

## A6. M&R Work Descriptions

### A6.1. FLEXIBLE PAVEMENT (AC) WORK DESCRIPTIONS

#### A6.1.1. Reconstruction

Reconstruction is recommended when pavements have deteriorated to the point where preventative maintenance techniques and pavement rehabilitation are no longer viable. The unit price assumes excavation of the existing pavement section down to subgrade, installation of a geotextile fabric membrane, 18-inches of P-209 base course material, and 11-inches of P-401 AC material.



#### A6.1.2. Resurfacing

A form of pavement rehabilitation that eliminates minor distresses in asphalt pavement and extends pavement life. The unit price in this PMP assumes a nominal 2-inch mill, pavement repairs, and 2-inch inlay.



#### A6.1.3. Overlay

Overlays are used to address load related distresses and increase pavement load bearing/structural capacity. The overlay unit prices in this PMP include a nominal 2-inch mill of existing pavement, pavement repairs, and overlays at various depths depending on the needs of the pavement section.



**A6.1.4. Patching**

Patches may be either partial depth or full depth. They are used to eliminate distresses that have FOD potential. Temporary cold patching material may be used for short term repairs but should be replaced with FAA P-401 hot mix asphalt or an equivalent DOT product.



**A6.1.5. Crack Repair/Sealing**

The most common type of preventative maintenance, crack repair/sealing, is highly effective at extending pavement life by preventing moisture from seeping into the pavement section. Cracks of a more severe nature should be routed before sealing operations take place.



**A6.1.6. Surface Treatment/Rejuvenation**

Application of a high quality, penetrating sealer to the surface of asphalt pavement. Patching and/or crack sealing may take place before the placement of sealer.

## A6.2. RIGID PAVEMENT (PCC) WORK DESCRIPTIONS

### A6.2.1. Reconstruction

Reconstruction is recommended when pavements have deteriorated to the point where preventative maintenance techniques and pavement rehabilitation are no longer viable. The unit price assumes excavation of the existing pavement section down to subgrade, installation of a geotextile fabric membrane, 18-inches of P-209 base course material, and 17-inches of P-501 PCC material.



### A6.2.2. Surface Reconstruction

Surface reconstruction consists of the demolition of the top layer of concrete through rubbilization or a crack and seat process. Through this process, reflective crack is minimized and the pavement section retains its compacted state. A new surface layer of PCC is placed.



### A6.2.3. Slab Replacement/Full Depth Patching

Shattered slabs, scaling, and high-severity blowups usually necessitate this repair method. The unit price in this PMP includes sawcutting of the existing concrete, removal of the slab and subbase to subgrade, installation of 18-inches of new P-209 base material, and placement of new concrete at a depth of 17-inches.



#### A6.2.4. Partial Depth Patching

Partial depth patching of existing PCC is an effective method to treat a variety of distresses most notably joint spalling and corner spalling. Unit price assumes removal and replacement of concrete to a depth of 2-inches.



#### A6.2.5. Joint Seal Repair/Replacement

The most common type of preventative maintenance, crack repair/sealing, is highly effective at extending pavement life by preventing moisture from seeping into the pavement section. Cracks of a more severe nature should be routed before sealing operations take place.



