Denison Municipal Airport

Pavement Management Report

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DENISON MUNICIPAL AIRPORT PAVEMENT MANAGEMENT REPORT

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TABLE OF CONTENTS

INTRODUCTION	1
PAVEMENT INVENTORY	
PAVEMENT EVALUATION	6
Pavement Evaluation Procedure	6
Pavement Evaluation Results	
Inspection Comments	
Runway	
Taxiway	
Apron	
T-Hangar	
PAVEMENT MAINTENANCE AND REHABILITATION PROGRAM	15
Analysis Parameters	
Critical PCIs	
Localized Preventive Maintenance Policies and Unit Costs	
Major Rehabilitation Unit Costs	
Budget and Inflation Rate	
Analysis Approach	
Analysis Results	
General Maintenance Recommendations	
FAA Requirements (Public Law 103-305)	
FAA Advisory Circular 150/5830-7B, Appendix A. Pavement Management Program	
SUMMARY	
REFERENCES	
LIST OF FIGURES	
Figure 1. Pavement condition versus cost of repair.	1
Figure 2. Pavement area by branch use at Denison Municipal Airport	
Figure 3. Denison Municipal Airport network definition map	5
Figure 4. Visual representation of PCI scale on typical pavement surfaces	6
Figure 5. PCI versus repair type	7
Figure 6. Pavement area by PCI range at Denison Municipal Airport	8
Figure 7. Area-weighted PCI by branch use at Denison Municipal Airport	9
Figure 8. Denison Municipal Airport PCI map	10
LIST OF TABLES	
Table 1. 2025 pavement evaluation results	
Table 2. 5-year M&R program under an unlimited funding analysis scenario	
Table 3. Pavement inspection report.	ン()

APPENDIXES

Appendix A. Cause of Distress Tables	A-1
Appendix B. Inspection Photographs	
Appendix C. Inspection Report	
Appendix D. Work History Report	
Appendix E. Localized Preventive Maintenance Policies and Unit Cost Tables	
Appendix F. Year 2025 Localized Preventive Maintenance Details	

Introduction August 2025

INTRODUCTION

Applied Pavement Technology, Inc. (APTech), with assistance from Robinson Engineering Company Consulting Engineers (Robinson), updated the Airport Pavement Management System (APMS) for the Iowa Department of Transportation, Modal Transportation Bureau (Iowa DOT). The APMS provides a means to monitor the condition of the pavements within the State of Iowa and to proactively plan for their preservation.

As part of this project, pavement conditions at Denison Municipal Airport were visually assessed in March 2025 using the Pavement Condition Index (PCI) procedure. During a PCI inspection, the types, severities, and amounts of distress present on the pavement surface are quantified. This information is then used to develop a composite index that represents the overall condition of the pavement in numerical terms, ranging from 0 (*Failed*) to 100 (*Excellent*). The PCI provides an overall measure of condition and an indication of the level of work that will be required to maintain or repair a pavement. The distress information also provides insight into what is causing the pavement to deteriorate, which is the first step in selecting the appropriate repair action to correct the problem.

Programmed into an APMS, PCI data and results are used to determine when preventive maintenance actions (such as crack or joint sealing) are advisable and to identify the most cost-effective time to perform major rehabilitation (such as an overlay or whitetopping). Delaying maintenance and rehabilitation (M&R) until a pavement structure has seriously degraded can cost many times more than if M&R was applied earlier in a pavement's life cycle, as shown in Figure 1. From a safety perspective, pavement distresses, such as cracks and loose debris, may pose risks in terms of the potential for aircraft tire damage and the ability of a pilot to safely control aircraft.

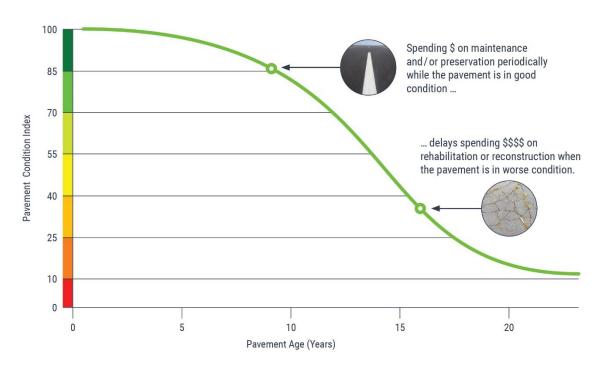


Figure 1. Pavement condition versus cost of repair.

Introduction August 2025

The pavement evaluation results for Denison Municipal Airport are presented within this report and can be used by Denison Municipal Airport, the Iowa DOT, and the Federal Aviation Administration (FAA) to identify, prioritize, and schedule pavement M&R actions at the airport. In addition to this report, the web-based interactive pavement data visualization tool IDEA, containing the information collected during this project, was updated and may be accessed from the Iowa DOT's website or directly (Iowa APMS IDEA).

Pavement Inventory August 2025

PAVEMENT INVENTORY

The project began with a review of the existing inventory information pertaining to the pavements at Denison Municipal Airport. The date of original construction, along with the date of any subsequent rehabilitation; the location of completed work; and the type of work undertaken were gathered. The information was used to update the pavement management database and associated maps, as necessary, to account for pavement-related work that had been undertaken since the last time the airport was evaluated in 2021.

The pavement network at Denison Municipal Airport was then divided into branches, sections, and sample units. A branch is a single entity that serves a distinct function. For example, a runway is considered a branch because it serves a single function (allowing aircraft to take off and land). Taxiways, aprons, and T-hangars are also separate branches.

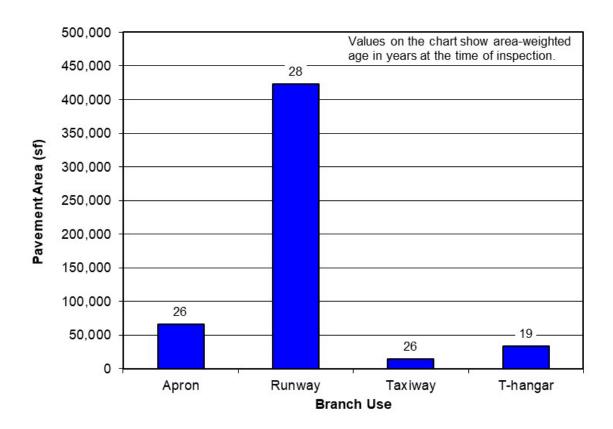
Each branch was further divided into sections. Traditionally, sections are defined as parts of the branch that share common attributes, such as cross section, date of last construction, traffic level, and performance. Using this approach, if a runway was built in 1968 and then extended in 1984, it would contain two separate sections.

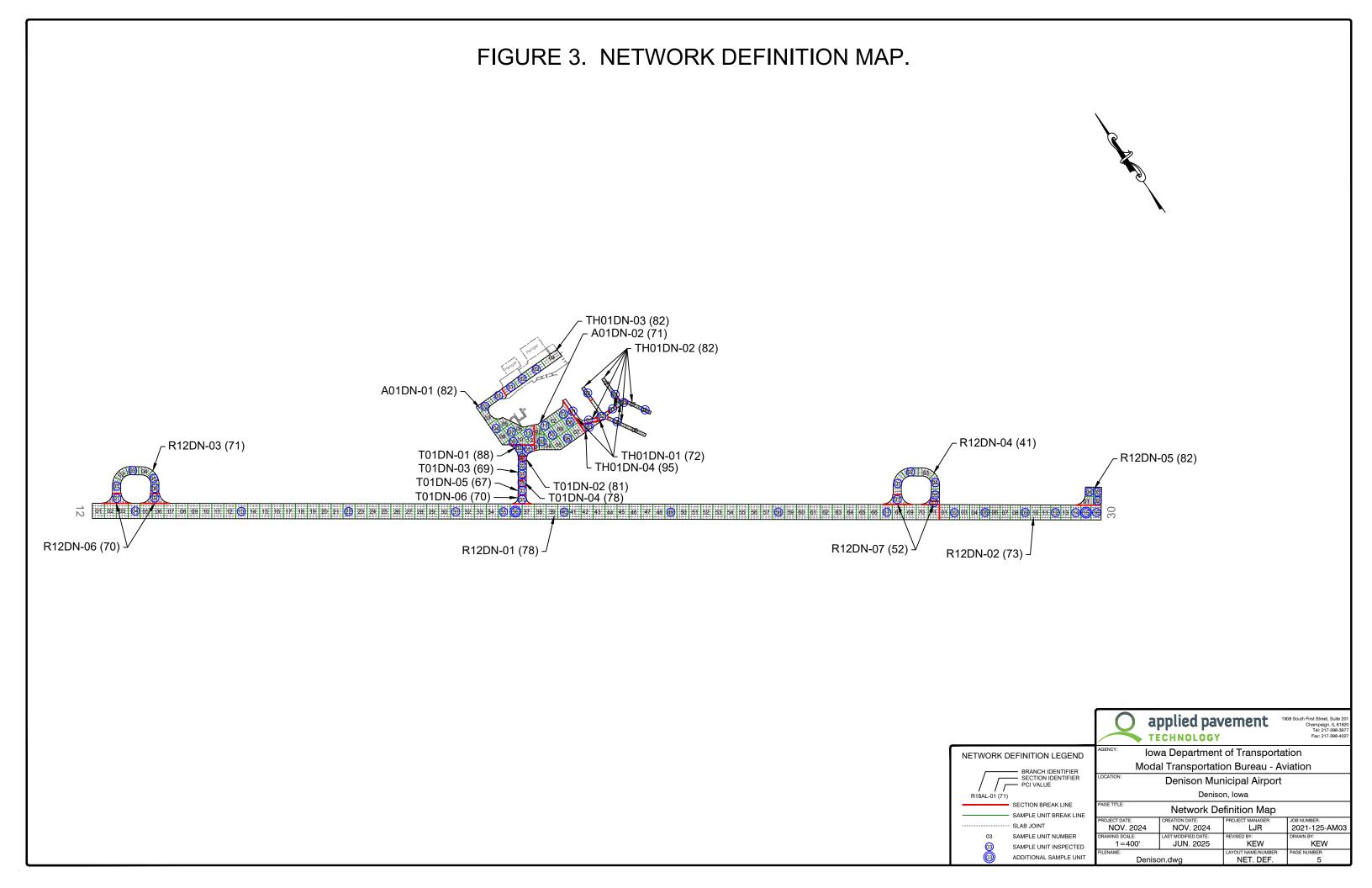
To estimate the overall condition of a pavement section, each section was subdivided into sample units. Portions of these sample units were evaluated during the pavement inspection, and the collected information was extrapolated to predict the overall section condition and quantities of distress.

Approximately 537,500 square feet of pavement were evaluated at Denison Municipal Airport, as illustrated in Figure 2. This figure also shows the area-weighted age in years of the pavements at the time of the inspection. Figure 3 provides a map that details how the pavement network was divided into management units and identifies the sample units that were evaluated during the pavement inspection at Denison Municipal Airport.

Pavement Inventory August 2025

Figure 2. Pavement area by branch use at Denison Municipal Airport.





PAVEMENT EVALUATION

Pavement Evaluation Procedure

APTech visually inspected the pavements at Denison Municipal Airport using the PCI procedure described in:

- FAA Advisory Circular 150/5380-6C, <u>Guidelines and Procedures for Maintenance of</u> Airport Pavements.
- FAA Advisory Circular 150/5380-7B, Airport Pavement Management Program (PMP).
- ASTM D5340, Standard Test Method for Airport Pavement Condition Index Surveys.

During the PCI inspection, a cursory inspection of the entirety of a pavement section was performed. Sample units identified for more detailed inspection were verified, and adjustments to the selected sample units for inspection were made as needed to ensure an accurate assessment of the pavement's condition. Data pertaining to the types, severities, and quantities of observed pavement distresses were then collected within each sample unit. These data were then used to calculate the composite PCI of each pavement section. The PCI provides a numerical indication of overall pavement condition, as illustrated in Figure 4. The PCI ranges from a value of 0, which represents a pavement in a *Failed* condition, to a value of 100, which represents a pavement in *Excellent* condition with no visible signs of deterioration. It is important to note that factors other than overall PCI need to be considered when identifying the appropriate type of repair, including types of distress present and rate of deterioration. Also, since the PCI does not assess the structural integrity or capacity of the pavement structure, further testing may be needed to validate and refine the treatment strategy.

PCI: 100

PCI: 83

Figure 4. Visual representation of PCI scale on typical pavement surfaces.

Note: Photographs shown are not specific to Denison Municipal Airport.

PCI: 66

Generally, pavements with relatively high PCIs that are not exhibiting significant load-related distress will benefit from preventive maintenance actions, such as crack sealing or joint resealing. As the PCI drops, the pavements may require major rehabilitation, such as an overlay or whitetopping. In some situations where the PCI has dropped low enough, reconstruction may be the only viable alternative due to the substantial damage to the pavement structure. Figure 5 illustrates how the appropriate repair type varies with the PCI of a pavement section and provides the corresponding colors used for the maps and charts in this report for each range of PCIs.

PCI Range

86-100

71-85

Preventive Maintenance

56-70

Major Rehabilitation

26-40

11-25

Reconstruction

Figure 5. PCI versus repair type.

The types of distress identified during the PCI inspection provide insight into the cause of pavement deterioration, which is useful when selecting M&R strategies. Understanding the cause of distress helps in selecting a rehabilitation alternative that corrects the cause and thus eliminates or delays its recurrence. PCI distress types are characterized as:

- Load-related—These distress types are defined as being caused by aircraft or vehicular traffic and may indicate a structural deficiency. Examples of load-related distress include alligator cracking on asphalt-surfaced pavements and corner breaks on portland cement concrete (PCC) pavements.
- Climate/durability-related—These distress types often signify the presence of aged or environmentally susceptible (or both) material and include durability-related issues.
 Examples of climate/durability-related distress include weathering on asphalt-surfaced pavements, which is climate-related, and durability cracking on PCC pavements, which is durability-related.
- Other—Distress types that fall into this category cannot be attributed solely to load or climate/durability. Examples of this type of distress include depressions on asphaltsurfaced pavements and shrinkage cracking on PCC pavements.

Appendix A identifies the distress types considered during a PCI inspection and describes the likely cause of each distress type. It should be noted that a PCI is based on visual signs of pavement deterioration and does not provide a measure of structural capacity.

