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
01/13/1999	OI-AS	Overlav - AC Structural (Maio			True	
01/13/1963	SU-PC	Surface Course - PCC (Maio			True	

Network: Springfield Branch: T/HANGAR (T/HANGAR STREETS) Section: B Surface: AAC
 L.C.D.: 01/13/1963 Use: TAXIWAY Rank: T Length: 307.00 Ft Width: 36.00 Ft True Area: 11,052.00 Sq

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
01/13/1963	INITIAL	Initial Construction	\$0	0.00	True	

Network: Springfield Branch: TAXIW (TAXIWAY) Section: A1 Surface: AC
 L.C.D.: 01/13/2000 Use: TAXIWAY Rank: S Length: 3,442.00 Ft Width: 75.00 Ft True Area:574,450.01 Sq

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
01/13/2000	UNKNOWN	UNKNOWN			True	AC SURFACE COURSE

Network: Springfield Branch: TAXIW (TAXIWAY) Section: A2 Surface: AAC
 L.C.D.: 05/13/2003 Use: TAXIWAY Rank: S Length: 2,875.00 Ft Width: 50.00 Ft True Area:181,349.00 Sq

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
05/13/2003	INITIAL	Initial Construction	\$0	0.00	True	

Network: Springfield Branch: TAXIW (TAXIWAY) Section: A3 Surface: AC
 L.C.D.: 05/13/2003 Use: TAXIWAY Rank: S Length: 2,472.00 Ft Width: 25.00 Ft True Area: 54,471.00 Sq

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
05/13/2003	INITIAL	Initial Construction	\$0	0.00	True	

Network: Springfield Branch: TAXIW (TAXIWAY) Section: A4 Surface: AC
 L.C.D.: 05/13/2003 Use: TAXIWAY Rank: S Length: 3,358.00 Ft Width: 75.00 Ft True Area:267,085.00 Sq

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
05/13/2003	INITIAL	Initial Construction	\$0	0.00	True	

Network: Springfield Branch: TAXIW (TAXIWAY) Section: B Surface: AAC
 L.C.D.: 01/13/1991 Use: TAXIWAY Rank: S Length: 676.00 Ft Width: 75.00 Ft True Area: 50,700.00 Sq

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
01/13/1991	OI-AS	Overlav - AC Structural (Maio			True	
01/13/1967	OI-AS	Overlav - AC Structural (Maio		1.50	True	P401
01/13/1953	OI-AS	Overlav - AC Structural (Maio		1.50	True	P401

Pavement Database:

01/13/1943	BA-AG	Base Course - Aggregate (L		9.00	False	P209
01/13/1943	SI-AC	Surface Course - AC (Major		2.50	True	P401
01/13/1943	SB-AG	Subbase - Aggregate (Layer		18.00	False	P154

Network: Springfield Branch: TAXIW (TAXIWAY) Section: C Surface: AAC
 L.C.D.: 01/13/1990 Use: TAXIWAY Rank: S Length: 300.00 Ft Width: 75.00 Ft True Area: 22,500.00 Sq

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
01/13/1990	OI-AS	Overlap - AC Structural (Major			True	
01/13/1967	OI-AS	Overlap - AC Structural (Major		1.50	True	P401
01/13/1953	OI-AS	Overlap - AC Structural (Major		1.50	True	P401
01/13/1943	BA-AG	Base Course - Aggregate (L		9.00	False	P209
01/13/1943	SB-AG	Subbase - Aggregate (Layer		18.00	False	P154
01/13/1943	SI-AC	Surface Course - AC (Major		2.50	True	P401

Network: Springfield Branch: TAXIW (TAXIWAY) Section: D Surface: AC
 L.C.D.: 01/13/2000 Use: TAXIWAY Rank: S Length: 688.00 Ft Width: 50.00 Ft True Area: 34,400.00 Sq

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
09/01/2003	CR-AC	Complete Reconstruction - A	\$0	1.50	True	P-401
09/01/2003	CO-TA	Coat - Tack	\$0	0.00	False	ODOT 407
09/01/2003	MI-CO	Cold Milling	\$0	2.00	False	ODOT 254
09/01/2003	CR-AC	Complete Reconstruction - A	\$0	1.50	True	P-401
01/13/2000	INITIAL	Initial Construction			True	

Network: Springfield Branch: TAXIW (TAXIWAY) Section: E1 Surface: AC
 L.C.D.: 01/13/1970 Use: TAXIWAY Rank: S Length: 907.00 Ft Width: 50.00 Ft True Area: 50,583.00 Sq