**APPENDIX A7 - 5-YEAR CAPITAL PLAN FOR PAVEMENT MAINTENANCE AND REHABILITATION**

BRANCH	SECTION	2018	2019	2020	2021	2022
A	A-1	Preventive Before:69.15 After:69.28	Do Nothing Before:68.52 After:68.52	Preventive Before:68.08 After:68.13	Do Nothing Before:67.89 After:67.89	Do Nothing Before:67.81 After:67.81
A	A-2	Preventive Before:70.33 After:70.54	Do Nothing Before:69.35 After:69.35	Preventive Before:68.57 After:68.66	Do Nothing Before:68.11 After:68.11	Do Nothing Before:67.88 After:67.88
CARGO	CARGO	Do Nothing Before:71.58 After:71.58	Do Nothing Before:70.08 After:70.08	Do Nothing Before:69.04 After:69.04	Do Nothing Before:68.38 After:68.38	Do Nothing Before:68.01 After:68.01
CTA	CTA-1	Do Nothing Before:67.81 After:67.81	Do Nothing Before:67.8 After:67.8	Do Nothing Before:67.73 After:67.73	Do Nothing Before:67.51 After:67.51	Do Nothing Before:67.06 After:67.06
CTA	CTA-2	Do Nothing Before:70.96 After:70.96	Do Nothing Before:69.64 After:69.64	Do Nothing Before:68.75 After:68.75	Do Nothing Before:68.21 After:68.21	Do Nothing Before:67.93 After:67.93
CTA	CTA-3	Preventive Before:77.89 After:78.4	Preventive Before:75.27 After:75.68	Preventive Before:73.14 After:73.48	Preventive Before:71.46 After:71.72	Do Nothing Before:69.99 After:69.99
GAA	GAA-1	Do Nothing Before:70.96 After:70.96	Do Nothing Before:69.64 After:69.64	Do Nothing Before:68.75 After:68.75	Do Nothing Before:68.21 After:68.21	Do Nothing Before:67.93 After:67.93
GAA	GAA-2	StopGap Before:57.71 After:57.71	StopGap Before:56.87 After:56.87	StopGap Before:56.03 After:56.03	StopGap Before:55.18 After:55.18	StopGap Before:54.34 After:54.34
GAA	GAA-3	StopGap Before:52.71 After:52.71	StopGap Before:51.87 After:51.87	StopGap Before:51.03 After:51.03	StopGap Before:50.18 After:50.18	StopGap Before:49.34 After:49.34
GAA-2	GAA-2-1					
Heil	SGAA-2	Preventive Before:78.65 After:79.19	Do Nothing Before:75.89 After:75.89	Preventive Before:73.3 After:73.64	Preventive Before:71.58 After:71.85	Do Nothing Before:70.27 After:70.27
RSA	RSA	StopGap Before:57.18 After:57.18	StopGap Before:49.63 After:49.63	Major Below Critical Before:40.47 After:100	Do Nothing Before:94.42 After:94.42	Do Nothing Before:90.07 After:90.07
RWY10-28	RWY10-28-1	StopGap Before:57.18 After:57.18	StopGap Before:49.63 After:49.63	Major Below Critical Before:40.47 After:100	Do Nothing Before:94.42 After:94.42	Do Nothing Before:90.07 After:90.07
RWY10-28	RWY10-28-2	StopGap Before:29.9 After:29.9	StopGap Before:22.26 After:22.26	Major Below Critical Before:14.62 After:100	Do Nothing Before:94.42 After:94.42	Do Nothing Before:90.07 After:90.07
RWY10-28	RWY10-28-3	Preventive Before:80.06 After:80.18	Preventive Before:79.67 After:79.79	Major Above Critical Before:79.22 After:100	Do Nothing Before:94.42 After:94.42	Do Nothing Before:90.07 After:90.07
RWY10-28	RWY10-28-4	Preventive Before:83.48 After:83.9	Preventive Before:82.32 After:82.64	Major Above Critical Before:81.46 After:100	Do Nothing Before:94.42 After:94.42	Do Nothing Before:90.07 After:90.07
RWY10-28	RWY10-28-5	StopGap Before:30.69 After:30.69	StopGap Before:23.05 After:23.05	Major Below Critical Before:15.41 After:100	Do Nothing Before:94.42 After:94.42	Do Nothing Before:90.07 After:90.07
RWY10-28	RWY10-28-6	StopGap Before:54.35 After:54.35	StopGap Before:46.18 After:46.18	Major Below Critical Before:37.37 After:100	Do Nothing Before:94.42 After:94.42	Do Nothing Before:90.07 After:90.07
RWY4-22	RWY4-22	Preventive Before:79.15 After:79.3	Preventive Before:78.56 After:78.76	Preventive Before:77.76 After:78.03	Preventive Before:76.67 After:77.04	Preventive Before:75.23 After:75.71
SGAA	SGAA-1	Do Nothing Before:76.44 After:76.44	Do Nothing Before:73.73 After:73.73	Do Nothing Before:71.65 After:71.65	Do Nothing Before:70.12 After:70.12	Do Nothing Before:69.07 After:69.07