Pavement Evaluation Results

The pavements at Denison Municipal Airport were inspected in March 2025. The 2025 area-weighted condition of Denison Municipal Airport is 76, with conditions ranging from 41 to 95 (on a scale of 0 [failed] to 100 [excellent]). During the previous pavement inspection in 2021, the area-weighted PCI of the airport was 79.

Figure 6 summarizes the overall condition of the pavements at Denison Municipal Airport, and Figure 7 presents area-weighted condition (average PCI adjusted to account for the relative size of the pavement sections) by branch use. Figure 8 is a map that displays the condition of the evaluated pavements. Table 1 summarizes the results of the pavement evaluation. Appendix B presents photographs taken during the PCI inspection, and Appendix C contains detailed information on the distress types observed during the visual survey. Appendix D includes detailed work history information that was collected during the record review process.



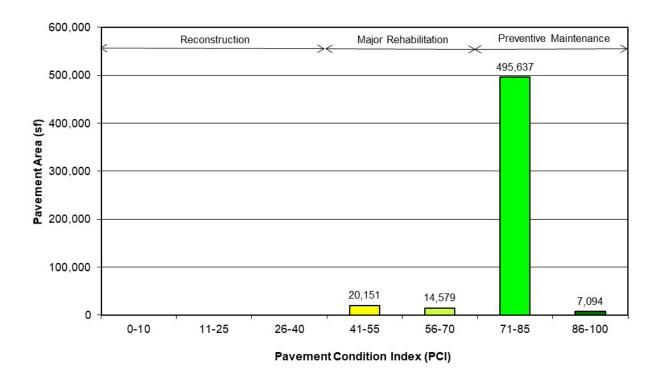
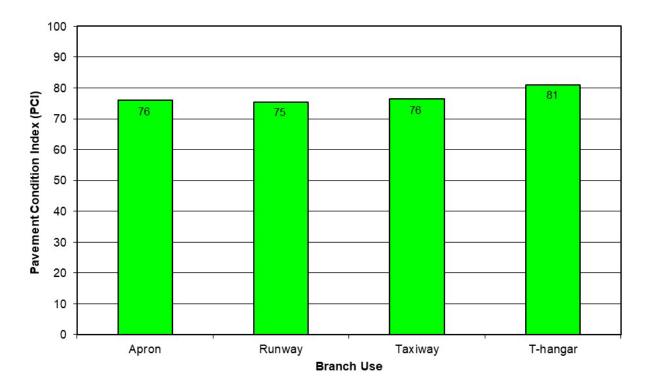
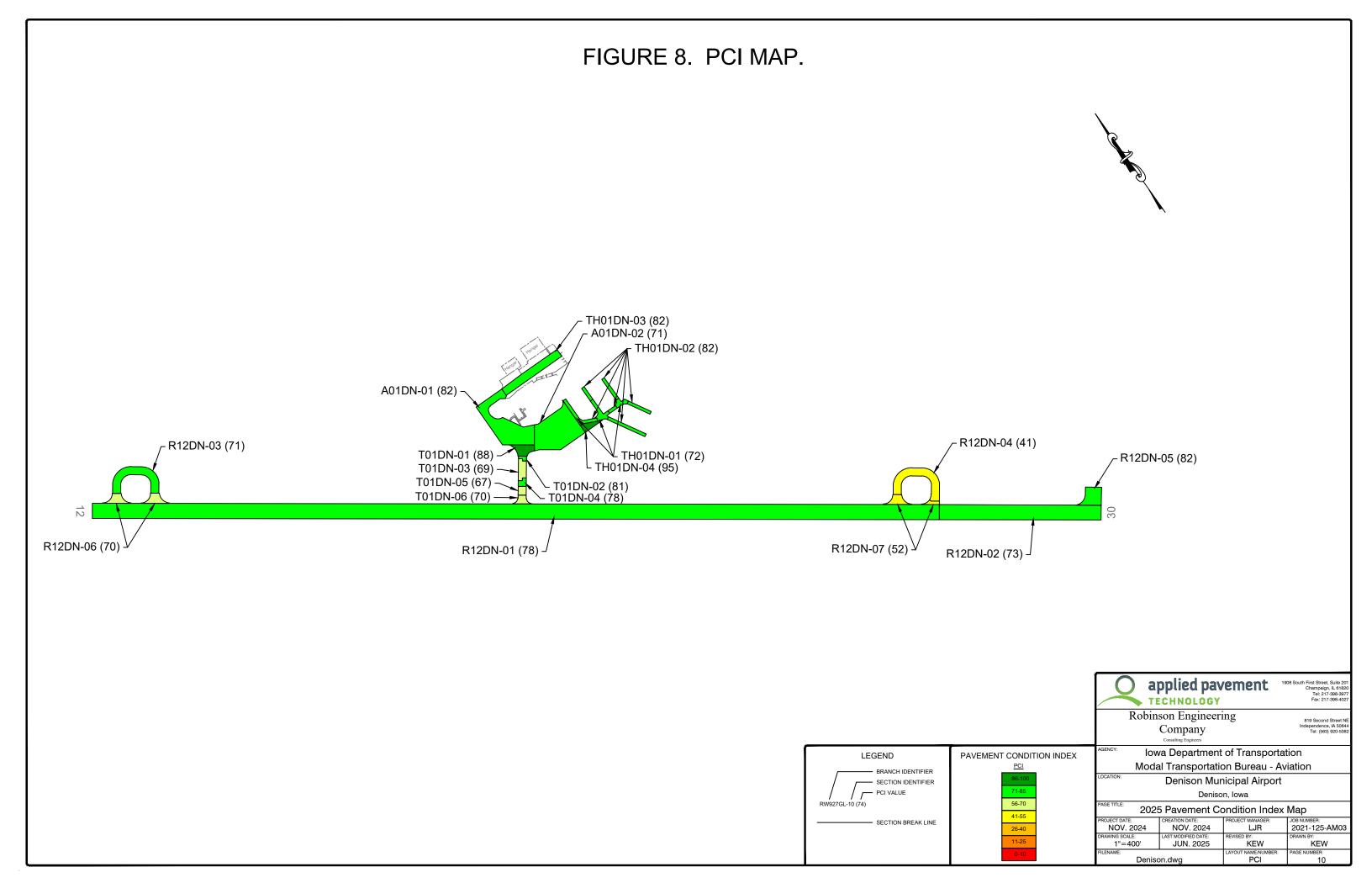


Figure 7. Area-weighted PCI by branch use at Denison Municipal Airport.

(Values on chart are area weighted.)





Pavement Evaluation

Table 1. 2025 pavement evaluation results.

Branch	Section	Surface Type	Section Area (sf)	LCD	2025 PCI	% Distress Due to Load	% Distress Due to Climate/ Durability	% Distress Due to Other	Type of Distress
A01DN	01	PCC	30,349	6/1/2001	82	39	54	7	Corner Break, Faulting, Joint Seal Damage, LTD Cracking
A01DN	02	PCC	35,959	1/1/1997	71	31	37	32	Corner Break, Corner Spalling, Faulting, Joint Spalling, Joint Seal Damage, LTD Cracking
R12DN	01	PCC	314,842	1/2/1997	78	28	36	36	ASR, Corner Spalling, Faulting, Joint Spalling, Joint Seal Damage, LTD Cracking, Shattered Slab, Shrinkage Cracking, Small Patch
R12DN	02	PCC	59,248	1/3/1997	73	13	27	60	ASR, Faulting, Joint Spalling, Joint Seal Damage, Shattered Slab
R12DN	03	PCC	14,133	1/2/1997	71	48	37	15	Corner Break, Corner Spalling, Faulting, Joint Spalling, Joint Seal Damage, LTD Cracking
R12DN	04	PCC	15,616	1/2/1997	41	64	15	21	ASR, Corner Break, Corner Spalling, Faulting, Joint Spalling, Joint Seal Damage, Large Patch, LTD Cracking, Shattered Slab, Shrinkage Cracking
R12DN	05	PCC	7,737	1/3/1997	82	10	32	58	Faulting, Joint Spalling, Joint Seal Damage, LTD Cracking
R12DN	06	PCC	6,812	1/2/1997	70	36	30	34	Corner Break, Faulting, Joint Spalling, Joint Seal Damage, LTD Cracking, Shrinkage Cracking, Small Patch
R12DN	07	PCC	4,535	1/2/1997	52	58	21	21	Corner Break, Faulting, Joint Spalling, Joint Seal Damage, LTD Cracking, Shrinkage Cracking
T01DN	01	PCC	4,607	6/1/2001	88	9	91	0	Joint Seal Damage, LTD Cracking
T01DN	02	PCC	717	1/1/1997	81	0	52	48	ASR, Joint Seal Damage
T01DN	03	PCC	3,843	6/1/1997	69	0	31	69	Corner Spalling, Joint Spalling, Joint Seal Damage, Large Patch, Scaling
T01DN	04	PCC	1,400	6/1/2001	78	0	45	55	Faulting, Joint Seal Damage

Pavement Evaluation

Table 1. 2025 pavement evaluation results (continued).

Branch	Section	Surface Type	Section Area (sf)	LCD	2025 PCI	% Distress Due to Load	% Distress Due to Climate/ Durability	% Distress Due to Other	Type of Distress
T01DN	05	PCC	1,725	6/1/1997	67	19	30	51	Corner Spalling, Joint Seal Damage, LTD Cracking, Scaling, Shrinkage Cracking
T01DN	06	PCC	2,199	6/1/1997	70	32	33	35	Faulting, Joint Spalling, Joint Seal Damage, LTD Cracking
TH01DN	01	PCC	6,765	1/1/1989	72	54	28	18	Corner Spalling, Faulting, Joint Spalling, Joint Seal Damage, LTD Cracking, Small Patch
TH01DN	02	PCC	10,670	4/4/2014	82	39	52	9	ASR, Corner Break, Faulting, Joint Seal Damage, LTD Cracking
TH01DN	03	PCC	13,817	2/3/2004	82	30	53	17	Corner Break, Corner Spalling, Joint Seal Damage, LTD Cracking, Scaling, Shrinkage Cracking
TH01DN	04	PCC	2,487	10/3/2024	95	0	43	57	Joint Seal Damage, Shrinkage Cracking

Table Notes:

- 1. See Figure 3 for the location of the branch and section.
- 2. Surface Type: AC = asphalt cement concrete; AAC = asphalt overlay on AC; PCC = portland cement concrete; APC = asphalt overlay on PCC.
- LCD = last construction date.
- 4. Distress due to load includes distress types that are attributed to a structural deficiency in the pavement, such as alligator cracking or rutting on asphalt-surfaced pavements or shattered slabs on PCC pavements.
- 5. Distress due to climate or durability includes distress types that are attributed to either the aging of the pavement and the effects of the environment (such as weathering, raveling, or block cracking on asphalt-surfaced pavements) or to a materials-related problem (such as durability cracking or alkali-silica reaction [ASR] on PCC pavements). If materials-related distresses were recorded during the inspection, further laboratory testing is required to definitively determine the type present.
- 6. Distress due to other refers to distress types that are not attributed to one factor but rather may be caused by a combination of factors.
- 7. Distress types are defined by ASTM D5340. L&T cracking = longitudinal and transverse cracking; LTD cracking = longitudinal, transverse, and diagonal cracking; ASR = alkali-silica reaction.

Inspection Comments

Denison Municipal Airport was inspected on March 15, 2025. There were 19 pavement sections defined during the inspection. Alkali-silica reaction (ASR) was recorded at this airport according to the PCI procedure. The ASR was recorded where evidence of a precipitate was observed within some of the cracking in the PCC surface. It should be noted that laboratory testing in the form of petrographic analysis is the only definitive way to validate the presence of ASR; however, the formation of a precipitate is evidence of a reaction consistent with this type of materials-related distress.

Runway

Runway 12/30 consisted of seven sections. Section 01 contained majority of the runway. Various distresses were observed including small amounts of low-severity ASR; low- and medium-severity corner spalling, faulting, joint spalling, and longitudinal, transverse, and diagonal (LTD) cracking; shrinkage cracking; and high-severity small patching, along with highseverity joint seal damage that was recorded throughout the section. An atypical area with a medium-severity shattered slab was identified and recorded as an additional sample unit according to ASTM D5340. Section 02, the eastern portion of the runway, contained all severities of faulting; high-severity joint seal damage; low- and medium-severity joint spalling; and medium-severity shattered slab. An atypical area with medium- and high-severity ASR was observed and recorded as an additional sample unit according to ASTM D5340. Sections 03, 04, 05, and 06 were turnaround areas along Runway 12/30. Section 03 was located at the Runway 12 approach turnaround. In Section 03, low-severity corner break, faulting, and joint spalling; medium-severity corner spalling; medium- and high-severity joint seal damage; and low- and medium-severity LTD cracking were identified. Multiple distresses were recorded in Section 04 including low- and medium-severity ASR, joint spalling, and large patching; mediumseverity corner break and corner spalling; low-severity faulting; medium- and high-severity joint seal damage and shattered slab; all severities of LTD cracking; and shrinkage cracking. Section 05 contained medium-severity faulting, along with medium-severity joint seal damage and lowseverity joint spalling and LTD cracking. Distresses noted in Section 06 included low-severity corner break and faulting, high-severity joint seal damage and small patching, low- and mediumseverity joint spalling, medium-severity LTD cracking, and shrinkage cracking. In Section 07, low-severity corner break and faulting, high-severity joint seal damage, low- and mediumseverity joint spalling, medium-severity LTD cracking, and shrinkage cracking were observed.

Taxiway

The taxiway contained six sections. Low-severity LTD cracking was observed in Section 01 along with medium- and high-severity joint seal damage. Low-severity ASR and high-severity joint seal damage were identified in Section 02. Various distresses were recorded in Section 03 including high-severity joint seal damage; low- and medium-severity scaling; and low-severity corner spalling, joint spalling, and large patching. In Section 04, low-severity faulting and high-severity joint seal damage were observed. Multiple distresses were recorded in Section 05 that included low-severity corner spalling and LTD cracking, high-severity joint seal damage, low-and medium-severity scaling, and shrinkage cracking. Section 06 contained areas of low-severity faulting, high-severity joint seal damage, low- and medium-severity joint spalling, and medium-severity LTD cracking.

