



Airports

# Airport Master Plan

Brown Field  
Municipal Airport

Pavement  
Maintenance  
Management  
Plan (PMMP)

2018

Prepared by:



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## Notice

This document and its contents have been prepared and are intended solely for the C&S Companies and the City of San Diego's information and use in relation to the Pavement Maintenance and Management Program (PMMP) at the Brown Field Municipal Airport (SDM).

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## Executive Summary

Atkins North America was retained by C&S Companies to prepare a Pavement Maintenance Management Plan (PMMP) report as part of the Airport Master Plan study for the Brown Field Municipal Airport (SDM).

Available information from as-built drawings and reports was entered in the PAVER pavement management software to prepare a pavement inventory for Brown Field Municipal Airport as shown in **Table 2-1**. To facilitate the evaluation process, a pavement network definition was established in accordance with ASTM Standard D5340 as shown on **Figure 2-3** and **Figure 2-4**. The detailed PAVER reports (i.e. branch listing, branch condition and section condition reports) are included in Appendices A to C.

To understand the existing pavement condition, a visual pavement inspection was conducted in August 2017. The collected condition data such as distress types, severities and quantities were entered in the PAVER software to calculate the current Pavement Condition Index (PCI). The PCI is a numerical score ranging from 100 (new) to 0 (failed) to rate the general condition of a pavement. The majority (58%) of airfield pavements at Brown Field Municipal Airport are in fair to good condition and the remaining 42% are in poor condition. The average PCI values for runways, taxiways and aprons are 64, 51, and 51, respectively as of August 2017. The current PCI value of each section is shown on **Figure 3-4**.

A Non-Destructive Testing (NDT) utilizing a Heavy Weight Deflectometer (HWD) was conducted to assess the subgrade strength. As part of the evaluation, five pavement cores were also taken to supplement the existing cross section information. The Pavement Classification Number (PCN) was calculated using the FAA COMFAA program based on analysis of traffic data, non-destructive testing, pavement cross section data and available subsurface information. Three sections of Runway 8L-26R were analyzed and the smallest numerical PCN value was used in Runway 8L-26R PCN reporting. The numerical PCN value for Runway 8R-26L was estimated using the "Using Aircraft Method". The PCN codes of both runways are listed in **Table 4-5**.

A typical pavement performance curve was presented on **Figure 5-1** and the "right" timing of treatment was explained on **Figure 5-2**. Since the most economic maintenance option is to keep good pavements in good repair, preventative maintenance activities are strongly recommended to be applied to pavements when the PCI falls within 5 points of the critical value (i.e. 70) as shown in **Table 5-1**. For pavements with PCI below 70 (i.e. the threshold of good condition), either restoration/rehabilitation and/or major reconstruction are needed. **Figure 5-3** illustrates the areas recommended for preventative treatment, rehabilitation and reconstruction. The estimated costs of preventative treatment and rehabilitation/restoration for the next 5 years are summarized in **Table 5-5** and **Table 5-6**. Although the cost estimates provide a useful network-level planning tool, they are not a comprehensive Engineer's estimate as the cost is only pertinent to pavement construction cost. A detailed engineering study and the project specific cost estimates shall be developed on a case-by-case basis to ensure the most appropriate rehabilitation strategy is chosen at the time of implementation.

Because an unlimited budget is unlikely to be available to support all identified rehabilitation and reconstruction needs shown in **Table 5-6**, a prioritized short-list of the Capital Improvement Program (CIP) is proposed in **Table 6-1**. The prioritization is based on the existing pavement condition, the operational importance and the known maintenance need expressed by the Airport. The five-year CIP exhibit for Brown Field Municipal Airport is shown on **Figure 6-2**. The Airport can begin the grant application process at the earliest opportunity and apply stopgap treatment listed in

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**Table 5-2** while waiting for the funding approval. It is noted that the estimated CIP cost excludes any administration cost, non-pavement related improvements (e.g. utilities), professional engineering fee, construction observation/inspection fees, annual escalation and contingencies. Cost estimates presented in this report are based on November 2017 dollars.

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# 1 Introduction and Scope

This Pavement Maintenance Management Plan (PMMP) report was prepared for the C&S Companies as part of the Airport Master Plan study for Brown Field Municipal Airport. The report organization and study effort are described in Section 1.1. The scope of work for the PMMP, is outlined in Section 1.2.

## 1.1 Report Organization

The report is divided into six Chapters and seven Appendices.

- Chapter 1 “Introduction and Scope” – This chapter provides a brief background, report organization, and scope of work for Task 11, PMMP.
- Chapter 2 “Pavement Inventory and Network Definition” – This chapter presents the details of airfield pavement inventory and the network definition used in the pavement management program, PAVER 7.0.2.
- Chapter 3 “Pavement Condition Index” – This chapter documents the field visual inspection to rate the existing pavement conditions. An overall existing Pavement Condition Index (PCI) map is prepared for Brown Field Municipal Airport.
- Chapter 4 “Pavement Classification Number” – This chapter reviews the existing and future traffic data. A non-destructive Heavy Weight Deflectometer (HWD) testing was conducted to facilitate the assessment of subgrade strength. The Pavement Classification Number (PCN) values for runways are calculated using the FAA Advisory Circular 150/5335-5C.
- Chapter 5 “Maintenance and Rehabilitation Plans and Budget Requirements” – This chapter suggests the viable near future maintenances options and provides the cost estimates for the longer-term rehabilitation and reconstruction using the existing PCI information presented in Chapter 3. It’s noted that the presented cost reflects the material costs associated with the maintenance and rehabilitation strategies. All project overheads, administration, mobilization and professional engineering fees are EXCLUDED in the estimate.
- Chapter 6 “Recommended Capital Improvement Program and Prioritization” – This chapter recommends the prioritization of Capital Improvement Projects based on the operational importance of pavements, existing pavement conditions and available inputs from Airport managers.
- Appendix A: Branch Listing Report
- Appendix B: Branch Condition Report
- Appendix C: Section Condition Report
- Appendix D: Pavement Inspection Report
- Appendix E: Heavy Weight Deflectometer Testing Plan and Location
- Appendix F: Pavement Coring Data
- Appendix G: PCN Calculation Output (Runway 8L-26R Interior)



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## 1.2 Scope of Work

Specific items of work included in Task 11 Pavement Maintenance Management Program are outlined below.

- a. Prepare a Pavement Maintenance Management Plan (PMMP) for Brown Field Municipal Airport. The PMMP should include the following:
  - i. Pavement inventory, structure and maintenance and rehabilitation (M&R) history;
  - ii. Pavement condition and traffic;
  - iii. Prediction of current and future Pavement Condition Index;
  - iv. Determine optimum M&R Plans and budget requirements; and
  - v. Formulate and prioritize M&R projects.
- b. Determine the Pavement Classification Number values using the FAA Advisory Circular 150/5335-5C, Standardized Method of Reporting Airport Pavement Strength – PCN.

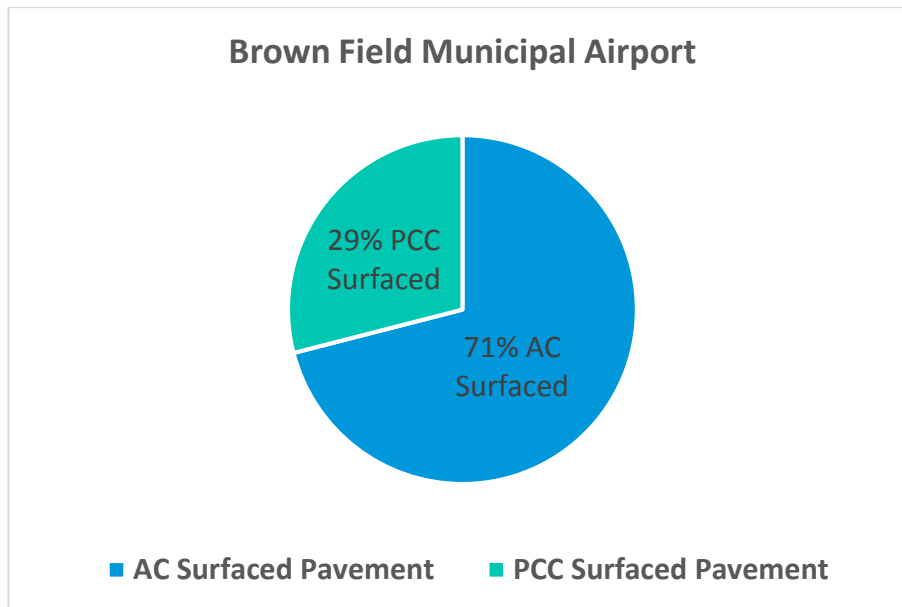
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## 2.1 Record Research and Pavement Inventory

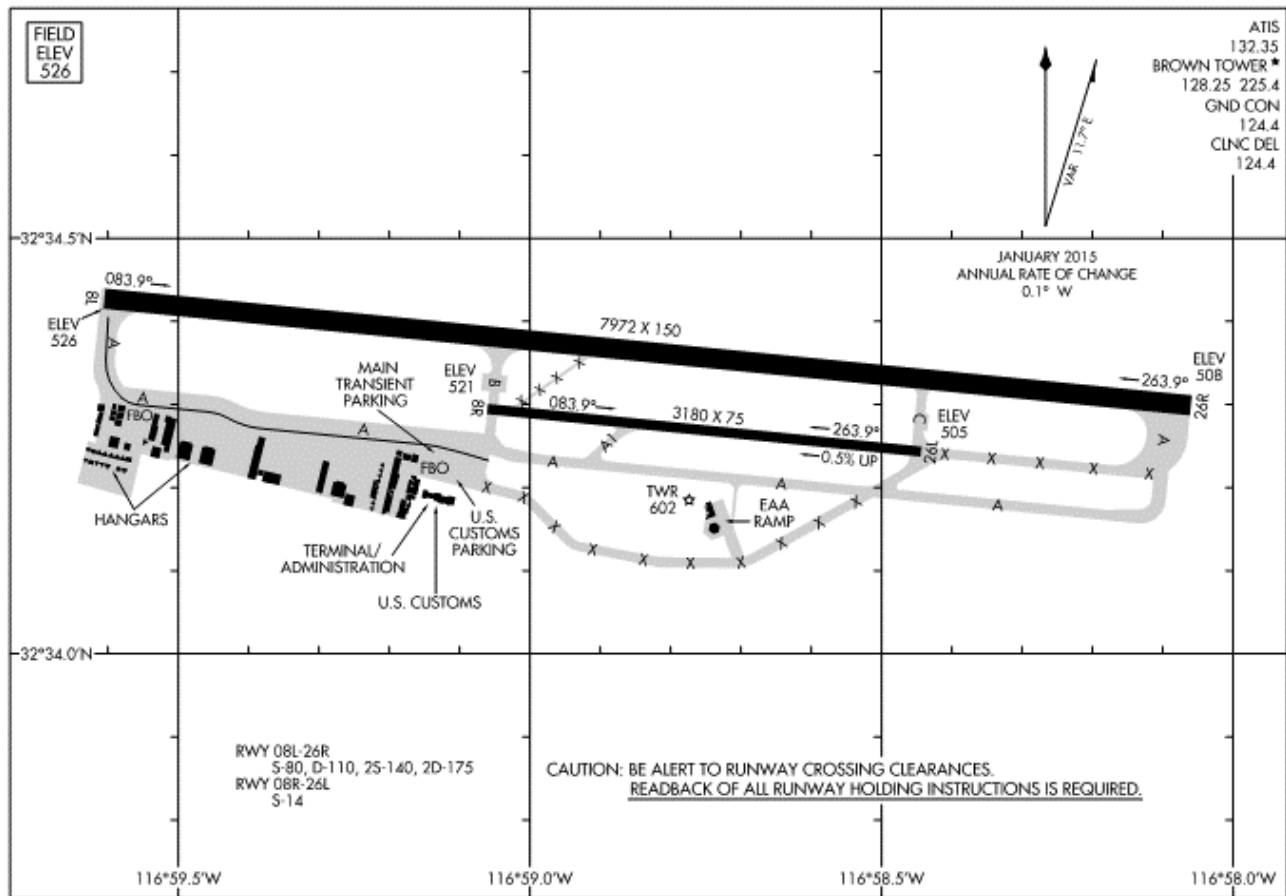
To establish pavement inventory, available as-built drawings and record information such as pavement surface types, pavement thicknesses and composition, construction dates, and known M&R histories, were obtained from the Airport. The collected information was reviewed and entered in the PAVER 7.0.2 pavement management software.

Using imagery from a recent aerial photogrammetry update for the Brown Field Municipal Airport, a layout of the airfield pavement edges was created in AutoCAD software and served as the base map for the PMMP.

The pavement distribution by surface type is summarized in **Figure 2-1**. A recent overlay construction between 2015 to 2016 converted the pavement surface type from concrete to asphalt for the end of Runway 26R. This reduced the concrete surfaced pavements to 29 percent (approximately 775,185 square feet). The existing Airport diagram of Brown Field Municipal Airport is shown on **Figure 2-2**.



**Figure 2-1 Pavement Area by Surface Type**



Source: Photo taken from <https://www.sandiego.gov/airports/brown> website.

**Figure 2-2 Existing Airfield Facilities**

The pavement inventory summary for Brown Field Municipal Airport is shown in **Table 2-1**.

**Table 2-1 Pavement Inventory**

Network ID	Branch ID	Branch Name	Branch Use	Section ID	Surface	True Area (SF)	Last Construction Date
SDM	R8L26R	RWY 8L-26R	RUNWAY	01L	PCC	48750	7/1/1951 <sup>2</sup>
SDM	R8L26R	RWY 8L-26R	RUNWAY	01K	PCC	48750	7/1/1951 <sup>2</sup>
SDM	R8L26R	RWY 8L-26R	RUNWAY	01R	PCC	48750	7/1/1951 <sup>2</sup>
SDM	R8L26R	RWY 8L-26R	RUNWAY	02L	APC <sup>2</sup>	247600	1/1/1997 <sup>1</sup>
SDM	R8L26R	RWY 8L-26R	RUNWAY	02K	APC <sup>2</sup>	247600	1/1/1997 <sup>1</sup>
SDM	R8L26R	RWY 8L-26R	RUNWAY	02R	APC <sup>2</sup>	247600	1/1/1997 <sup>1</sup>
SDM	R8L26R	RWY 8L-26R	RUNWAY	03L	APC <sup>2</sup>	18750	7/27/2016
SDM	R8L26R	RWY 8L-26R	RUNWAY	03K	APC <sup>2</sup>	18750	7/27/2016
SDM	R8L26R	RWY 8L-26R	RUNWAY	03R	APC <sup>2</sup>	18750	7/27/2016
SDM	R8L26R	RWY 8L-26R	RUNWAY	04L	AC	76500	7/27/2016
SDM	R8L26R	RWY 8L-26R	RUNWAY	04K	AC	76500	7/27/2016
SDM	R8L26R	RWY 8L-26R	RUNWAY	04R	AC	68250	7/27/2016
SDM	R8L26R	RWY 8L-26R	RUNWAY	05L	AC	9200	7/27/2016
SDM	R8L26R	RWY 8L-26R	RUNWAY	05K	AC	9200	7/27/2016

Network ID	Branch ID	Branch Name	Branch Use	Section ID	Surface	True Area (SF)	Last Construction Date
SDM	R8L26R	RWY 8L-26R	RUNWAY	05R	AC	17450	7/27/2016
SDM	R8R26L	RWY 8R-26L	RUNWAY	01	AAC	5625	6/1/2009 <sup>1</sup>
SDM	R8R26L	RWY 8R-26L	RUNWAY	02	AAC	66300	7/1/1951 <sup>2</sup>
SDM	R8R26L	RWY 8R-26L	RUNWAY	03	AAC	24375	7/1/1951 <sup>2</sup>
SDM	R8R26L	RWY 8R-26L	RUNWAY	04	AAC	110400	6/1/2009 <sup>1</sup>
SDM	R8R26L	RWY 8R-26L	RUNWAY	05	AAC	32250	7/1/1951 <sup>2</sup>
SDM	TWA	Taxiway A	TAXIWAY	01	PCC	101250	7/1/1951 <sup>2</sup>
SDM	TWA	Taxiway A	TAXIWAY	02	PCC	77250	4/22/1994 <sup>2</sup>
SDM	TWA	Taxiway A	TAXIWAY	03	PCC	127500	4/22/1994 <sup>2</sup>
SDM	TWA	Taxiway A	TAXIWAY	04	AC	223500	4/22/1994 <sup>2</sup>
SDM	TWA	Taxiway A	TAXIWAY	05	AC	171750	1/1/1997 <sup>1</sup>
SDM	TWA	Taxiway A	TAXIWAY	06	PCC	36750	7/1/1951 <sup>2</sup>
SDM	TWA	Taxiway A	TAXIWAY	07	PCC	52500	7/1/1951 <sup>2</sup>
SDM	ATWA	Taxiway A Warm Up	APRON	01	PCC	19600	7/1/1951 <sup>2</sup>
SDM	ATERM	Terminal Apron	APRON	01	PCC	51750	4/22/1994 <sup>2</sup>
SDM	ATERM	Terminal Apron	APRON	02	PCC	64125	4/22/1994 <sup>2</sup>
SDM	ATERM	Terminal Apron	APRON	03	PCC	78400	4/22/1994 <sup>2</sup>
SDM	TWB	Taxiway B	TAXIWAY	01	AAC	23250	1/1/1997 <sup>1</sup>
SDM	TWB	Taxiway B	TAXIWAY	02	AAC	18750	6/1/2009 <sup>1</sup>
SDM	TWB	Taxiway B	TAXIWAY	03	AAC	10125	6/1/2009 <sup>1</sup>
SDM	ATWB	Taxiway B Warm Up	APRON	01	AAC	7920	5/1/1994 <sup>1</sup>
SDM	ATWB	Taxiway B Warm Up	APRON	02	AAC	5760	1/1/1997 <sup>1</sup>
SDM	TWA1	Taxiway A1	TAXIWAY	01	AC	10500	4/22/1994 <sup>2</sup>
SDM	TWA1	Taxiway A1	TAXIWAY	02	AC	12300	4/22/1994 <sup>2</sup>
SDM	TWC	Taxiway C	TAXIWAY	01	APC <sup>2</sup>	31875	1/1/1997 <sup>1</sup>
SDM	TWC	Taxiway C	TAXIWAY	02	APC <sup>2</sup>	28500	4/22/1994 <sup>2</sup>
SDM	ATWC	Taxiway C Warm Up	APRON	01	AC	3720	1/1/1997 <sup>1</sup>
SDM	TWEAA	Taxiway EAA	TAXIWAY	01	AC	7500	4/22/1994 <sup>2</sup>

Note 1: Pavement history (i.e. pavement surface types and approximate construction dates) obtained from Google Earth.

Note 2: Pavement history obtained from the 2006 SDM Airport Pavement Management System (APMS) Report.

## 2.2 Network Definition

To facilitate the evaluation process, the pavement network was subdivided into manageable units in accordance with ASTM Standard D5340, Standard Test Method for Airport Pavement Condition Index Surveys. Network definition establishes an organized hierarchy system when dividing the airfield pavements into branches, sections and sample units. The subdivided pavement divisions are further explained as follows.

- Network: One single pavement network is established for all airfield pavements including runways, taxiways and aprons for each Airport. For example, the network ID for Brown Field Municipal Airport is SDM.

- 
- Branch: A branch is any identifiable part of the pavement network that serves a distinct function. For example, airfield pavements for individual runways, taxiways and aprons are typically considered as separate branches.
  - Section: A section is a subdivision of a branch that shares common characteristics such as pavement section, construction history, traffic and pavement condition.
  - Sample Unit: A sample unit is a randomly selected portion of a pavement section for conducting visual inspections. It is the smallest subdivision in a pavement network. For asphalt surfaced pavements, each sample unit is typically  $5,000 \pm 2,000$  square feet. For concrete surfaced pavements, each sample unit is typically  $20 \pm 8$  slabs.

The network definition for Brown Field Municipal Airport is illustrated on **Figure 2-3**. The sample units map used in the PCI survey (to be further discussed in Chapter 3) is shown on **Figure 2-4**. The detailed PAVER reports including branch listing report, branch condition report and section condition report are included in Appendices A, B and C, respectively.