TWYA	TWYA-1	Preventive Before:82.36 After:82.52	Preventive Before:81.94 After:82.06	Preventive Before:81.53 After:81.66	Preventive Before:80.98 After:81.16	Preventive Before:80.2 After:80.46
TWYA	TWYA-2	Major Below Critical Before:37.16 After:100	Do Nothing Before:91.77 After:91.77	Preventive Before:86.88 After:87.78	Preventive Before:84.66 After:85.22	Do Nothing Before:83.35 After:83.35
TWYA	TWYA-3	Preventive Before:77.44 After:77.92	Do Nothing Before:75.68 After:75.68	Preventive Before:72.95 After:73.63	Preventive Before:70.55 After:71.3	Preventive Before:67.95 After:68.76
TWYA-NEW	TWYA-1					<b>New Construction</b>
TWYA-NEW	TWYA-2	Do Nothing Before:99.14 After:99.14	Do Nothing Before:91.24 After:91.24	Preventive Before:86.58 After:86.83	Preventive Before:84.16 After:84.3	Do Nothing Before:82.89 After:82.89
TWYB	TWYB-1	Major Below Critical Before:35.42 After:100	Do Nothing Before:91.77 After:91.77	Preventive Before:86.88 After:87.78	Preventive Before:84.66 After:85.22	Do Nothing Before:83.35 After:83.35
TWYB	TWYB-2	Major Below Critical Before:38.02 After:100	Do Nothing Before:91.77 After:91.77	Preventive Before:86.88 After:87.78	Preventive Before:84.66 After:85.22	Do Nothing Before:83.35 After:83.35
TWYB	TWYB-EXT					<b>New Construction</b>
TWYB2	TWYB2-1	Major Below Critical Before:33.65 After:100	Do Nothing Before:91.77 After:91.77	Preventive Before:86.88 After:87.78	Preventive Before:84.66 After:85.22	Do Nothing Before:83.35 After:83.35
TWYB2	TWYB2-2	Preventive Before:71.74 After:72.45	Preventive Before:69.23 After:70.01	Preventive Before:66.55 After:67.38	Preventive Before:63.73 After:64.59	Do Nothing Before:60.85 After:60.85
TWYB3	TWYB3-3	<b>New Construction</b>	Do Nothing Before:99.14 After:99.14	Do Nothing Before:91.24 After:91.24	Preventive Before:86.57 After:86.82	Do Nothing Before:84.16 After:84.16
TWYB3	TWYB3-4					
TWYB4	TWYB4	Major Below Critical Before:49.53 After:100	Do Nothing Before:91.77 After:91.77	Preventive Before:86.88 After:87.78	Preventive Before:84.66 After:85.22	Do Nothing Before:83.35 After:83.35
TWYBB5	TWYB-B5	Major Below Critical Before:37.15 After:100	Do Nothing Before:91.77 After:91.77	Preventive Before:86.88 After:87.78	Preventive Before:84.66 After:85.22	Do Nothing Before:83.35 After:83.35
TWYBB6	TWYB-B6	Do Nothing Before:99.14 After:99.14	Do Nothing Before:91.24 After:91.24	Preventive Before:86.58 After:86.83	Preventive Before:84.16 After:84.3	Preventive Before:82.89 After:82.96
TWYC	TWYC-1NEV	<b>New Construction</b>	Do Nothing Before:99.14 After:99.14	Do Nothing Before:91.24 After:91.24	Preventive Before:86.58 After:86.83	Preventive Before:84.16 After:84.3
TWYD	TWYD-1	Do Nothing Before:99.14 After:99.14	Do Nothing Before:91.77 After:91.77	Preventive Before:86.88 After:87.78	Preventive Before:84.66 After:85.22	Do Nothing Before:83.35 After:83.35
TWYD	TWYD-2	Major Below Critical Before:37.15 After:100	Do Nothing Before:91.77 After:91.77	Preventive Before:86.88 After:87.78	Preventive Before:84.66 After:85.22	Do Nothing Before:83.35 After:83.35
TWYD	TWYD-3	Preventive Before:71.73 After:72.45	Preventive Before:69.22 After:70.01	Preventive Before:66.54 After:67.37	Preventive Before:63.72 After:64.58	Preventive Before:60.85 After:61.73
TWYD	TWYD-4	StopGap Before:57.23 After:57.23	StopGap Before:53.52 After:53.52	Major Below Critical Before:49.96 After:100	Do Nothing Before:91.75 After:91.75	Do Nothing Before:86.86 After:86.86
TWYE	TWYE	Preventive Before:71.73 After:72.45	Do Nothing Before:69.22 After:69.22	Major Above Critical Before:65.7 After:100	Do Nothing Before:91.77 After:91.77	Preventive Before:86.88 After:87.78
TWYF	TWYF-1					