Apron

The apron area was defined by two sections. Medium-severity corner break, low-severity faulting, high-severity joint seal damage, and low- and medium-severity LTD cracking were identified in Section 01. Low- and medium-severity corner break, corner spalling, LTD cracking,

and faulting; medium- and high-severity joint seal damage; and medium-severity joint spalling were recorded in Section 02 during the inspection.

T-Hangar

The T-hangar area consisted of four sections. Medium-severity corner spalling, low-severity faulting and small patching, high-severity joint seal damage, and low- and medium-severity joint spalling and LTD cracking were identified in Section 01. In Section 02, low-severity ASR, faulting, and LTD cracking; medium-severity corner break; and high-severity joint seal damage were recorded. Medium-severity corner break, LTD cracking, and scaling; low-severity corner spalling; high-severity joint seal damage; and shrinkage cracking were identified Section 03. Section 04 was recently constructed with shrinkage cracking and low-severity joint seal damage recorded.

PAVEMENT MAINTENANCE AND REHABILITATION PROGRAM

Using the information collected during the pavement inspection, the PAVER pavement management software was used to develop a 5-year M&R program for Denison Municipal Airport. In addition, a 1-year plan for localized preventive maintenance (such as crack sealing and patching) was prepared.

Analysis Parameters

Critical PCIs

PAVER uses critical PCIs to determine whether localized preventive maintenance or major rehabilitation is the appropriate repair action. Above the critical PCI, localized preventive maintenance activities are recommended. Below the critical PCI, major rehabilitation actions, such as an overlay or reconstruction, are recommended. The lowa DOT set the critical PCIs at 65 for runways, 60 for taxiways, and 55 for aprons and T-hangars.

Localized Preventive Maintenance Policies and Unit Costs

Localized preventive maintenance policies were developed for asphalt-surfaced and PCC pavements. These policies, shown in Appendix E, identify the localized preventive maintenance actions that the lowa DOT considered appropriate to correct the different distress types and severities. The lowa DOT provided unit costs for each of the localized preventive maintenance actions included in these policies, and these costs are detailed in Appendix E. Please note that this information is of a general nature for the entire State. The localized preventive maintenance policies and unit costs may require adjustments to reflect specific conditions at Denison Municipal Airport.

Major Rehabilitation Unit Costs

PAVER estimates the cost of major rehabilitation based on the predicted PCI of the pavement section. The lowa DOT provided the costs for major rehabilitation, and they are presented in Appendix E. If major rehabilitation is recommended in the 5-year program, further engineering investigation will be needed to identify the most appropriate rehabilitation action and to estimate the cost of such work more accurately.

Budget and Inflation Rate

An unlimited budget with a start date of July 1, 2025, and an inflation rate of 2.3 percent was used during the analysis.

Analysis Approach

The 5-year M&R program was prepared with the goal of maintaining the pavements above established critical PCIs. During this analysis, major rehabilitation was recommended for pavements in the year they dropped below their critical PCI. For the first year (2025) of the analysis only, a localized preventive maintenance plan was developed for those pavement sections that were above their critical PCI. If major rehabilitation was triggered for a section in 2026 or 2027, then localized preventive maintenance was not recommended for 2025. While localized preventive maintenance should be an annual undertaking at Denison Municipal Airport, it is not possible to accurately predict the propagation of cracking and other distress types. Therefore, the airport should budget for maintenance every year and can use the 2025 localized preventive maintenance plan as a baseline for that work. As the pavements age, it can be assumed that the amount of localized preventive maintenance required will increase.

Analysis Results

A summary of the M&R program for Denison Municipal Airport is presented in Table 2. Detailed information on the recommended localized preventive maintenance plan for 2025 is provided in Appendix F.

Table 2. 5-year M&R program under an unlimited funding analysis scenario.

Year	Branch	Section	Surface Type	Type of Repair	Estimated Cost
2025	A01DN	01	PCC	Preventive Maintenance	\$16,437
2025	A01DN	02	PCC	Preventive Maintenance	\$21,869
2025	R12DN	01	PCC	Preventive Maintenance	\$174,212
2025	R12DN	02	PCC	Preventive Maintenance	\$57,106
2025	R12DN	03	PCC	Preventive Maintenance	\$7,124
2025	R12DN	04	PCC	Major Rehabilitation	\$285,052
2025	R12DN	05	PCC	Preventive Maintenance	\$4,116
2025	R12DN	06	PCC	Preventive Maintenance	\$4,178
2025	R12DN	07	PCC	Major Rehabilitation	\$40,450
2025	T01DN	01	PCC	Preventive Maintenance	\$2,821
2025	T01DN	02	PCC	Preventive Maintenance	\$241
2025	T01DN	03	PCC	Preventive Maintenance	\$11,902
2025	T01DN	04	PCC	Preventive Maintenance	\$496
2025	T01DN	05	PCC	Preventive Maintenance	\$2,357
2025	T01DN	06	PCC	Preventive Maintenance	\$1,284
2025	TH01DN	01	PCC	Preventive Maintenance	\$5,230
2025	TH01DN	02	PCC	Preventive Maintenance	\$6,597
2025	TH01DN	03	PCC	Preventive Maintenance	\$13,884
2029	T01DN	05	PCC	Major Rehabilitation	\$16,852

Total Estimated Cost: \$672,000

Table Notes:

- 1. See Figure 3 for the location of the branch and section.
- 2. Surface Type: AC = asphalt cement concrete; AAC = asphalt overlay on AC; PCC = portland cement concrete; APC = asphalt overlay on PCC.
- 3. Type of Repair: Major Rehabilitation, such as pavement reconstruction or an overlay; Localized Preventive Maintenance, such as crack sealing or patching.
- 4. The estimated costs provided are of a general nature for the entire State and may require adjustments to reflect specific conditions at Denison Municipal Airport.

The recommendations made in this report are based on a broad network-level analysis and meant to provide Denison Municipal Airport with an indication of the type of pavement-related work required during the next 5 years. Further engineering investigation may be necessary to identify which repair action is most appropriate. In addition, the cost estimates provided are based on overall unit costs for the entire State, and Denison Municipal Airport should adjust the plan to reflect local costs.

Because an unlimited budget was used in the analysis, it is possible that the pavement repair program may need to be adjusted to consider economic or operational constraints. The identification of a project need does not necessarily mean that State or Federal funding will be

available in the year it is indicated. It is important to remember that regardless of the recommendations presented within this report, Denison Municipal Airport is responsible for repairing pavements where existing conditions pose a hazard to safe operations.

General Maintenance Recommendations

In addition to the specific maintenance actions presented in Appendix F, it is recommended that the following strategies be considered for prolonging pavement life:

- 1. Regularly inspect all safety areas of the airport and document all inspection activity. A sample form that can be used to perform these inspections is provided in Table 3 of this report.
- Provide a method of tracking all maintenance activities that occur because of these inspections. This documentation needs to be reported to the FAA and the lowa DOT. This information is used to update the APMS records and is required to remain in compliance with Public Law 103-305 (see the next section of this report for further information on this law).
- 3. Conduct an aggressive campaign against weed growth through timely herbicide applications and mowing programs of the safety areas. Vegetation growth in pavement cracks is destructive and significantly increases the rate of pavement deterioration.
- 4. Implement a periodic crack and joint sealing program. Keeping water and debris out of the pavement system by sealing cracks and joints is a proven and cost-effective method for extending the life of the pavement system.
- 5. Ensure all edges of pavement maintain the required 1.5-inch lip. This enables the water to drain away from the pavement system.
- 6. Closely monitor the movement of heavy equipment (particularly farming, construction, mowing, and fueling equipment) to make sure it is only operating on pavements that are designed to accommodate heavy loads. Failure to restrict heavy equipment to appropriate areas may result in the premature failure of airport pavements.

FAA Requirements (Public Law 103-305)

Because Denison Municipal Airport is in the National Plan of Integrated Airport Systems (NPIAS), the airport sponsor is required to keep the airport in a viable operating condition. This includes maintaining airport pavements in accordance with Public Law 103-305. Public Law 103-305 states that after January 1, 1995, NPIAS airport sponsors must provide assurances or certifications that an airport has implemented an effective airport pavement maintenance management system (PMMS) before the airport will be considered for Federal funding of pavement replacement or reconstruction projects. To be in full compliance with the Federal law, the PMMS must include the following components at minimum: pavement inventory, pavement inspections, record keeping, information retrieval, and program funding.

This report serves as a complete pavement inventory and detailed inspection. To remain in compliance with the law, Denison Municipal Airport will also need to undertake monthly drive-by inspections of pavement conditions and track pavement-related maintenance activities.

FAA Advisory Circular 150/5380-7B provides detailed guidance pertaining to the requirements for an acceptable pavement management program. Appendix A of the FAA Advisory Circular 150/5380-7B outlines what needs to be included in a PMP to remain in compliance with this law and Grant Assurance #11. The following is a copy of this appendix, along with instructions for supplementing this report so that all requirements are met. Note that the italicized text is a direct quotation from the FAA Advisory Circular.

FAA Advisory Circular 150/5830-7B, Appendix A. Pavement Management Program

A-1.0. An effective PMP specifies the procedures to follow to assure that proper preventative and remedial pavement maintenance is performed. The program should identify funding or anticipated funding and other resources available to provide remedial and preventive maintenance activities. An airport sponsor may use any format deemed appropriate, but the program needs to, as a minimum, include the following:

A-1.1. Pavement Inventory. The following must be depicted:

a. Identification of all runways, taxiways, and aprons with pavement broken down into sections each having similar properties.

The network definition map provided in Figure 3 of this report shows the location of all runways, taxiways, aprons, and T-hangars at Denison Municipal Airport. If any new pavements are constructed or any pavement areas are permanently closed, this map must be updated. Project plans should be submitted to the lowa DOT after project completion.

b. Dimensions of pavement sections.

The dimensions of all runways, taxiways, aprons, and T-hangars are stored in the PAVER database. Appendix C provides information on length, width, and area. In addition, the network definition map provided in Figure 3 is drawn to scale. Any changes to pavement dimensions must be recorded.

c. Type of pavement surface.

The type of pavement for each section at Denison Municipal Airport is listed in Table 1 of this report and is also stored in the PAVER database. Any changes to the pavement type (through an overlay or reconstruction) must be recorded.

d. Year of construction and/or most recent major rehabilitation.

Dates for pavement construction, rehabilitation, or reconstruction must be recorded. The current pavement history for Denison Municipal Airport is provided in Appendix D of this report.

e. Whether AIP [Airport Improvement Program] or PFC [Passenger Facility Charge] funds were used to construct, reconstruct, or repair the pavement.

Funding sources for all pavement projects should be recorded.

A-1.2. PMP Pavement Inspection Schedule. Airports must perform a detailed inspection of airfield pavements at least once a year for the PMP. If a pavement condition index (PCI) survey is performed, as set forth in ASTM D5340, "Standard Test Method for Airport Pavement Condition Index Surveys," the frequency of the detailed inspection by PCI surveys may be extended to three years. Less comprehensive routine daily, weekly, and monthly maintenance inspections required for operations should be addressed.

This report consists of a detailed inspection that will extend the inspection period to 3 years. It is the airport sponsor's responsibility to perform monthly drive-by inspections. A sample pavement inspection report form is provided in Table 3 of this report.

A-1.3. Record Keeping. The airport must record and keep on file complete information about all detailed inspections and maintenance performed until the pavement system is replaced. The

types of distress, their locations, and remedial action, scheduled or performed, must be documented. The minimum information recorded includes:

- a. Inspection date
- b. Location
- c. Distress types
- d. Maintenance scheduled or performed

Items A through C are satisfied by this inspection report. Item D is the responsibility of the airport, as is record keeping of the monthly drive-by inspections.

A-1.4. Information Retrieval. An airport sponsor may use any form of record keeping it deems appropriate so long as the information and records from the pavement survey can generate required reports, as necessary.

Keep this report, monthly drive-by inspection reports, construction updates, and all records of maintenance activities in a readily accessible location so that they can be easily retrieved as requested by the FAA.

Table 3. Pavement inspection report.

Inspected By:	
Date Inspected:	

Branch	Section	Distress Description/Dimensions/Severity/ Recommended Action	Description of Repair	Date Performed	Cost	Funding Source
A01DN	01					
A01DN	02					
R12DN	01					
R12DN	02					
R12DN	03					
R12DN	04					

Table 3. Pavement inspection report (continued)

Inspected By:	
Date Inspected:	

Branch	Section	Distress Description/Dimensions/Severity/ Recommended Action	Description of Repair	Date Performed	Cost	Funding Source
R12DN	05					
R12DN	06					
R12DN	07					
T01DN	01					
T01DN	02					
T01DN	03					

Date Inspected:

Branch	Section	Distress Description/Dimensions/Severity/ Recommended Action	Description of Repair	Date Performed	Cost	Funding Source
T01DN	04					
T01DN	05					
T01DN	06					
TH01DN	01					
TH01DN	02					
TH01DN	03					

Table 3. Pavement inspection	report ((continued))
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Inspected By:		
Date Inspected:		

Branch	Section	Distress Description/Dimensions/Severity/ Recommended Action	Description of Repair	Date Performed	Cost	Funding Source
TH01DN	04					

Table Note: See Figure 3 for the location of the branch and section.

Summary August 2025

SUMMARY

This report documents the results of the pavement evaluation conducted at Denison Municipal Airport. A visual inspection of the pavements in 2025 found that the overall condition of the pavement network is a PCI of 76. A 5-year pavement repair program, shown in Table 2, was generated for Denison Municipal Airport, which revealed that approximately \$672,000 needs to be expended on M&R. Denison Municipal Airport should utilize these study results to assist in planning for future maintenance needs as part of the airport CIP planning process.

References August 2025

REFERENCES

ASTM International (ASTM). Standard Test Method for Airport Pavement Condition Index Surveys. D5340. ASTM International, West Conshohocken, PA.

Federal Aviation Administration Authorization Act of 1994. Public Law No. 103-305. Vol 108 Stat. 1569. 1994.

Federal Aviation Administration (FAA). <u>Guidelines and Procedures for Maintenance of Airport Pavements</u>. Advisory Circular 150/5380-6C. Federal Aviation Administration, Washington, DC.