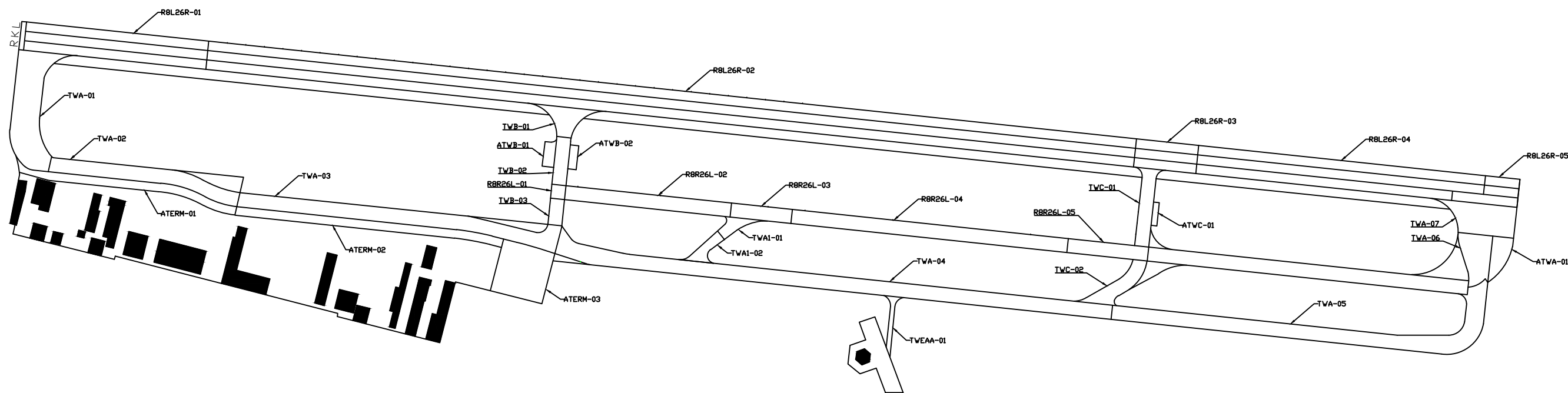
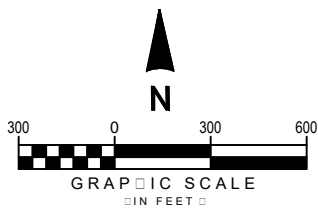


Figure 2-3 Network Definition Map





- LEGEND
- R0120R-01: BRANC NAME AND SECTION NUMBER
  - 001: SAMPLE UNIT NUMBER
  - ASPALT SURFACE PAEMENT SAMPLE
  - CONCRETE SURFACE PAEMENT SAMPLE
  - SAMPLE UNIT SCHEDULED ON AUGUST 21-24, 2017

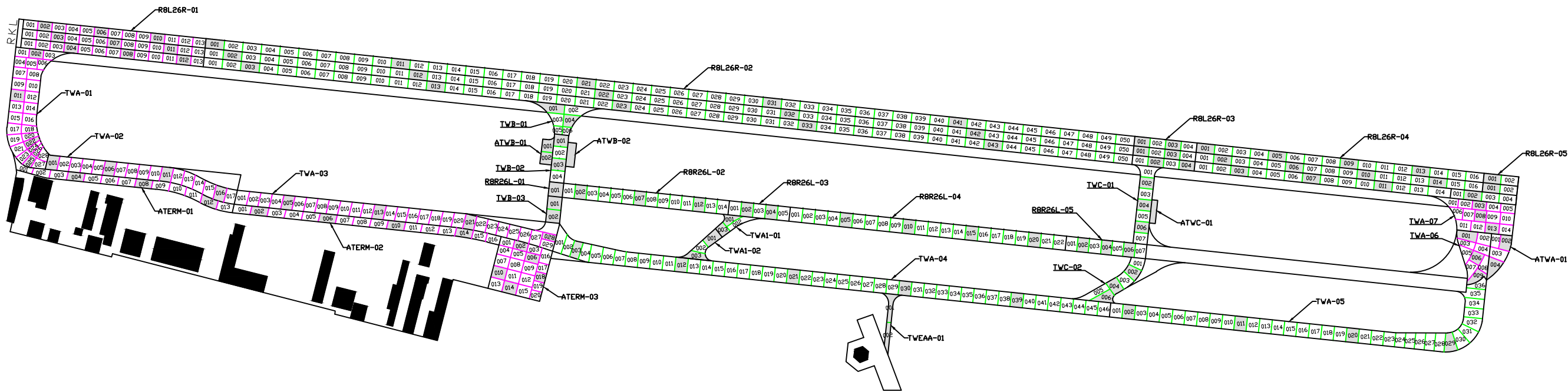
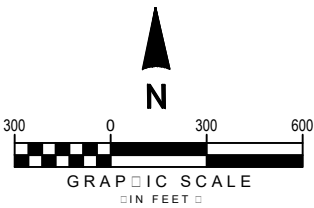
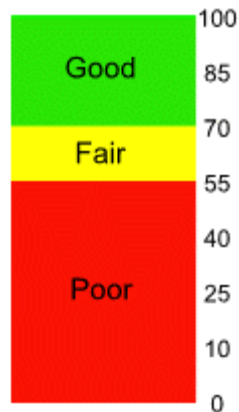


Figure 2-4 Sample Units Map



### 3.1 Visual Pavement Condition Survey

The Atkins team conducted a visual pavement inspection at Brown Field Municipal Airport in August 2017. The collected condition data during the PCI inspections were entered in the PAVER 7.0.2 software to calculate the current PCI for each surveyed sample unit and section. The PCI is a numerical score ranging from 100 (new) to 0 (failed) to rate the general condition of a pavement. Three PCI categories used in this report are shown on **Figure 3-1**.



**Figure 3-1 PCI Legend**

The pavement area and the percentage of use for each branch of Brown Field Municipal Airport are summarized in **Table 3-2**.

**Table 3-2 Pavement Area and Percentage of Use**

Branch Use	Area (square feet)	Percentage
Runway	1,441,350	54.4%
Taxiway	974,988	36.8%
Apron	233,617	8.8%
Total	2,649,955	100.0%

The commonly found distresses of asphalt surfaced pavements for Brown Field Municipal Airport include the following:

- Longitudinal and transverse cracks
- Raveling and/or weathering
- Fatigue (alligator) cracking
- Patching
- Reflective cracking
- Block cracking
- Depression

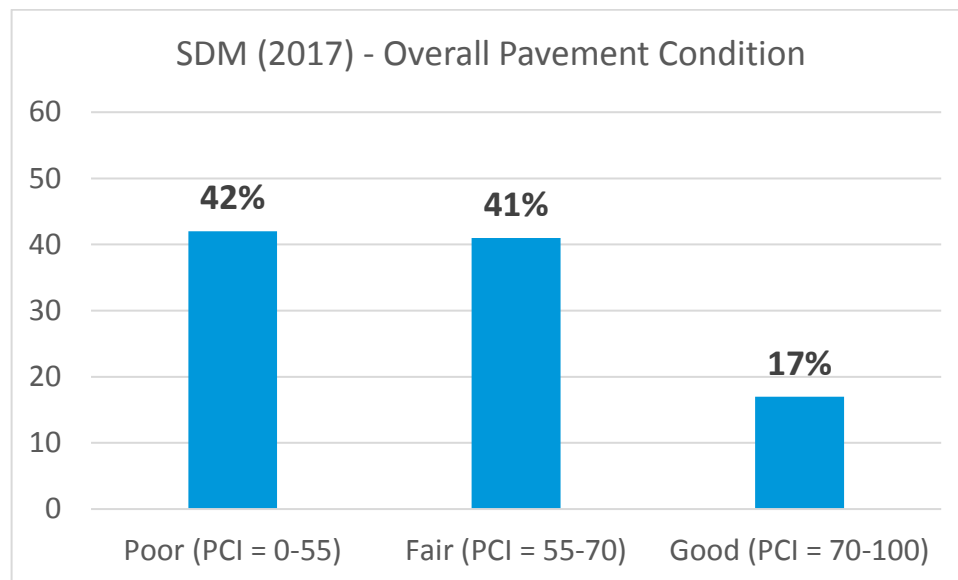
The commonly found distresses of Portland Cement Concrete (PCC) surfaced pavements for Brown Field Municipal Airport include the following.

- Joint seal damage
- Line cracking (transverse, longitudinal or linear)
- Corner breaks
- Shattered slabs
- Spalling
- Patching and utility cuts

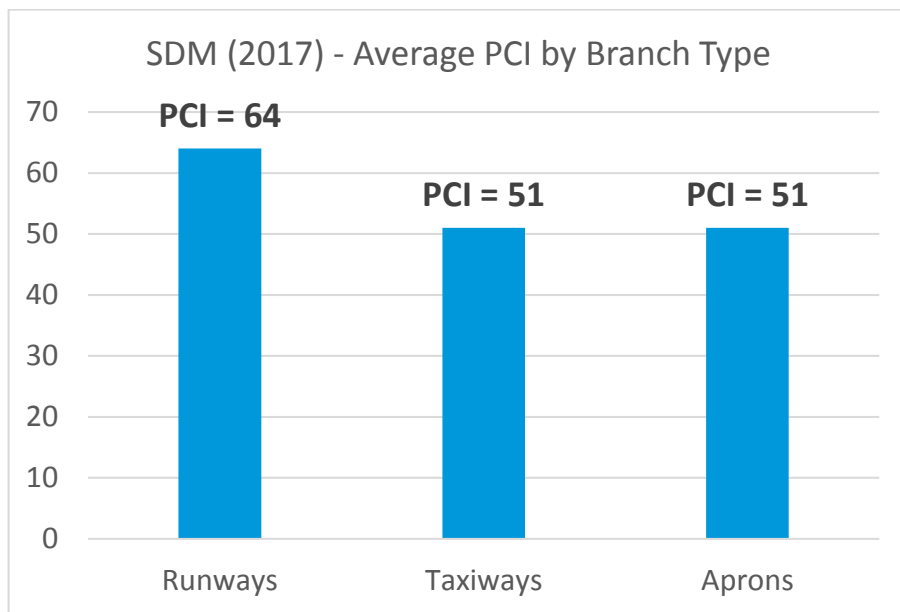
The detailed pavement inspection report including the distress types and severities for Brown Field Municipal Airport pavements is included in Appendix D.

## 3.2 Pavement Condition Index in 2017

The overall condition of the airfield pavements at Brown Field Municipal Airport in 2017 is shown in **Figure 3-2**. The majority (58%) of airfield pavements are in fair to good condition. The remaining 42% of airfield pavements are in poor condition and need a rehabilitation or reconstruction. As shown in **Figure 3-3**, the average PCI values for runways/taxiways/aprons are 64, 51, and 51 respectively. The area-weighted PCI for combined airfield pavements including runways, taxiways and aprons is 58.



**Figure 3-2 Overall Pavement Condition (August 2017)**



**Figure 3-3 Area-Weighted Pavement Condition by Branch Use (August 2017)**

The current PCI value of each section for Brown Field Municipal Airport is shown on **Figure 3-4**.

**NOTES**

1 THE RATING OF EXISTING PAVEMENT CONDITION INDEX (PCI) IS BASED ON LIMITED VISUAL SURVEY PERFORMED ON AUGUST 14-17, 2017 AND THE AVAILABLE AS-BUILT INFORMATION. ASSUMPTIONS WERE MADE AS NECESSARY WHEN AN EXACT CONSTRUCTION COMPLETION DATE AND/OR MAINTENANCE TREATMENT DATE ARE UNKNOWN.

2 APPROXIMATE 230-FT FAILED RUNWAY 2L PAVEMENT DUE TO ISSUES RELATED TO WATER. BECAUSE THE LOCALIZED FAILURE IS NOT REPRESENTATIVE FOR THE ENTIRE SECTION, THE FAILED AREA WAS NOT SAMPLED FOR CONDITION ASSESSMENT AND PCI CALCULATION. THE REPAIR EXPECTS TO BE DONE IN A SEPERATE PROJECT AND IS EXCLUDED IN THE RECOMMENDED CIP.

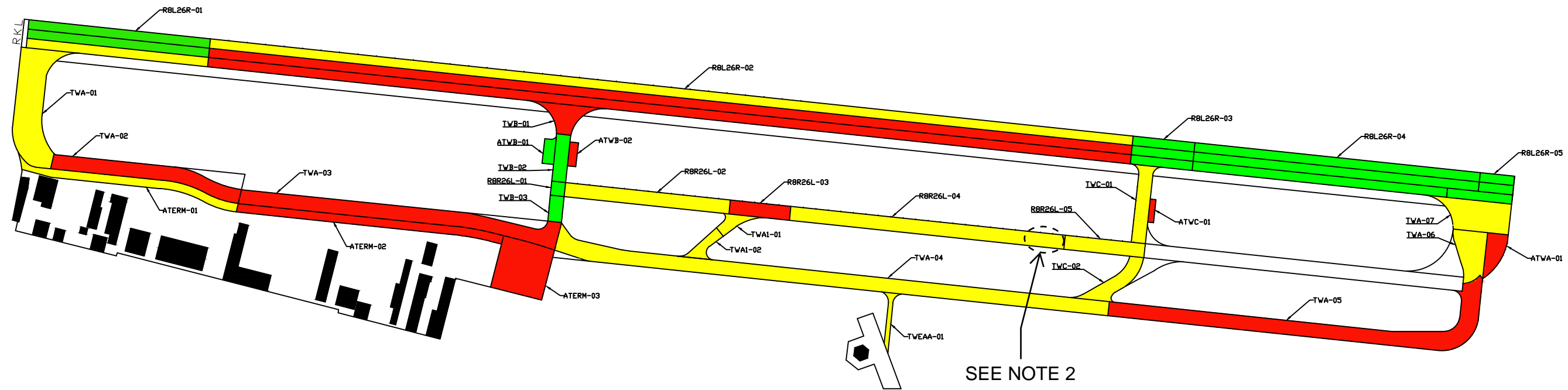
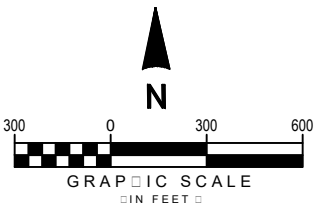
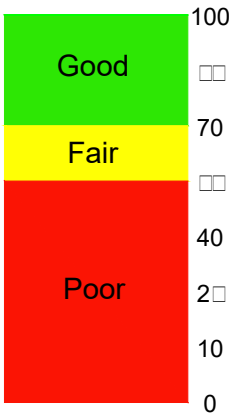


Figure 3-4 2017 Pavement Condition Index Map



## 4.1 Traffic

Per the City of San Diego Airport Master Plans – Initial Environmental Review report prepared in October 2017, the modeled 2017 average daily departures at the Brown Field Municipal Airport is shown in **Table 4-1**. It is assumed that the traffic mix and departures will not change significantly in the foreseeable future. Thus, the aircraft types and departure data shown in **Table 4-1** can be used to determine Pavement Classification Number.

**Table 4-1 2017 Average Daily Departures (from Table 4-30 Initial Environmental Review report dated October 2017)**

Aircraft Type	Engine	Taxi Time (Seconds)	Stage Length	Annual Average Day Operations –Departures			
				Day	Evening	Night	Total
LEAR35	TFE731-2-2B	600	1	1.412	0.074	0.075	1.561
LEAR35	TFE731-3	600	1	1.412	0.074	0.075	1.563
CL600	CF34-3B	600	1	3.204	0.168	0.169	3.541
GV	BR700-710A2-20	600	1	0.234	0.012	0.012	0.259
F-18	F404-GE-400	600	1	1.012	0.065	0.032	1.109
CNA208	PT6A-67B	600	1	0.602	0.046	0.034	0.683
CNA172	O-320	600	1	9.002	0.146	0.112	9.260
COMSEP	TIO-540-J2B2 <sup>13</sup>	600	1	1.029	0.017	0.013	1.058
GASEPV	TIO-540-J2B2 <sup>13</sup>	600	1	1.200	0.019	0.015	1.235
GASEPV	TIO-540-J2B2 <sup>13</sup>	600	1	6.566	0.106	0.082	6.754
GASEPV	TSIO36	600	1	9.849	0.159	0.123	10.131
BEC58P	TSIO-360C	600	1	0.281	0.015	0.004	0.300
BEC58P	IO-360-B	600	1	0.281	0.015	0.004	0.300
BEC58P	TIO540 <sup>14</sup>	600	1	3.937	0.204	0.056	4.197
BEC58P	TIO-540-J2B2	600	1	3.374	0.175	0.048	3.597
BEC58P	TIO540 <sup>14</sup>	600	1	2.812	0.146	0.040	2.998
DHC6	PT6A-42 <sup>15</sup>	600	1	1.118	0.086	0.064	1.268
DHC6	PT6A-42 <sup>15</sup>	600	1	0.748	0.057	0.043	0.848
EC130	TPE331-3	600	1	0.336	0.067	0.000	0.403
R44	TIO-540-J2B2	600	1	0.224	0.045	0.000	0.268
S70	T700-GE-700	600	1	0.083	0.166	0.582	0.832
Subtotal				48.718	1.864	1.581	52.163

<sup>13</sup> Repeated GASEPV aircraft with engine type TIO-540-J2B2 indicate multiple AEDT equipment IDs used for airframe identification.

<sup>4</sup> Repeated BEC58P aircraft with engine type TIO540 indicate multiple AEDT equipment IDs used for airframe identification.

<sup>5</sup> Repeated DHC6 aircraft with engine type TIO540 indicate multiple AEDT equipment IDs used for airframe identification.

Note: Totals may not match exactly due to rounding. Repeated Aircraft and engine type indicates change in AEDT equipment ID.

## 4.2 Heavy Weight Deflectometer Testing

To better assess the structural integrity and the load-carrying capacity of Brown Field Municipal Airport pavements, a Non-Destructive Testing (NDT) utilizing a Heavy Weight Deflectometer (HWD)



as shown on **Figure 4-1** was performed. The detailed testing plan and location can be found in Appendix E.



Source: Photo taken from <https://www.dynatest.com/hwd> website.

**Figure 4-1 Dynatest Heavy Weight Deflectometer**

The HWD creates an impulse load by dropping weights from a range of heights. This simulates the magnitude and duration of a moving aircraft wheel load. Three test loads (25, 35 and 45 kips) were applied in this study. The deflections were measured by sensors located at 0", 12", 18", 24", 36", 48", 60", 72" and 84" from the center of the load plate. The HWD test was conducted in general accordance with FAA Advisory Circular 150/5370-11, Use of Nondestructive Testing in the Evaluation of Airport Pavements.

The testing results (i.e. deflection data) and the pavement cross section information were used to back-calculate the in-situ material properties such as the subgrade characteristics. Together with the traffic data presented in Section 4.1, the pavement classification number was determined.

### 4.3 Pavement Cores

Five pavements cores were also taken in locations where the pavement cross section information cannot be obtained from historical review and prior geotechnical investigation. The pavement coring data is included in Appendix F.

## 4.4 Runway PCN Calculation

### 4.4.1 Traffic for PCN Calculation

A representative aircraft for each aircraft group/type is shown in **Table 4-2** for the calculation of Pavement Classification Number (PCN). The annual departures were calculated using the total daily departures shown in **Table 4-1** and were rounded to the next highest integer.

**Table 4-2 Fleet Mix and Traffic for Runway PCN Calculation**

Aircraft Type per Table 4-1	Representative Aircraft in PCN Calculation	Gross Weight (lbs)	Annual Departures
LEAR35	Learjet-35A	18,000	1141
CL600	Challenger-CL-650	48,200	1293
GV	Gulfstream-G-V	90,900	95
F-18	Boeing F-18 Super Hornet/Single Wheel Aircraft	66,000	405
CNA208	Cessna 208 Caravan/Single Wheel Aircraft	8,000	250
CNA172	Cessna 172/Single Wheel Aircraft	2,450	3380
GASEPV	Beechcraft Bonanza 36/Bonanza-F-36	3,650	6615
BEC58P	Beechcraft Baron/Baron-E-55	5,100	4160
DHC6	de Havilland Canada DHC-6 Twin Otter/Single Wheel Aircraft	12,500	773
EC-130	Lockheed EC-130/C-130	165,000	148
S70	Sikorsky S-70 (helicopter)/Single Wheel Aircraft	22,000	304
R44	Robinson R44 (helicopter)/Single Wheel Aircraft	2,500	98
COMSEP	Single Wheel Aircraft	2,440	387

#### 4.4.2 PCN for Runways

Computation of the PCN requires a subgrade modulus input for each section. The subgrade modulus was computed from the NDT deflection data using the FAA BAKFAA program. The data is summarized in Table 4-3.

**Table 4-3 Back-calculation Results Using the FAA BAKFAA Program**

Location	Surface Type	Estimated Existing Thicknesses <sup>1</sup>	Subgrade Modulus <sup>2</sup> (psi)	CBR <sup>3</sup> or K <sup>3</sup>
8L-26R West Touchdown	Portland Cement Concrete (PCC)	8" PCC + 10" PCC	11,846	K = 61 pci
8L-26R Interior	Asphalt Concrete (AC)	9" AC + 10" PCC	19,451	CBR = 4.3
8L-26R East Touchdown	Asphalt Concrete (AC)	12.5" AC + 10" Rubberized PCC	18,920	CBR = 4.2

Note 1: The existing pavement thicknesses were estimated using available as-builts, past geotechnical and project reports, and pavement coring data shown in Appendix F.

Note 2: The modulus is calculated using the FAA BAKFAA program.

Note 3: The value is estimated based on experience and back-calculation results.

During the report preparation, the Runway 8L-26R geotechnical report prepared by Allied Geotechnical Engineers on April 17, 2014, was reviewed. In the report, 15 laboratory test results of California Bearing Ratio (CBR) ranging from 0.7 to 3 were reported. The subgrade soil was classified as CH (highly plastic clay) per six tests. Based on the traffic information, back-calculation results, available geotechnical information and engineering judgements, the subgrade CBR is assumed/estimated to be 3.0 for the asphalt surfaced Runway 8L-26R. For the concrete surfaced Runway 8L-26R (west touchdown), the estimated subgrade modulus (K) is 60 pci. The obtained numerical PCN values of three Runway 8L-26R sections using the FAA COMFAA program are summarized in Table 4-4. The smallest value of three sections (i.e. 43) is selected to be the numerical

PCN value. The PCN calculation of Runway 8L-26R interior section is included in Appendix G.

**Table 4-4 PCN Results Using the FAA COMFAA Program**

Runway Location	Numerical PCN by COMFAA Program
8L-26R West Touchdown	> 100
8L-26R Interior	43
8L-26R East Touchdown	59

Since there is not a separate traffic forecast for Runway 8R-26L, the numerical PCN value for Runway 8R-26L is estimated using the “Using Aircraft Method”. As a result, the numerical PCN value is the largest Aircraft Classification Number (ACN) of the mix traffic that uses Runway 26L. Due to the shortened runway length, the EC-130, Gulfstream V, and other heavier aircrafts cannot take off using Runway 26L. Instead, Runway 26L is restricted for lighter general aviation aircrafts with single wheels. The ACN for the single-wheel aircraft of 12,500 lbs is 5 (i.e. round up from 4.7) as shown in Table 3 of Appendix G and is selected to be the numerical PCN of Runway 8R-26L. Due to the proximity to the main Runway 8L-26R, it is assumed that the subsurface condition and subgrade strength of Runway 26L are similar to the conditions of the main runway. The full PCN codes of both runways are included in **Table 4-5**. For the main Runway 8L-26R, the highest tire pressure (i.e. 188 psi) comes from the Gulfstream V aircraft. For the shorter Runway 8R-26L, the highest tire pressure for the single-wheel aircraft up to 12,500 lbs may be 56 psi (e.g. Beechcraft Baron).