**APPENDIX A8 - 20-YEAR CAPITAL PLAN FOR PAVEMENT MAINTENANCE AND REHABILITATION**

BRANCH	SECTION	2031	2032	2033	2034	2035	2036	2037	2038
A	A-1	Do Nothing Before:62.92 After:62.92	Do Nothing Before:62.08 After:62.08	Do Nothing Before:61.23 After:61.23	Do Nothing Before:60.39 After:60.39	<b>Major Below Critical</b> Before:59.54 After:100	Do Nothing Before:93.19 After:93.19	Do Nothing Before:87.4 After:87.4	Do Nothing Before:82.57 After:82.57
A	A-2	Do Nothing Before:63.75 After:63.75	Do Nothing Before:62.91 After:62.91	Do Nothing Before:62.06 After:62.06	Do Nothing Before:61.22 After:61.22	<b>Major Above Critical</b> Before:60.38 After:100	Do Nothing Before:93.17 After:93.17	Do Nothing Before:87.39 After:87.39	Do Nothing Before:82.57 After:82.57
CARGO	CARGO	Do Nothing Before:64.2 After:64.2	Do Nothing Before:63.36 After:63.36	Do Nothing Before:62.51 After:62.51	Do Nothing Before:61.67 After:61.67	Do Nothing Before:60.83 After:60.83	Stopgap Before:59.98 After:59.98	<b>Major Below Critical</b> Before:59.98 After:100	Do Nothing Before:93.17 After:93.17
CTA	CTA-1	Do Nothing Before:93.19 After:93.19	Do Nothing Before:87.41 After:87.41	Do Nothing Before:82.57 After:82.57	Do Nothing Before:78.61 After:78.61	Do Nothing Before:75.43 After:75.43	Do Nothing Before:72.94 After:72.94	Do Nothing Before:71.06 After:71.06	Do Nothing Before:69.71 After:69.71
CTA	CTA-2	Do Nothing Before:93.19 After:93.19	Do Nothing Before:87.41 After:87.41	Do Nothing Before:82.57 After:82.57	Do Nothing Before:78.61 After:78.61	Do Nothing Before:75.43 After:75.43	Do Nothing Before:72.94 After:72.94	Do Nothing Before:71.06 After:71.06	Do Nothing Before:69.71 After:69.71
CTA	CTA-3	Do Nothing Before:67.46 After:67.46	Do Nothing Before:66.96 After:66.96	Do Nothing Before:66.13 After:66.13	Do Nothing Before:64.91 After:64.91	Do Nothing Before:64.07 After:64.07	Do Nothing Before:63.23 After:63.23	Do Nothing Before:62.38 After:62.38	Do Nothing Before:61.54 After:61.54
GAA	GAA-1	Do Nothing Before:64.2 After:64.2	Do Nothing Before:63.36 After:63.36	Do Nothing Before:62.51 After:62.51	Do Nothing Before:61.67 After:61.67	<b>Major Above Critical</b> Before:61.67 After:100	Do Nothing Before:93.17 After:93.17	Do Nothing Before:87.39 After:87.39	Do Nothing Before:82.57 After:82.57
GAA	GAA-2	Do Nothing Before:72.4 After:72.4	Do Nothing Before:70.67 After:70.67	Do Nothing Before:69.44 After:69.44	Do Nothing Before:68.62 After:68.62	Preventive Before:68.25 After:68.32	Do Nothing Before:67.98 After:67.98	Do Nothing Before:67.84 After:67.84	Do Nothing Before:67.81 After:67.81
GAA	GAA-3	Do Nothing Before:71.83 After:71.83	Do Nothing Before:70.46 After:70.46	Do Nothing Before:69.29 After:69.29	Do Nothing Before:68.53 After:68.53	Do Nothing Before:68.19 After:68.25	Do Nothing Before:67.95 After:67.95	Do Nothing Before:67.83 After:67.83	Do Nothing Before:67.81 After:67.81
GAA-2	GAA2-1	Do Nothing Before:71.06 After:71.06	Do Nothing Before:69.71 After:69.71	Do Nothing Before:68.79 After:68.79	Do Nothing Before:68.23 After:68.23	Do Nothing Before:67.94 After:67.94	Do Nothing Before:67.82 After:67.82	Do Nothing Before:67.8 After:67.8	Do Nothing Before:67.73 After:67.73
Heli	SGAA-2	Do Nothing Before:67.56 After:67.56	Do Nothing Before:67.15 After:67.15	Do Nothing Before:66.43 After:66.43	Do Nothing Before:65.32 After:65.32	Preventive Before:64.45 After:64.45	Do Nothing Before:63.61 After:63.61	Do Nothing Before:62.76 After:62.76	Do Nothing Before:61.92 After:61.92
RSA	RSA	Do Nothing Before:79.35 After:79.35	Do Nothing Before:78.63 After:78.63	Do Nothing Before:77.57 After:77.57	Do Nothing Before:76.76 After:76.76	Do Nothing Before:75.76 After:75.76	Do Nothing Before:74.76 After:74.76	Do Nothing Before:73.76 After:73.76	<b>Major Below Critical</b> Before:61.33 After:100
RWY10-28	RWY10-28-1	Preventive Before:79.49 After:79.61	Preventive Before:79 After:79.16	Preventive Before:78.36 After:78.57	Preventive Before:77.48 After:77.78	Preventive Before:76.31 After:76.7	Preventive Before:74.75 After:75.27	Preventive Before:72.74 After:73.4	Preventive Before:70.2 After:71.03