Federal Aviation Administration (FAA). <u>Airport Pavement Management Program (PMP)</u>. Advisory Circular 150/5380-7B. Federal Aviation Administration, Washington, DC.

US Army Corps of Engineers (USACE). 2009. <u>Asphalt Surfaced Airfields</u>. PAVER Distress Identification Manual. USACE, Washington, DC.

US Army Corps of Engineers (USACE). 2009. <u>Concrete Surfaced Airfields</u>. PAVER Distress Identification Manual. USACE, Washington, DC.

US Army Corps of Engineers (USACE). 2021. PAVER. (Software). US Army Corps of Engineers, Transportation Systems Center, Omaha, NE.

APPENDIX A CAUSE OF DISTRESS TABLES

Cause of Distress Tables August 2025

Table A-1. Cause of pavement distress, asphalt-surfaced pavements (USACE 2009a).

Distress Type	Probable Cause of Distress
Alligator Cracking	Fatigue failure of the asphalt surface under repeated traffic loading.
Bleeding	Excessive amounts of asphalt cement or tars in the mix or low air void content, or both.
Block Cracking	Shrinkage of the asphalt and daily temperature cycling; it is not load associated.
Corrugation	Traffic action combined with an unstable pavement layer.
Depression	Settlement of the foundation soil or can be "built up" during construction.
Jet-Blast Erosion	Bituminous binder has been burned or carbonized.
Joint Reflection Cracking	Movement of the concrete slab beneath the asphalt surface due to thermal and moisture changes.
L&T Cracking	Cracks may be caused by (1) a poorly constructed paving lane joint, (2) shrinkage of the asphalt surface due to low temperatures or hardening of the asphalt, or (3) reflective cracking caused by cracks in an underlying PCC slab.
Oil Spillage	Deterioration or softening of the pavement surface caused by the spilling of oil, fuel, or other solvents.
Patching	N/A
Polished Aggregate	Repeated traffic applications.
Raveling	Asphalt binder may have hardened significantly, causing coarse aggregate pieces to dislodge.
Rutting	Usually caused by consolidation or lateral movement of the materials due to traffic loads.
Shoving	Where PCC pavements adjoin flexible pavements, PCC "growth" may shove the asphalt pavement.
Slippage Cracking	Low-strength surface mix or poor bond between the surface and the next layer of the pavement structure.
Swelling	Usually caused by frost action or by swelling soil.
Weathering	Asphalt binder and/or fine aggregate may wear away as the pavement ages and hardens.

Cause of Distress Tables August 2025

Table A-2. Cause of pavement distress, PCC pavements (USACE 2009b).

Distress Type	Probable Cause of Distress
ASR	Chemical reaction of alkalis in the cement with certain reactive silica minerals. ASR may be accelerated by the use of chemical pavement deicers.
Blowup	Incompressible materials in the joints.
Corner Break	Load repetition combined with loss of support and curling stresses.
Durability Cracking	Concrete's inability to withstand environmental factors, such as freeze-thaw cycles.
Faulting	Upheaval or consolidation.
Joint Seal Damage	Stripping of joint sealant, extrusion of joint sealant, weed growth, hardening of the filler (oxidation), loss of bond to the slab edges, or absence of sealant in the joint.
LTD Cracking	Combination of load repetition, curling stresses, and shrinkage stresses.
Patching (Small and Large)	N/A
Popouts	Freeze-thaw action in combination with expansive aggregates.
Pumping	Poor drainage, poor joint sealant.
Scaling	Over finishing of concrete, deicing salts, improper construction, freeze-thaw cycles, and poor aggregate.
Shattered Slab	Load repetition.
Shrinkage Cracking	Setting and curing of the concrete.
Spalling (Joint and Corner)	Excessive stresses at the joint caused by infiltration of incompressible materials or traffic loads; weak concrete at the joint combined with traffic loads.

APPENDIX B INSPECTION PHOTOGRAPHS

A01DN-01. Overview.



A01DN-01. Corner Break (Sample Unit No. 04).



A01DN-01. LTD Cracking (Sample Unit No. 04).



A01DN-02. Overview.



A01DN-02. Joint Seal Damage (Sample Unit No. 08).



A01DN-02. Joint Spalling (Sample Unit No. 06).



A01DN-02. LTD Cracking (Sample Unit No. 03).



A01DN-02. LTD Cracking (Sample Unit No. 08).



R12DN-01. Overview.



R12DN-01. ASR (Additional Sample Unit No. 36).



R12DN-01. Joint Spalling (Sample Unit No. 13).



R12DN-01. Shattered Slab (Additional Sample Unit No. 36).



R12DN-01. Small Patching (Sample Unit No. 35).



R12DN-02. Overview.



R12DN-02. ASR (Additional Sample Unit No. 15).



R12DN-02. Faulting (Sample Unit No. 02).



R12DN-02. Joint Seal Damage (Sample Unit No. 09).



R12DN-03. Overview.



R12DN-03. Faulting (Sample Unit No. 01).



R12DN-03. LTD Cracking (Sample Unit No. 01).



R12DN-04. Overview.



R12DN-04. ASR (Sample Unit No. 01).



R12DN-04. Large Patching (Sample Unit No. 02).



R12DN-05. Overview.



R12DN-05. Faulting (Sample Unit No. 02).



R12DN-05. Joint Seal Damage (Sample Unit No. 02).



R12DN-06. Overview.



R12DN-06. Joint Spalling (Sample Unit No. 01).



R12DN-06. LTD Cracking (Sample Unit No. 02).



R12DN-07. Overview.



R12DN-07. Joint Spalling (Sample Unit No. 01).



R12DN-07. LTD Cracking (Sample Unit No. 01).



T01DN-01. Overview.



T01DN-01. Joint Seal Damage (Sample Unit No. 02).



T01DN-01. LTD Cracking (Sample Unit No. 02).



T01DN-02. Overview.



T01DN-02. ASR (Sample Unit No. 01).



T01DN-02. Joint Seal Damage (Sample Unit No. 01).



T01DN-03. Overview.



T01DN-03. Large Patching (Sample Unit No. 02).



T01DN-03. Scaling (Sample Unit No. 01).



T01DN-04. Overview.



T01DN-04. Faulting (Sample Unit No. 01).



T01DN-04. Joint Seal Damage (Sample Unit No. 01).



T01DN-05. Overview.



T01DN-05 Scaling. (Sample Unit No. 01).



T01DN-05. Shrinkage Cracking (Sample Unit No. 01).



T01DN-06. Overview.



T01DN-06. Joint Seal Damage (Sample Unit No. 01).



T01DN-06. LTD Cracking (Sample Unit No. 01).



TH01DN-01. Overview.



TH01DN-01. Joint Seal Damage (Sample Unit No. 02).



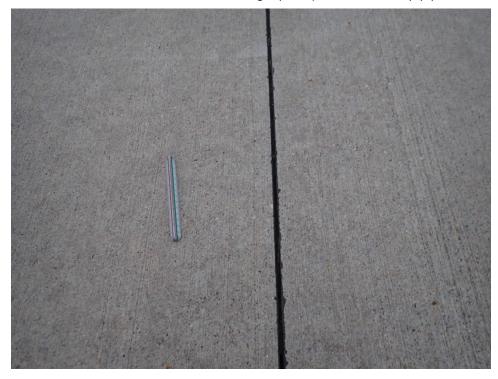
TH01DN-01. LTD Cracking (Sample Unit No. 01).



TH01DN-02. Overview.



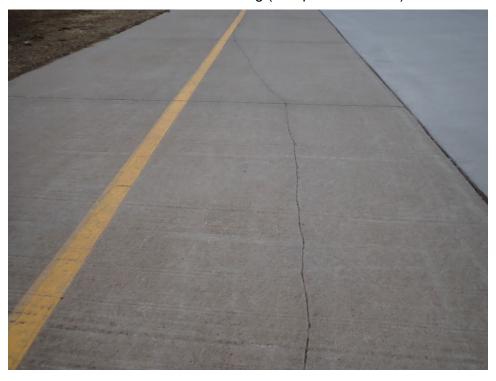
TH01DN-02. Joint Seal Damage (Sample Unit No. 02) (1).



TH01DN-02. Joint Seal Damage (Sample Unit No. 02) (2).



TH01DN-02. LTD Cracking (Sample Unit No. 01).



TH01DN-03. Overview.



TH01DN-03. Corner Break (Sample Unit No. 01).



TH01DN-03. Corner Spalling (Sample Unit No. 03).



TH01DN-03. Scaling (Sample Unit No. 01).



TH01DN-04. Overview.



TH01DN-04. Joint Seal Damage (Sample Unit No. 01).



TH01DN-04. Shrinkage Cracking (Sample Unit No. 01).



APPENDIX C INSPECTION REPORT

Pavement Database: IA 2024 Generate Date: 8/11/2025

Network ID: DNS Page 1

Network ID: DNS			Page ²
	Branch - Section	n ID: A01DN - 001	
Branch Name: APRON 01			Use: APRON
LCD: 6/1/2001 Surface Type: PCC Rank: P Section Area (sf): 30,349.00 Length (ft): 285.00 Width (ft): 105.00 From: ONE END OF APRON To: THE OTHER	ţ	PCI Family: IowaPCCAP_SW	
Slabs: 211 Slab Length (ft): 12.00 Slab Width (ft): 12.00 Joint Length (ft): 4,662.64		Section Comments:	
Last Insp Date: 3/15/2025 PCI: 82 Total Samples: 12 Surveyed: 6	·	nspection Comments:	
Sample Number: 01			
Sample Type: R Sample PCI: 72 Sample Area (Slabs): 21.00		Sample Comments:	
63 LINEAR CR 63 LINEAR CR 65 JT SEAL DMG 71 FAULTING	L M H L	3.00 Slabs 1.00 Slabs 21.00 Slabs 1.00 Slabs	
Sample Number: 02			
Sample Type: R Sample PCI: 84 Sample Area (Slabs): 21.00 65 JT SEAL DMG	н	Sample Comments: 21.00 Slabs	
71 FAULTING Sample Number: 04	L	1.00 Slabs	
Sample Type: R Sample PCI: 77 Sample Area (Slabs): 20.00 62 CORNER BREAK 63 LINEAR CR	M M	Sample Comments: 1.00 Slabs 1.00 Slabs	
65 JT SEAL DMG	Н	20.00 Slabs	
Sample Number: 07 Sample Type: R Sample PCI: 88 Sample Area (Slabs): 20.00	5	Sample Comments:	
65 JT SEAL DMG	Н	20.00 Slabs	
Sample Number: 09			
Sample Type: R Sample PCI: 88	\$	Sample Comments:	

16.00 Slabs

65 JT SEAL DMG H

Sample Area (Slabs): 16.00

Pavement Database: IA 2024 Generate Date: 8/11/2025

Network ID: DNS Page 2

Sample Number: 11

Sample Type: R Sample Comments:

Sample PCI: 88

Sample Area (Slabs): 20.00

65 JT SEAL DMG H 20.00 Slabs

Pavement Database: IA 2024 Generate Date: 8/11/2025

Network ID: DNS Page 3

Network ID: DNS			Page 3
Branch Name: APRON 01	Branch - Section	on ID: A01DN - 002	Use: APRON
LCD: 1/1/1997 Surface Type: PCC Rank: P Section Area (sf): 35,959.00 Length (ft): 210.00 Width (ft): 168.00 From: END OF APRON To: SECTION 01		PCI Family: IowaPCCAP_SW	
Slabs: 250 Slab Length (ft): 12.00 Slab Width (ft): 12.00 Joint Length (ft): 5,607.89		Section Comments:	
Last Insp Date: 3/15/2025 PCI: 71 Total Samples: 13 Surveyed: 6		Inspection Comments:	
Sample Number: 03			
Sample Type: R Sample PCI: 80 Sample Area (Slabs): 16.00		Sample Comments:	
62 CORNER BREAK 63 LINEAR CR 65 JT SEAL DMG	M L M	1.00 Slabs 1.00 Slabs 16.00 Slabs	
Sample Number: 06			
Sample Type: R Sample PCI: 55 Sample Area (Slabs): 25.00		Sample Comments:	
62 CORNER BREAK	L	1.00 Slabs	
62 CORNER BREAK	M	1.00 Slabs	
65 JT SEAL DMG 71 FAULTING	M	25.00 Slabs 7.00 Slabs	
71 FAULTING 71 FAULTING	L M	2.00 Slabs	
74 JOINT SPALL	M	1.00 Slabs	
75 CORNER SPALL	L	1.00 Slabs	
75 CORNER SPALL	M	1.00 Slabs	
Sample Number: 08			
Sample Type: R	Sample Comments:		
Sample PCI: 72			
Sample Area (Slabs): 25.00			
63 LINEAR CR	M	2.00 Slabs	
65 JT SEAL DMG	M	25.00 Slabs	
71 FAULTING	M	1.00 Slabs	
75 CORNER SPALL	L	1.00 Slabs	
Sample Number: 10			
Sample PCI: 93		Sample Comments:	

Μ

20.00 Slabs

Sample Area (Slabs): 20.00 65 JT SEAL DMG

Pavement Database: IA 2024 Generate Date: 8/11/2025

Network ID: DNS Page 4

Sample Number: 11

Sample Type: R Sample Comments:

Sample PCI: 77

Sample Area (Slabs): 16.00

 63 LINEAR CR
 L
 1.00 Slabs

 63 LINEAR CR
 M
 1.00 Slabs

 65 JT SEAL DMG
 M
 16.00 Slabs

Sample Number: 13

Sample Type: R Sample Comments:

Sample PCI: 60

Sample Area (Slabs): 25.00

63 LINEAR CR	L	2.00 Slabs
63 LINEAR CR	M	2.00 Slabs
65 JT SEAL DMG	Н	25.00 Slabs
71 FAULTING	L	3.00 Slabs
71 FAULTING	M	2.00 Slabs
75 CORNER SPALL	L	1.00 Slabs