**Table 4-5 Runway PCN Codes**

Runway	PCN Code <sup>1-5</sup>
8L-26R	43/F/D/X/T
8R-26L	5/F/D/Z/U

Note 1: The first part of PCN code is a numerical value computed by the FAA COMFAA program.

Note 2: The second part of PCN code reports the pavement type. “F” denotes “flexible pavement”.

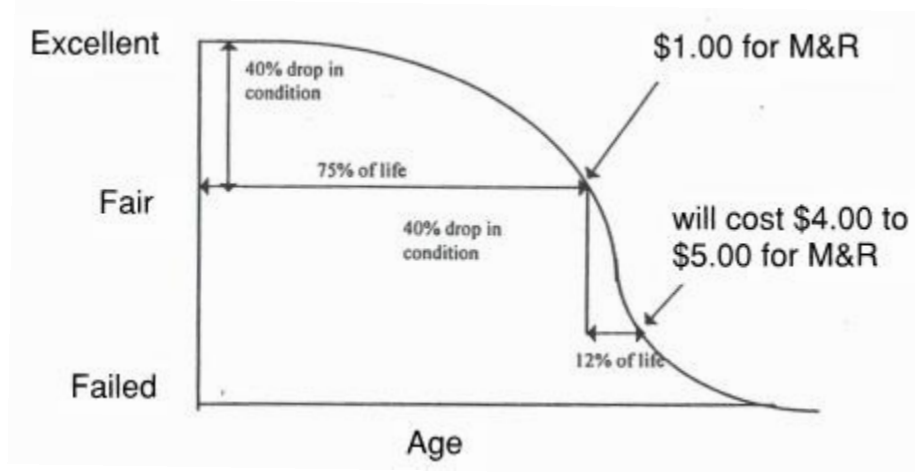
Note 3: The third part of PCN code reports the subgrade strength category. “D” denotes “ultra-low” strength with subgrade CBR of 4 and below for flexible pavements.

Note 4: The fourth part of PCN code reports the allowable tire pressure. “X” denotes “high” tire pressure with pressure limited to 254 psi. “Z” denotes “low” tire pressure with pressure limited to 73 psi.

Note 5: The last part of PCN code reports the method used to determine PCN. “T” denotes a technical evaluation method is used. “U” denotes a “Using Aircraft” experience is used.

## 5.1 Predicted Future (5-yr) Pavement Condition Index

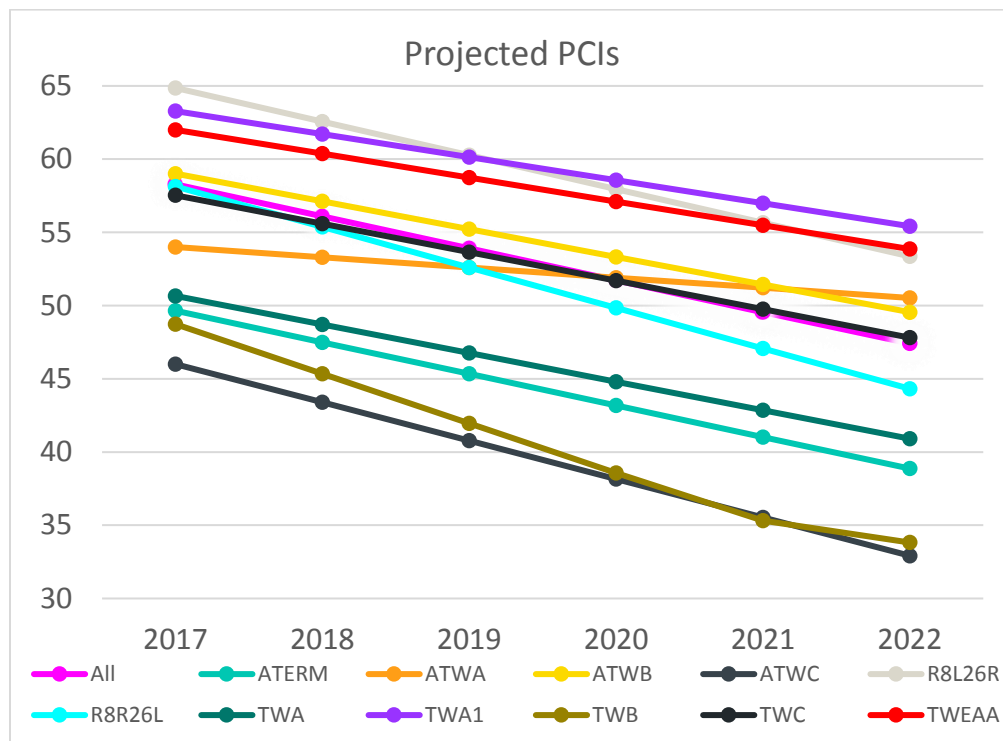
A typical pavement performance curve is illustrated on **Figure 5-1**. The pavement deterioration rate in general is slow when the condition is newer. It takes approximately three-quarters of the pavement life to reduce its condition by 40%. However, it only takes a short amount of time (e.g. 12% of its life) to decrease an additional 40% of its condition. Assuming no budget is available for maintenance and rehabilitation, the predicted PCIs for all airfield pavements of Brown Field Municipal Airport in the next 5 years are shown in **Table 5-1**. The predicted PCIs for each branch of airfield pavements are shown on **Figure 5-2**.



**Figure 5-1 Standard Pavement Deterioration Curve**

**Table 5-1 Area-Weighted PCI for All Airfield Pavements (No Budget, Zero Maintenance)**

Year	Area-weighted PCI
2017	58
2018 (Year 1)	56
2019 (Year 2)	54
2020 (Year 3)	52
2021 (Year 4)	50
2022 (Year 5)	47

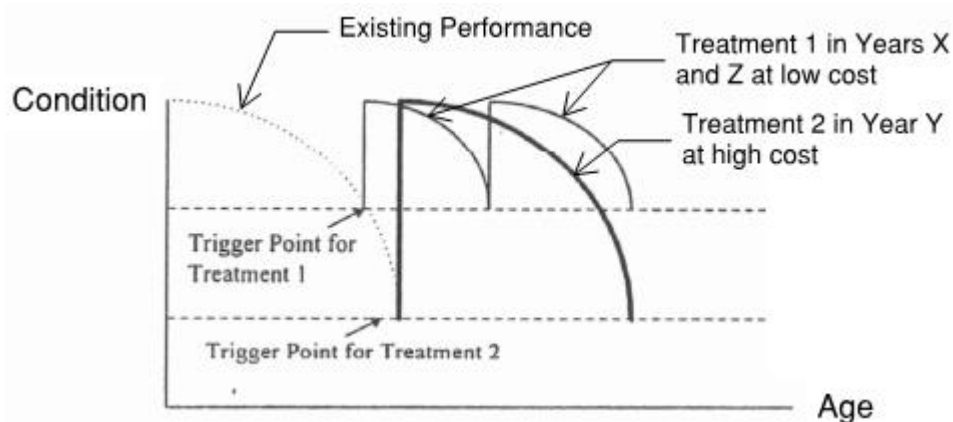


**Figure 5-2 Area-Weighted PCI for Each Branch (No Budget, Zero Maintenance)**

## 5.2 Maintenance and Rehabilitation Options

### 5.2.1 Timing of Treatment

The most economic approach for pavement maintenance is to keep good pavements in good repair. As illustrated on **Figure 5-3**, it is more cost effective to apply a low-cost Treatment 1 when a trigger point (critical PCI value) for Treatment 1 is reached. In other words, treatment 1 can be applied multiple times throughout the pavement life once the critical PCI value is reached. If missing the right timing of treatment, costly Treatment 2 will need to be applied to restore the pavement condition and to extend the pavement life. As shown on **Figure 5-3**, both options (Treatments 1 and 2) would extend the same amount of the pavement life. The higher cost Treatment 2 does not warrant a longer pavement life as the rate of deterioration increases significantly after the PCI drops below the critical value.



**Figure 5-3 Timing of Treatment**

## 5.2.2 Critical PCI Value, Maintenance Options and Cost Estimates

For the Brown Field Municipal Airport, the critical PCI is set at 70. Once the airfield pavement falls within 5 points of the critical PCI (i.e. right above and below the threshold of good condition), those pavements will have a high priority to be maintained to stay within good condition. Applicable preventative treatments and unit costs are shown in **Table 5-2**.

**Table 5-2 Preventative/Stopgap Maintenance Options and Costs**

Treatment Type Name	Unit Cost <sup>1, 2</sup>	
Crack Sealing – AC	\$1.29/Ft	
Crack Sealing – PCC	\$1.29/Ft	
Grinding (Localized)	\$3.86/Ft	
Joint Seal (Localized)	\$2.25/Ft	
Patching – AC Deep	\$15.43/SqFt	\$138.87/SqYd
Patching – AC Shallow	\$12.86/SqFt	\$115.74/SqYd
Patching – PCC Full Depth	\$19.29/SqFt	\$173.61/SqYd
Patching – PCC Partial Depth	\$64.29/SqFt	\$578.61/SqYd
Slab Replacement – PCC	\$19.29/SqFt	\$173.61/SqYd
Surface Treatment	\$0.34/SqFt	\$3.06/SqYd

Note 1: The unit costs were collected from bid tabs from nearby Airports in the FAA Western-Pacific Region and were escalated per Turner Building Cost Index – 2017 Third Quarter Forecast.

Note 2: The unit cost only reflects pavement related items. Non-pavement related costs such as electrical, drainage and geotechnical investigation etc. are EXCLUDED. The unit cost also EXCLUDES overhead, mobilization, engineering and construction observation fees, as well as contingencies.

The schedule and location to receive preventative treatments for Brown Field Municipal Airport are shown in **Table 5-3**.

**Table 5-3 Preventative Treatment Schedule**

Year to Begin Preventative Treatment	Branch-Section	Surface Type	2017 PCI
2018 <sup>1</sup>	R8R26L-05	Asphalt	66
2018 <sup>1</sup>	TWA-01	Concrete	66
2018 <sup>1</sup>	TWA1-01	Asphalt	67
2018 <sup>1</sup>	ATERM-01	Concrete	67
2018 <sup>1</sup>	R8L26R-01R	Concrete	69
2018	ATWB-01	Asphalt	71
2020	R8L26R-01L	Concrete	75
2020	R8L26R-01K	Concrete	76
2021	TWB-02	Asphalt	77
2021	TWC-03	Asphalt	77

Note 1: To be effective, preventative treatments must be applied at the earliest opportunity in 2018 to restore pavements that just fall below the threshold (i.e. critical PCI of 70) back to good condition.



For pavements with a PCI below 70 (i.e. the threshold of good condition), either restoration/rehabilitation and/or major reconstruction are needed in the foreseeable future. Pavements of fair (PCI = 70–55) condition can be restored to the good condition with lesser costs in comparison with pavements of poor condition (PCI = 55 or below). **Figure 5-4** illustrates the areas recommended for preventative treatment, rehabilitation and reconstruction.

The unit costs of major rehabilitation and reconstruction are shown in **Table 5-4**. The cost of major rehabilitation and reconstruction is estimated by multiplying a section's area by the unit cost listed in **Table 5-4**. These costs include pavement removal, subgrade preparation, base course construction and a pavement surface course.

**Table 5-4 Maintenance and Rehabilitation/Reconstruction Cost Based on PCI**

PCI	Cost AC <sup>1, 2</sup>	Cost PCC <sup>1, 2</sup>
0-40	\$12.86/SqFt	\$15.43/SqFt
50	\$7.07/SqFt	\$9.00/SqFt
60	\$3.86/SqFt	\$5.79/SqFt
70	\$2.89/SqFt	\$3.86/SqFt
80	\$0.96/SqFt	\$0.96/SqFt
90	\$0.64/SqFt	\$0.64/SqFt
100	\$0.00/SqFt	\$0.00/SqFt

Note 1: The estimated costs were from nearby Airports in Southern CA and were escalated per Turner Building Cost Index – 2017 Third Quarter Forecast.

Note 2: The cost only reflects pavement related items. Non-pavement related costs such as electrical, drainage and geotechnical investigation etc. are EXCLUDED. The unit cost also EXCLUDES overhead, mobilization, engineering and construction observation fees, as well as contingencies.

NOTES  
1) APPROXIMATE 230-FT FAILED RUNWAY 26L PAVEMENT DUE TO ISSUES RELATED TO WATER. BECAUSE THE LOCALIZED FAILURE IS NOT REPRESENTATIVE FOR THE ENTIRE SECTION, THE FAILED AREA WAS NOT SAMPLED FOR CONDITION ASSESSMENT AND PCI CALCULATION. THE REPAIR EXPECTS TO BE DONE IN A SEPERATE PROJECT AND IS EXCLUDED IN THE RECOMMENDED CIP.

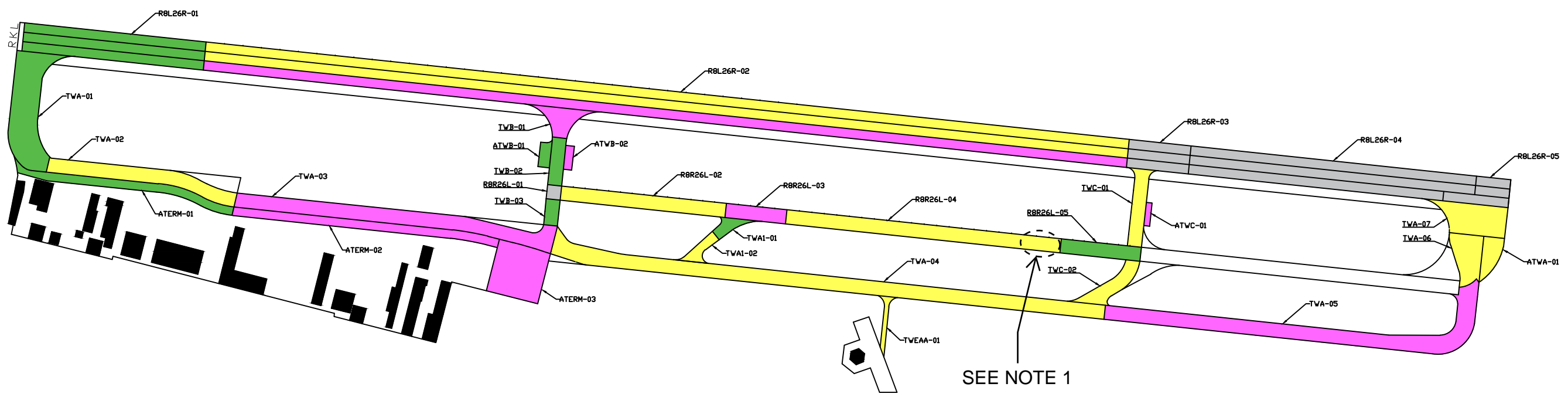


Figure 5-4 Recommended Treatments

Preparation

Rehabilitation

Reconstruction

None

N

300 0 300 600

GRAPHIC SCALE

IN FEET

BROWN FIELD MUNICIPAL AIRPORT

CITY OF SAN DIEGO, CALIFORNIA

LOCALIZED REPAIR

ATKINS

121 2017

The estimated preventative treatment cost to keep good/fair pavements (i.e. PCI greater than 65) above the threshold (i.e. PCI=70) is shown in **Table 5-5**. This estimate assumes 10% of the asphalt pavement will receive a shallow and a deep asphalt patch in the next 5 years, respectively. The cost also assumes approximately 4,000 feet crack seal and one surface treatment for the asphalt pavements. For the concrete pavement in good/fair condition (i.e. PCI greater than 65), the estimate assumes up to 3%, 2% and 2% concrete will receive a partial depth patch, a full depth patch and a slab replacement, respectively, through 2022. The estimate also assumes approximately 30,000 feet joint/crack seal in concrete pavement.

**Table 5-5 Estimated Preventative Treatment Cost (2018-2022)**

Plan Years	Annualized Preventative Treatment Cost <sup>1</sup> (Asphalt Pavement)	Annualized Preventative Treatment Cost <sup>1</sup> (Concrete Pavement)
2018-2022	\$52,000	\$173,000

Note 1: The estimate is based on the unit cost presented in **Table 5-4**. The cost only reflects pavement related items and EXCLUDES any administration, mobilization, utility work, engineering observation, annual escalation and contingencies.

Assuming an unlimited budget is available in the next 5 years, the estimated budget requirements for rehabilitation/reconstruction (i.e. pavement PCI < 70) of each section are shown in **Table 5-6**. While the cost estimates provide a useful network-level planning tool, they are not a comprehensive engineer's estimate as the cost is only pertinent to pavement construction cost. Administration cost, utility improvement (e.g. electrical, drainage etc.), construction phasing, mobilization, non-pavement related items (e.g. subsurface investigation, surveying etc.), professional engineer's fee, annual escalation and contingencies are EXCLUDED in the estimate. A detailed engineering study and the project specific cost estimates shall be developed on a case-by-case basis to ensure the most appropriate rehabilitation strategy is chosen at the time of implementation.

Per recent budgetary information provided by the Airport, it indicated that it can take time for grant application and funding approval to support planned pavement maintenance, rehabilitation and reconstruction. Stopgap treatments as shown in **Table 5-2** can be applied to maintain the Airport pavements safe and operational while application for funding to support the planned maintenance, rehabilitation and reconstruction is being approved.

**Table 5-6 Estimated Rehabilitation/Restoration and Reconstruction Costs (2018-2022),  
Unconstrained Budget**

Branch ID	Section ID	Treatment	Total Rehabilitation/ Reconstruction Cost <sup>1</sup> (2018-2022)	Annualized Rehabilitation/ Reconstruction Cost <sup>1</sup> (Over 5 years)
R8R26L	04	Restoration/Rehabilitation	\$426,000	\$1,400,000
R8R26L	02	Restoration/Rehabilitation	\$256,000	
TWEAA	01	Restoration/Rehabilitation	\$32,000	
TWA1	02	Restoration/Rehabilitation	\$48,000	
TWA	04	Restoration/Rehabilitation	\$1,646,000	
R8L26R	02L	Restoration/Rehabilitation	\$956,000	
R8L26R	02K	Restoration/Rehabilitation	\$1,751,000	
TWC	01	Restoration/Rehabilitation	\$227,000	
TWC	02	Restoration/Rehabilitation	\$202,000	
TWA	06	Restoration/Rehabilitation	\$216,000	
TWA	07	Restoration/Rehabilitation	\$321,000	
TWA	02	Restoration/Rehabilitation	\$742,000	
ATWA	01	Restoration/Rehabilitation	\$177,000	
5-year Subtotal (Restoration/Rehabilitation)			\$7,000,000	\$2,120,000
R8R26L	03	Reconstruction	\$314,000	
TWB	01	Reconstruction	\$327,000	
ATWB	02	Reconstruction	\$74,000	
TWA	05	Reconstruction	\$2,309,000	
ATWC	01	Reconstruction	\$49,000	
R8L26R	02R	Reconstruction	\$3,184,000	
TWA	03	Reconstruction	\$2,116,000	
ATERM	03	Reconstruction	\$1,227,000	
ATERM	02	Reconstruction	\$1,000,000	\$3,520,000
5-year Subtotal (Reconstruction)			\$10,600,000	
5-year Grand Total			\$17,600,000	

Note 1: The estimate is based on the unit cost presented in **Table 5-2**. The cost only reflects pavement related items and EXCLUDES any administration, mobilization, utility work, detailed engineering, structural observation, annual escalation and contingencies.

## 6.1 CIP Recommendation and Prioritization

As an unlimited budget is unlikely to be available to support all identified rehabilitation and reconstruction needs shown in **Table 5-6**, a list of the Capital Improvement Program (CIP) projects are proposed in **Table 6-1**. The prioritization is based on the following.

- The existing pavement condition presented on **Figure 3-2**.
- The operational importance presented on **Figure 6-1**. In general, runway pavements will have the highest priority to be maintained follows by the taxiway and apron pavements.
- The existing maintenance need identified by the Airport.

**Table 6-1 The Proposed 5-year CIP Program and Priority**

Priority	Plan Year	Branch-Section	Cost <sup>1</sup>
1	2018	R8L26R-02	\$5,891,000
2	2019	TWB-01	\$327,000
3	2019	TWA-03	\$2,116,000
4	2020	TWA-05	\$2,309,000
5	2020	TWA-02	\$742,000
6	2021	R8R26L-03	\$314,000
7	2021	ATERM-02	\$1,000,000
8	2022	ATERM-02	\$1,227,000

Note 1: Refer to Section 5.2.2 for unit costs based on PCIs.

The five-year CIP exhibit for the Brown Field Municipal Airport is shown on **Figure 6-2**.

The Airport can begin the grant application process at the earliest opportunity and apply stopgap treatment as discussed in Section 5.2 while waiting for the funding approval. As iterated in Section 5.2.2, the estimated CIP cost excludes any administration cost, non-pavement related improvements (e.g. utilities), professional engineering fee, construction observation fees, annual escalation and contingencies. Cost estimates presented in this report are based on November 2017 dollars.