RWY10-28	RWY10-28-2	Preventive Before:79.49 After:79.61	Preventive Before:79 After:79.16	Preventive Before:78.36 After:78.57	Preventive Before:77.48 After:77.78	Preventive Before:76.31 After:76.7	Preventive Before:74.75 After:75.27	Preventive Before:72.74 After:73.4	Preventive Before:70.2 After:71.03
RWY10-28	RWY10-28-3	Preventive Before:79.49 After:79.61	Preventive Before:79 After:79.16	Preventive Before:78.36 After:78.57	Preventive Before:77.48 After:77.78	Preventive Before:76.31 After:76.7	Preventive Before:74.75 After:75.27	Preventive Before:72.74 After:73.4	Preventive Before:70.2 After:71.03
RWY10-28	RWY10-28-4	Preventive Before:79.49 After:79.61	Preventive Before:79 After:79.16	Preventive Before:78.36 After:78.57	Preventive Before:77.48 After:77.78	Preventive Before:76.31 After:76.7	Preventive Before:74.75 After:75.27	Preventive Before:72.74 After:73.4	Preventive Before:70.2 After:71.03
RWY10-28	RWY10-28-5	Preventive Before:79.49 After:79.61	Preventive Before:79 After:79.16	Preventive Before:78.36 After:78.57	Preventive Before:77.48 After:77.78	Preventive Before:76.31 After:76.7	Preventive Before:74.75 After:75.27	Preventive Before:72.74 After:73.4	Preventive Before:70.2 After:71.03
RWY10-28	RWY10-28-6	Preventive Before:79.49 After:79.61	Preventive Before:79 After:79.16	Preventive Before:78.36 After:78.57	Preventive Before:77.48 After:77.78	Preventive Before:76.31 After:76.7	Preventive Before:74.75 After:75.27	Preventive Before:72.74 After:73.4	Preventive Before:70.2 After:71.03
RWY4-22	RWY4-22	Preventive Before:83.33 After:83.74	Preventive Before:82.21 After:82.52	Preventive Before:81.37 After:81.6	Preventive Before:80.76 After:80.93	Preventive Before:80.29 After:80.42	Preventive Before:79.89 After:80.01	Preventive Before:79.49 After:79.49	Preventive Before:78.83 After:78.83
SGAA	SGAA-1	Do Nothing Before:66.29 After:66.29	Do Nothing Before:65.11 After:65.11	Do Nothing Before:64.2 After:64.2	Do Nothing Before:63.36 After:63.36	Do Nothing Before:62.52 After:62.52	Do Nothing Before:61.68 After:61.68	Do Nothing Before:60.83 After:60.83	<b>Major Below Critical</b> Before:59.99 After:100
TWYA	TWYA-1								
TWYA	TWYA-2								
TWYA	TWYA-3								
TWYA-NEW	TWYA-1	Do Nothing Before:80.16 After:80.16	Do Nothing Before:78.7 After:78.7	Do Nothing Before:76.69 After:76.69	Do Nothing Before:74.16 After:74.16	Do Nothing Before:71.17 After:71.17	Preventive Before:67.81 After:68.05	Preventive Before:64.44 After:64.7	Preventive Before:60.96 After:61.23
TWYA-NEW	TWYA-2	Preventive Before:69.04 After:69.28	Preventive Before:65.76 After:66.02	Preventive Before:62.31 After:62.57	Stopgap Before:58.8 After:58.8	<b>Major Below Critical</b> Before:58.8 After:100	Do Nothing Before:91.77 After:91.77	Preventive Before:86.88 After:87.14	Do Nothing Before:84.32 After:84.32
TWYB	TWYB-1	Do Nothing Before:74.32 After:74.32	Do Nothing Before:71.35 After:71.35	Do Nothing Before:68.8 After:68.8	Do Nothing Before:65.24 After:65.24	Do Nothing Before:61.51 After:61.51	Do Nothing Before:57.73 After:100	Do Nothing Before:91.75 After:91.75	Do Nothing Before:86.86 After:86.86
TWYB	TWYB-2	Preventive Before:74.32 After:74.95	Do Nothing Before:72.08 After:72.08	Do Nothing Before:68.8 After:68.8	Do Nothing Before:65.24 After:65.24	Do Nothing Before:61.51 After:61.51	<b>Major Below Critical</b> Before:57.73 After:100	Do Nothing Before:91.75 After:91.75	Do Nothing Before:86.86 After:86.86
TWYB	TWYB-EXT	Do Nothing Before:80.16 After:80.16	Do Nothing Before:78.7 After:78.7	Do Nothing Before:76.69 After:76.69	Do Nothing Before:74.16 After:74.16	Do Nothing Before:71.17 After:71.17	Do Nothing Before:67.81 After:67.81	Preventive Before:64.18 After:64.44	Do Nothing Before:60.7 After:60.7
TWYB2	TWYB2-1	Preventive Before:73.67 After:74.32	Preventive Before:71.35 After:72.08	Do Nothing Before:68.8 After:68.8	Do Nothing Before:65.25 After:65.25	Do Nothing Before:61.52 After:61.52	<b>Major Below Critical</b> Before:57.74 After:100	Do Nothing Before:91.75 After:91.75	Do Nothing Before:86.86 After:86.86