Pavement Database: IA 2024 Generate Date: 8/11/2025

Network ID: DNS Page 5

Hotmont IB. Bitto			, ago o
Branch Name: RUNWAY 12/30	Branch - Section ID	: R12DN - 001	Use: RUNWAY
LCD: 1/2/1997 Surface Type: PCC Rank: P Section Area (sf): 314,842.00 Length (ft): 4,198.00 Width (ft): 75.00 From: NW END OF RUNWAY	PCI Fa	mily: IowaPCCRW_SW_General	Use: KUNWAY
To: 250' FROM NW END Slabs: 1,679 Slab Length (ft): 15.00 Slab Width (ft): 12.50 Joint Length (ft): 41,903.94	Section	n Comments:	
Last Insp Date: 3/15/2025 PCI: 78 Total Samples: 71 Surveyed: 10	Inspect	tion Comments:	
Sample Number: 04			
Sample Type: R Sample PCI: 83 Sample Area (Slabs): 24.00	Sample	e Comments:	
65 JT SEAL DMG 71 FAULTING	H L	24.00 Slabs 2.00 Slabs	
Sample Number: 13			
Sample Type: R Sample PCI: 82 Sample Area (Slabs): 24.00	Sample	e Comments:	
65 JT SEAL DMG 71 FAULTING 74 JOINT SPALL	H L L	24.00 Slabs 2.00 Slabs 1.00 Slabs	
Sample Number: 22			
Sample Type: R Sample PCI: 84 Sample Area (Slabs): 24.00	Sample	e Comments:	

Sample Area (Slabs): 24.00

65 JT SEAL DMG H 24.00 Slabs 71 FAULTING L 1.00 Slabs

Sample Number: 31

Sample Type: R Sample Comments:

Sample PCI: 88

Sample Area (Slabs): 24.00

65 JT SEAL DMG H 24.00 Slabs

Pavement Database: IA 2024 Generate Date: 8/11/2025 Network ID: DNS Page 6 Sample Number: 35 Sample Type: R Sample Comments: Sample PCI: 50 Sample Area (Slabs): 24.00 63 LINEAR CR Μ 1.00 Slabs 65 JT SEAL DMG 24.00 Slabs Н 66 SMALL PATCH 2.00 Slabs Н 71 FAULTING L 2.00 Slabs 1.00 Slabs 72 SHAT. SLAB Μ 73 SHRINKAGE CR Ν 1.00 Slabs 74 JOINT SPALL Μ 2.00 Slabs **75 CORNER SPALL** Μ 1.00 Slabs 76 ASR L 2.00 Slabs Sample Number: 36 Sample Type: A Sample Comments: Sample PCI: 58 Sample Area (Slabs): 24.00 63 LINEAR CR 1.00 Slabs Μ 65 JT SEAL DMG Н 24.00 Slabs 66 SMALL PATCH Н 3.00 Slabs 72 SHAT, SLAB Μ 1.00 Slabs Ν 1.00 Slabs 73 SHRINKAGE CR 74 JOINT SPALL Μ 1.00 Slabs 76 ASR L 1.00 Slabs Sample Number: 40 Sample Type: R Sample Comments: Sample PCI: 78 Sample Area (Slabs): 24.00 65 JT SEAL DMG 24.00 Slabs Η 71 FAULTING L 2.00 Slabs 71 FAULTING 1.00 Slabs M Sample Number: 49 Sample Type: R Sample Comments: Sample PCI: 88 Sample Area (Slabs): 24.00

Cample Alea (Clabs).	
65 JT SEAL DM	lG

Sample Number: 58

Sample Type: R Sample Comments:

Sample PCI: 82

Sample Area (Slabs): 24.00

65 JT SEAL DMG H 24.00 Slabs 71 FAULTING L 3.00 Slabs

Н

24.00 Slabs

Pavement Database: IA 2024 Generate Date: 8/11/2025

Network ID: DNS Page 7

Sample Number: 67

Sample Type: R Sample Comments:

Sample PCI: 71

Sample Area (Slabs): 24.00

63 LINEAR CR 1.00 Slabs L 63 LINEAR CR Μ 1.00 Slabs 24.00 Slabs 65 JT SEAL DMG Н 74 JOINT SPALL L 1.00 Slabs 2.00 Slabs 75 CORNER SPALL L 75 CORNER SPALL Μ 1.00 Slabs

Pavement Database: IA 2024 Generate Date: 8/11/2025

Network ID: DNS Page 8

Network ID: DNS			Page 8
	Branch - Section	on ID: R12DN - 002	
Branch Name: RUNWAY 12/30			Use: RUNWAY
LCD: 1/3/1997 Surface Type: PCC Rank: P Section Area (sf): 59,248.00 Length (ft): 800.00 Width (ft): 75.00 From: 250' FROM NW END To: 1120' FROM SE END		PCI Family: IowaPCCRW_SW_General	
Slabs: 379 Slab Length (ft): 12.50 Slab Width (ft): 12.50 Joint Length (ft): 8,615.65		Section Comments:	
Last Insp Date: 3/15/2025 PCI: 73 Total Samples: 16 Surveyed: 7		Inspection Comments:	
Sample Number: 02			
Sample Type: R Sample PCI: 62 Sample Area (Slabs): 24.00		Sample Comments:	
65 JT SEAL DMG 71 FAULTING 71 FAULTING 71 FAULTING 74 JOINT SPALL	H H L M M	24.00 Slabs 1.00 Slabs 4.00 Slabs 2.00 Slabs 1.00 Slabs	
Sample Number: 05			
Sample Type: R Sample PCI: 78 Sample Area (Slabs): 24.00		Sample Comments:	
65 JT SEAL DMG 71 FAULTING 71 FAULTING	H L M	24.00 Slabs 2.00 Slabs 1.00 Slabs	
Sample Number: 09			
Sample Type: R Sample PCI: 83 Sample Area (Slabs): 24.00		Sample Comments:	
65 JT SEAL DMG 71 FAULTING 74 JOINT SPALL	H L L	24.00 Slabs 1.00 Slabs 1.00 Slabs	
Sample Number: 12			
Sample Type: R Sample PCI: 82 Sample Area (Slabs): 24.00		Sample Comments:	

Η

24.00 Slabs

3.00 Slabs

65 JT SEAL DMG

71 FAULTING

Pavement Database: IA 2024 Generate Date: 8/11/2025

Network ID: DNS Page 9

Sample Number: 14	4
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Sample Type: R Sample Comments:

Sample PCI: 76

Sample Area (Slabs): 24.00

 65 JT SEAL DMG
 H
 24.00 Slabs

 71 FAULTING
 L
 2.00 Slabs

 71 FAULTING
 M
 2.00 Slabs

Sample Number: 15

Sample Type: A Sample Comments:

Sample PCI: 37

Sample Area (Slabs): 24.00

 65 JT SEAL DMG
 H
 24.00 Slabs

 71 FAULTING
 L
 4.00 Slabs

 76 ASR
 H
 3.00 Slabs

 76 ASR
 M
 2.00 Slabs

Sample Number: 16

Sample Type: R Sample Comments:

Sample PCI: 73

Sample Area (Slabs): 24.00

 65 JT SEAL DMG
 H
 24.00 Slabs

 72 SHAT. SLAB
 M
 1.00 Slabs

 74 JOINT SPALL
 L
 3.00 Slabs

Pavement Database: IA 2024 Generate Date: 8/11/2025

Network ID: DNS Page 10

Network ID: DNS			Page 10
	Branch - Section II	D: R12DN - 003	
Branch Name: RUNWAY 12/30			Use: RUNWAY
LCD: 1/2/1997 Surface Type: PCC Rank: P Section Area (sf): 14,133.00 Length (ft): 350.00 Width (ft): 41.00 From: R12DN-01 To: R12DN-01	PCI F	Family: lowaPCCRW_SW_General	
Slabs: 94 Slab Length (ft): 15.00 Slab Width (ft): 10.00 Joint Length (ft): 1,970.41	Section	on Comments:	
Last Insp Date: 3/15/2025 PCI: 71 Total Samples: 6 Surveyed: 4	Inspe	ection Comments:	
Sample Number: 01			
Sample Type: R Sample PCI: 58 Sample Area (Slabs): 20.00	Samp	ole Comments:	
63 LINEAR CR 65 JT SEAL DMG 71 FAULTING 74 JOINT SPALL	M H L L	4.00 Slabs 20.00 Slabs 4.00 Slabs 1.00 Slabs	
Sample Number: 03			
Sample Type: R Sample PCI: 63 Sample Area (Slabs): 16.00 63 LINEAR CR	Samp M	ole Comments: 4.00 Slabs	
65 JT SEAL DMG	M	16.00 Slabs	
Sample Number: 05			
Sample Type: R Sample PCI: 83 Sample Area (Slabs): 16.00	Samp	ole Comments:	
62 CORNER BREAK 63 LINEAR CR 65 JT SEAL DMG	L L M	1.00 Slabs 1.00 Slabs 16.00 Slabs	
Sample Number: 06			
Sample Type: R Sample PCI: 88 Sample Area (Slabs): 12.00	Samp	ole Comments:	

М

Μ

12.00 Slabs

1.00 Slabs

65 JT SEAL DMG

75 CORNER SPALL

Pavement Database: IA 2024 Generate Date: 8/11/2025

Network ID: DNS Page 11

Network ID. DING			i age i i
Branch Name: RUNWAY 12/30	Branch - Section	n ID: R12DN - 004	Use: RUNWAY
LCD: 1/2/1997 Surface Type: PCC Rank: P Section Area (sf): 15,616.00 Length (ft): 350.00 Width (ft): 41.00 From: R12DN-01 To: R12DN-02	P	CI Family: IowaPCCRW_SW_General	
Slabs: 106 Slab Length (ft): 14.80 Slab Width (ft): 10.00 Joint Length (ft): 2,191.24	Si	ection Comments:	
Last Insp Date: 3/15/2025 PCI: 41 Total Samples: 5 Surveyed: 4	In	spection Comments:	
Sample Number: 01			
Sample Type: R Sample PCI: 39 Sample Area (Slabs): 28.00	Si	ample Comments:	
63 LINEAR CR 63 LINEAR CR 65 JT SEAL DMG 71 FAULTING 74 JOINT SPALL 75 CORNER SPALL 76 ASR	H M M L L M	3.00 Slabs 3.00 Slabs 28.00 Slabs 5.00 Slabs 2.00 Slabs 1.00 Slabs 2.00 Slabs	
Sample Number: 02			
Sample Type: R Sample PCI: 49 Sample Area (Slabs): 20.00	Si	ample Comments:	
63 LINEAR CR 65 JT SEAL DMG 67 LARGE PATCH 67 LARGE PATCH 74 JOINT SPALL 75 CORNER SPALL	M H L M M	4.00 Slabs 20.00 Slabs 6.00 Slabs 1.00 Slabs 1.00 Slabs 1.00 Slabs	
Sample Number: 04			
Sample Type: R Sample PCI: 62 Sample Area (Slabs): 20.00	Sa	ample Comments:	
62 CORNER BREAK 63 LINEAR CR 65 JT SEAL DMG 71 FAULTING 76 ASR	M M H L L	1.00 Slabs 2.00 Slabs 20.00 Slabs 1.00 Slabs 1.00 Slabs	

Pavement Database: IA 2024 Generate Date: 8/11/2025

Network ID: DNS Page 12

Sample Number: 05

Sample Type: R Sample Comments:

Sample PCI: 12

Sample Area (Slabs): 18.00

62 CORNER BREAK	M	1.00 Slabs
63 LINEAR CR	L	2.00 Slabs
65 JT SEAL DMG	Н	18.00 Slabs
72 SHAT. SLAB	Н	4.00 Slabs
72 SHAT. SLAB	M	4.00 Slabs
73 SHRINKAGE CR	N	2.00 Slabs

Pavement Database: IA 2024 Generate Date: 8/11/2025

Network ID: DNS Page 13

Branch - Section ID: R12DN - 005

Branch Name: RUNWAY 12/30 Use: RUNWAY

LCD: 1/3/1997

Surface Type: PCC

Rank: P

Section Area (sf): 7,737.00

Length (ft): 90.00 Width (ft): 80.00 From: R12DN-02

To: ..

Slabs: 66 Section Comments:

Slab Length (ft): 11.70 Slab Width (ft): 10.00 Joint Length (ft): 1,252.30

Last Insp Date: 3/15/2025

PCI: 82 Total Samples: 4 Surveyed: 3

Inspection Comments:

Sample Comments:

Sample Comments:

PCI Family: IowaPCCRW SW General

Sample Number: 02

Sample Type: R

Sample PCI: 68

Sample Area (Slabs): 16.00

65 JT SEAL DMG 16.00 Slabs Μ Μ 4.00 Slabs 71 FAULTING

Sample Number: 03

Sample Type: R

Sample PCI: 91

Sample Area (Slabs): 16.00

65 JT SEAL DMG Μ 16.00 Slabs 74 JOINT SPALL L 1.00 Slabs

Sample Number: 04

Sample Type: R Sample Comments:

Sample PCI: 88

Sample Area (Slabs): 17.00

63 LINEAR CR 1.00 Slabs L 65 JT SEAL DMG Μ 17.00 Slabs

Pavement Database: IA 2024 Generate Date: 8/11/2025

Network ID: DNS

Network ID: DNS			Page 14
	Branch - Section	n ID: R12DN - 006	
Branch Name: RUNWAY 12/30			Use: RUNWAY
LCD: 1/2/1997 Surface Type: PCC Rank: P Section Area (sf): 6,812.00 Length (ft): 60.00 Width (ft): 41.00 From: SEE MAP To: SEE MAP	F	CI Family: lowaPCCRW_SW_General	
Slabs: 51 Slab Length (ft): 12.20 Slab Width (ft): 11.00 Joint Length (ft): 897.95		ection Comments: variable slabs sizes	
Last Insp Date: 3/15/2025 PCI: 70 Total Samples: 2 Surveyed: 2	lr	nspection Comments:	
Sample Number: 01			
Sample Type: R Sample PCI: 77 Sample Area (Slabs): 26.00	S	ample Comments:	
63 LINEAR CR	M	1.00 Slabs	
65 JT SEAL DMG	H	26.00 Slabs	
74 JOINT SPALL	M	4.00 Slabs	
Sample Number: 02			
Sample Type: R Sample PCI: 64 Sample Area (Slabs): 25.00	S	ample Comments:	
62 CORNER BREAK	L	1.00 Slabs	
63 LINEAR CR	M	2.00 Slabs	