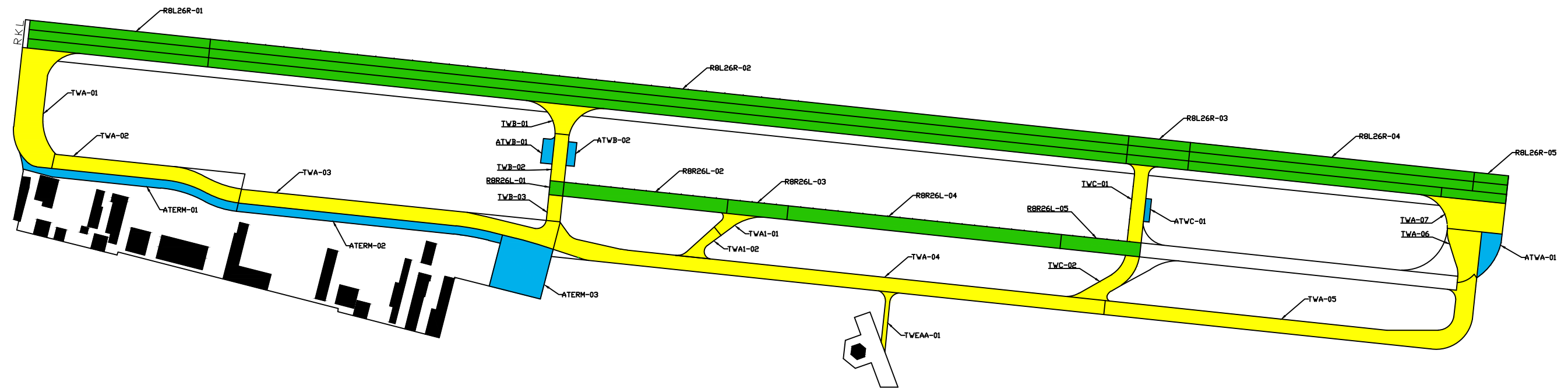
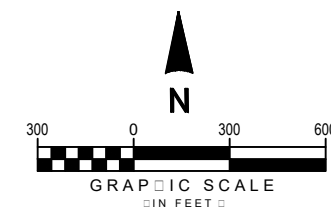


Figure 6-1 Section Ranks



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SECTION RANKS

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NOTES  
1) APPROXIMATE 230-FT FAILED RUNWAY 26L PAVEMENT DUE TO ISSUES RELATED TO WATER. BECAUSE THE LOCALIZED FAILURE IS NOT REPRESENTATIVE FOR THE ENTIRE SECTION, THE FAILED AREA WAS NOT SAMPLED FOR CONDITION ASSESSMENT AND PCI CALCULATION. THE REPAIR EXPECTS TO BE DONE IN A SEPERATE PROJECT AND IS EXCLUDED IN THE RECOMMENDED CIP.

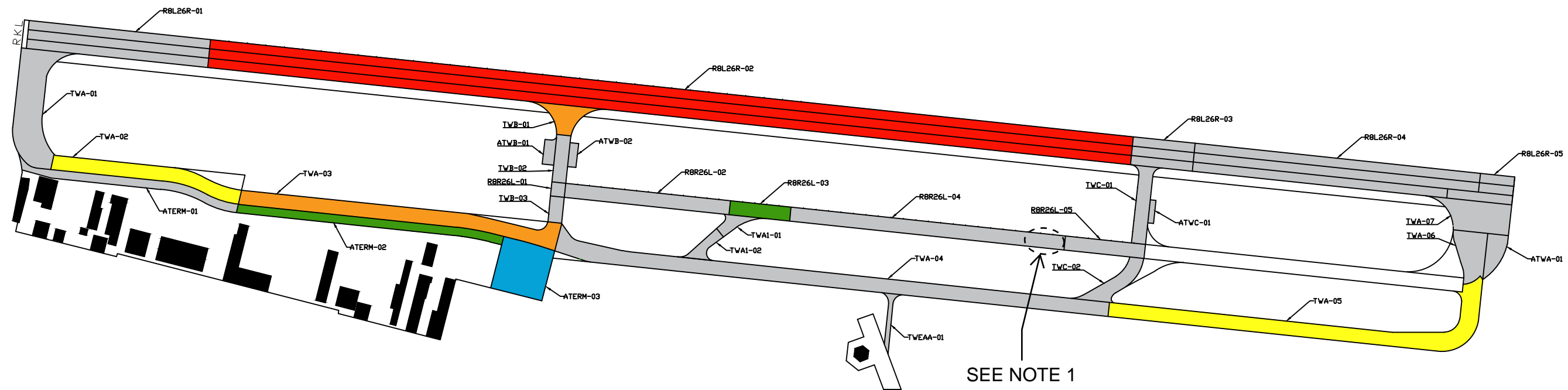
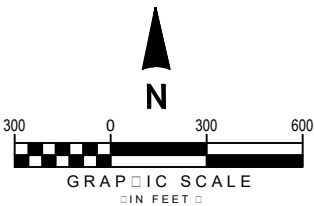


Figure 6-2 Recommended Capital Improvement Program (2018-2022)



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## Appendix A    Branch Listing Report

*Pavement Database: SDM 12-01-2017*

Network ID	Branch ID	Name	Use	Number of Sections	True Area (SqFt)	Comments
SDM	ATERM	Terminal Apron	APRON	3	196,240.00	
SDM	ATWA	Taxiway A Warm Up	APRON	1	19,622.00	
SDM	ATWB	Taxiway B Warm Up	APRON	2	13,928.00	
SDM	ATWC	Taxiway C Warm Up	APRON	1	3,827.00	
SDM	R8L26R	RWY 8L-26R	RUNWAY	15	1,202,400.00	
SDM	R8R26L	RWY 8R-26L	RUNWAY	5	238,950.00	
SDM	TWA	Taxiway A	TAXIWAY	7	827,443.00	
SDM	TWA1	Taxiway A1	TAXIWAY	2	23,577.00	
SDM	TWB	Taxiway B	TAXIWAY	3	54,855.00	
SDM	TWC	Taxiway C	TAXIWAY	2	60,749.00	
SDM	TWEAA	Taxiway EAA	TAXIWAY	1	8,364.00	

**Branch Listing Report (Summary)**  
*Pavement Database: SDM 12-01-2017*

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<b>Total Number of Networks:</b>	<b>1</b>	
<b>Total Number of Branches:</b>	<b>11</b>	
<b>Total Number of Sections:</b>	<b>42</b>	
<b>Total True Area:</b>	<b>2,649,955.00</b>	<b>(SqFt)</b>
<b>Average Branch True Area:</b>	<b>240,905.00</b>	<b>(SqFt)</b>

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## Appendix B      Branch Condition Report

Pavement Database: SDM 12-01-2017

Branch ID	Number of Sections	Sum Section Length (Ft)	Avg Section Width (Ft)	True Area (SqFt)	Use	Average PCI	Standard Deviation PCI	Weighted Average PCI
ATERM	3	2,855.00	123.33	196,240.00	APRON	51.00	11.78	49.65
ATWA	1	245.00	80.00	19,622.00	APRON	54.00	0.00	54.00
ATWB	2	260.00	52.50	13,928.00	APRON	56.50	14.50	59.01
ATWC	1	124.00	30.00	3,827.00	APRON	46.00	0.00	46.00
R8L26R	15	24,048.00	50.00	1,202,400.00	RUNWAY	81.20	17.60	64.86
R8R26L	5	3,186.00	75.00	238,950.00	RUNWAY	63.80	19.02	60.90
TWA	7	9,095.00	128.57	827,443.00	TAXIWAY	53.14	11.87	50.66
TWA1	2	380.00	60.00	23,577.00	TAXIWAY	63.50	3.50	63.28
TWB	3	695.00	75.00	54,855.00	TAXIWAY	56.67	28.76	48.73
TWC	2	805.00	75.00	60,749.00	TAXIWAY	57.50	0.50	57.53
TWEAA	1	300.00	25.00	8,364.00	TAXIWAY	62.00	0.00	62.00

*Pavement Database: SDM 12-01-2017*

Use Category	Number of Sections	Total Area (SqFt)	Arithmetic Average PCI	Standard Deviation PCI	Weighted Average PCI
APRON	7	233617.000071411	52.29	11.46	50.51
RUNWAY	20	1441350.00044059	76.85	19.48	64.20
TAXIWAY	15	974988.000298031	56.40	15.71	51.38
ALL	42	2649955.00081003	65.45	20.27	58.28



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## Appendix C      Section Condition Report

Pavement Database: SDM 12-01-2017

Branch ID	Section ID	Last Const. Date	Surface	Use	Rank	Lanes	True Area (SqFt)	Last Inspection	Age At Inspec	PCI
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NetworkId: SDM

ATERM	01	4/22/1994	PCC	APRON	T	0	51,930.00	8/24/2017	23	67
ATERM	02	4/22/1994	PCC	APRON	T	0	64,820.00	8/24/2017	23	39
ATERM	03	4/22/1994	PCC	APRON	T	0	79,490.00	8/24/2017	23	47
ATWA	01	7/1/1951	PCC	APRON	T	0	19,622.00	8/24/2017	66	54
ATWB	01	5/1/1994	AAC	APRON	T	0	8,168.00	8/24/2017	23	71
ATWB	02	1/1/1997	AAC	APRON	T	0	5,760.00	8/24/2017	20	42
ATWC	01	1/1/1997	AC	APRON	T	0	3,827.00	8/24/2017	20	46
R8L26R	01K	7/1/1951	PCC	RUNWAY	P	0	48,750.00	8/24/2017	66	76
R8L26R	01L	7/1/1951	PCC	RUNWAY	P	0	48,750.00	8/24/2017	66	75
R8L26R	01R	7/1/1951	PCC	RUNWAY	P	0	48,750.00	8/24/2017	66	69
R8L26R	02K	1/1/1997	APC	RUNWAY	P	0	247,600.00	8/24/2017	20	53
R8L26R	02L	1/1/1997	APC	RUNWAY	P	0	247,600.00	8/24/2017	20	61
R8L26R	02R	1/1/1997	APC	RUNWAY	P	0	247,600.00	8/24/2017	20	39
R8L26R	03K	7/27/2016	APC	RUNWAY	P	0	18,750.00	8/24/2017	1	94
R8L26R	03L	7/27/2016	APC	RUNWAY	P	0	18,750.00	8/24/2017	1	94
R8L26R	03R	7/27/2016	APC	RUNWAY	P	0	18,750.00	8/24/2017	1	94
R8L26R	04K	7/27/2016	AC	RUNWAY	P	0	76,500.00	8/24/2017	1	94
R8L26R	04L	7/27/2016	AC	RUNWAY	P	0	76,500.00	8/24/2017	1	93
R8L26R	04R	7/27/2016	AC	RUNWAY	P	0	68,250.00	8/24/2017	1	94
R8L26R	05K	7/27/2016	AC	RUNWAY	P	0	9,200.00	8/24/2017	1	94
R8L26R	05L	7/27/2016	AC	RUNWAY	P	0	9,200.00	8/24/2017	1	94
R8L26R	05R	7/27/2016	AC	RUNWAY	P	0	17,450.00	8/24/2017	1	94
R8R26L	01	6/1/2009	AAC	RUNWAY	P	0	5,625.00	8/24/2017	8	94
R8R26L	02	7/1/1951	AAC	RUNWAY	P	0	66,300.00	8/24/2017	66	62
R8R26L	03	7/1/1951	AAC	RUNWAY	P	0	24,375.00	8/24/2017	66	34
R8R26L	04	6/1/2009	AAC	RUNWAY	P	0	110,400.00	8/24/2017	8	63
R8R26L	05	7/1/1951	AAC	RUNWAY	P	0	32,250.00	8/24/2017	66	66
TWA	01	7/1/1951	PCC	TAXIWAY	S	0	102,714.00	8/24/2017	66	66
TWA	02	4/22/1994	PCC	TAXIWAY	S	0	82,490.00	8/24/2017	23	52
TWA	03	4/22/1994	PCC	TAXIWAY	S	0	137,159.00	8/24/2017	23	31
TWA	04	4/22/1994	AC	TAXIWAY	S	0	232,810.00	8/24/2017	23	58
TWA	05	1/1/1997	AC	TAXIWAY	S	0	179,560.00	8/24/2017	20	41
TWA	06	7/1/1951	PCC	TAXIWAY	S	0	37,298.00	8/24/2017	66	63
TWA	07	7/1/1951	PCC	TAXIWAY	S	0	55,412.00	8/24/2017	66	61
TWA1	01	4/22/1994	AC	TAXIWAY	S	0	11,060.00	8/24/2017	23	67
TWA1	02	4/22/1994	AC	TAXIWAY	S	0	12,517.00	8/24/2017	23	60
TWB	01	1/1/1997	AAC	TAXIWAY	S	0	25,425.00	8/24/2017	20	16
TWB	02	6/1/2009	AAC	TAXIWAY	S	0	19,100.00	8/24/2017	8	77
TWB	03	6/1/2009	AAC	TAXIWAY	S	0	10,330.00	8/24/2017	8	77
TWC	01	1/1/1997	APC	TAXIWAY	S	0	32,132.00	8/24/2017	20	58
TWC	02	4/22/1994	APC	TAXIWAY	S	0	28,617.00	8/24/2017	23	57
TWEAA	01	4/22/1994	AC	TAXIWAY	S	0	8,364.00	8/24/2017	23	62

*Pavement Database: SDM 12-01-2017*

Age Category	Average Age at Inspection	Total Area (SqFt)	Number of Sections	Arithmetic Average PCI	Standard Deviation PCI	Weighted Average PCI
00-02	1	313,350.00	9	93.89	0.31	93.76
06-10	8	145,455.00	4	77.75	10.99	67.03
16-20	20	989,504.00	8	44.50	13.18	48.44
21-25	23	717,425.00	11	55.55	11.80	50.19
Over 50	66	484,221.00	10	62.60	11.37	64.77
ALL	27	2,649,955.00	42	65.45	20.27	58.28

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## Appendix D      Pavement Inspection Report

# Re-Inspection Report

SDM 12-01-2017

Generated Date 11/14/2017

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<b>Network:</b>	SDM			<b>Name:</b>	SDM				
<b>Branch:</b>	ATERM		<b>Name:</b>	Terminal Apron		<b>Use:</b>	APRON	<b>Area:</b>	196,240 SqFt
<b>Section:</b>	01	of 3		<b>From:</b>	MAP		<b>To:</b>	MAP	<b>Last Const.:</b> 4/22/1994
<b>Surface:</b>	PCC	<b>Family:</b>	DEFAULT		<b>Zone:</b>			<b>Category:</b>	<b>Rank:</b> T
<b>Area:</b>	51,930 SqFt		<b>Length:</b>	1,150 Ft		<b>Width:</b>	45 Ft		
<b>Slabs:</b>	277	<b>Slab Length:</b>	15 Ft		<b>Slab Width:</b>	12 Ft		<b>Joint Length:</b>	6,395 Ft
<b>Shoulder:</b>	<b>Street Type:</b>		<b>Grade:</b>		0		<b>Lanes:</b>	0	
<b>Section Comments:</b>									

**Last Insp. Date:** 8/24/2017 **TotalSamples:** 13 **Surveyed:** 3

**Conditions:** PCI: 67

**Inspection Comments:**

**Sample Number:** 004 **Type:** R **Area:** 18.00 Slabs **PCI:** 79

## Re-Inspection Report

65	JT SEAL DMG	M	18.00 Slabs	Comments:
63	LINEAR CR	L	1.00 Slabs	Comments:
74	JOINT SPALL	M	1.00 Slabs	Comments:
75	CORNER SPALL	M	1.00 Slabs	Comments:

**Sample Number:** 008 **Type:** R **Area:** 18.00 Slabs **PCI:** 48

## Re-Inspection Report

65	JT SEAL DMG	H	18.00 Slabs	Comments:
74	JOINT SPALL	H	1.00 Slabs	Comments:
71	FAULTING	H	4.00 Slabs	Comments:

**Sample Number:** 012 **Type:** R **Area:** 22.00 Slabs **PCI:** 71

## Re-Inspection Report

65	JT SEAL DMG	H	22.00 Slabs	Comments:
63	LINEAR CR	L	5.00 Slabs	Comments:
73	SHRINKAGE CR	N	4.00 Slabs	Comments:
75	CORNER SPALL	H	1.00 Slabs	Comments:
66	SMALL PATCH	L	1.00 Slabs	Comments:

Network: SDM		Name: SDM	
Branch: ATERM	Name: Terminal Apron	Use: APRON	Area: 196,240 SqFt
Section: 02	of 3	From: MAP	To: MAP
Surface: PCC	Family: DEFAULT	Zone:	Category: Rank: T
Area: 64,820 SqFt	Length: 1,425 Ft	Width: 45 Ft	
Slabs: 346	Slab Length: 15 Ft	Slab Width: 12 Ft	Joint Length: 7,935 Ft
Shoulder:	Street Type:	Grade: 0	Lanes: 0
Section Comments:			
Last Insp. Date: 8/24/2017	TotalSamples: 16	Surveyed: 3	
Conditions: PCI: 39	Inspection Comments:		
Sample Number: 002	Type: R	Area: 20.00 Slabs	PCI: 45
Re-Inspection Report			
65	JT SEAL DMG	M	20.00 Slabs
73	SHRINKAGE CR	N	2.00 Slabs
70	SCALING	H	1.00 Slabs
63	LINEAR CR	H	1.00 Slabs
63	LINEAR CR	L	1.00 Slabs
74	JOINT SPALL	L	1.00 Slabs
72	SHAT. SLAB	L	1.00 Slabs
74	JOINT SPALL	M	1.00 Slabs
75	CORNER SPALL	M	1.00 Slabs
67	LARGE PATCH	M	2.00 Slabs
Sample Number: 010	Type: R	Area: 18.00 Slabs	PCI: 40
Re-Inspection Report			
65	JT SEAL DMG	H	18.00 Slabs
75	CORNER SPALL	H	1.00 Slabs
75	CORNER SPALL	L	2.00 Slabs
73	SHRINKAGE CR	N	3.00 Slabs
63	LINEAR CR	L	2.00 Slabs
62	CORNER BREAK	L	1.00 Slabs
62	CORNER BREAK	M	6.00 Slabs
Sample Number: 014	Type: R	Area: 20.00 Slabs	PCI: 34
Re-Inspection Report			
65	JT SEAL DMG	H	20.00 Slabs
63	LINEAR CR	L	2.00 Slabs
62	CORNER BREAK	L	2.00 Slabs
70	SCALING	L	2.00 Slabs
63	LINEAR CR	M	3.00 Slabs
74	JOINT SPALL	L	1.00 Slabs
73	SHRINKAGE CR	N	1.00 Slabs
75	CORNER SPALL	H	3.00 Slabs
75	CORNER SPALL	M	1.00 Slabs
74	JOINT SPALL	H	2.00 Slabs
71	FAULTING	M	2.00 Slabs

Network: SDM		Name: SDM	
Branch: ATERM	Name: Terminal Apron	Use: APRON	Area: 196,240 SqFt
Section: 03	of 3	From: MAP	To: MAP
Surface: PCC	Family: DEFAULT	Zone:	Category: Rank: T
Area: 79,490 SqFt	Length: 280 Ft	Width: 280 Ft	
Slabs: 418	Slab Length: 15 Ft	Slab Width: 12 Ft	Joint Length: 10,939 Ft
Shoulder:	Street Type:	Grade: 0	Lanes: 0
Section Comments:			
Last Insp. Date: 8/24/2017	TotalSamples: 20	Surveyed: 5	
Conditions: PCI: 47			
Inspection Comments:			
Sample Number: 002	Type: R	Area: 20.00 Slabs	PCI: 61
Re-Inspection Report			
65 JT SEAL DMG	H	20.00 Slabs	Comments:
62 CORNER BREAK	L	2.00 Slabs	Comments:
74 JOINT SPALL	H	1.00 Slabs	Comments:
63 LINEAR CR	M	1.00 Slabs	Comments:
75 CORNER SPALL	H	3.00 Slabs	Comments:
Sample Number: 006	Type: R	Area: 20.00 Slabs	PCI: 37
Re-Inspection Report			
65 JT SEAL DMG	H	20.00 Slabs	Comments:
67 LARGE PATCH	L	4.00 Slabs	Comments:
74 JOINT SPALL	M	3.00 Slabs	Comments:
63 LINEAR CR	L	3.00 Slabs	Comments:
75 CORNER SPALL	H	2.00 Slabs	Comments:
63 LINEAR CR	M	7.00 Slabs	Comments:
Sample Number: 010	Type: R	Area: 25.00 Slabs	PCI: 51
Re-Inspection Report			
65 JT SEAL DMG	H	25.00 Slabs	Comments:
63 LINEAR CR	L	6.00 Slabs	Comments:
70 SCALING	M	1.00 Slabs	Comments:
73 SHRINKAGE CR	N	8.00 Slabs	Comments:
63 LINEAR CR	M	1.00 Slabs	Comments:
75 CORNER SPALL	M	1.00 Slabs	Comments:
74 JOINT SPALL	M	2.00 Slabs	Comments:
67 LARGE PATCH	M	1.00 Slabs	Comments:
74 JOINT SPALL	L	2.00 Slabs	Comments:
Sample Number: 014	Type: R	Area: 25.00 Slabs	PCI: 52
Re-Inspection Report			
65 JT SEAL DMG	H	25.00 Slabs	Comments:
62 CORNER BREAK	M	1.00 Slabs	Comments:
71 FAULTING	L	1.00 Slabs	Comments:
63 LINEAR CR	M	1.00 Slabs	Comments:
75 CORNER SPALL	M	1.00 Slabs	Comments:
71 FAULTING	M	1.00 Slabs	Comments:
66 SMALL PATCH	L	5.00 Slabs	Comments:
73 SHRINKAGE CR	N	6.00 Slabs	Comments:
74 JOINT SPALL	L	1.00 Slabs	Comments:
63 LINEAR CR	L	7.00 Slabs	Comments:
Sample Number: 018	Type: R	Area: 16.00 Slabs	PCI: 26
Re-Inspection Report			
65 JT SEAL DMG	H	16.00 Slabs	Comments:
71 FAULTING	M	2.00 Slabs	Comments:
73 SHRINKAGE CR	N	3.00 Slabs	Comments:
63 LINEAR CR	M	7.00 Slabs	Comments:
63 LINEAR CR	L	4.00 Slabs	Comments:
62 CORNER BREAK	L	2.00 Slabs	Comments:
72 SHAT. SLAB	L	1.00 Slabs	Comments:
74 JOINT SPALL	H	1.00 Slabs	Comments:



74	JOINT SPALL	L	1.00	Slabs	Comments:
67	LARGE PATCH	L	2.00	Slabs	Comments:
75	CORNER SPALL	H	2.00	Slabs	Comments:

Network: SDM		Name: SDM	
Branch: ATWA	Name: Taxiway A Warm Up	Use: APRON	Area: 19,622 SqFt
Section: 01	of 1	From: MAP	To: MAP
Surface: PCC	Family: DEFAULT	Zone:	Category: Rank: T
Area: 19,622 SqFt	Length: 245 Ft	Width: 80 Ft	
Slabs: 105	Slab Length: 15 Ft	Slab Width: 12 Ft	Joint Length: 2,550 Ft
Shoulder:	Street Type:	Grade: 0	Lanes: 0
Section Comments:			
Last Insp. Date: 8/24/2017	TotalSamples: 4	Surveyed: 2	
Conditions: PCI: 54	Inspection Comments:		
Sample Number: 002	Type: R	Area: 20.00 Slabs	PCI: 51
Re-Inspection Report			
65	JT SEAL DMG	H	20.00 Slabs
66	SMALL PATCH	L	1.00 Slabs
63	LINEAR CR	L	5.00 Slabs
73	SHRINKAGE CR	N	4.00 Slabs
74	JOINT SPALL	M	1.00 Slabs
67	LARGE PATCH	L	4.00 Slabs
71	FAULTING	L	1.00 Slabs
71	FAULTING	M	3.00 Slabs
Sample Number: 004	Type: R	Area: 24.00 Slabs	PCI: 57
Re-Inspection Report			
65	JT SEAL DMG	H	24.00 Slabs
73	SHRINKAGE CR	N	4.00 Slabs
70	SCALING	L	4.00 Slabs
63	LINEAR CR	M	2.00 Slabs
75	CORNER SPALL	M	1.00 Slabs
74	JOINT SPALL	M	1.00 Slabs
75	CORNER SPALL	H	3.00 Slabs
71	FAULTING	L	3.00 Slabs

Network:		SDM		Name:		SDM				
Branch:	ATWB		Name:	Taxiway B Warm Up		Use:	APRON	Area:	13,928 SqFt	
Section:	01 of 2		From:	MAP		To:	MAP		Last Const.:	5/1/1994
Surface:	AAC		Family:	DEFAULT		Zone:			Rank:	T
Area:	8,168 SqFt		Length:	132 Ft		Width:	60 Ft			
Slabs:	Slab Length:		Ft		Slab Width:	Ft		Joint Length:	Ft	
Shoulder:	Street Type:		Grade:		0		Lanes:	0		
Section Comments:										
Last Insp. Date:	8/24/2017		TotalSamples:	2		Surveyed:	2			
Conditions:	PCI: 71									
Inspection Comments:										
Sample Number:	001		Type:	R		Area:	4140.00 SqFt		PCI:	70
Re-Inspection Report										
52	RAVELING		L	1380.00	SqFt	Comments:				
48	L & T CR		M	63.00	Ft	Comments:				
48	L & T CR		H	15.00	Ft	Comments:				
48	L & T CR		L	46.00	Ft	Comments:				
50	PATCHING		L	6.00	SqFt	Comments:				
Sample Number:	002		Type:	R		Area:	4026.00 SqFt		PCI:	73
Re-Inspection Report										
52	RAVELING		L	1342.00	SqFt	Comments:				
48	L & T CR		L	98.00	Ft	Comments:				
48	L & T CR		M	34.00	Ft	Comments:				

Network:		SDM		Name:		SDM													
Branch:		ATWB		Name:		Taxiway B Warm Up		Use:		APRON		Area:		13,928 SqFt					
Section:		02		of		2		From:		MAP		To:		MAP		Last Const.:		1/1/1997	
Surface:		AAC		Family:		DEFAULT		Zone:				Category:				Rank:		T	
Area:		5,760 SqFt		Length:		128 Ft		Width:		45 Ft									
Slabs:				Slab Length:		Ft		Slab Width:		Ft		Joint Length:		Ft					
Shoulder:				Street Type:				Grade:		0		Lanes:		0					
Section Comments:																			
Last Insp. Date:		8/24/2017		TotalSamples:		1		Surveyed:		1									
Conditions:		PCI:		42															
Inspection Comments:																			
Sample Number:		001		Type:		R		Area:		5760.00 SqFt		PCI:		42					
Re-Inspection Report																			
48		L & T CR		M		296.00 Ft		Comments:											
48		L & T CR		H		43.00 Ft		Comments:											
48		L & T CR		L		86.00 Ft		Comments:											
52		RAVELING		L		2880.00 SqFt		Comments:											
41		ALLIGATOR CR		M		126.00 SqFt		Comments:											

Network:		SDM		Name:		SDM																					
Branch:		ATWC		Name:		Taxiway C Warm Up		Use:		APRON		Area:		3,827 SqFt													
Section:		01		of		1		From:		MAP		To:		MAP		Last Const.:		1/1/1997									
Surface:		AC		Family:		DEFAULT		Zone:				Category:				Rank:		T									
Area:		3,827 SqFt		Length:		124 Ft		Width:		30 Ft																	
Slabs:				Slab Length:		Ft		Slab Width:		Ft		Joint Length:		Ft													
Shoulder:				Street Type:				Grade:		0		Lanes:		0													
Section Comments:																											
Last Insp. Date:				8/24/2017				TotalSamples:				1				Surveyed:				1							
Conditions:				PCI:				46																			
Inspection Comments:																											
Sample Number:				001				Type:		R		Area:				3827.00 SqFt				PCI:				46			
Re-Inspection Report																											
52		RAVELING		L		3827.00		SqFt		Comments:																	
50		PATCHING		L		12.00		SqFt		Comments:																	
41		ALLIGATOR CR		L		99.00		SqFt		Comments:																	
48		L & T CR		L		122.00		Ft		Comments:																	
48		L & T CR		M		155.00		Ft		Comments:																	

Network:	SDM			Name:	SDM						
Branch:	R8L26R		Name:	RWY 8L-26R		Use:	RUNWAY	Area:	1,202,400 SqFt		
Section:	01L of 15		From:	MAP			To:	MAP		Last Const.:	7/1/1951
Surface:	PCC		Family:	DEFAULT		Zone:			Category:	Rank: P	
Area:	48,750 SqFt		Length:	975 Ft		Width:	50 Ft				
Slabs:	260		Slab Length:	15 Ft		Slab Width:	12 Ft		Joint Length:	6,125 Ft	
Shoulder:			Street Type:			Grade:	0		Lanes:	0	
Section Comments:											
Last Insp. Date:	8/24/2017		TotalSamples:	13		Surveyed:	3				
Conditions:	PCI: 75										
Inspection Comments:											
Sample Number:	002		Type:	R		Area:	20.00 Slabs		PCI:	78	
Re-Inspection Report											
65	JT SEAL DMG		H	20.00 Slabs		Comments:					
75	CORNER SPALL		H	1.00 Slabs		Comments:					
75	CORNER SPALL		L	1.00 Slabs		Comments:					
74	JOINT SPALL		L	2.00 Slabs		Comments:					
Sample Number:	006		Type:	R		Area:	20.00 Slabs		PCI:	71	
Re-Inspection Report											
65	JT SEAL DMG		H	20.00 Slabs		Comments:					
67	LARGE PATCH		L	1.00 Slabs		Comments:					
67	LARGE PATCH		M	1.00 Slabs		Comments:					
74	JOINT SPALL		L	3.00 Slabs		Comments:					
74	JOINT SPALL		M	1.00 Slabs		Comments:					
Sample Number:	010		Type:	R		Area:	20.00 Slabs		PCI:	76	
Re-Inspection Report											
65	JT SEAL DMG		H	20.00 Slabs		Comments:					
74	JOINT SPALL		M	2.00 Slabs		Comments:					
74	JOINT SPALL		L	1.00 Slabs		Comments:					
75	CORNER SPALL		M	2.00 Slabs		Comments:					

Network:	SDM			Name:	SDM						
Branch:	R8L26R		Name:	RWY 8L-26R		Use:	RUNWAY	Area:	1,202,400 SqFt		
Section:	01K of 15		From:	MAP			To:	MAP		Last Const.:	7/1/1951
Surface:	PCC		Family:	DEFAULT		Zone:			Category:	Rank: P	
Area:	48,750 SqFt		Length:	975 Ft		Width:	50 Ft				
Slabs:	260		Slab Length:	15 Ft		Slab Width:	12 Ft		Joint Length:	6,125 Ft	
Shoulder:			Street Type:			Grade:	0		Lanes:	0	
Section Comments:											
Last Insp. Date:	8/24/2017		TotalSamples:	13		Surveyed:	3				
Conditions:	PCI: 76										
Inspection Comments:											
Sample Number:	003		Type:	R		Area:	20.00 Slabs		PCI:	89	
Re-Inspection Report											
74	JOINT SPALL		L	2.00 Slabs		Comments:					
74	JOINT SPALL		M	2.00 Slabs		Comments:					
Sample Number:	007		Type:	R		Area:	20.00 Slabs		PCI:	78	
Re-Inspection Report											
65	JT SEAL DMG		H	20.00 Slabs		Comments:					
66	SMALL PATCH		L	1.00 Slabs		Comments:					
74	JOINT SPALL		M	2.00 Slabs		Comments:					
75	CORNER SPALL		L	1.00 Slabs		Comments:					
74	JOINT SPALL		L	1.00 Slabs		Comments:					
Sample Number:	011		Type:	R		Area:	20.00 Slabs		PCI:	61	
Re-Inspection Report											
65	JT SEAL DMG		H	20.00 Slabs		Comments:					
63	LINEAR CR		M	2.00 Slabs		Comments:					
74	JOINT SPALL		L	1.00 Slabs		Comments:					
74	JOINT SPALL		H	1.00 Slabs		Comments:					
74	JOINT SPALL		M	1.00 Slabs		Comments:					
66	SMALL PATCH		L	5.00 Slabs		Comments:					



Network:	SDM			Name:	SDM					
Branch:	R8L26R		Name:	RWY 8L-26R		Use:	RUNWAY	Area:	1,202,400 SqFt	
Section:	01R		of	15	From:	MAP		To:	MAP	
Surface:	PCC		Family:	DEFAULT		Zone:			Category:	Rank: P
Area:	48,750 SqFt		Length:	975 Ft		Width:	50 Ft			
Slabs:	260		Slab Length:	15 Ft		Slab Width:	12 Ft		Joint Length:	6,125 Ft
Shoulder:			Street Type:			Grade:	0		Lanes:	0
Section Comments:										
Last Insp. Date:	8/24/2017			TotalSamples:	13		Surveyed:	3		
Conditions:	PCI: 69									
Inspection Comments:										
Sample Number:	004		Type:	R		Area:	20.00 Slabs		PCI:	72
Re-Inspection Report										
65	JT SEAL DMG		H	20.00	Slabs	Comments:				
74	JOINT SPALL		H	1.00	Slabs	Comments:				
75	CORNER SPALL		L	1.00	Slabs	Comments:				
75	CORNER SPALL		H	2.00	Slabs	Comments:				
74	JOINT SPALL		L	1.00	Slabs	Comments:				
Sample Number:	008		Type:	R		Area:	20.00 Slabs		PCI:	63
Re-Inspection Report										
65	JT SEAL DMG		H	20.00	Slabs	Comments:				
74	JOINT SPALL		H	2.00	Slabs	Comments:				
74	JOINT SPALL		M	3.00	Slabs	Comments:				
74	JOINT SPALL		L	1.00	Slabs	Comments:				
66	SMALL PATCH		L	1.00	Slabs	Comments:				
66	SMALL PATCH		M	1.00	Slabs	Comments:				
Sample Number:	012		Type:	R		Area:	20.00 Slabs		PCI:	72
Re-Inspection Report										
65	JT SEAL DMG		H	20.00	Slabs	Comments:				
75	CORNER SPALL		H	1.00	Slabs	Comments:				
74	JOINT SPALL		M	2.00	Slabs	Comments:				
75	CORNER SPALL		M	1.00	Slabs	Comments:				
74	JOINT SPALL		L	1.00	Slabs	Comments:				

Network:	SDM			Name:	SDM						
Branch:	R8L26R		Name:	RWY 8L-26R		Use:	RUNWAY	Area:	1,202,400 SqFt		
Section:	02L of 15		From:	MAP			To:	MAP		Last Const.:	1/1/1997
Surface:	APC		Family:	DEFAULT		Zone:			Category:	Rank: P	
Area:	247,600 SqFt		Length:	4,952 Ft		Width:	50 Ft				
Slabs:	Slab Length:		Ft		Slab Width:	Ft		Joint Length:	Ft		
Shoulder:	Street Type:				Grade:	0		Lanes:	0		
Section Comments:											
Last Insp. Date:	8/24/2017		TotalSamples:	50		Surveyed:	5				
Conditions:	PCI: 61										
Inspection Comments:											
Sample Number:	001		Type:	R		Area:	4950.00 SqFt		PCI:	72	
Re-Inspection Report											
52	RAVELING		L	2400.00 SqFt		Comments:					
47	JT REF. CR		L	130.00 Ft		Comments:					
48	L & T CR		L	10.00 Ft		Comments:					
Sample Number:	011		Type:	R		Area:	4950.00 SqFt		PCI:	55	
Re-Inspection Report											
52	RAVELING		L	4950.00 SqFt		Comments:					
47	JT REF. CR		H	10.00 Ft		Comments:					
48	L & T CR		L	58.00 Ft		Comments:					
47	JT REF. CR		M	117.00 Ft		Comments:					
47	JT REF. CR		L	232.00 Ft		Comments:					
Sample Number:	021		Type:	R		Area:	4950.00 SqFt		PCI:	61	
Re-Inspection Report											
52	RAVELING		L	4950.00 SqFt		Comments:					
47	JT REF. CR		H	8.00 Ft		Comments:					
47	JT REF. CR		L	239.00 Ft		Comments:					
47	JT REF. CR		M	81.00 Ft		Comments:					
Sample Number:	031		Type:	R		Area:	4950.00 SqFt		PCI:	54	
Re-Inspection Report											
52	RAVELING		L	4950.00 SqFt		Comments:					
48	L & T CR		L	63.00 Ft		Comments:					
43	BLOCK CR		M	105.00 SqFt		Comments:					
47	JT REF. CR		L	247.00 Ft		Comments:					
47	JT REF. CR		M	78.00 Ft		Comments:					
Sample Number:	041		Type:	R		Area:	4950.00 SqFt		PCI:	64	
Re-Inspection Report											
52	RAVELING		L	4950.00 SqFt		Comments:					
47	JT REF. CR		L	195.00 Ft		Comments:					
47	JT REF. CR		M	80.00 Ft		Comments:					

Network:		SDM		Name:		SDM				
Branch:	R8L26R		Name:	RWY 8L-26R		Use:	RUNWAY	Area:	1,202,400 SqFt	
Section:	02K of 15		From:	MAP		To:	MAP		Last Const.:	1/1/1997
Surface:	APC		Family:	DEFAULT		Zone:			Rank:	P
Area:	247,600 SqFt		Length:	4,952 Ft		Width:	50 Ft			
Slabs:	Slab Length:		Ft		Slab Width:	Ft		Joint Length:	Ft	
Shoulder:	Street Type:		Grade:		0		Lanes:	0		
Section Comments:										
Last Insp. Date:	8/24/2017		TotalSamples:	50		Surveyed:	5			
Conditions:	PCI: 53									
Inspection Comments:										
Sample Number:	002		Type:	R		Area:	4950.00 SqFt		PCI:	60
Re-Inspection Report										
52	RAVELING		L	4950.00 SqFt		Comments:				
47	JT REF. CR		M	24.00 Ft		Comments:				
48	L & T CR		M	22.00 Ft		Comments:				
47	JT REF. CR		L	140.00 Ft		Comments:				
Sample Number:	012		Type:	R		Area:	4950.00 SqFt		PCI:	54
Re-Inspection Report										
41	ALLIGATOR CR		L	9.00 SqFt		Comments:				
52	RAVELING		L	4950.00 SqFt		Comments:				
48	L & T CR		M	15.00 Ft		Comments:				
48	L & T CR		L	27.00 Ft		Comments:				
47	JT REF. CR		L	294.00 Ft		Comments:				
47	JT REF. CR		M	25.00 Ft		Comments:				
Sample Number:	022		Type:	R		Area:	4950.00 SqFt		PCI:	66
Re-Inspection Report										
52	RAVELING		L	4950.00 SqFt		Comments:				
48	L & T CR		L	7.00 Ft		Comments:				
47	JT REF. CR		L	400.00 Ft		Comments:				
Sample Number:	032		Type:	R		Area:	4950.00 SqFt		PCI:	50
Re-Inspection Report										
52	RAVELING		L	4950.00 SqFt		Comments:				
41	ALLIGATOR CR		L	75.00 SqFt		Comments:				
43	BLOCK CR		L	144.00 SqFt		Comments:				
48	L & T CR		L	180.00 Ft		Comments:				
47	JT REF. CR		L	26.00 Ft		Comments:				
41	ALLIGATOR CR		M	14.00 SqFt		Comments:				
Sample Number:	042		Type:	R		Area:	4950.00 SqFt		PCI:	35
Re-Inspection Report										
52	RAVELING		L	4950.00 SqFt		Comments:				
41	ALLIGATOR CR		M	240.00 SqFt		Comments:				
41	ALLIGATOR CR		L	59.00 SqFt		Comments:				
48	L & T CR		L	132.00 Ft		Comments:				
47	JT REF. CR		L	160.00 Ft		Comments:				

Network: SDM		Name: SDM	
Branch: R8L26R	Name: RWY 8L-26R	Use: RUNWAY	Area: 1,202,400 SqFt
Section: 02R of 15	From: MAP	To: MAP	Last Const.: 1/1/1997
Surface: APC	Family: DEFAULT	Zone:	Category: Rank: P
Area: 247,600 SqFt	Length: 4,952 Ft	Width: 50 Ft	
Slabs:	Slab Length: Ft	Slab Width: Ft	Joint Length: Ft
Shoulder:	Street Type:	Grade: 0	Lanes: 0
Section Comments:			
Last Insp. Date: 8/24/2017	TotalSamples: 50	Surveyed: 5	
Conditions: PCI: 39			
Inspection Comments:			
Sample Number: 003	Type: R	Area: 4950.00 SqFt	PCI: 41
Re-Inspection Report			
52 RAVELING	L	4950.00 SqFt	Comments:
43 BLOCK CR	M	1485.00 SqFt	Comments:
47 JT REF. CR	L	104.00 Ft	Comments:
47 JT REF. CR	M	260.00 Ft	Comments:
Sample Number: 013	Type: R	Area: 4950.00 SqFt	PCI: 42
Re-Inspection Report			
52 RAVELING	L	4950.00 SqFt	Comments:
43 BLOCK CR	L	1485.00 SqFt	Comments:
48 L & T CR	L	73.00 Ft	Comments:
48 L & T CR	M	44.00 Ft	Comments:
47 JT REF. CR	L	75.00 Ft	Comments:
47 JT REF. CR	M	224.00 Ft	Comments:
Sample Number: 023	Type: R	Area: 4950.00 SqFt	PCI: 41
Re-Inspection Report			
52 RAVELING	L	4950.00 SqFt	Comments:
43 BLOCK CR	L	2300.00 SqFt	Comments:
48 L & T CR	H	10.00 Ft	Comments:
48 L & T CR	M	36.00 Ft	Comments:
41 ALLIGATOR CR	L	130.00 SqFt	Comments:
Sample Number: 033	Type: R	Area: 4950.00 SqFt	PCI: 34
Re-Inspection Report			
52 RAVELING	L	4950.00 SqFt	Comments:
43 BLOCK CR	M	1188.00 SqFt	Comments:
48 L & T CR	L	52.00 Ft	Comments:
48 L & T CR	M	17.00 Ft	Comments:
41 ALLIGATOR CR	L	40.00 SqFt	Comments:
47 JT REF. CR	M	380.00 Ft	Comments:
Sample Number: 043	Type: R	Area: 4950.00 SqFt	PCI: 37
Re-Inspection Report			
52 RAVELING	L	4950.00 SqFt	Comments:
48 L & T CR	L	10.00 Ft	Comments:
43 BLOCK CR	M	1485.00 SqFt	Comments:
47 JT REF. CR	L	380.00 Ft	Comments:
41 ALLIGATOR CR	M	72.00 SqFt	Comments:

Network:	SDM			Name:	SDM						
Branch:	R8L26R		Name:	RWY 8L-26R		Use:	RUNWAY	Area:	1,202,400 SqFt		
Section:	03L of 15		From:	MAP			To:	MAP		Last Const.:	7/27/2016
Surface:	APC		Family:	DEFAULT		Zone:			Category:	Rank: P	
Area:	18,750 SqFt		Length:	375 Ft		Width:	50 Ft				
Slabs:			Slab Length:	Ft		Slab Width:	Ft		Joint Length:	Ft	
Shoulder:			Street Type:			Grade:	0		Lanes:	0	
Section Comments:											
Last Insp. Date:	8/24/2017		TotalSamples:	4		Surveyed:	2				
Conditions:	PCI: 94										
Inspection Comments:											
Sample Number:	001		Type:	R		Area:	4150.00 SqFt		PCI:	94	
Re-Inspection Report											
57	WEATHERING		L	4150.00 SqFt		Comments:					
Sample Number:	003		Type:	R		Area:	4150.00 SqFt		PCI:	94	
Re-Inspection Report											
57	WEATHERING		L	4150.00 SqFt		Comments:					