TWYB2	TWYB2-2	Do Nothing Before:82.59 After:82.59	Do Nothing Before:81.99 After:81.99	Do Nothing Before:81.71 After:81.71	Do Nothing Before:81.05 After:81.05	Do Nothing Before:80.02 After:80.02	Do Nothing Before:78.49 After:78.49	Do Nothing Before:76.42 After:76.42	Do Nothing Before:73.83 After:73.83
TWYB3	TWYB3-3	Preventive Before:72.06 After:72.28	Preventive Before:69.04 After:69.28	Preventive Before:65.76 After:66.01	Preventive Before:62.31 After:62.57	Preventive Before:58.8 After:58.8	<b>Major Below Critical</b> Before:58.8 After:100	Do Nothing Before:91.77 After:91.77	Do Nothing Before:86.86 After:86.86
TWYB3	TWYB3-4	Do Nothing Before:81.08 After:81.08	Preventive Before:80.07 After:80.16	Do Nothing Before:78.56 After:78.56	Do Nothing Before:76.51 After:76.51	Do Nothing Before:73.94 After:73.94	Do Nothing Before:70.91 After:70.91	Do Nothing Before:67.51 After:67.51	Do Nothing Before:63.88 After:63.88
TWYB4	TWYB4	Preventive Before:74.32 After:74.95	Preventive Before:71.35 After:72.08	Do Nothing Before:68.8 After:68.8	Do Nothing Before:65.24 After:65.24	Do Nothing Before:61.51 After:61.51	<b>Major Below Critical</b> Before:57.73 After:100	Do Nothing Before:91.75 After:91.75	Do Nothing Before:86.86 After:86.86
TWYBB5	TWYB-B5	Do Nothing Before:74.32 After:74.32	Do Nothing Before:71.35 After:71.35	Do Nothing Before:68.8 After:68.8	<b>Major Above Critical</b> Before:65.25 After:100	Do Nothing Before:61.51 After:61.51	Do Nothing Before:57.73 After:100	Do Nothing Before:84.18 After:84.18	Do Nothing Before:82.84 After:82.84
TWYBB6	TWYB-B6	Preventive Before:69.28 After:69.52	Preventive Before:66.02 After:66.27	Preventive Before:62.31 After:62.57	<b>Major Below Critical</b> Before:58.8 After:100	Do Nothing Before:54.77 After:54.77	Do Nothing Before:86.87 After:86.87	Do Nothing Before:84.18 After:84.18	Do Nothing Before:82.84 After:82.84
TWYC	TWYC-1NEW	Preventive Before:72.06 After:72.28	Preventive Before:69.04 After:69.28	Preventive Before:65.76 After:66.02	Preventive Before:62.31 After:62.57	<b>Major Below Critical</b> Before:58.8 After:100	Do Nothing Before:91.77 After:91.77	Do Nothing Before:86.87 After:86.87	Do Nothing Before:84.18 After:84.18
TWYD	TWYD-1	Do Nothing Before:74.32 After:74.32	Do Nothing Before:71.35 After:71.35	Do Nothing Before:68.8 After:68.8	Do Nothing Before:64.39 After:64.39	Do Nothing Before:60.64 After:60.64	Stopgap Before:56.86 After:56.86	<b>Major Below Critical</b> Before:56.86 After:100	Do Nothing Before:91.75 After:91.75
TWYD	TWYD-2	Do Nothing Before:74.32 After:74.32	Preventive Before:71.35 After:72.08	Preventive Before:68.8 After:69.6	Preventive Before:64.39 After:65.25	Do Nothing Before:61.52 After:61.52	Stopgap Before:57.74 After:57.74	<b>Major Below Critical</b> Before:57.74 After:100	Do Nothing Before:91.75 After:91.75
TWYD	TWYD-3	Preventive Before:82.59 After:82.78	Preventive Before:81.23 After:82.24	Preventive Before:81.71 After:81.84	Preventive Before:81.23 After:81.4	Do Nothing Before:80.56 After:80.56	Do Nothing Before:79.28 After:79.28	Do Nothing Before:77.46 After:77.46	Do Nothing Before:75.11 After:75.11
TWYD	TWYD-4	Do Nothing Before:77.94 After:77.94	Do Nothing Before:75.72 After:75.72	Do Nothing Before:72.98 After:72.98	Do Nothing Before:69.82 After:69.82	Do Nothing Before:66.34 After:66.34	Do Nothing Before:62.65 After:62.65	<b>Major Below Critical</b> Before:58.87 After:100	Do Nothing Before:91.77 After:91.77
TWYE	TWYE	Preventive Before:76.95 After:77.45	Preventive Before:76.28 After:76.82	Preventive Before:72.26 After:72.26	Preventive Before:69.01 After:69.8	Preventive Before:66.31 After:67.14	Preventive Before:63.49 After:64.35	Preventive Before:60.70 After:61.56	<b>Major Below Critical</b> Before:57.91 After:100
TWYF	TWYF-1	Do Nothing Before:81.08 After:81.08	Do Nothing Before:80.07 After:80.07	Do Nothing Before:78.56 After:78.56	Do Nothing Before:76.51 After:76.51	Do Nothing Before:73.94 After:73.94	Do Nothing Before:70.91 After:70.91	Do Nothing Before:67.51 After:67.51	Do Nothing Before:63.88 After:63.88