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L

65 JT SEAL DMG 66 SMALL PATCH

73 SHRINKAGE CR

74 JOINT SPALL

71 FAULTING

25.00 Slabs

1.00 Slabs

2.00 Slabs

1.00 Slabs

1.00 Slabs

Pavement Database: IA 2024 Generate Date: 8/11/2025

Network ID: DNS Page 15

Branch	- Section	ID: R12DN	- 007
Diancii	- OCCHOIL	ID. IN LEDIN	- 001

Branch Name: RUNWAY 12/30 Use: RUNWAY

LCD: 1/2/1997

Surface Type: PCC

Rank: P

Section Area (sf): 4,535.00 Length (ft): 450.00 Width (ft): 41.00 From: SEE MAP

To: SEE MAP Slabs: 33

Slab Length (ft): 12.50

Slab Width (ft): 11.00 Joint Length (ft): 654.39

Last Insp Date: 3/15/2025

PCI: 52 Total Samples: 2 Surveyed: 2

PCI Family: IowaPCCRW SW General

Section Comments:

Inspection Comments:

Sample Comments:

Sample Number: 01

Sample Type: R

Sample PCI: 49

Sample Area (Slabs): 26.00

62 CORNER BREAK 63 LINEAR CR 65 JT SEAL DMG 71 FAULTING 73 SHRINKAGE CR 74 JOINT SPALL 74 JOINT SPALL

1.00 Slabs L 7.00 Slabs Μ Н 26.00 Slabs L 2.00 Slabs Ν 1.00 Slabs L 1.00 Slabs Μ 1.00 Slabs

Sample Number: 02

Sample Type: R Sample PCI: 65

Sample Area (Slabs): 7.00

63 LINEAR CR 65 JT SEAL DMG 71 FAULTING

Sample Comments:

1.00 Slabs Μ 7.00 Slabs Н L 1.00 Slabs

Pavement Database: IA 2024 Generate Date: 8/11/2025

Network ID: DNS Page 16

Branch - Section ID: T01DN - 001

PCI Family: IowaPCCTW SW General

Branch Name: TAXIWAY 01 Use: TAXIWAY

LCD: 6/1/2001

Surface Type: PCC Rank: P

Section Area (sf): 4,607.00

Length (ft): 58.00 Width (ft): 94.00 From: A01DN-01 To: T01DN-02

Slabs: 53 Section Comments: avg slab

Slab Length (ft): 9.10 Slab Width (ft): 9.50 Joint Length (ft): 862.77

Last Insp Date: 3/15/2025 Inspection Comments:

PCI: 88 Total Samples: 2 Surveyed: 2

Sample Number: 01

Sample Type: R Sample Comments:

Sample PCI: 88

Sample Area (Slabs): 29.00

65 JT SEAL DMG H 29.00 Slabs

Sample Number: 02

Sample Type: R Sample Comments:

Sample PCI: 89

Sample Area (Slabs): 24.00

 63 LINEAR CR
 L
 1.00 Slabs

 65 JT SEAL DMG
 M
 24.00 Slabs

Pavement Database: IA 2024 Generate Date: 8/11/2025

Network ID: DNS Page 17

Branch - Section ID: T01DN - 002

Branch Name: TAXIWAY 01 Use: TAXIWAY

LCD: 1/1/1997

Surface Type: PCC

Rank: P

Slabs: 6

Section Area (sf): 717.00 Length (ft): 18.00 Width (ft): 40.00 From: T01DN-01 To: T01DN-03

Section Comments:

PCI Family: IowaPCCTW_SW_General

Slab Length (ft): 12.00 Slab Width (ft): 10.00 Joint Length (ft): 73.69

Last Insp Date: 3/15/2025

PCI: 81 Total Samples: 1 Surveyed: 1 Inspection Comments:

Sample Number: 01

Sample Type: R

Sample PCI: 81

Sample Area (Slabs): 6.00

65 JT SEAL DMG 76 ASR Sample Comments:

H 6.00 Slabs L 1.00 Slabs

Pavement Database: IA 2024 Generate Date: 8/11/2025

Network ID: DNS Page 18

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Branch	_ Saction	ID: T01DN	_ กกว
Dianti.	- 36661011	ID. IUIDIN	- บบว

Branch Name: TAXIWAY 01 Use: TAXIWAY

LCD: 6/1/1997

Surface Type: PCC

Rank: P

Section Area (sf): 3,843.00 Length (ft): 112.00 Width (ft): 40.00 From: T01DN-02

To: T01DN-04 Slabs: 32

Slab Length (ft): 12.00

Slab Width (ft): 10.00 Joint Length (ft): 574.16

Last Insp Date: 3/15/2025

PCI: 69 Total Samples: 2 Surveyed: 2 PCI Family: IowaPCCTW_SW_General

Section Comments:

Inspection Comments:

Sample Number: 01

Sample Type: R Sample PCI: 70

Sample Area (Slabs): 18.00

65 JT SEAL DMG 70 SCALING

70 SCALING 74 JOINT SPALL 75 CORNER SPALL Sample Comments:

H 18.00 Slabs
L 10.00 Slabs
M 3.00 Slabs
L 1.00 Slabs

2.00 Slabs

Sample Number: 02

Sample Type: R

Sample PCI: 67

Sample Area (Slabs): 14.00

65 JT SEAL DMG 67 LARGE PATCH 70 SCALING 70 SCALING Sample Comments:

L

H 14.00 Slabs
L 1.00 Slabs
L 9.00 Slabs
M 3.00 Slabs

Pavement Database: IA 2024 Generate Date: 8/11/2025

Network ID: DNS Page 19

Branch - Section ID: T01DN - 004

Branch Name: TAXIWAY 01 Use: TAXIWAY

LCD: 6/1/2001 PCI Family: lowaPCCTW_SW_General

Surface Type: PCC Rank: P

Section Area (sf): 1,400.00

Length (ft): 29.00 Width (ft): 40.00 From: T01DN-03 To: T01DN-05

Slabs: 10 Section Comments: avg slabs

Slab Length (ft): 13.00 Slab Width (ft): 11.00 Joint Length (ft): 151.69

Last Insp Date: 3/15/2025 Inspection Comments:

PCI: 78 Total Samples: 1 Surveyed: 1

Sample Number: 01

Sample Type: R Sample Comments:

Sample PCI: 78

Sample Area (Slabs): 10.00

65 JT SEAL DMG H 10.00 Slabs 71 FAULTING L 2.00 Slabs

Pavement Database: IA 2024 Generate Date: 8/11/2025

Network ID: DNS Page 20

Branch - Section ID: T01DN - 005

Branch Name: TAXIWAY 01 Use: TAXIWAY

LCD: 6/1/1997

Surface Type: PCC

Rank: P

Section Area (sf): 1,725.00

Length (ft): 43.00 Width (ft): 40.00 From: T07DN-04 To: R12DN-01

Slabs: 12 Section Comments:

Slab Length (ft): 14.30 Slab Width (ft): 10.00 Joint Length (ft): 209.89

Last Insp Date: 3/15/2025 Inspectio

PCI: 67 Total Samples: 1 Surveyed: 1 Inspection Comments:

PCI Family: IowaPCCTW SW General

Sample Number: 01

Sample Type: R Sample Comments:

Sample PCI: 67

Sample Area (Slabs): 12.00

63 LINEAR CR 1.00 Slabs L 65 JT SEAL DMG Н 12.00 Slabs 70 SCALING L 11.00 Slabs 70 SCALING Μ 1.00 Slabs 73 SHRINKAGE CR Ν 2.00 Slabs 1.00 Slabs **75 CORNER SPALL** L

Pavement Database: IA 2024 Generate Date: 8/11/2025

Network ID: DNS Page 21

Branch - Section ID: T01DN - 006

Branch Name: TAXIWAY 01 Use: TAXIWAY

LCD: 6/1/1997

Surface Type: PCC

Rank: P

Section Area (sf): 2,199.00

Length (ft): 43.00 Width (ft): 40.00 From: SEE MAP To: SEE MAP

Slabs: 18 Section Comments:

Slab Length (ft): 14.00 Slab Width (ft): 8.80 Joint Length (ft): 300.84

Last Insp Date: 3/15/2025

PCI: 70 Total Samples: 1 Surveyed: 1 Inspection Comments:

PCI Family: IowaPCCTW SW General

Sample Number: 01

Sample Type: R Sample Comments:

Sample PCI: 70

Sample Area (Slabs): 18.00

 63 LINEAR CR
 M
 1.00 Slabs

 65 JT SEAL DMG
 H
 18.00 Slabs

 71 FAULTING
 L
 1.00 Slabs

 74 JOINT SPALL
 L
 2.00 Slabs

 74 JOINT SPALL
 M
 1.00 Slabs

Pavement Database: IA 2024 Generate Date: 8/11/2025

Network ID: DNS Page 22

	Branch - Section	n ID: TH01DN - 001	
Branch Name: T-HANGAR 01	Branch - Section	11 ID. 1110 IDIN - 001	Use: T-HANGAR
LCD: 1/1/1989 Surface Type: PCC Rank: P Section Area (sf): 6,765.00 Length (ft): 400.00 Width (ft): 15.00 From: SEE MAP To: SEE MAP		PCI Family: IowaPCCTH_SW	
Slabs: 113 Slab Length (ft): 8.00 Slab Width (ft): 7.50 Joint Length (ft): 1,279.71 Last Insp Date: 3/15/2025		Section Comments: Inspection Comments:	
PCI: 72 Total Samples: 4 Surveyed: 3		moposion commente.	
Sample Number: 01			
Sample Type: R Sample PCI: 40 Sample Area (Slabs): 10.00		Sample Comments:	
63 LINEAR CR 63 LINEAR CR 65 JT SEAL DMG 71 FAULTING	L M H L	2.00 Slabs 5.00 Slabs 10.00 Slabs 1.00 Slabs	
Sample Number: 02			
Sample Type: R Sample PCI: 75 Sample Area (Slabs): 23.00		Sample Comments:	
63 LINEAR CR	L	1.00 Slabs	
65 JT SEAL DMG 71 FAULTING	H L	23.00 Slabs 1.00 Slabs	
74 JOINT SPALL	L	1.00 Slabs	
75 CORNER SPALL	M	1.00 Slabs	
Sample Number: 03			
Sample Type: R Sample PCI: 83 Sample Area (Slabs): 21.00		Sample Comments:	
65 JT SEAL DMG	Н	21.00 Slabs	

L

Μ

1.00 Slabs

1.00 Slabs

66 SMALL PATCH

74 JOINT SPALL

Pavement Database: IA 2024 Generate Date: 8/11/2025

Network ID: DNS Page 23

Network ID: DNS			Page 23
	Branch - Section	n ID: TH01DN - 002	
Branch Name: T-HANGAR 01			Use: T-HANGAR
LCD: 4/4/2014 Surface Type: PCC Rank: P Section Area (sf): 10,670.00 Length (ft): 670.00 Width (ft): 15.00 From: SEE MAP To: SEE MAP		PCI Family: lowaPCCTH_SW	
Slabs: 142 Slab Length (ft): 10.00 Slab Width (ft): 7.50 Joint Length (ft): 1,762.41		Section Comments:	
Last Insp Date: 3/15/2025 PCI: 82 Total Samples: 8 Surveyed: 5		Inspection Comments:	
Sample Number: 01			
Sample Type: R Sample PCI: 74 Sample Area (Slabs): 24.00		Sample Comments:	
63 LINEAR CR 63 LINEAR CR 65 JT SEAL DMG 71 FAULTING	L L H L	1.00 Slabs 5.00 Slabs 24.00 Slabs 1.00 Slabs	
Sample Number: 02			
Sample Type: R Sample PCI: 88 Sample Area (Slabs): 22.00 65 JT SEAL DMG		Sample Comments:	
Sample Number: 03	Н	22.00 Slabs	
Sample Type: R Sample PCI: 88 Sample Area (Slabs): 16.00		Sample Comments:	
65 JT SEAL DMG	Н	16.00 Slabs	
Sample Number: 05		Commis Commission	
Sample Type: R Sample PCI: 78 Sample Area (Slabs): 24.00		Sample Comments:	
62 CORNER BREAK 63 LINEAR CR 65 JT SEAL DMG	M L H	1.00 Slabs 2.00 Slabs 24.00 Slabs	
Sample Number: 08			
Sample Type: R Sample PCI: 83 Sample Area (Slabs): 14.00		Sample Comments:	

L

14.00 Slabs

1.00 Slabs

65 JT SEAL DMG

76 ASR

Pavement Database: IA 2024 Generate Date: 8/11/2025

Network ID: DNS Page 24

Network ID. DNS				Page 22
	Branch - Section	on ID: TH01DN - 003		
Branch Name: T-HANGAR 01				Use: T-HANGAF
LCD: 2/3/2004 Surface Type: PCC Rank: P Section Area (sf): 13,817.00 Length (ft): 337.00 Width (ft): 41.00 From: SEE MAP To: SEE MAP		PCI Family: IowaPCCTH_S	W	
Slabs: 111 Slab Length (ft): 12.50 Slab Width (ft): 10.00 Joint Length (ft): 2,109.06		Section Comments:		
Last Insp Date: 3/15/2025 PCI: 82 Total Samples: 4 Surveyed: 3		Inspection Comments:		
Sample Number: 01				
Sample Type: R Sample PCI: 72 Sample Area (Slabs): 21.00		Sample Comments:		
62 CORNER BREAK	М	1.00	Slabs	
63 LINEAR CR	M	1.00	Slabs	
65 JT SEAL DMG	Н	21.00		
70 SCALING	M	2.00		
73 SHRINKAGE CR	N	1.00	Slabs	
Sample Number: 02				
Sample Type: R		Sample Comments:		
Sample PCI: 88 Sample Area (Slabs): 21.00				
65 JT SEAL DMG	Н	21.00	Slabs	
Sample Number: 03				

Sample Type: R Sample Comments:

Sample PCI: 86

Sample Area (Slabs): 21.00

65 JT SEAL DMG 21.00 Slabs Н 75 CORNER SPALL 1.00 Slabs

Pavement Database: IA 2024 Generate Date: 8/11/2025

Network ID: DNS Page 25

Branch - Section ID: TH01DN - 004

Branch Name: T-HANGAR 01 Use: T-HANGAR

LCD: 10/3/2024 PCI Family: lowaPCCTH_SW

Surface Type: PCC

Rank: P Section Area (sf): 2,487.00

Length (ft): 104.00
Width (ft): 41.00
From: SEE MAP
To: SEE MAP

Slabs: 25 Section Comments:

Slab Length (ft): 10.00 Slab Width (ft): 10.00 Joint Length (ft): 412.83

Last Insp Date: 3/15/2025 Inspection Comments:

PCI: 95 Total Samples: 1 Surveyed: 1

Sample Number: 01

Sample Type: R Sample Comments:

Sample PCI: 95

Sample Area (Slabs): 25.00

 65 JT SEAL DMG
 L
 25.00 Slabs

 73 SHRINKAGE CR
 N
 4.00 Slabs

APPENDIX D WORK HISTORY REPORT

Pavement Database: IA 2024 Generate Date: 6/30/2025

Network ID: DNS Page 1

Network: DENISON MUNICIPAL AIRPORT

Branch - Section ID: A01DN - 001

 LCD: 6/1/2001
 Length (ft):
 285.00

 Use: APRON
 Width (ft):
 105.00

 Rank: P
 True Area (sf):
 30,349.00

Surface: PCC

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major MR	Comments
06-01-2001	CR-PC	Complete Reconstruction - PCC	\$0.00	0.00	True	-
06-30-1964	NC-PC	New Construction - PCC	\$0.00	0.00	True	-

Branch - Section ID: A01DN - 002

 LCD: 1/1/1997
 Length (ft):
 210.00

 Use: APRON
 Width (ft):
 168.00

 Rank: P
 True Area (sf):
 35,959.00

Surface: PCC

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major MR	Comments
06-01-2022	JS-LC	Joint Seal (Localized)	\$0.00	0.00	False	EST
01-01-1997	NC-IN	New Construction - Initial	\$0.00	0.00	True	-

Branch - Section ID: R12DN - 001

 LCD: 1/2/1997
 Length (ft):
 4,198.00

 Use: RUNWAY
 Width (ft):
 75.00

 Rank: P
 True Area (sf):
 314,842.00

 Surface: PCC

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major MR	Comments
06-01-2012	PA-PP	Patching - PCC Partial Depth	\$0.00	0.00	False	EST
01-02-1997	OL-PU	Overlay - PCC Unbonded	\$0.00	6.00	True	WEST 2600' & EAST 1600": 6" P501 PCC WHITETOPPING
01-01-1997	BA-BI	Base Course - Bituminous	\$0.00	1.00	False	WEST 2600' & EAST 1600': 1" P401 AC LEVELING COURSE (BRAKER)
06-03-1964	NC-PC	New Construction - PCC	\$0.00	6.00	True	WEST 2600': 6" P501 PCC; 1969 EXTENSION EAST 1600' 6" P201/ 6" P154
06-02-1964	BA-AG	Base Course - Aggregate	\$0.00	4.00	False	WEST 2600': 4" P208 SUBBASE
06-01-1964	SG-CO	Subgrade - Compacted	\$0.00	6.00	False	WEST 2600': 6"-9" P152 COMPACTED SUBGRADE

Branch - Section ID: R12DN - 002

 LCD: 1/3/1997
 Length (ft):
 800.00

 Use: RUNWAY
 Width (ft):
 75.00

 Rank: P
 True Area (sf):
 59,248.00

 Surface: PCC

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major MR	Comments
01-03-1997	CR-PC	Complete Reconstruction - PCC	\$0.00	6.00	True	6" P501 PCC SURFACE
01-02-1997	BA-AG	Base Course - Aggregate	\$0.00	6.00	False	6" P208 ABC
01-01-1997	SG-CO	Subgrade - Compacted	\$0.00	6.00	False	6" P152 COMPACTED SUBGRADE
06-30-1973	NC-PC	New Construction - PCC	\$0.00	0.00	True	-

Pavement Database: IA 2024 Generate Date: 6/30/2025

Network ID: DNS Page 2

Branch - Section ID: R12DN - 003

 LCD: 1/2/1997
 Length (ft):
 350.00

 Use: RUNWAY
 Width (ft):
 41.00

 Rank: P
 True Area (sf):
 14,133.00

Surface: PCC

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major MR	Comments
06-01-2019	SL-PC	Slab Replacement - PCC	\$0.00	0.00	False	field est.
10-01-2008	JS-LC	Joint Seal (Localized)	\$0.00	0.00	False	State Funding - Total Amount \$34,000
10-01-2008	SL-PC	Slab Replacement - PCC	\$0.00	0.00	False	State Funding - Total Amount \$34,000
01-02-1997	OL-PU	Overlay - PCC Unbonded	\$0.00	6.00	True	6" P501 PCC OVERLAY
01-01-1997	BA-BI	Base Course - Bituminous	\$0.00	1.00	False	1" P401 AC BOND BREAKER
01-03-1963	CR-PC	Complete Reconstruction - PCC	\$0.00	6.00	True	6" P501 PCC SURFACE
01-02-1963	BA-AG	Base Course - Aggregate	\$0.00	4.00	False	4" P208 ABC
01-01-1963	SG-CO	Subgrade - Compacted	\$0.00	6.00	False	6" P152 COMPACTED SUBGRADE

Branch - Section ID: R12DN - 004

 LCD: 1/2/1997
 Length (ft):
 350.00

 Use: RUNWAY
 Width (ft):
 41.00

 Rank: P
 True Area (sf):
 15,616.00

Surface: PCC

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major MR	Comments
06-01-2022	PA-PF	Patching - PCC Full Depth	\$0.00	0.00	False	Est
10-01-2008	SL-PC	Slab Replacement - PCC	\$0.00	0.00	False	State Funding - Total Amount \$34,000
10-01-2008	JS-LC	Joint Seal (Localized)	\$0.00	0.00	False	State Funding - Total Amount \$34,000
10-01-2008	PA-PF	Patching - PCC Full Depth	\$0.00	0.00	False	FIELD EST
01-02-1997	OL-PU	Overlay - PCC Unbonded	\$0.00	6.00	True	6" P501 PCC OVERLAY
01-01-1997	BA-BI	Base Course - Bituminous	\$0.00	1.00	False	1" P401 AC BOND BREAKER
01-03-1968	NC-PC	New Construction - PCC	\$0.00	6.00	True	6" P501 PCC SURFACE
01-02-1968	SB-AG	Subbase - Aggregate	\$0.00	6.00	False	6" P154 SUBBASE
01-01-1968	SG-CO	Subgrade - Compacted	\$0.00	6.00	False	6" P152 COMPACTED SUBGRADE

Branch - Section ID: R12DN - 005

 LCD: 1/3/1997
 Length (ft):
 90.00

 Use: RUNWAY
 Width (ft):
 80.00

 Rank: P
 True Area (sf):
 7,737.00

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major MR	Comments
01-03-1997	NC-PC	New Construction - PCC	\$0.00	6.00	True	6" P501 PCC
01-02-1997	BA-AG	Base Course - Aggregate	\$0.00	6.00	False	6" P208 BASE
01-01-1997	SG-CO	Subgrade - Compacted	\$0.00	6.00	False	6" P152 COMPACTED SUBGRADE

Pavement Database: IA 2024 Generate Date: 6/30/2025

Network ID: DNS Page 3

Branch - Section ID: R12DN - 006

 LCD: 1/2/1997
 Length (ft):
 60.00

 Use: RUNWAY
 Width (ft):
 41.00

 Rank: P
 True Area (sf):
 6,812.00

Surface: PCC

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major MR	Comments
10-01-2008	JS-LC	Joint Seal (Localized)	\$0.00	0.00	False	State Funding - Total Amount \$34,000
10-01-2008	SL-PC	Slab Replacement - PCC	\$0.00	0.00	False	State Funding - Total Amount \$34,000
01-02-1997	OL-PU	Overlay - PCC Unbonded	\$0.00	6.00	True	6" P501 PCC OVERLAY
01-01-1997	BA-BI	Base Course - Bituminous	\$0.00	1.00	False	1" P401 AC BOND BREAKER
01-03-1963	CR-PC	Complete Reconstruction - PCC	\$0.00	6.00	True	6" P501 PCC SURFACE
01-02-1963	BA-AG	Base Course - Aggregate	\$0.00	4.00	False	4" P208 ABC
01-01-1963	SG-CO	Subgrade - Compacted	\$0.00	6.00	False	6" P152 COMPACTED SUBGRADE

Branch - Section ID: R12DN - 007

 LCD: 1/2/1997
 Length (ft):
 450.00

 Use: RUNWAY
 Width (ft):
 41.00

 Rank: P
 True Area (sf):
 4,535.00

Surface: PCC

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major MR	Comments
10-01-2008	JS-LC	Joint Seal (Localized)	\$0.00	0.00	False	State Funding - Total Amount \$34,000
10-01-2008	PA-PF	Patching - PCC Full Depth	\$0.00	0.00	False	FIELD EST
10-01-2008	SL-PC	Slab Replacement - PCC	\$0.00	0.00	False	State Funding - Total Amount \$34,000
01-02-1997	OL-PU	Overlay - PCC Unbonded	\$0.00	6.00	True	6" P501 PCC OVERLAY
01-01-1997	BA-BI	Base Course - Bituminous	\$0.00	1.00	False	1" P401 AC BOND BREAKER
01-03-1968	NC-PC	New Construction - PCC	\$0.00	6.00	True	6" P501 PCC SURFACE
01-02-1968	SB-AG	Subbase - Aggregate	\$0.00	6.00	False	6" P154 SUBBASE
01-01-1968	SG-CO	Subgrade - Compacted	\$0.00	6.00	False	6" P152 COMPACTED SUBGRADE

Branch - Section ID: T01DN - 001

 LCD: 6/1/2001
 Length (ft):
 58.00

 Use: TAXIWAY
 Width (ft):
 94.00

 Rank: P
 True Area (sf):
 4,607.00

Surface: PCC

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major MR	Comments
06-01-2009	SL-PC	Slab Replacement - PCC	\$0.00	0.00	False	-
06-01-2001	CR-PC	Complete Reconstruction - PCC	\$0.00	0.00	True	-
06-30-1973	NC-PC	New Construction - PCC	\$0.00	0.00	True	EST

Branch - Section ID: T01DN - 002

 LCD: 1/1/1997
 Length (ft):
 18.00

 Use: TAXIWAY
 Width (ft):
 40.00

 Rank: P
 True Area (sf):
 717.00

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major MR	Comments
01-01-1997	NC-IN	New Construction - Initial	\$0.00	0.00	True	-

Pavement Database: IA 2024 Generate Date: 6/30/2025

Network ID: DNS Page 4

Branch - Section ID: T01DN - 003

 LCD: 6/1/1997
 Length (ft):
 112.00

 Use: TAXIWAY
 Width (ft):
 40.00

 Rank: P
 True Area (sf):
 3,843.00

Surface: PCC

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major MR	Comments
01-01-2020	SL-PC	Slab Replacement - PCC	\$0.00	0.00	False	EST.
06-01-1997	NC-IN	New Construction - Initial	\$0.00	0.00	True	-

Branch - Section ID: T01DN - 004

 LCD: 6/1/2001
 Length (ft):
 29.00

 Use: TAXIWAY
 Width (ft):
 40.00

 Rank: P
 True Area (sf):
 1,400.00

Surface: PCC

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major MR	Comments
06-01-2001	NC-IN	New Construction - Initial	\$0.00	0.00	True	-

Branch - Section ID: T01DN - 005

 LCD: 6/1/1997
 Length (ft):
 43.00

 Use: TAXIWAY
 Width (ft):
 40.00

 Rank: P
 True Area (sf):
 1,725.00

Surface: PCC

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major MR	Comments
10-01-2008	SL-PC	Slab Replacement - PCC	\$0.00	0.00	False	State Funding - Total Amount \$34,000
06-01-1997	NC-IN	New Construction - Initial	\$0.00	0.00	True	-

Branch - Section ID: T01DN - 006

 LCD: 6/1/1997
 Length (ft):
 43.00

 Use: TAXIWAY
 Width (ft):
 40.00

 Rank: P
 True Area (sf):
 2,199.00

Surface: PCC

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major MR	Comments
10-01-2008	SL-PC	Slab Replacement - PCC	\$0.00	0.00	False	State Funding - Total Amount \$34,000
06-01-1997	NC-IN	New Construction - Initial	\$0.00	0.00	True	-

Branch - Section ID: TH01DN - 001

 LCD: 1/1/1989
 Length (ft):
 400.00

 Use: T-HANGAR
 Width (ft):
 15.00

 Rank: P
 True Area (sf):
 6,765.00

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major MR	Comments
01-01-1989	NC-PC	New Construction - PCC	\$0.00	0.00	True	DATE UNKNOWN; CONSTRUCTED PRIOR TO 1994 IMAGERY

Pavement Database: IA 2024 Generate Date: 6/30/2025

Network ID: DNS Page 5

Branch - Section ID: TH01DN - 002

 LCD: 4/4/2014
 Length (ft):
 670.00

 Use: T-HANGAR
 Width (ft):
 15.00

 Rank: P
 True Area (sf):
 10,670.00

Surface: PCC

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major MR	Comments
04-04-2014	CR-PC	Complete Reconstruction - PCC	\$0.00	6.00	True	6" P-505 PCC
04-03-2014	SB-AG	Subbase - Aggregate	\$0.00	4.00	False	4" P-154 MOD. SUBBASE
04-02-2014	SG-CO	Subgrade - Compacted	\$0.00	6.00	False	6' P152 SUBGRADE

Branch - Section ID: TH01DN - 003

 LCD: 2/3/2004
 Length (ft):
 337.00

 Use: T-HANGAR
 Width (ft):
 41.00

 Rank: P
 True Area (sf):
 13,817.00

Surface: PCC

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major MR	Comments
02-03-2004	CR-PC	Complete Reconstruction - PCC	\$0.00	6.00	True	6" IDOT CLASS C PCC
02-02-2004	SB-AG	Subbase - Aggregate	\$0.00	6.00	False	6" P-154 SUBBASE
02-01-2004	SG-CO	Subgrade - Compacted	\$0.00	6.00	False	6" P-152 SUBGRADE

Branch - Section ID: TH01DN - 004

 LCD: 10/3/2024
 Length (ft):
 104.00

 Use: T-HANGAR
 Width (ft):
 41.00

 Rank: P
 True Area (sf):
 2,487.00

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major MR	Comments
Date	Oode	Description		()	IVIIX	
10-03-2024	NC-PC	New Construction - PCC	\$7,984,008.00	6.00	True	6" P-501 PCC PAVEMENT
10-02-2024	SB-AG	Subbase - Aggregate	\$0.00	6.00	False	6" P-154 GRANULAR SUBBASE COURSE
10-01-2024	SG-CO	Subgrade - Compacted	\$0.00	12.00	False	12" P-152 NATURAL SUBGRADE COMPACTED
						TO 95%

APPENDIX E

LOCALIZED PREVENTIVE MAINTENANCE POLICIES AND UNIT COST TABLES

Table E-1. Localized preventive maintenance policy, asphalt-surfaced pavements.