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
01/13/1970	OI-All	Overlap - AC (Unknown) (Major			True	
01/13/1964	OI-AS	Overlap - AC Structural (Major		1.50	True	P401
01/13/1943	SB-AG	Subbase - Aggregate (Layer		18.00	False	P154
01/13/1943	BA-AG	Base Course - Aggregate (L		4.00	False	P209
01/13/1943	SI-AC	Surface Course - AC (Major		2.00	True	P401

Network: Springfield Branch: TAXIW (TAXIWAY) Section: E2 Surface: AC
 L.C.D.: 05/13/1999 Use: TAXIWAY Rank: S Length: 3,717.00 Ft Width: 35.00 Ft True Area: 130,095.00 Sq

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
05/13/1999	INITIAL	Initial Construction			True	

Network: Springfield Branch: TAXIW (TAXIWAY) Section: F1 Surface: AAC
 L.C.D.: 01/13/1992 Use: TAXIWAY Rank: S Length: 1,472.00 Ft Width: 50.00 Ft True Area: 81,840.00 Sq

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
09/01/2003	PA-AC	Patching - AC Deep	\$0	0.00	False	P-401 Crack Repair
01/13/1992	OI-AS	Overlap - AC Structural (Major			True	
01/13/1967	OI-AS	Overlap - AC Structural (Major		1.50	True	P401
01/13/1953	OI-AS	Overlap - AC Structural (Major		1.50	True	P401
01/13/1943	SI-AC	Surface Course - AC (Major		2.50	True	P401
01/13/1943	BA-AG	Base Course - Aggregate (L		9.00	False	P209
01/13/1943	SB-AG	Subbase - Aggregate (Layer		18.00	False	P154

Network: Springfield Branch: TAXIW (TAXIWAY) Section: F2 Surface: AC
 L.C.D.: 05/13/1997 Use: TAXIWAY Rank: S Length: 750.00 Ft Width: 35.00 Ft True Area: 26,250.00 Sq

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
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Date:08/21/2003

Work History Report

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Pavement Database:

05/13/1997	INITIAL	Initial Construction			True	
Network: Springfield Branch: TAXIWAY (TAXIWAY) Section: H Surface: AAC L.C.D.: 01/13/1967 Use: TAXIWAY Rank: P Length: 650.00 Ft Width: 50.00 Ft True Area: 35.316.00 Sq						
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
01/13/1992	ST-SS	Surface Treatment - Slurrv S			False	
01/13/1967	OI-AS	Overlaid - AC Structural (Major)		1.50	True	P401
01/13/1953	OI-AS	Overlaid - AC Structural (Major)		1.50	True	P401
01/13/1943	SU-AC	Surface Course - AC (Major)		2.50	True	P401
01/13/1943	RA-AG	Base Course - Aggregate (L)		9.00	False	P209
01/13/1943	SB-AG	Subbase - Aggregate (Layer)		18.00	False	P154

Summary:

Work Description	Section Count	Area Total (SqFt)	Thickness Avg (in)	Thickness STD (in)
Base Course - Aggregate (Layer C	7	826,623.02	12.86	13.21
Base Course - Bituminous (Layer C	3	1,748,934.04	3.00	71
Coat - Tack	1	34,400.00	.00	
Cold Milling	1	34,400.00	2.00	
Complete Reconstruction - AC	2	68,800.00	1.50	.00
Crack Sealing - AC	1	536,200.01	.00	
Initial Construction	21	1,496,636.01	.00	.00
New Construction - AC	1	114,529.00	.01	
Overlay - AC (Unknown) (Major M	1	50,583.00		
Overlay - AC Structural (Major MR)	14	687,795.02	1.50	.00
Patching - AC Deep	1	81,840.00	.00	
Subbase - Aggregate (Layer Cons	6	290,423.01	17.00	2.45
Surface Course - AC (Major MR)	8	1,989,873.05	1.87	.88
Surface Course - PCC (Major MR)	1	80,830.00		
Surface Reconstruction - AC (Maj	1	100,412.00		
Surface Treatment - Slurry Seal	1	536,200.01	.00	
Surface Treatment - Slurry Seal (G	1	35,316.00		
UNKNOWN	3	1,852,229.04		

Date: 4/3/2003

Section Condition Report

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Pavement Database: NetworkID: Springfield