**Appendix A9**

**AVP Pavement Sections - PCN Results**


Network	Name	Branch	Section	PCN	Flexible or Rigid <sup>1</sup>	SG Category <sup>2</sup>	Tire Pressure <sup>3</sup>	Method Used <sup>4</sup>	Notes
AVP	Old Terminal Apron	A	A-1	40	F	C	X	T	Fleet Mix #1
			A-2	40	F	C	X	T	Fleet Mix #1
	Cargo Apron	CARGO	CARGO	121	R	B	W	T	Fleet Mix #1
	Terminal Apron	CTA	CTA-1	92	F	C	X	T	Fleet Mix #1
			CTA-2	109	R	B	W	T	Fleet Mix #1
			CTA-3	97	R	B	W	T	Fleet Mix #1
	General Aviation Apron	GAA	GAA-1	30	F	C	X	T	Fleet Mix #2 - Assumed pavement thickness
			GAA-2		R	B			No pavement section data
			GAA-3	17	R	C	W	T	Fleet Mix #2
	Helipad	Heli	SGAA-2	12	R	B	W	T	Fleet Mix #2
	South General Aviation Apron	SGAA	SGAA-1	37	F	C	X	T	Fleet Mix #2
	Runway 10 Safety Area	RSA	RSA	41	F	C	X	T	Fleet Mix #2
	Runway 10-28	RWY10-28	RWY10-28-1	41	F	C	X	T	Fleet Mix #2
			RWY10-28-2	34	F	C	X	T	Fleet Mix #2
			RWY10-28-3	47	F	C	X	T	Fleet Mix #2
			RWY10-28-4	47	F	C	X	T	Fleet Mix #2
			RWY10-28-5	34	F	C	X	T	Fleet Mix #2
			RWY10-28-6	40	F	C	X	T	Fleet Mix #2
	Runway 4-22	RWY4-22	RWY4-22	45	F	C	X	T	Fleet Mix #1
	Taxiway A	TWYA	TWYA-1	50	F	C	X	T	Fleet Mix #2
			TWYA-2	45	F	C	X	T	Fleet Mix #2
			TWYA-3	50	F	C	X	T	Fleet Mix #2
	Taxiway B	TWYB	TWYB-1	36	F	C	X	U	Boeing 717-200
			TWYB-2	44	F	C	X	T	Fleet Mix #1
		TWYB5	TWYB-3 B5	44	F	C	X	T	Fleet Mix #1
	Taxiway B2	TWYB2	TWYB2-1	36	F	C	X	U	Boeing 717-200
			TWYB2-2	48	F	C	X	T	Fleet Mix #1
	Taxiway B3	TWYB3	TWYB3-1	44	F	C	X	T	Fleet Mix #1
			TWYB3-2	48	F	C	X	T	Fleet Mix #1
	Taxiway B4	TWYB4	TWYB4	44	F	C	X	T	Fleet Mix #1
	Taxiway C	TWYC	TWYC-1	44	F	C	X	T	Fleet Mix #1
			TWYC-2	44	F	C	X	T	Fleet Mix #1
			TWYC-3	48	F	C	X	T	Fleet Mix #1
Taxiway D	TWYD	TWYD-1	98	F	C	X	T	Fleet Mix #1	
		TWYD-2	44	F	C	X	T	Fleet Mix #1	
		TWYD-3	48	F	C	X	T	Fleet Mix #1	
		TWYD-4	40	F	C	X	T	Fleet Mix #2	
Taxiway E	TWYE	TWYE	110	F	C	X	T	Fleet Mix #2	

<sup>1</sup> F = Flexible; R = Rigid

<sup>2</sup> Subgrade Category: B = Rigid (k 295 pci); C = Flexible (CBR 6)