Network:	SDM			Name:	SDM					
Branch:	R8L26R		Name:	RWY 8L-26R		Use:	RUNWAY	Area:	1,202,400 SqFt	
Section:	03K of 15		From:	MAP		To:	MAP		Last Const.: 7/27/2016	
Surface:	APC		Family:	DEFAULT		Zone:			Rank: P	
Area:	18,750 SqFt		Length:	375 Ft		Width:	50 Ft			
Slabs:			Slab Length:	Ft		Slab Width:	Ft		Joint Length:	Ft
Shoulder:			Street Type:			Grade:	0		Lanes:	0
Section Comments:										
Last Insp. Date:	8/24/2017		TotalSamples:	4		Surveyed:	2			
Conditions:	PCI: 94									
Inspection Comments:										
Sample Number:	001		Type:	R		Area:	4150.00 SqFt		PCI: 94	
Re-Inspection Report										
57	WEATHERING		L	4150.00 SqFt		Comments:				
Sample Number:	003		Type:	R		Area:	4150.00 SqFt		PCI: 94	
Re-Inspection Report										
57	WEATHERING		L	4150.00 SqFt		Comments:				

Network:	SDM			Name:	SDM						
Branch:	R8L26R		Name:	RWY 8L-26R		Use:	RUNWAY	Area:	1,202,400 SqFt		
Section:	03R of 15		From:	MAP			To:	MAP		Last Const.:	7/27/2016
Surface:	APC		Family:	DEFAULT		Zone:	Category:		Rank: P		
Area:	18,750 SqFt		Length:	375 Ft		Width:	50 Ft				
Slabs:	Slab Length:		Ft		Slab Width:		Ft		Joint Length:		Ft
Shoulder:	Street Type:		Grade:		0		Lanes:		0		
Section Comments:											
Last Insp. Date:	8/24/2017		TotalSamples:	4		Surveyed:		2			
Conditions:	PCI: 94										
Inspection Comments:											
Sample Number:	002		Type:	R		Area:	4150.00 SqFt		PCI: 94		
Re-Inspection Report											
57	WEATHERING		L	4150.00 SqFt		Comments:					
Sample Number:	004		Type:	R		Area:	4150.00 SqFt		PCI: 94		
Re-Inspection Report											
57	WEATHERING		L	4150.00 SqFt		Comments:					

Network:	SDM			Name:	SDM						
Branch:	R8L26R		Name:	RWY 8L-26R		Use:	RUNWAY		Area:	1,202,400 SqFt	
Section:	04L of 15		From:	MAP			To:	MAP		Last Const.:	7/27/2016
Surface:	AC		Family:	DEFAULT		Zone:			Category:	Rank: P	
Area:	76,500 SqFt		Length:	1,530 Ft		Width:	50 Ft				
Slabs:			Slab Length:	Ft		Slab Width:	Ft		Joint Length:	Ft	
Shoulder:			Street Type:			Grade:	0		Lanes:	0	
Section Comments:											
Last Insp. Date:	8/24/2017		TotalSamples:	16		Surveyed:	4				
Conditions:	PCI: 93										
Inspection Comments:											
Sample Number:	001		Type:	R		Area:	4800.00 SqFt		PCI:	94	
Re-Inspection Report											
57	WEATHERING		L	4800.00 SqFt		Comments:					
Sample Number:	005		Type:	R		Area:	4800.00 SqFt		PCI:	94	
Re-Inspection Report											
57	WEATHERING		L	4800.00 SqFt		Comments:					
Sample Number:	009		Type:	R		Area:	4800.00 SqFt		PCI:	92	
Re-Inspection Report											
57	WEATHERING		L	4800.00 SqFt		Comments:					
48	L & T CR		L	2.00 Ft		Comments:					
Sample Number:	013		Type:	R		Area:	4800.00 SqFt		PCI:	94	
Re-Inspection Report											
57	WEATHERING		L	4800.00 SqFt		Comments:					



Network:	SDM			Name:	SDM						
Branch:	R8L26R		Name:	RWY 8L-26R		Use:	RUNWAY		Area:	1,202,400 SqFt	
Section:	04K of 15		From:	MAP			To:	MAP		Last Const.:	7/27/2016
Surface:	AC		Family:	DEFAULT		Zone:			Category:	Rank: P	
Area:	76,500 SqFt		Length:	1,530 Ft		Width:	50 Ft				
Slabs:	Slab Length:		Ft		Slab Width:	Ft		Joint Length:	Ft		
Shoulder:	Street Type:				Grade:	0		Lanes:	0		
Section Comments:											
Last Insp. Date:	8/24/2017		TotalSamples:	16		Surveyed:	4				
Conditions:	PCI: 94										
Inspection Comments:											
Sample Number:	002		Type:	R		Area:	4800.00 SqFt		PCI:	94	
Re-Inspection Report											
57	WEATHERING		L	4800.00 SqFt		Comments:					
Sample Number:	006		Type:	R		Area:	4800.00 SqFt		PCI:	94	
Re-Inspection Report											
57	WEATHERING		L	4800.00 SqFt		Comments:					
Sample Number:	010		Type:	R		Area:	4800.00 SqFt		PCI:	94	
Re-Inspection Report											
57	WEATHERING		L	4800.00 SqFt		Comments:					
Sample Number:	014		Type:	R		Area:	4800.00 SqFt		PCI:	94	
Re-Inspection Report											
57	WEATHERING		L	4800.00 SqFt		Comments:					

Network:	SDM				Name:	SDM					
Branch:	R8L26R		Name:	RWY 8L-26R		Use:	RUNWAY		Area:	1,202,400 SqFt	
Section:	04R		of	15		From:	MAP		To:	MAP	
Surface:	AC		Family:	DEFAULT		Zone:			Category:	Rank: P	
Area:	68,250 SqFt		Length:	1,365 Ft		Width:	50 Ft				
Slabs:			Slab Length:	Ft		Slab Width:	Ft		Joint Length:	Ft	
Shoulder:			Street Type:			Grade:	0		Lanes:	0	
Section Comments:											
Last Insp. Date:	8/24/2017		TotalSamples:	14		Surveyed:	3				
Conditions:	PCI: 94										
Inspection Comments:											
Sample Number:	003		Type:	R		Area:	4800.00 SqFt		PCI:	93	
Re-Inspection Report											
45	DEPRESSION		L	12.00 SqFt		Comments:					
57	WEATHERING		L	4800.00 SqFt		Comments:					
Sample Number:	007		Type:	R		Area:	4800.00 SqFt		PCI:	94	
Re-Inspection Report											
57	WEATHERING		L	4800.00 SqFt		Comments:					
Sample Number:	011		Type:	R		Area:	4800.00 SqFt		PCI:	94	
Re-Inspection Report											
57	WEATHERING		L	4800.00 SqFt		Comments:					

Network:	SDM	Name:	SDM						
Branch:	R8L26R	Name:	RWY 8L-26R	Use:	RUNWAY	Area:	1,202,400 SqFt		
Section:	05L	of	15	From:	MAP	To:	MAP	Last Const.:	7/27/2016
Surface:	AC	Family:	DEFAULT	Zone:		Category:		Rank:	P
Area:	9,200 SqFt	Length:	184 Ft	Width:	50 Ft				
Slabs:		Slab Length:	Ft	Slab Width:	Ft	Joint Length:	Ft		
Shoulder:		Street Type:		Grade:	0	Lanes:	0		
Section Comments:									
Last Insp. Date:	8/24/2017	TotalSamples:	2	Surveyed:	1				
Conditions:	PCI:	94							
Inspection Comments:									
Sample Number:	001	Type:	R	Area:	4600.00 SqFt	PCI:	94		
Re-Inspection Report									
57	WEATHERING	L	4600.00 SqFt	Comments:					

Network:	SDM	Name:	SDM						
Branch:	R8L26R	Name:	RWY 8L-26R	Use:	RUNWAY	Area:	1,202,400 SqFt		
Section:	05K	of	15	From:	MAP	To:	MAP	Last Const.:	7/27/2016
Surface:	AC	Family:	DEFAULT	Zone:		Category:		Rank:	P
Area:	9,200 SqFt	Length:	184 Ft	Width:	50 Ft				
Slabs:		Slab Length:	Ft	Slab Width:	Ft	Joint Length:	Ft		
Shoulder:		Street Type:		Grade:	0	Lanes:	0		
Section Comments:									
Last Insp. Date:	8/24/2017	TotalSamples:	2	Surveyed:	1				
Conditions:	PCI:	94							
Inspection Comments:									
Sample Number:	001	Type:	R	Area:	4600.00 SqFt	PCI:	94		
Re-Inspection Report									
57	WEATHERING	L	4600.00 SqFt	Comments:					

Network:	SDM	Name:	SDM						
Branch:	R8L26R	Name:	RWY 8L-26R	Use:	RUNWAY	Area:	1,202,400 SqFt		
Section:	05R	of	15	From:	MAP	To:	MAP	Last Const.:	7/27/2016
Surface:	AC	Family:	DEFAULT	Zone:		Category:		Rank:	P
Area:	17,450 SqFt	Length:	349 Ft	Width:	50 Ft				
Slabs:		Slab Length:	Ft	Slab Width:	Ft	Joint Length:	Ft		
Shoulder:		Street Type:		Grade:	0	Lanes:	0		
Section Comments:									
Last Insp. Date:	8/24/2017	TotalSamples:	4	Surveyed:	1				
Conditions:	PCI:	94							
Inspection Comments:									
Sample Number:	002	Type:	R	Area:	4800.00 SqFt	PCI:	94		
Re-Inspection Report									
57	WEATHERING	L	4800.00 SqFt	Comments:					

Network:	SDM			Name:	SDM						
Branch:	R8R26L		Name:	RWY 8R-26L		Use:	RUNWAY	Area:	238,950 SqFt		
Section:	04 of 5		From:	MAP			To:	MAP		Last Const.:	6/1/2009
Surface:	AAC		Family:	DEFAULT		Zone:			Category:	Rank: P	
Area:	110,400 SqFt		Length:	1,472 Ft		Width:	75 Ft				
Slabs:			Slab Length:	Ft		Slab Width:	Ft		Joint Length:	Ft	
Shoulder:			Street Type:			Grade:	0		Lanes:	0	
Section Comments:											
Last Insp. Date:	8/24/2017		TotalSamples:	22		Surveyed:	4				
Conditions:	PCI: 63										
Inspection Comments:											
Sample Number:	005		Type:	R		Area:	5025.00 SqFt		PCI:	55	
Re-Inspection Report											
50	PATCHING		M	120.00 SqFt		Comments:					
45	DEPRESSION		L	170.00 SqFt		Comments:					
48	L & T CR		L	214.00 Ft		Comments:					
48	L & T CR		M	228.00 Ft		Comments:					
57	WEATHERING		M	5025.00 SqFt		Comments:					
Sample Number:	010		Type:	R		Area:	5025.00 SqFt		PCI:	66	
Re-Inspection Report											
57	WEATHERING		M	5025.00 SqFt		Comments:					
48	L & T CR		L	167.00 Ft		Comments:					
48	L & T CR		M	225.00 Ft		Comments:					
Sample Number:	015		Type:	R		Area:	5025.00 SqFt		PCI:	68	
Re-Inspection Report											
57	WEATHERING		M	5025.00 SqFt		Comments:					
48	L & T CR		L	290.00 Ft		Comments:					
48	L & T CR		M	132.00 Ft		Comments:					
Sample Number:	020		Type:	R		Area:	5025.00 SqFt		PCI:	65	
Re-Inspection Report											
57	WEATHERING		M	5025.00 SqFt		Comments:					
45	DEPRESSION		L	66.00 SqFt		Comments:					
48	L & T CR		L	280.00 Ft		Comments:					
48	L & T CR		M	118.00 Ft		Comments:					

Network:		SDM		Name:		SDM													
Branch:		R8R26L		Name:		RWY 8R-26L		Use:		RUNWAY		Area:		238,950 SqFt					
Section:		01		of		5		From:		MAP		To:		MAP		Last Const.:		6/1/2009	
Surface:		AAC		Family:		DEFAULT		Zone:				Category:				Rank:		P	
Area:		5,625 SqFt		Length:		75 Ft		Width:		75 Ft									
Slabs:				Slab Length:		Ft		Slab Width:		Ft		Joint Length:		Ft					
Shoulder:				Street Type:				Grade:		0		Lanes:		0					
Section Comments:																			
Last Insp. Date:		8/24/2017		TotalSamples:		1		Surveyed:		1									
Conditions:		PCI:		94															
Inspection Comments:																			
Sample Number:		001		Type:		R		Area:		5625.00 SqFt		PCI:		94					
Re-Inspection Report																			
48		L & T CR		L		75.00 Ft		Comments:											

Network:		SDM		Name:		SDM						
Branch:	R8R26L		Name:	RWY 8R-26L		Use:	RUNWAY	Area:	238,950 SqFt			
Section:	02		of	5		From:	MAP		To:	MAP	Last Const.:	7/1/1951
Surface:	AAC		Family:	DEFAULT		Zone:			Category:	Rank: P		
Area:	66,300 SqFt		Length:	884 Ft		Width:			75 Ft			
Slabs:			Slab Length:	Ft		Slab Width:			Ft	Joint Length:	Ft	
Shoulder:			Street Type:			Grade:	0		Lanes:	0		
Section Comments:												
Last Insp. Date:	8/24/2017		TotalSamples:	14		Surveyed:	3					
Conditions:	PCI: 62											
Inspection Comments:												
Sample Number:	002		Type:	R		Area:	4725.00 SqFt		PCI:	75		
Re-Inspection Report												
48	L & T CR		M	16.00 Ft		Comments:						
52	RAVELING		L	2360.00 SqFt		Comments:						
Sample Number:	007		Type:	R		Area:	4725.00 SqFt		PCI:	70		
Re-Inspection Report												
52	RAVELING		L	2360.00 SqFt		Comments:						
41	ALLIGATOR CR		L	26.00 SqFt		Comments:						
48	L & T CR		L	34.00 Ft		Comments:						
Sample Number:	012		Type:	R		Area:	4725.00 SqFt		PCI:	42		
Re-Inspection Report												
52	RAVELING		L	2360.00 SqFt		Comments:						
41	ALLIGATOR CR		L	42.00 SqFt		Comments:						
45	DEPRESSION		L	216.00 SqFt		Comments:						
48	L & T CR		H	62.00 Ft		Comments:						
48	L & T CR		L	23.00 Ft		Comments:						
48	L & T CR		M	34.00 Ft		Comments:						
45	DEPRESSION		M	80.00 SqFt		Comments:						



Network: SDM		Name: SDM	
Branch: R8R26L	Name: RWY 8R-26L	Use: RUNWAY	Area: 238,950 SqFt
Section: 03 of 5	From: MAP	To: MAP	Last Const.: 7/1/1951
Surface: AAC	Family: DEFAULT	Zone:	Category: Rank: P
Area: 24,375 SqFt	Length: 325 Ft	Width: 75 Ft	
Slabs:	Slab Length: Ft	Slab Width: Ft	Joint Length: Ft
Shoulder:	Street Type:	Grade: 0	Lanes: 0
Section Comments:			
Last Insp. Date: 8/24/2017		TotalSamples: 5	Surveyed: 2
Conditions: PCI: 34			
Inspection Comments:			
Sample Number: 002	Type: R	Area: 4875.00 SqFt	PCI: 34
Re-Inspection Report			
52	RAVELING	L	2438.00 SqFt Comments:
56	SWELLING	L	308.00 SqFt Comments:
45	DEPRESSION	L	668.00 SqFt Comments:
48	L & T CR	H	23.00 Ft Comments:
48	L & T CR	L	8.00 Ft Comments:
43	BLOCK CR	L	536.00 SqFt Comments:
43	BLOCK CR	M	1340.00 SqFt Comments:
48	L & T CR	M	135.00 Ft Comments:
Sample Number: 004	Type: R	Area: 4875.00 SqFt	PCI: 35
Re-Inspection Report			
52	RAVELING	L	2438.00 SqFt Comments:
43	BLOCK CR	M	2925.00 SqFt Comments:
56	SWELLING	L	24.00 SqFt Comments:
48	L & T CR	L	35.00 Ft Comments:
45	DEPRESSION	L	85.00 SqFt Comments:
56	SWELLING	M	364.00 SqFt Comments:
48	L & T CR	M	102.00 Ft Comments:

Network:		SDM		Name:		SDM						
Branch:	R8R26L		Name:	RWY 8R-26L		Use:	RUNWAY	Area:	238,950 SqFt			
Section:	05		of	5		From:	MAP		To:	MAP	Last Const.:	7/1/1951
Surface:	AAC		Family:	DEFAULT		Zone:			Category:	Rank: P		
Area:	32,250 SqFt		Length:	430 Ft		Width:	75 Ft					
Slabs:			Slab Length:	Ft		Slab Width:	Ft		Joint Length:	Ft		
Shoulder:			Street Type:			Grade:	0		Lanes:	0		
Section Comments:												
Last Insp. Date:		8/24/2017		TotalSamples:	7		Surveyed:		3			
Conditions:		PCI: 66										
Inspection Comments:												
Sample Number:		002		Type:	R		Area:	4575.00 SqFt		PCI: 69		
Re-Inspection Report												
52	RAVELING		L	4575.00	SqFt	Comments:						
48	L & T CR		L	8.00	Ft	Comments:						
48	L & T CR		M	8.00	Ft	Comments:						
Sample Number:		004		Type:	R		Area:	4575.00 SqFt		PCI: 74		
Re-Inspection Report												
52	RAVELING		L	4575.00	SqFt	Comments:						
Sample Number:		006		Type:	R		Area:	4575.00 SqFt		PCI: 55		
Re-Inspection Report												
52	RAVELING		L	4575.00	SqFt	Comments:						
41	ALLIGATOR CR		L	18.00	SqFt	Comments:						
47	JT REF. CR		M	85.00	Ft	Comments:						
47	JT REF. CR		L	62.00	Ft	Comments:						
48	L & T CR		L	50.00	Ft	Comments:						

Network:	SDM			Name:	SDM						
Branch:	TWA		Name:	Taxiway A		Use:	TAXIWAY		Area:	827,443 SqFt	
Section:	01 of 7		From:	MAP			To:	MAP		Last Const.:	7/1/1951
Surface:	PCC		Family:	DEFAULT		Zone:				Category:	Rank: S
Area:	102,714 SqFt		Length:	675 Ft		Width:	150 Ft				
Slabs:	548		Slab Length:	15 Ft		Slab Width:	12 Ft		Joint Length:	14,025 Ft	
Shoulder:			Street Type:			Grade:	0		Lanes:	0	
Section Comments:											
Last Insp. Date:	8/24/2017		TotalSamples:	28		Surveyed:	4				
Conditions:	PCI: 66										
Inspection Comments:											
Sample Number:	002		Type:	R		Area:	20.00 Slabs		PCI:	54	
Re-Inspection Report											
65	JT SEAL DMG		H	20.00 Slabs		Comments:					
73	SHRINKAGE CR		N	2.00 Slabs		Comments:					
75	CORNER SPALL		M	1.00 Slabs		Comments:					
74	JOINT SPALL		M	2.00 Slabs		Comments:					
62	CORNER BREAK		L	1.00 Slabs		Comments:					
63	LINEAR CR		L	1.00 Slabs		Comments:					
74	JOINT SPALL		M	2.00 Slabs		Comments:					
74	JOINT SPALL		H	2.00 Slabs		Comments:					
Sample Number:	011		Type:	R		Area:	24.00 Slabs		PCI:	88	
Re-Inspection Report											
74	JOINT SPALL		L	4.00 Slabs		Comments:					
65	JT SEAL DMG		M	24.00 Slabs		Comments:					
Sample Number:	022		Type:	R		Area:	28.00 Slabs		PCI:	60	
Re-Inspection Report											
65	JT SEAL DMG		H	28.00 Slabs		Comments:					
71	FAULTING		L	2.00 Slabs		Comments:					
75	CORNER SPALL		M	2.00 Slabs		Comments:					
74	JOINT SPALL		M	1.00 Slabs		Comments:					
74	JOINT SPALL		H	3.00 Slabs		Comments:					
Sample Number:	025		Type:	R		Area:	18.00 Slabs		PCI:	58	
Re-Inspection Report											
65	JT SEAL DMG		H	18.00 Slabs		Comments:					
74	JOINT SPALL		H	2.00 Slabs		Comments:					
63	LINEAR CR		L	1.00 Slabs		Comments:					
71	FAULTING		H	1.00 Slabs		Comments:					