Branch ID	Section ID	Last Const. Date	Surface	Use	Rank	Lanes	True Area (SqFt)	Last Inspection Date	Age At Inspection	PCI
A15-33 (RUNWAY)	A	01/13/1995	AC	RUNWAY	P	0	536,200.01	12/11/2002	7	89.00
APRON (APRON)	A	07/01/1989	AAC	APRON	S	0	114,529.00	12/11/2002	13	83.00
APRON (APRON)	B	01/13/1991	AC	APRON	P	0	49,484.00	12/11/2002	11	79.00
APRON (APRON)	C	01/13/1997	AAC	APRON	P	0	20,630.00	12/11/2002	5	100.00
APRON (APRON)	D	01/13/1989	AAC	APRON	P	0	100,412.00	12/11/2002	13	63.00
APRON (APRON)	E	01/13/1970	AC	APRON	P	0	10,174.00	12/11/2002	32	89.00
APRON (APRON)	F	01/13/1963	PCC	APRON	S	0	1,104.00	12/11/2002	39	21.00
APRON (APRON)	G	05/13/2002	AC	APRON	T	0	36,000.00	12/11/2002	0	100.00
ARMING PD (F16 ARMING AREAS)	EAST	01/13/1963	PCC	TAXIWAY	S	0	16,050.00	12/11/2002	39	94.00
ARMING PD (F16 ARMING AREAS)	West A	05/13/2003	PCC	TAXIWAY	S	0	96,414.00	05/14/2003	0	100.00
ARMING PD (F16 ARMING AREAS)	West B	05/13/2003	AC	TAXIWAY	T	0	25,750.00	05/14/2003	0	100.00
B6-24 (RUNWAY)	A	07/01/1992	AAC	RUNWAY	P	0	1,163,250.03	12/23/2002	10	88.00
B6-24 (RUNWAY)	B	01/13/1963	PCC	RUNWAY	P	0	60,000.00	12/23/2002	39	99.00
B6-24 (RUNWAY)	C	01/13/1998	PCC	RUNWAY	P	0	101,400.00	12/23/2002	4	97.00
B6-24 (RUNWAY)	E-aresting	01/13/1989	PCC	RUNWAY	P	0	12,000.00	12/23/2002	13	100.00
B6-24 (RUNWAY)	W-aresting	01/13/1989	PCC	RUNWAY	P	0	12,000.00	12/23/2002	13	100.00
SafetyArea (Runway 6-24 Safety Area)	East	05/13/2002	AC	RUNWAY	S	0	150,000.00	12/11/2002	0	100.00
SafetyArea (Runway 6-24 Safety Area)	West	05/13/2002	AC	RUNWAY	S	0	150,000.00	05/13/2002	0	100.00
T/HANGAR (T/HANGAR STREETS)	A	01/13/1999	AAC	TAXIWAY	T	0	80,830.00	12/11/2002	3	86.00
T/HANGAR (T/HANGAR STREETS)	B	01/13/1963	AAC	TAXIWAY	T	0	11,052.00	12/11/2002	39	100.00

Date: 4 /3/2003

Section Condition Report

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Pavement Database: *NetworkID: Springfield*

Branch ID	Section ID	Last Const. Date	Surface	Use	Rank	Lanes	True Area (SqFt)	Last Inspection Date	Age At Inspection	PCI
TAXIW (TAXIWAY)	E1	01/13/1970	AC	TAXIWAY	S	0	50,583.00	12/11/2002	32	94.00
TAXIW (TAXIWAY)	E2	05/13/1999	AC	TAXIWAY	S	0	130,095.00	12/11/2002	3	99.00
TAXIW (TAXIWAY)	F1	01/13/1992	AAC	TAXIWAY	S	0	81,840.00	12/11/2002	10	74.00
TAXIW (TAXIWAY)	F2	05/13/1997	AC	TAXIWAY	S	0	26,250.00	12/11/2002	5	100.00
TAXIW (TAXIWAY)	H	01/13/1967	AAC	TAXIWAY	P	0	35,316.00	12/11/2002	35	84.00

Pavement Database:

Age Category	Average Age At Inspection	Total Area (SqFt)	Number of Sections	Arithmetic Average PCI	PCI Standard Deviation	Weighted Average PCI
0-02	0.20	1,569,919.01	10	89.80	20.52	81.94
03-05	4.00	359,205.01	5	96.40	5.31	95.64
06-10	9.00	1,781,290.04	3	83.67	6.85	87.66
11-15	12.29	361,625.01	7	80.71	14.43	76.10
31-35	33.00	96,073.00	3	89.00	4.08	89.79
36-40	39.00	88,206.00	4	78.50	33.28	97.24
All	12.19	4,256,318.07	32	86.78	19.01	85.49