Distress Type	Severity Level	Maintenance Action
Alligator Cracking	Low	Monitor
Alligator Cracking	Medium	Asphalt Patch
Alligator Cracking	High	Asphalt Patch
Bleeding	N/A	Monitor
Block Cracking	Low	Monitor
Block Cracking	Medium	Crack Seal—Asphalt
Block Cracking	High	Crack Seal—Asphalt
Corrugation	Low	Monitor
Corrugation	Medium	Asphalt Patch
Corrugation	High	Asphalt Patch
Depression	Low	Monitor
Depression	Medium	Monitor
Depression	High	Asphalt Patch
Jet-Blast Erosion	N/A	Asphalt Patch
Joint Reflection Cracking	Low	Monitor
Joint Reflection Cracking	Medium	Crack Seal—Asphalt
Joint Reflection Cracking	High	Crack Seal—Asphalt
L&T Cracking	Low	Monitor
L&T Cracking	Medium	Crack Seal—Asphalt
L&T Cracking	High	Crack Seal—Asphalt
Oil Spillage	N/A	Asphalt Patch
Patching	Low	Monitor
Patching	Medium	Asphalt Patch
Patching	High	Asphalt Patch
Polished Aggregate	N/A	Monitor
Raveling	Low	Monitor
Raveling	Medium	Asphalt Patch
Raveling	High	Asphalt Patch
Rutting	Low	Monitor
Rutting	Medium	Monitor
Rutting	High	Asphalt Patch
Shoving	Low	Monitor
Shoving	Medium	Asphalt Patch
Shoving	High	Asphalt Patch
Slippage Cracking	N/A	Asphalt Patch
Swelling	Low	Monitor
Swelling	Medium	Monitor
Swelling	High	Asphalt Patch
Weathering	Low	Monitor
Weathering	Medium	Monitor
Weathering	High	Asphalt Patch

Table E-2. Localized preventive maintenance policy, PCC pavements.

		1
Distress Type	Severity Level	Maintenance Action
ASR	Low	Monitor
ASR	Medium	Slab Replacement
ASR	High	Slab Replacement
Blowup	Low	Slab Replacement
Blowup	Medium	Slab Replacement
Blowup	High	Slab Replacement
Corner Break	Low	Crack Seal—PCC
Corner Break	Medium	Full Depth PCC Patch
Corner Break	High	Full Depth PCC Patch
Durability Cracking	Low	Monitor
Durability Cracking	Medium	Full Depth Patch
Durability Cracking	High	Slab Replacement
Faulting	Low	Monitor
Faulting	Medium	Grinding
Faulting	High	Slab Replacement
Joint Seal Damage	Low	Monitor
Joint Seal Damage	Medium	Joint Seal
Joint Seal Damage	High	Joint Seal
LTD Cracking	Low	Monitor
LTD Cracking	Medium	Crack Seal—PCC
LTD Cracking	High	Slab Replacement
Patching (Small and Large)	Low	Monitor
Patching (Small and Large)	Medium	Full Depth PCC Patch
Patching (Small and Large)	High	Full Depth PCC Patch
Popouts	N/A	Monitor
Pumping	N/A	Monitor
Scaling	Low	Monitor
Scaling	Medium	Partial Depth PCC Patch
Scaling	High	Slab Replacement
Shattered Slab	Low	Crack Seal—PCC
Shattered Slab	Medium	Slab Replacement
Shattered Slab	High	Slab Replacement
Shrinkage Cracking	N/A	Monitor
Spalling (Joint and Corner)	Low	Monitor
Spalling (Joint and Corner)	Medium	Partial Depth PCC Patch
Spalling (Joint and Corner)	High	Partial Depth PCC Patch

Table E-3. 2025 unit costs for localized preventive maintenance actions.

Maintenance Action	Unit Cost
Asphalt Patch—Asphalt-Surfaced Pavement	\$15.90/sf
Crack Sealing—Asphalt-Surfaced Pavement	\$2.72/If
Partial Depth PCC Patch—PCC Pavement	\$40.74/sf
Full Depth PCC Patch—PCC Pavement	\$18.19/sf
Crack Sealing—PCC Pavement	\$3.27/lf
Joint Sealing—PCC Pavement	\$3.27/lf
Grinding—PCC Pavement	\$0.39/sf
Slab Replacement—PCC Pavement	\$18.19/sf

Table Note: The unit cost estimates are based on broad statewide numbers and should be adjusted to reflect local costs.

Table E-4. 2025 unit costs (per square foot) based on pavement type and PCI ranges.

Pavement Type	PCI Range 0-40	PCI Range 40-50	PCI Range 50-60	PCI Range 60-70	PCI Range 70–80	PCI Range 80-90	PCI Range 90–100
Asphalt- surfaced	\$11.29	\$5.34	\$5.34	\$5.34	\$0.00	\$0.00	\$0.00
PCC	\$18.86	\$8.92	\$8.92	\$8.92	\$0.00	\$0.00	\$0.00

Table Notes:

- The unit cost estimates are based on broad statewide numbers and should be adjusted to reflect local costs.
- Pavement Type: Asphalt-surfaced = AC (asphalt cement concrete), AAC (asphalt overlay on AC), or APC (asphalt overlay on PCC); PCC = portland cement concrete

APPENDIX F

YEAR 2025 LOCALIZED PREVENTIVE MAINTENANCE DETAILS

Year 2025 Localized Preventive Maintenance Details

Table F-1. Year 2025 localized preventive maintenance details.

Branch	Section	Distress Type	Severity	Distress Quantity	Distress Unit	Maintenance Action	Unit Cost	2025 Estimated Cost
A01DN	01	Corner Break	Medium	2	Slabs	Patching - PCC Full Depth	\$18.19	\$1,050
A01DN	01	Joint Seal Damage	High	211	Slabs	Joint Seal (Localized)	\$3.27	\$15,247
A01DN	01	LTD Cracking	Medium	4	Slabs	Crack Sealing - PCC	\$3.27	\$140
A01DN	02	Corner Break	Low	2	Slabs	Crack Sealing - PCC	\$3.27	\$53
A01DN	02	Corner Break	Medium	4	Slabs	Patching - PCC Full Depth	\$18.19	\$2,313
A01DN	02	Corner Spalling	Medium	2	Slabs	Patching - PCC Partial Depth	\$40.74	\$216
A01DN	02	Faulting	Medium	10	Slabs	Grinding (Localized)	\$0.39	\$46
A01DN	02	Joint Seal Damage	Medium	201	Slabs	Joint Seal (Localized)	\$3.27	\$14,728
A01DN	02	Joint Seal Damage	High	49	Slabs	Joint Seal (Localized)	\$3.27	\$3,610
A01DN	02	Joint Spalling	Medium	2	Slabs	Patching - PCC Partial Depth	\$40.74	\$518
A01DN	02	LTD Cracking	Medium	10	Slabs	Crack Sealing - PCC	\$3.27	\$386
R12DN	01	Corner Spalling	Medium	15	Slabs	Patching - PCC Partial Depth	\$40.74	\$1,680
R12DN	01	Faulting	Medium	8	Slabs	Grinding (Localized)	\$0.39	\$37
R12DN	01	Joint Seal Damage	High	1,679	Slabs	Joint Seal (Localized)	\$3.27	\$137,025
R12DN	01	Joint Spalling	Medium	16	Slabs	Patching - PCC Partial Depth	\$40.74	\$4,295
R12DN	01	LTD Cracking	Medium	16	Slabs	Crack Sealing - PCC	\$3.27	\$734
R12DN	01	Shattered Slab	Medium	9	Slabs	Slab Replacement - PCC	\$18.19	\$29,543
R12DN	01	Small Patch	High	18	Slabs	Patching - PCC Full Depth	\$18.19	\$897
R12DN	02	ASR	Medium	2	Slabs	Slab Replacement - PCC	\$18.19	\$5,684
R12DN	02	ASR	High	3	Slabs	Slab Replacement - PCC	\$18.19	\$8,527
R12DN	02	Faulting	Medium	12	Slabs	Grinding (Localized)	\$0.39	\$60
R12DN	02	Faulting	High	2	Slabs	Slab Replacement - PCC	\$18.19	\$7,007

Year 2025 Localized Preventive Maintenance Details

Table F-1. Year 2025 localized preventive maintenance details (continued).

Branch	Section	Distress Type	Severity	Distress Quantity	Distress Unit	Maintenance Action	Unit Cost	2025 Estimated Cost
R12DN	02	Joint Seal Damage	High	379	Slabs	Joint Seal (Localized)	\$3.27	\$28,173
R12DN	02	Joint Spalling	Medium	2	Slabs	Patching - PCC Partial Depth	\$40.74	\$649
R12DN	02	Shattered Slab	Medium	2	Slabs	Slab Replacement - PCC	\$18.19	\$7,007
R12DN	03	Corner Break	Low	1	Slabs	Crack Sealing - PCC	\$3.27	\$39
R12DN	03	Corner Spalling	Medium	1	Slabs	Patching - PCC Partial Depth	\$40.74	\$161
R12DN	03	Joint Seal Damage	Medium	65	Slabs	Joint Seal (Localized)	\$3.27	\$4,430
R12DN	03	Joint Seal Damage	High	29	Slabs	Joint Seal (Localized)	\$3.27	\$2,014
R12DN	03	LTD Cracking	Medium	12	Slabs	Crack Sealing - PCC	\$3.27	\$480
R12DN	05	Faulting	Medium	5	Slabs	Grinding (Localized)	\$0.39	\$21
R12DN	05	Joint Seal Damage	Medium	66	Slabs	Joint Seal (Localized)	\$3.27	\$4,095
R12DN	06	Corner Break	Low	1	Slabs	Crack Sealing - PCC	\$3.27	\$27
R12DN	06	Joint Seal Damage	High	51	Slabs	Joint Seal (Localized)	\$3.27	\$2,936
R12DN	06	Joint Spalling	Medium	4	Slabs	Patching - PCC Partial Depth	\$40.74	\$1,052
R12DN	06	LTD Cracking	Medium	3	Slabs	Crack Sealing - PCC	\$3.27	\$114
R12DN	06	Small Patch	High	1	Slabs	Patching - PCC Full Depth	\$18.19	\$49
T01DN	01	Joint Seal Damage	Medium	24	Slabs	Joint Seal (Localized)	\$3.27	\$1,278
T01DN	01	Joint Seal Damage	High	29	Slabs	Joint Seal (Localized)	\$3.27	\$1,544
T01DN	02	Joint Seal Damage	High	6	Slabs	Joint Seal (Localized)	\$3.27	\$241
T01DN	03	Joint Seal Damage	High	32	Slabs	Joint Seal (Localized)	\$3.27	\$1,878
T01DN	03	Scaling	Medium	6	Slabs	Patching - PCC Partial Depth	\$40.74	\$10,025
T01DN	04	Joint Seal Damage	High	10	Slabs	Joint Seal (Localized)	\$3.27	\$496
T01DN	05	Joint Seal Damage	High	12	Slabs	Joint Seal (Localized)	\$3.27	\$686
T01DN	05	Scaling	Medium	1	Slabs	Patching - PCC Partial Depth	\$40.74	\$1,671

Year 2025 Localized Preventive Maintenance Details

Table F-1. Year 2025 localized preventive maintenance details (continued).

Branch	Section	Distress Type	Severity	Distress Quantity	Distress Unit	Maintenance Action	Unit Cost	2025 Estimated Cost
T01DN	06	Joint Seal Damage	High	18	Slabs	Joint Seal (Localized)	\$3.27	\$984
T01DN	06	Joint Spalling	Medium	1	Slabs	Patching - PCC Partial Depth	\$40.74	\$263
T01DN	06	LTD Cracking	Medium	1	Slabs	Crack Sealing - PCC	\$3.27	\$37
TH01DN	01	Corner Spalling	Medium	2	Slabs	Patching - PCC Partial Depth	\$40.74	\$229
TH01DN	01	Joint Seal Damage	High	113	Slabs	Joint Seal (Localized)	\$3.27	\$4,185
TH01DN	01	Joint Spalling	Medium	2	Slabs	Patching - PCC Partial Depth	\$40.74	\$551
TH01DN	01	LTD Cracking	Medium	10	Slabs	Crack Sealing - PCC	\$3.27	\$265
TH01DN	02	Corner Break	Medium	1	Slabs	Patching - PCC Full Depth	\$18.19	\$834
TH01DN	02	Joint Seal Damage	High	142	Slabs	Joint Seal (Localized)	\$3.27	\$5,763
TH01DN	03	Corner Break	Medium	2	Slabs	Patching - PCC Full Depth	\$18.19	\$1,035
TH01DN	03	Joint Seal Damage	High	111	Slabs	Joint Seal (Localized)	\$3.27	\$6,897
TH01DN	03	LTD Cracking	Medium	2	Slabs	Crack Sealing - PCC	\$3.27	\$65
TH01DN	03	Scaling	Medium	4	Slabs	Patching - PCC Partial Depth	\$40.74	\$5,887

Table Notes:

- 1. See Figure 3 for the location of the branch and section.
- 2. Distress types are defined by ASTM D5340. L&T cracking = longitudinal and transverse cracking; LTD cracking = longitudinal, transverse, and diagonal cracking; ASR = alkali-silica reaction.
- 3. The costs provided are of a general nature for the entire State and may require adjustments to reflect specific conditions at Denison Municipal Airport.



PREPARED FOR

Iowa Department of Transportation Modal Transportation Bureau 800 Lincoln Way Ames, Iowa 50010 515-239-1691 https://iowadot.gov/modes-travel/aviation

AUGUST 2025