Network:		SDM		Name:		SDM								
Branch:	TWA		Name:	Taxiway A		Use:	TAXIWAY	Area:	827,443 SqFt					
Section:	02		of	7		From:	MAP		To:	MAP		Last Const.:	4/22/1994	
Surface:	PCC		Family:	DEFAULT		Zone:			Category:			Rank:	S	
Area:	82,490 SqFt		Length:	1,030 Ft		Width:	75 Ft							
Slabs:	440		Slab Length:	15 Ft		Slab Width:	12 Ft		Joint Length:	10,225 Ft				
Shoulder:			Street Type:			Grade:	0		Lanes:	0				
Section Comments:														
Last Insp. Date:	8/24/2017			TotalSamples:	17		Surveyed:	4						
Conditions:	PCI:		52											
Inspection Comments:														
Sample Number:	001		Type:	R		Area:	24.00 Slabs		PCI:	63				
Re-Inspection Report														
65	JT SEAL DMG		H	24.00	Slabs	Comments:								
63	LINEAR CR		L	1.00	Slabs	Comments:								
63	LINEAR CR		M	1.00	Slabs	Comments:								
74	JOINT SPALL		L	2.00	Slabs	Comments:								
75	CORNER SPALL		L	1.00	Slabs	Comments:								
62	CORNER BREAK		L	1.00	Slabs	Comments:								
67	LARGE PATCH		L	1.00	Slabs	Comments:								
67	LARGE PATCH		M	1.00	Slabs	Comments:								
Sample Number:	006		Type:	R		Area:	24.00 Slabs		PCI:	51				
Re-Inspection Report														
65	JT SEAL DMG		H	24.00	Slabs	Comments:								
71	FAULTING		L	2.00	Slabs	Comments:								
75	CORNER SPALL		L	1.00	Slabs	Comments:								
67	LARGE PATCH		L	4.00	Slabs	Comments:								
67	LARGE PATCH		M	1.00	Slabs	Comments:								
71	FAULTING		M	5.00	Slabs	Comments:								
74	JOINT SPALL		M	1.00	Slabs	Comments:								
Sample Number:	011		Type:	R		Area:	24.00 Slabs		PCI:	53				
Re-Inspection Report														
65	JT SEAL DMG		H	24.00	Slabs	Comments:								
71	FAULTING		M	1.00	Slabs	Comments:								
75	CORNER SPALL		H	1.00	Slabs	Comments:								
74	JOINT SPALL		H	2.00	Slabs	Comments:								
74	JOINT SPALL		M	1.00	Slabs	Comments:								
71	FAULTING		M	4.00	Slabs	Comments:								
Sample Number:	016		Type:	R		Area:	24.00 Slabs		PCI:	39				
Re-Inspection Report														
65	JT SEAL DMG		H	24.00	Slabs	Comments:								
67	LARGE PATCH		M	2.00	Slabs	Comments:								
75	CORNER SPALL		M	2.00	Slabs	Comments:								
71	FAULTING		M	3.00	Slabs	Comments:								
66	SMALL PATCH		L	4.00	Slabs	Comments:								
67	LARGE PATCH		M	2.00	Slabs	Comments:								
71	FAULTING		M	7.00	Slabs	Comments:								

Network: SDM		Name: SDM	
Branch: TWA	Name: Taxiway A	Use: TAXIWAY	Area: 827,443 SqFt
Section: 03	of 7	From: MAP	To: MAP
Surface: PCC	Family: DEFAULT	Zone:	Category: Rank: S
Area: 137,159 SqFt	Length: 1,700 Ft	Width: 75 Ft	
Slabs: 732	Slab Length: 15 Ft	Slab Width: 12 Ft	Joint Length: 16,925 Ft
Shoulder:	Street Type:	Grade: 0	Lanes: 0
Section Comments:			
Last Insp. Date: 8/24/2017	TotalSamples: 29	Surveyed: 4	
Conditions: PCI: 31			
Inspection Comments:			
Sample Number: 005	Type: R	Area: 24.00 Slabs	PCI: 28
Re-Inspection Report			
63	LINEAR CR	M	8.00 Slabs
65	JT SEAL DMG	H	24.00 Slabs
74	JOINT SPALL	M	1.00 Slabs
63	LINEAR CR	L	5.00 Slabs
63	LINEAR CR	H	1.00 Slabs
62	CORNER BREAK	M	2.00 Slabs
66	SMALL PATCH	L	1.00 Slabs
72	SHAT. SLAB	L	2.00 Slabs
72	SHAT. SLAB	M	1.00 Slabs
74	JOINT SPALL	M	3.00 Slabs
63	Comments:		
65	Comments:		
74	Comments:		
63	Comments:		
63	Comments:		
62	Comments:		
66	Comments:		
72	Comments:		
72	Comments:		
74	Comments:		
63	Comments:		
Sample Number: 013	Type: R	Area: 24.00 Slabs	PCI: 30
Re-Inspection Report			
65	JT SEAL DMG	H	24.00 Slabs
72	SHAT. SLAB	M	2.00 Slabs
73	SHRINKAGE CR	N	1.00 Slabs
63	LINEAR CR	L	4.00 Slabs
74	JOINT SPALL	L	1.00 Slabs
74	JOINT SPALL	M	1.00 Slabs
74	JOINT SPALL	H	1.00 Slabs
62	CORNER BREAK	M	1.00 Slabs
63	LINEAR CR	M	7.00 Slabs
65	Comments:		
72	Comments:		
73	Comments:		
63	Comments:		
74	Comments:		
74	Comments:		
74	Comments:		
62	Comments:		
63	Comments:		
Sample Number: 021	Type: R	Area: 24.00 Slabs	PCI: 38
Re-Inspection Report			
65	JT SEAL DMG	H	24.00 Slabs
66	SMALL PATCH	L	1.00 Slabs
63	LINEAR CR	L	3.00 Slabs
62	CORNER BREAK	L	1.00 Slabs
62	CORNER BREAK	M	1.00 Slabs
66	SMALL PATCH	M	1.00 Slabs
66	SMALL PATCH	H	2.00 Slabs
62	CORNER BREAK	H	1.00 Slabs
73	SHRINKAGE CR	N	1.00 Slabs
75	CORNER SPALL	H	1.00 Slabs
63	LINEAR CR	M	6.00 Slabs
65	Comments:		
66	Comments:		
63	Comments:		
62	Comments:		
62	Comments:		
66	Comments:		
66	Comments:		
62	Comments:		
73	Comments:		
75	Comments:		
63	Comments:		
Sample Number: 028	Type: R	Area: 15.00 Slabs	PCI: 26
Re-Inspection Report			
65	JT SEAL DMG	H	15.00 Slabs
73	SHRINKAGE CR	N	4.00 Slabs
62	CORNER BREAK	L	1.00 Slabs
63	LINEAR CR	M	2.00 Slabs
62	CORNER BREAK	M	1.00 Slabs
75	CORNER SPALL	M	3.00 Slabs
63	LINEAR CR	L	3.00 Slabs
72	SHAT. SLAB	L	2.00 Slabs
72	SHAT. SLAB	M	1.00 Slabs
75	CORNER SPALL	L	2.00 Slabs
65	Comments:		
73	Comments:		
62	Comments:		
63	Comments:		
62	Comments:		
75	Comments:		
63	Comments:		
72	Comments:		
72	Comments:		
75	Comments:		

Network:	SDM			Name:	SDM						
Branch:	TWA		Name:	Taxiway A		Use:	TAXIWAY	Area:	827,443 SqFt		
Section:	06 of 7		From:	MAP			To:	MAP		Last Const.:	7/1/1951
Surface:	PCC		Family:	DEFAULT		Zone:			Category:	Rank: S	
Area:	37,298 SqFt		Length:	245 Ft		Width:	150 Ft				
Slabs:	199		Slab Length:	15 Ft		Slab Width:	12 Ft		Joint Length:	4,995 Ft	
Shoulder:			Street Type:			Grade:	0		Lanes:	0	
Section Comments:											
Last Insp. Date:	8/24/2017			TotalSamples:	9			Surveyed:	3		
Conditions:	PCI: 63										
Inspection Comments:											
Sample Number:	001		Type:	R		Area:	34.00 Slabs		PCI:	62	
Re-Inspection Report											
65	JT SEAL DMG		H	34.00	Slabs	Comments:					
75	CORNER SPALL		H	1.00	Slabs	Comments:					
75	CORNER SPALL		L	1.00	Slabs	Comments:					
67	LARGE PATCH		M	6.00	Slabs	Comments:					
67	LARGE PATCH		L	3.00	Slabs	Comments:					
74	JOINT SPALL		L	1.00	Slabs	Comments:					
Sample Number:	006		Type:	R		Area:	20.00 Slabs		PCI:	52	
Re-Inspection Report											
65	JT SEAL DMG		H	20.00	Slabs	Comments:					
71	FAULTING		M	4.00	Slabs	Comments:					
75	CORNER SPALL		M	2.00	Slabs	Comments:					
63	LINEAR CR		M	1.00	Slabs	Comments:					
74	JOINT SPALL		M	5.00	Slabs	Comments:					
Sample Number:	009		Type:	R		Area:	18.00 Slabs		PCI:	75	
Re-Inspection Report											
65	JT SEAL DMG		H	18.00	Slabs	Comments:					
71	FAULTING		L	1.00	Slabs	Comments:					
73	SHRINKAGE CR		N	4.00	Slabs	Comments:					
75	CORNER SPALL		M	2.00	Slabs	Comments:					

Network: SDM		Name: SDM	
Branch: TWA	Name: Taxiway A	Use: TAXIWAY	Area: 827,443 SqFt
Section: 07 of 7	From: MAP	To: MAP	Last Const.: 7/1/1951
Surface: PCC	Family: DEFAULT	Zone:	Category: Rank: S
Area: 55,412 SqFt	Length: 175 Ft	Width: 300 Ft	
Slabs: 296	Slab Length: 15 Ft	Slab Width: 12 Ft	Joint Length: 7,225 Ft
Shoulder:	Street Type:	Grade: 0	Lanes: 0
Section Comments:			
Last Insp. Date: 8/24/2017	TotalSamples: 14	Surveyed: 3	
Conditions: PCI: 61			
Inspection Comments:			
Sample Number: 003	Type: R	Area: 20.00 Slabs	PCI: 63
Re-Inspection Report			
65	JT SEAL DMG	H	20.00 Slabs Comments:
75	CORNER SPALL	M	1.00 Slabs Comments:
75	CORNER SPALL	H	1.00 Slabs Comments:
63	LINEAR CR	M	1.00 Slabs Comments:
75	CORNER SPALL	L	3.00 Slabs Comments:
74	JOINT SPALL	M	2.00 Slabs Comments:
67	LARGE PATCH	L	3.00 Slabs Comments:
Sample Number: 008	Type: R	Area: 20.00 Slabs	PCI: 54
Re-Inspection Report			
65	JT SEAL DMG	H	20.00 Slabs Comments:
74	JOINT SPALL	L	2.00 Slabs Comments:
75	CORNER SPALL	M	3.00 Slabs Comments:
74	JOINT SPALL	M	2.00 Slabs Comments:
75	CORNER SPALL	H	2.00 Slabs Comments:
74	JOINT SPALL	H	1.00 Slabs Comments:
71	FAULTING	M	2.00 Slabs Comments:
Sample Number: 013	Type: R	Area: 24.00 Slabs	PCI: 65
Re-Inspection Report			
65	JT SEAL DMG	H	24.00 Slabs Comments:
74	JOINT SPALL	L	1.00 Slabs Comments:
75	CORNER SPALL	H	2.00 Slabs Comments:
74	JOINT SPALL	H	3.00 Slabs Comments:

Network: SDM		Name: SDM	
Branch: TWA	Name: Taxiway A	Use: TAXIWAY	Area: 827,443 SqFt
Section: 04 of 7	From: MAP	To: MAP	Last Const.: 4/22/1994
Surface: AC	Family: DEFAULT	Zone:	Rank: S
Area: 232,810 SqFt	Length: 2,980 Ft	Width: 75 Ft	
Slabs:	Slab Length: Ft	Slab Width: Ft	Joint Length: Ft
Shoulder:	Street Type:	Grade: 0	Lanes: 0
Section Comments:			
Last Insp. Date: 8/24/2017		TotalSamples: 46	Surveyed: 5
Conditions: PCI: 58			
Inspection Comments:			
Sample Number: 003	Type: R	Area: 4350.00 SqFt	PCI: 54
Re-Inspection Report			
52	RAVELING	L	3430.00 SqFt
57	WEATHERING	M	920.00 SqFt
48	L & T CR	L	44.00 Ft
48	L & T CR	M	104.00 Ft
45	DEPRESSION	L	368.00 SqFt
Sample Number: 012	Type: R	Area: 5045.00 SqFt	PCI: 67
Re-Inspection Report			
48	L & T CR	L	14.00 Ft
48	L & T CR	M	44.00 Ft
52	RAVELING	L	3525.00 SqFt
57	WEATHERING	M	1520.00 SqFt
Sample Number: 021	Type: R	Area: 5035.00 SqFt	PCI: 56
Re-Inspection Report			
57	WEATHERING	M	1273.00 SqFt
52	RAVELING	L	3762.00 SqFt
41	ALLIGATOR CR	L	6.00 SqFt
48	L & T CR	M	16.00 Ft
48	L & T CR	L	125.00 Ft
Sample Number: 030	Type: R	Area: 5020.00 SqFt	PCI: 60
Re-Inspection Report			
48	L & T CR	M	158.00 Ft
48	L & T CR	L	145.00 Ft
57	WEATHERING	M	2904.00 SqFt
52	RAVELING	L	2116.00 SqFt
41	ALLIGATOR CR	L	15.00 SqFt
Sample Number: 039	Type: R	Area: 5010.00 SqFt	PCI: 51
Re-Inspection Report			
52	RAVELING	L	3756.00 SqFt
57	WEATHERING	M	1254.00 SqFt
41	ALLIGATOR CR	L	56.00 SqFt
48	L & T CR	M	216.00 Ft
48	L & T CR	L	84.00 Ft



Network:		SDM		Name:		SDM				
Branch:	TWA		Name:	Taxiway A		Use:	TAXIWAY	Area:	827,443 SqFt	
Section:	05 of 7		From:	MAP		To:	MAP		Last Const.:	1/1/1997
Surface:	AC		Family:	DEFAULT		Zone:			Rank:	S
Area:	179,560 SqFt		Length:	2,290 Ft		Width:	75 Ft			
Slabs:			Slab Length:	Ft		Slab Width:	Ft		Joint Length:	Ft
Shoulder:			Street Type:			Grade:	0		Lanes:	0
Section Comments:										
Last Insp. Date:	8/24/2017		TotalSamples:	36		Surveyed:	4			
Conditions:	PCI: 41									
Inspection Comments:										
Sample Number:	002		Type:	R		Area:	5000.00 SqFt		PCI:	30
Re-Inspection Report										
52	RAVELING		L	500.00	SqFt	Comments:				
41	ALLIGATOR CR		L	186.00	SqFt	Comments:				
48	L & T CR		L	144.00	Ft	Comments:				
45	DEPRESSION		L	208.00	SqFt	Comments:				
45	DEPRESSION		M	352.00	SqFt	Comments:				
41	ALLIGATOR CR		M	54.00	SqFt	Comments:				
Sample Number:	011		Type:	R		Area:	4985.00 SqFt		PCI:	48
Re-Inspection Report										
41	ALLIGATOR CR		M	90.00	SqFt	Comments:				
41	ALLIGATOR CR		M	90.00	SqFt	Comments:				
48	L & T CR		M	7.00	Ft	Comments:				
48	L & T CR		L	198.00	Ft	Comments:				
Sample Number:	020		Type:	R		Area:	4975.00 SqFt		PCI:	46
Re-Inspection Report										
52	RAVELING		L	2480.00	SqFt	Comments:				
41	ALLIGATOR CR		L	330.00	SqFt	Comments:				
45	DEPRESSION		L	296.00	SqFt	Comments:				
48	L & T CR		L	114.00	Ft	Comments:				
Sample Number:	029		Type:	R		Area:	5540.00 SqFt		PCI:	40
Re-Inspection Report										
52	RAVELING		L	1860.00	SqFt	Comments:				
48	L & T CR		L	256.00	Ft	Comments:				
48	L & T CR		M	29.00	Ft	Comments:				
41	ALLIGATOR CR		L	94.00	SqFt	Comments:				
41	ALLIGATOR CR		M	102.00	SqFt	Comments:				
45	DEPRESSION		L	120.00	SqFt	Comments:				

Network: SDM		Name: SDM	
Branch: TWA1	Name: Taxiway A1	Use: TAXIWAY	Area: 23,577 SqFt
Section: 01 of 2	From: MAP	To: MAP	Last Const.: 4/22/1994
Surface: AC	Family: DEFAULT	Zone:	Category: Rank: S
Area: 11,060 SqFt	Length: 175 Ft	Width: 60 Ft	
Slabs:	Slab Length: Ft	Slab Width: Ft	Joint Length: Ft
Shoulder:	Street Type:	Grade: 0	Lanes: 0
Section Comments:			
Last Insp. Date: 8/24/2017	TotalSamples: 3	Surveyed: 2	
Conditions: PCI: 67			
Inspection Comments:			
Sample Number: 001	Type: R	Area: 3470.00 SqFt	PCI: 70
Re-Inspection Report			
52 RAVELING	L	1730.00 SqFt	Comments:
48 L & T CR	M	114.00 Ft	Comments:
48 L & T CR	L	82.00 Ft	Comments:
Sample Number: 003	Type: R	Area: 3156.00 SqFt	PCI: 65
Re-Inspection Report			
52 RAVELING	L	1578.00 SqFt	Comments:
50 PATCHING	L	128.00 SqFt	Comments:
48 L & T CR	L	78.00 Ft	Comments:
48 L & T CR	M	72.00 Ft	Comments:

Network:		SDM		Name:		SDM													
Branch:		TWA1		Name:		Taxiway A1		Use:		TAXIWAY		Area:		23,577 SqFt					
Section:		02		of		2		From:		MAP		To:		MAP		Last Const.:		4/22/1994	
Surface:		AC		Family:		DEFAULT		Zone:				Category:				Rank:		S	
Area:		12,517 SqFt		Length:		205 Ft		Width:		60 Ft									
Slabs:				Slab Length:		Ft		Slab Width:		Ft		Joint Length:		Ft					
Shoulder:				Street Type:				Grade:		0		Lanes:		0					
Section Comments:																			
Last Insp. Date:		8/24/2017		TotalSamples:		3		Surveyed:		2									
Conditions:		PCI:		60															
Inspection Comments:																			
Sample Number:		001		Type:		R		Area:		4888.00 SqFt		PCI:		48					
Re-Inspection Report																			
57	WEATHERING			M	1875.00	SqFt	Comments:												
45	DEPRESSION			L	364.00	SqFt	Comments:												
48	L & T CR			H	53.00	Ft	Comments:												
48	L & T CR			M	175.00	Ft	Comments:												
48	L & T CR			L	164.00	Ft	Comments:												
52	RAVELING			L	570.00	SqFt	Comments:												
Sample Number:		003		Type:		R		Area:		4280.00 SqFt		PCI:		75					
Re-Inspection Report																			
57	WEATHERING			M	2140.00	SqFt	Comments:												
48	L & T CR			L	12.00	Ft	Comments:												
48	L & T CR			M	35.00	Ft	Comments:												
52	RAVELING			L	1070.00	SqFt	Comments:												

Network: SDM		Name: SDM	
Branch: TWB	Name: Taxiway B	Use: TAXIWAY	Area: 54,855 SqFt
Section: 02 of 3	From: MAP	To: MAP	Last Const.: 6/1/2009
Surface: AAC	Family: DEFAULT	Zone:	Category: Rank: S
Area: 19,100 SqFt	Length: 250 Ft	Width: 75 Ft	
Slabs:	Slab Length: Ft	Slab Width: Ft	Joint Length: Ft
Shoulder:	Street Type:	Grade: 0	Lanes: 0
Section Comments:			
Last Insp. Date: 8/24/2017	TotalSamples: 4	Surveyed: 2	
Conditions: PCI: 77			
Inspection Comments:			
Sample Number: 001	Type: R	Area: 4800.00 SqFt	PCI: 80
Re-Inspection Report			
57 WEATHERING	M	4800.00 SqFt	Comments:
Sample Number: 003	Type: R	Area: 4800.00 SqFt	PCI: 75
Re-Inspection Report			
57 WEATHERING	M	4800.00 SqFt	Comments:
48 L & T CR	L	112.00 Ft	Comments:

---

## **Appendix E      Heavy Weight Deflectometer Testing Plan and Location**



## HWD Testing at Montgomery-Gibbs Executive and Brown Field Airports in San Diego County, CA

Montgomery-Gibbs Executive Airport	
Montgomery-Gibbs Executive Airport Operations	Catherine Johnson Albert Bejarano
Brown Field Airport	Joe Hughey
Atkins	Katie Chou, Ph.D., P.E. Sr. Project Manager, Aviation Sector
Dynatest Consulting, Inc.	Jose Juarez (HWD Operator) Dave McLean (HWD Operator) Alvaro Ulloa, PhD, PE
Dynatest Project Number	108B17
Project Location	San Diego County
Mobilization Date	07/17/2017
Testing Dates	Montgomery-Gibbs Executive Airport: 07/18/2017 – 07/19/2017 Brown Field Airport: 07/20/2017
Meeting Location and Time	1) <b>Montgomery-Gibbs Executive:</b> Airport Operations (3750 John J. Montgomery Dr., San Diego, CA 92123) 8:45 pm on July 18 <sup>th</sup> , 2017 2) <b>Brown Field Airport:</b> 1424 Continental Street, San Diego, CA 92154 8:30pm on July 20 <sup>th</sup> , 2017
Testing Schedule	3) <b>Montgomery-Gibbs Executive:</b> 9pm to 5am 4) <b>Brown Field Airport:</b> 9pm to 6am



## 2) Brown Field Airport

### Testing Location

Feature	Length (ft.)	Number of HWD Test Lines	Offset (ft.)	HWD Testing Intervals	Number of HWD Test Points
<b>Brown Municipal Airport</b>					
Runway 8R-26L	3,180	2	10	200	32
Runway 8L-26R (PCC)	971	2	10	100	19
Runway 8L-26R (AC)	7,012	2	10	200	70
Taxiway A (AC)	5,170	2	10	200	52
Taxiway A (PCC)	3,466	2	10	200	35
Taxiway B	612	2	10	100	12
Taxiway C-1	410	2	10	50	16
Taxiway C-2	340	2	10	50	12
Taxiway A1	330	2	10	50	12
<b>Subtotal Number of HWD Test Points</b>					<b>260</b>

- 1) File names: RWY8R26L\_R1, RWY8R26L\_L1
- 2) File names: RWY8L26RP\_R1, RWY8L26RP\_L1
- 3) File names: RWY8L26RA\_R1, RWY8L26RA\_L1
- 4) File names: TWYA1A\_R1, TWYA1A\_L1
- 5) File names: TWYA2P\_R1, TWYA2P\_L1
- 6) File names: TWYB\_R1, TWYB\_L1
- 7) File names: TWYC-1\_R1, TWYC-1\_L1
- 8) File names: TWYC-2\_R1, TWYC-2\_L1
- 9) File names: TWYA1\_R1, TWYA1\_L1

### Test Setup

- Stagger tests between test lines. Use filenames as shown above.
- For all airport features a seating drop and 3 drops at 25, 35, and 45 kips shall be applied. If excessive deflections are being recorded on 45 kips, test at the nearest maximum load.
- Large Plate
- Sensor Spacing: 0, 12, 18, 24, 36, 48, 60, 72, and 84 in.
- History ON for 3<sup>rd</sup> drop.
- Smoothing should be ON
- GPS should be ON
- Save all files in MDB format

Site plan of the proposed runway extension at the Port of Los Angeles. The plan shows a main runway extension (7972 X 150) and a parallel taxiway (3180 X 75). Key features include the Main Transient Parking, FBO, Hangars, Terminal/Administration, U.S. Customs, U.S. Customs Parking, TWR 602, and EAA Ramp. The plan also indicates the annual rate of change (0.1° W) and the elevation (ELEV 526) at the start of the extension.