<sup>3</sup> X = 254 psi; W = Unlimited

<sup>4</sup> T = Technical; U = Using Aircraft Method

 PCN not calculated - no pavement section data available



## APPENDIX A9

FLEET MIX #1		
Aircraft Name	Annual Departures	Weight (lbs)
Airbus A320-200	26	172,000
Astra 1125	8	24,650
Beech 1900/C-12J	28	17,120
Beech Super King Air 350	55	15,000
A36 Bonanza	109	3,650
Boeing 717-200	321	121,000
Boeing 737-400	8	124,000
Boeing 737-700	30	154,500
Boeing 737-800	11	174,200
Boeing 737-900	1	187,700
Boeing 757-200	6	255,000
Beech King Air 100	9	11,800
Beech 200 Super King	167	13,420
Raytheon 300 Super King Air	19	15,000
Beechjet 400	42	16,100
Beech 58 Baron	14	5,100
Beech King Air 90	19	10,100
C130 Hercules	5	155,000
Boeing C17 Globemaster 3	5	585,000
Cessna 172	113	2,450
Cessna 182	54	3,100
Cessna 208 Caravan	551	7,800
Cessna 210 Centurion	30	4,000
Cessna Citation CJ2	18	12,500
Cessna Citation CJ3	17	13,870
Cessna 310	22	4,600
Cessna Chancellor 414	18	6,750
Cessna CJ1	25	10,700
Cessna Citation II/Bravo	25	15,100
Cessna Citation V/Ultra/Encore	74	20,200
Cessna Excel	87	20,200
Cessna Citation Sovereign	69	30,775
Bombardier Challenger 300	50	38,850
Bombardier Challenger 600	50	48,200
Bombardier CRJ-200	909	51,000
Bombardier CRJ-700	76	75,000
Bombardier CRJ-900	684	84,500
Dornier 328	774	30,843
Bombardier DHC8-100	1,425	35,000
Bombardier DHC8-200	517	36,300
Bombardier DHC8-300	60	43,000
Embraer EMB 120	46	26,433
Embraer ERJ 135/140	24	46,517
Embraer ERJ 145	678	53,131
Embraer Phenom 300	37	17,968
Dassault Falcon 2000	22	41,000
Dassault Falcon 900	9	45,503
Gulfstream G150	16	24,650
Bombardier BD-700 Global Express	12	92,500
Gulfstream IV	25	73,200
Gulfstream V	16	90,500
Hawker 800	204	28,000
Sikorsky SH-60 Seahawk	18	21,884
Learjet 31/35/36	27	18,000
Learjet 45/70/75	24	21,500
Learjet 60	16	23,500
Mooney M-20C Ranger	34	3,368
MD 83/88	162	160,000
Piper Cherokee	70	2,150
Piper PA-24	36	3,200
Piper Navajo PA-31	59	6,500
Piper Cherokee Six	47	3,400
Piper Malibu	94	4,340
Pilatus PC-12	43	10,450
Cirrus SR 22	54	3,600
Swearingen Merlin 4/4A	137	13,230

FLEET MIX #2		
Aircraft Name	Annual Departures	Weight (lbs)
Astra 1125	8	24,650
Beech 1900/C-12J	28	17,120
Beech Super King Air 350	55	15,000
A36 Bonanza	109	3,650
Beech King Air 100	9	11,800
Beech 200 Super King	167	13,420
Raytheon 300 Super King Air	19	15,000
Beechjet 400	42	16,100
Beech 58 Baron	14	5,100
Beech King Air 90	19	10,100
Cessna 172	113	2,450
Cessna 182	54	3,100
Cessna 208 Caravan	551	7,800
Cessna 210 Centurion	30	4,000
Cessna Citation CJ2	18	12,500
Cessna Citation CJ3	17	13,870
Cessna 310	22	4,600
Cessna Chancellor 414	18	6,750
Cessna CJ1	25	10,700
Cessna Citation II/Bravo	25	15,100
Cessna Citation V/Ultra/Encore	74	20,200
Cessna Excel	87	20,200
Cessna Citation Sovereign	69	30,775
Bombardier Challenger 300	50	38,850
Bombardier Challenger 600	50	48,200
Dornier 328	774	30,843
Bombardier DHC8-100	1,425	35,000
Bombardier DHC8-200	517	36,300
Bombardier DHC8-300	60	43,000
Embraer Phenom 300	37	17,968
Dassault Falcon 2000	22	41,000
Dassault Falcon 900	9	45,503
Gulfstream G150	16	24,650
Bombardier BD-700 Global Express	12	92,500
Gulfstream IV	25	73,200
Gulfstream V	16	90,500
Hawker 800	204	28,000
Sikorsky SH-60 Seahawk	18	21,884
Learjet 31/35/36	27	18,000
Learjet 45/70/75	24	21,500
Learjet 60	16	23,500
Mooney M-20C Ranger	34	3,368
Piper Cherokee	70	2,150
Piper PA-24	36	3,200
Piper Navajo PA-31	59	6,500
Piper Cherokee Six	47	3,400
Piper Malibu	94	4,340
Pilatus PC-12	43	10,450
Cirrus SR 22	54	3,600
Swearingen Merlin 4/4A	137	13,230