**Figure 2. Features Location at Brown Field Airport**



---

## Appendix F      Pavement Coring Data



SDVOSB . DVBE

SCST, Inc.  
Corporate Headquarters  
6280 Riverdale Street  
San Diego, CA 92120  
P 619.280.4321  
T 877.215.4321  
F 619.280.4717  
W [www.scst.com](http://www.scst.com)

October 23, 2017

**SCST Project No. 170120P3**

**Mr. Michael Hotaling**  
**Aviation Practice Leader**  
**C&S Engineers, Inc.**  
**2020 Camino del Rio N., Suite 1000**  
**San Diego, CA 92108**

Subject: CORING ASSESSMENT  
MASTERPLAN FOR MONTGOMERY-GIBBS AND BROWN AIRFIELDS  
SAN DIEGO, CALIFORNIA

Dear Mr. Hotaling:

In accordance with your request, SCST, Inc. provided a geotechnical assessment of the pavement for the subject project (Figures 1 and 2). Our scope of work included a field investigation to assess the thickness of the asphalt concrete pavement section. We performed five cores of the pavement section at each of the two airfields (Figures 2 and 4). The cores were photodocumented (attached) and transported to our geotechnical laboratory to hold. The cores were patched with high strength rapid set concrete. The underlying subgrade was not sampled and laboratory testing was not performed.

We appreciate the opportunity to provide services on this project. If you have any questions or if we may be of further service, please contact our office at 619-280-4321.

Respectfully Submitted,  
**SCST, INC.**

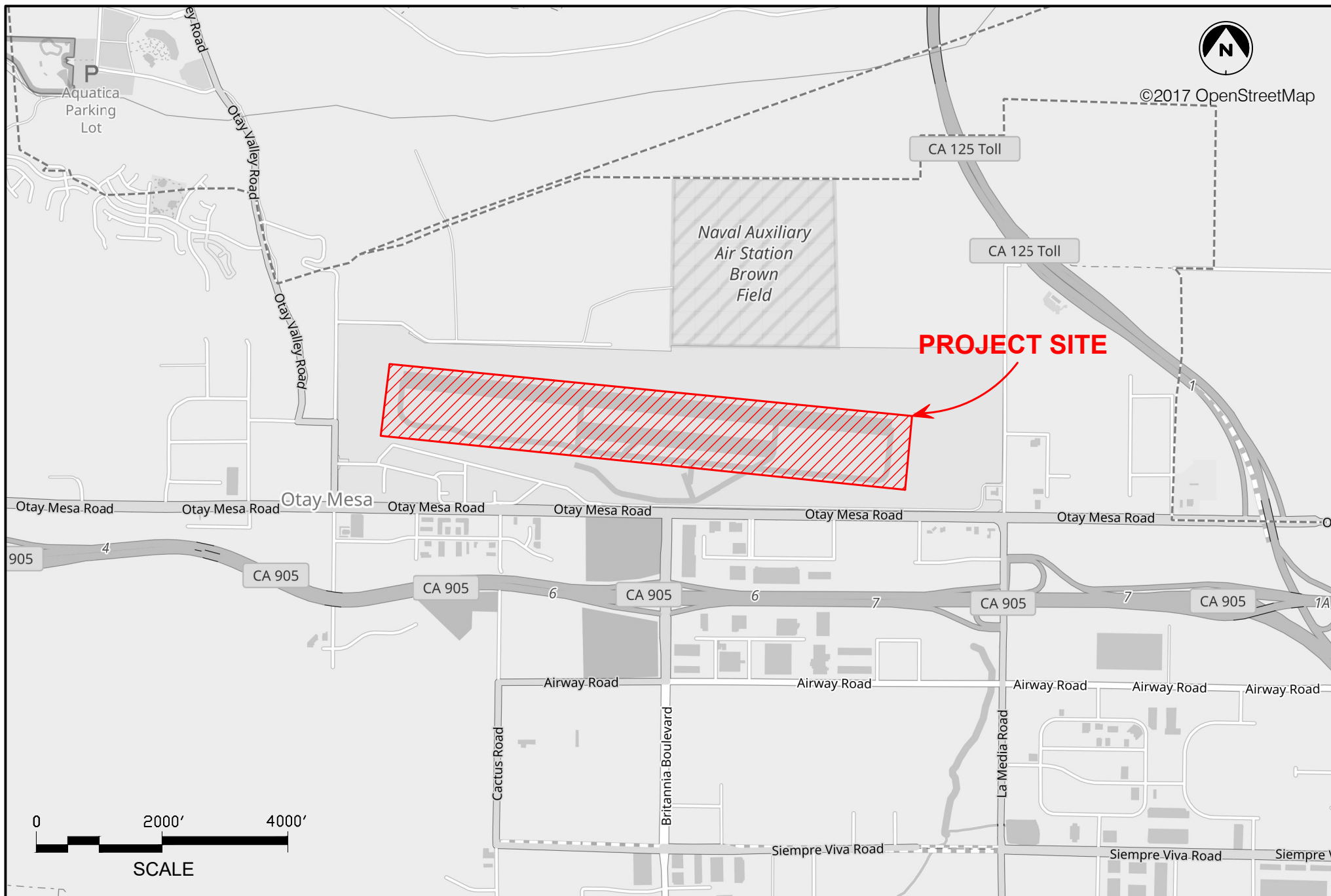
A handwritten signature in blue ink, appearing to read 'Emil Rudolph'.

Emil Rudolph, PE, GE  
Principal Engineer

ER:

Attachments: Figures 1 & 3 – Site Vicinity Maps  
Figures 2 & 4 – Core Location Map  
Core Photographs and Core Data

- (1) Addressee via e-mail: [mhotaling@cscos.com](mailto:mhotaling@cscos.com)
- (1) Mr. Ralph Redman via e-mail: [rredman@cscos.com](mailto:rredman@cscos.com)
- (1) Ms. Katie Chow via e-mail: [Katie.Chou@atkinsglobal.com](mailto:Katie.Chou@atkinsglobal.com)



**SCST, Inc.**

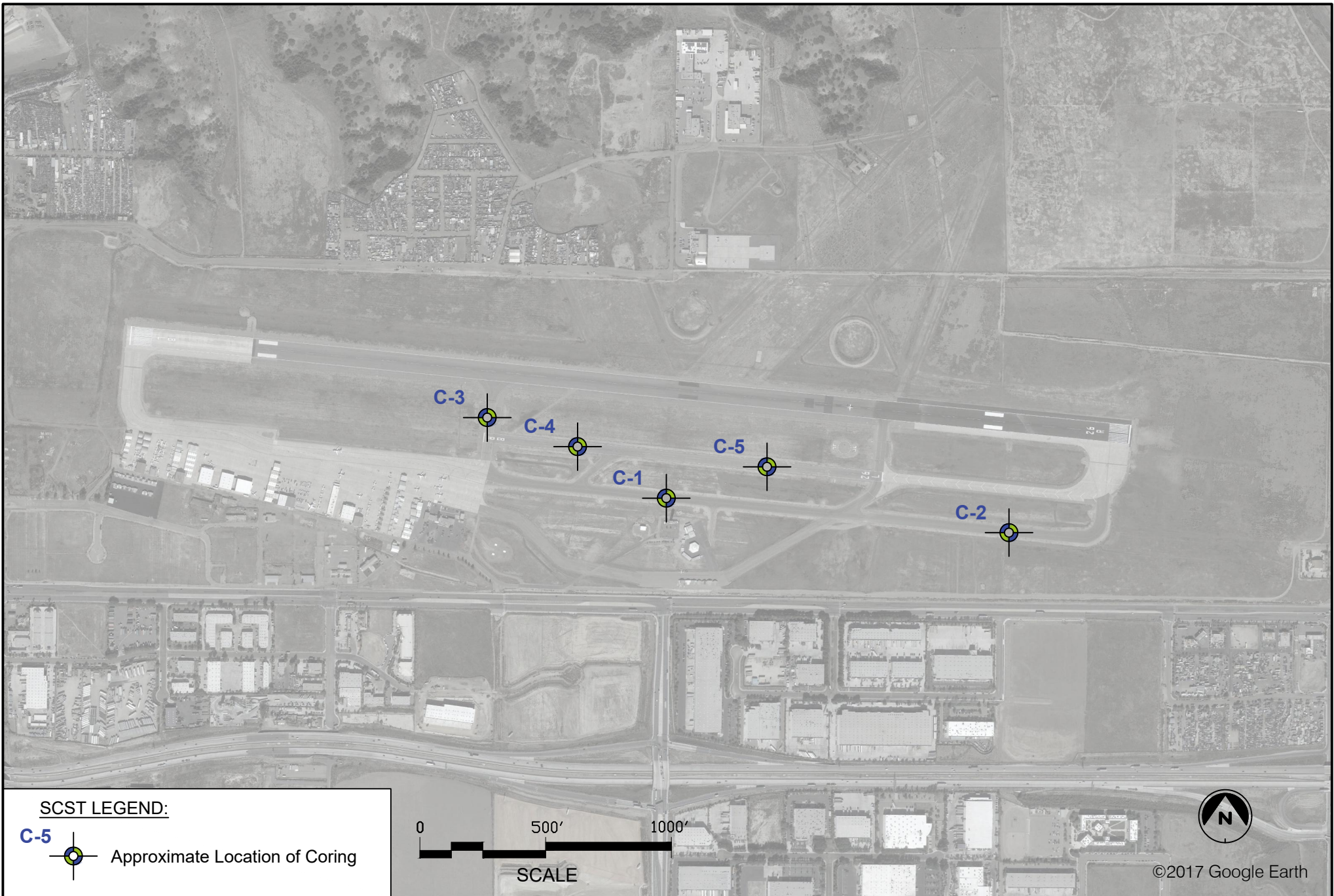
### SITE VICINITY MAP

Airport Master Plan for Brown Field Airport  
San Diego, California


Date: October, 2017  
By: DTC  
Job No.: 170120P3-1

Figure:  
**3**





**SCST LEGEND:**

**C-5**  Approximate Location of Coring

0 500' 1000'  
SCALE



©2017 Google Earth



**SCST, Inc.**

**CORE LOCATION MAP**

Airport Master Plan for Brown Field Airport  
San Diego, California

Date: October, 2017  
By: DTC  
Job No.: 170120P3-1

Figure:  
**4**



# Field Memorandum

**SCST Inc. - San Diego**  
LEA: 47, Exp: 04/25/2021  
6280 Riverdale Street  
San Diego, CA 92120  
Phone: (619) 280-4321  
Fax: (619) 280-4717

**Client:**  
C&S Companies  
2020 Camino Del Rio North, Suite 1000  
San Diego, CA 92108

**Project:**  
170120P3  
City of SD, Montgomery & Brown Field Master  
Planning GI - C&S  
1424 Continental St. San Diego, CA 92154

**Memo By:** Dale, Jason

**Date:** 08/23/2017

**Subject:** Brown Field Pavement Investigation

**Memo:** Please see attached for regarding today's work at Brown field.

See Daily\_Report\_JRD.pdf in the documents section at the end of this report.

**Discrepancy:** No

DAILY REPORT OF FIELD OPERATIONS: BROWN FIELD PAVEMENT GI

DATE OF WORK: **8/23/2017**

STAFF: **Jason Dale & Brian Gin**

TOOLS: 6" Coring Machine, 3" Hand Auger, 6" Hand Auger, Rotohammer, Pry Bar

Description of work: Core through pavement at marked locations to identify pavement section. Utilize Rotohammer to break up base material; utilize hand auger to extract material. Difficult digging conditions limited depth of exploration.

Location	Total Depth	Stratification	Notes
C-1	2 Feet	4" AC	
		8" Aggregate Base	
		12" Subbase: SM with GRAVEL	
C-2	2½ Feet	4" AC	
		20" Aggregate Base	
		6" Subgrade: CH	
C-3	2½ Feet	4" AC	
		20" Subbase: SM with GRAVEL	
		6"+ Subbase: SM with GRAVEL with pieces of CH	
C-4	2 Feet	7" AC	
		8" Subbase: SM	
		9"+ Subgrade: CH	
C-5	2 Feet	4" AC	
		7" Aggregate Base	
		13"+ Subbase: SM	





**SCST, Inc**

Brown Field

Job No.: 170120P3

San Diego, CA

**Core No.:**

**C-1**





**SCST, Inc**  
Brown Field  
Job No.: 170120P3  
San Diego, CA

**Core No.:**  
**C-2**







**SCST, Inc**

Brown Field

Job No.: 170120P3

San Diego, CA

**Core No.:**

**C-3**





**SCST, Inc**

Brown Field

Job No.: 170120P3

San Diego, CA

**Core No.:**

**C-4**







**SCST, Inc**  
Brown Field  
Job No.: 170120P3  
San Diego, CA

**Core No.:**

**C-5**



---

## **Appendix G      PCN Calculation Output (Runway 8L-26R Interior)**

Appendix G SDM\_R28\_Interior\_20180111

This file name = PCN Results Flexible 1-11-2018 12;00;26.txt

Library file name = C:\Program Files (x86)\COMFAA 30\SDM Traffic\_1.Ext

Units = English

Evaluation pavement type is flexible and design procedure is CBR.

Alpha Values are those approved by the ICAO in 2007.

CBR = 3.00 (Subgrade Category is D(3))

Evaluation pavement thickness = 37.30 in

Pass to Traffic Cycle (PtoTC) Ratio = 1.00

Maximum number of wheels per gear = 2

Maximum number of gears per aircraft = 2

No aircraft have 4 or more wheels per gear. The FAA recommends a reference section assuming

3 inches of HMA and 6 inches of crushed aggregate for equivalent thickness calculations.

Results Table 1. Input Traffic Data

No.	Aircraft Name	Gross Weight	Percent Gross Wt	Tire Press	Annual Deps	20-yr Coverages	6D Thick
1	Learjet-35A/65A	18,000	95.00	171.0	1,141	2,615	14.19
2	Challenger-CL-650	48,200	95.00	145.0	1,293	5,145	24.80
3	Gulfstream-G-V	90,900	95.00	188.0	95	453	28.43
4	S-60	66,000	95.00	105.0	405	1,619	29.78
5	Single Wheel 8	8,000	100.00	50.0	250	735	13.29
6	Single Wheel 2	2,450	100.00	30.0	3,380	7,123	8.42
7	Bonanza-F-36	3,650	95.00	40.0	6,615	10,169	7.64
8	Baron-E-55	5,100	95.00	56.0	4,160	6,389	8.91
9	Single Wheel 12.5	12,500	95.00	50.0	773	1,962	12.59
10	C-130	165,000	95.00	105.0	148	1,320	35.70
11	Single Wheel 20	22,000	95.00	75.0	304	835	15.73
12	Single Wheel 2.5	2,500	100.00	30.0	98	209	6.01
13	Single Wheel 2.4	2,440	100.00	30.0	387	814	6.96

Results Table 2. PCN Values

PCN on		Critical Aircraft Total	Thickness for Total	Maximum Allowable	ACN Thick at Max. Allowable
No. Aircraft Name CDF	D(3)	Equiv. Covs.	Equiv. Covs.	Gross Weight	Gross Weight
1	Learjet-35A/65A	>5,000,000	24.61	40,084	24.21
0.0000	13.5				
2	Challenger-CL-650	>5,000,000	37.17	48,518	26.00
0.0000	15.6				

Appendix G SDM\_R28\_Interior\_20180111

3	Gulfstream-G-V	10,334	36.52	94,613	37.23
0.0302	31.9				
4	S-60	24,157	36.47	69,040	35.22
0.0462	28.5				
5	Single Wheel 8	>5,000,000	33.22	10,088	18.64
0.0000	8.0				
6	Single Wheel 2	>5,000,000	17.25	11,450	18.64
0.0000	8.0				
7	Bonanza-F-36	>5,000,000	15.26	21,795	18.64
0.0000	8.0				
8	Baron-E-55	>5,000,000	18.41	20,931	18.64
0.0000	8.0				
9	Single Wheel 12.5	>5,000,000	28.62	21,237	18.64
0.0000	8.0				
10	C-130	1,484	36.09	174,278	43.44
0.6133	43.5				
11	Single Wheel 20	>5,000,000	37.26	22,047	19.41
0.0000	8.7				
12	Single Wheel 2.5	>5,000,000	17.43	11,450	18.64
0.0000	8.0				
13	Single Wheel 2.4	>5,000,000	17.22	11,450	18.64
0.0000	8.0				

Total CDF =

0.6897

Results Table 3. Flexible ACN at Indicated Gross Weight and Strength

No.	Aircraft Name	Gross Weight	% GW on Main Gear	Tire Pressure	ACN Thick	ACN on D(3)
1	Learjet-35A/65A	18,000	95.00	171.0	15.63	5.6
2	Challenger-CL-650	48,200	95.00	145.0	25.90	15.5
3	Gulfstream-G-V	90,900	95.00	188.0	36.45	30.6
4	S-60	66,000	95.00	105.0	34.44	27.3
5	Single Wheel 8	8,000	100.00	50.0	16.60	6.3
6	Single Wheel 2	2,450	100.00	30.0	8.62	1.7
7	Bonanza-F-36	3,650	95.00	40.0	7.63	1.3
8	Baron-E-55	5,100	95.00	56.0	9.20	1.9
9	Single Wheel 12.5	12,500	95.00	50.0	14.30	4.7
10	C-130	165,000	95.00	105.0	41.98	40.6
11	Single Wheel 20	22,000	95.00	75.0	19.39	8.7
12	Single Wheel 2.5	2,500	100.00	30.0	8.71	1.7
13	Single Wheel 2.4	2,440	100.00	30.0	8.60	1.7

Results Table 4. Summary Output for Copy and Paste Into the Support Spread Sheet

Num,Plane,GWin,ACNin,ADout,6Dt,COV20yr,COVtoF,CDFt,GWcdf,PCNcdf,EVALt,SUBcode,KorCBR,PtoTC,FlexOrRig

# Appendix G SDM\_R28\_Interior\_20180111

1,Learjet-35A/65A,18000.000,5.6,1141,14.19,2.61477E+003,1.01423E+304,24.61,40084.486,13.5,37.3,D,3.00,1.00,F  
2,Challenger-CL-650,48200.000,15.5,1293,24.80,5.14461E+003,1.26936E+010,37.17,48518.314,15.6,37.3,D,3.00,1.00,F  
3,Gulfstream-G-V,90900.000,30.6,95,28.43,4.52972E+002,1.49819E+004,36.52,94612.624,31.9,37.3,D,3.00,1.00,F  
4,S-60,66000.000,27.3,405,29.78,1.61927E+003,3.50233E+004,36.47,69039.594,28.5,37.3,D,3.00,1.00,F  
5,Single Wheel  
8,8000.000,6.3,250,13.29,7.35326E+002,1.01423E+304,33.22,10087.534,8.0,37.3,D,3.00,1.00,F  
6,Single Wheel  
2,2450.000,1.7,3380,8.42,7.12251E+003,1.01423E+304,17.25,11450.138,8.0,37.3,D,3.00,1.00,F  
7,Bonanza-F-36,3650.000,1.3,6615,7.64,1.01691E+004,1.01423E+304,15.26,21795.074,8.0,37.3,D,3.00,1.00,F  
8,Baron-E-55,5100.000,1.9,4160,8.91,6.38882E+003,1.01423E+304,18.41,20931.233,8.0,37.3,D,3.00,1.00,F  
9,Single Wheel  
12.5,12500.000,4.7,773,12.59,1.96162E+003,1.01423E+304,28.62,21236.932,8.0,37.3,D,3.00,1.00,F  
10,C-130,165000.000,40.6,148,35.70,1.31966E+003,2.15184E+003,36.09,174278.388,43.5,37.3,D,3.00,1.00,F  
11,Single Wheel  
20,22000.000,8.7,304,15.73,8.35028E+002,8.42940E+019,37.26,22046.948,8.7,37.3,D,3.00,1.00,F  
12,Single Wheel  
2.5,2500.000,1.7,98,6.01,2.08595E+002,1.48817E+195,17.43,11450.138,8.0,37.3,D,3.00,1.00,F  
13,Single Wheel  
2.4,2440.000,1.7,387,6.96,8.13850E+002,6.04791E+285,17.22,11450.138,8.0,37.3,D,3.00,1.00,F

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