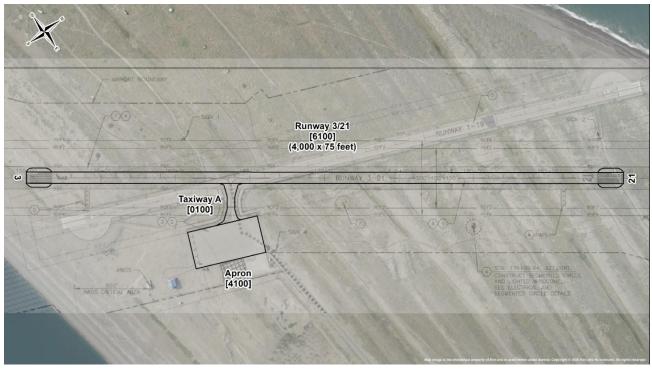


Alaska DOT&PF

Statewide Design and Engineering Services
Pavement Management and Preservation Office
5800 East Tudor Road, Anchorage AK 99507-1286

Pavement Inspection Report Point Hope Airport





Note: Airport is under construction to shift the alignment of the runway. Satellite imagery showing the completed pavement realignment project was unavailable at the time the report was prepared, so the new RW 3/21 alignment is shown over available imagery based on design drawings.

Airport Name	IATA	ICAO	Latitude	Longitude	Elevation (ft)
Point Hope	PHO	PAPO	68° 20' 55.58" N	166° 47' 57.34" W	18.3

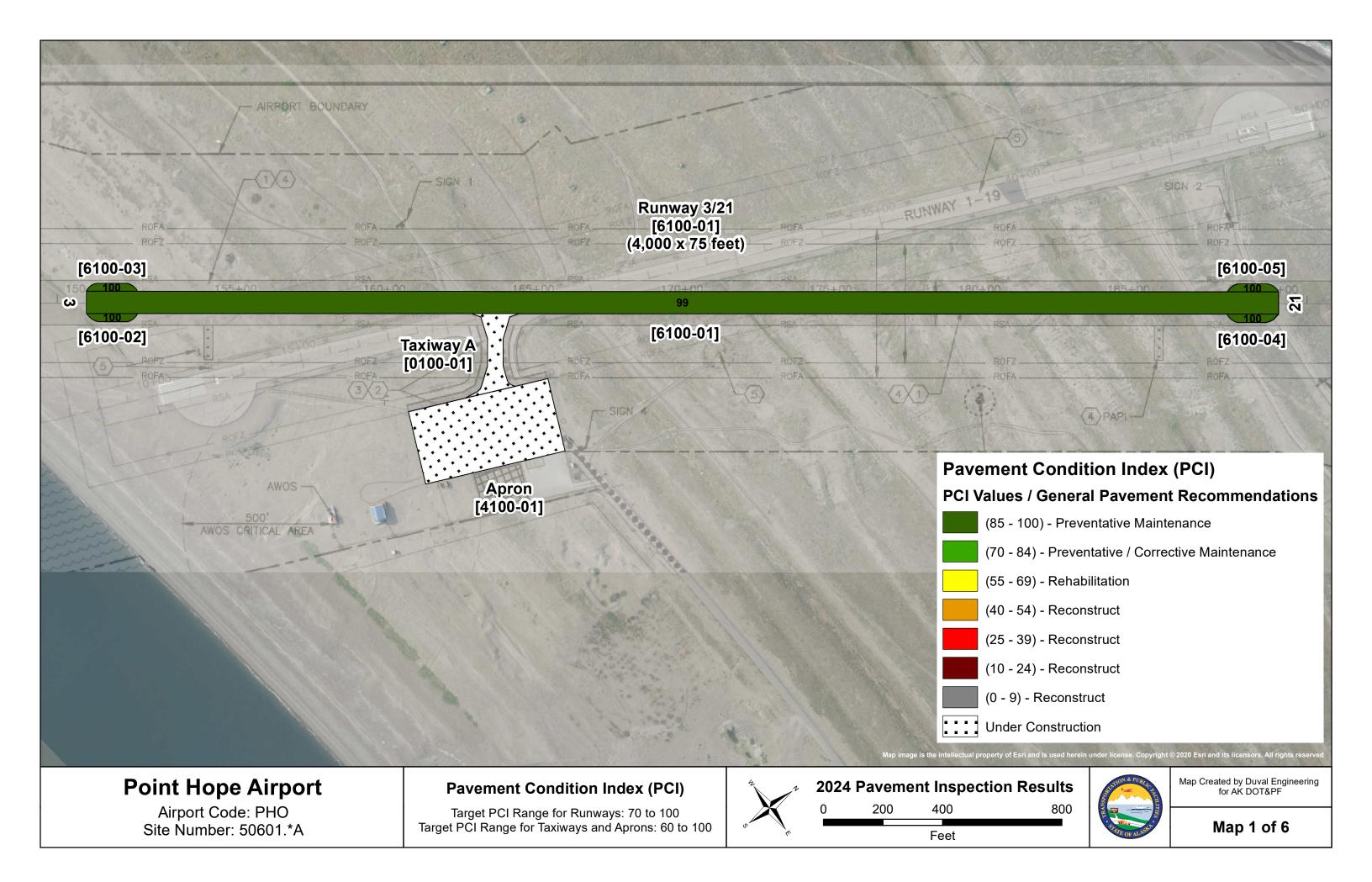
Please refer all questions or for further information about this report, please contact the AKDOT&PF Pavement Management and Preservation Office as follows:

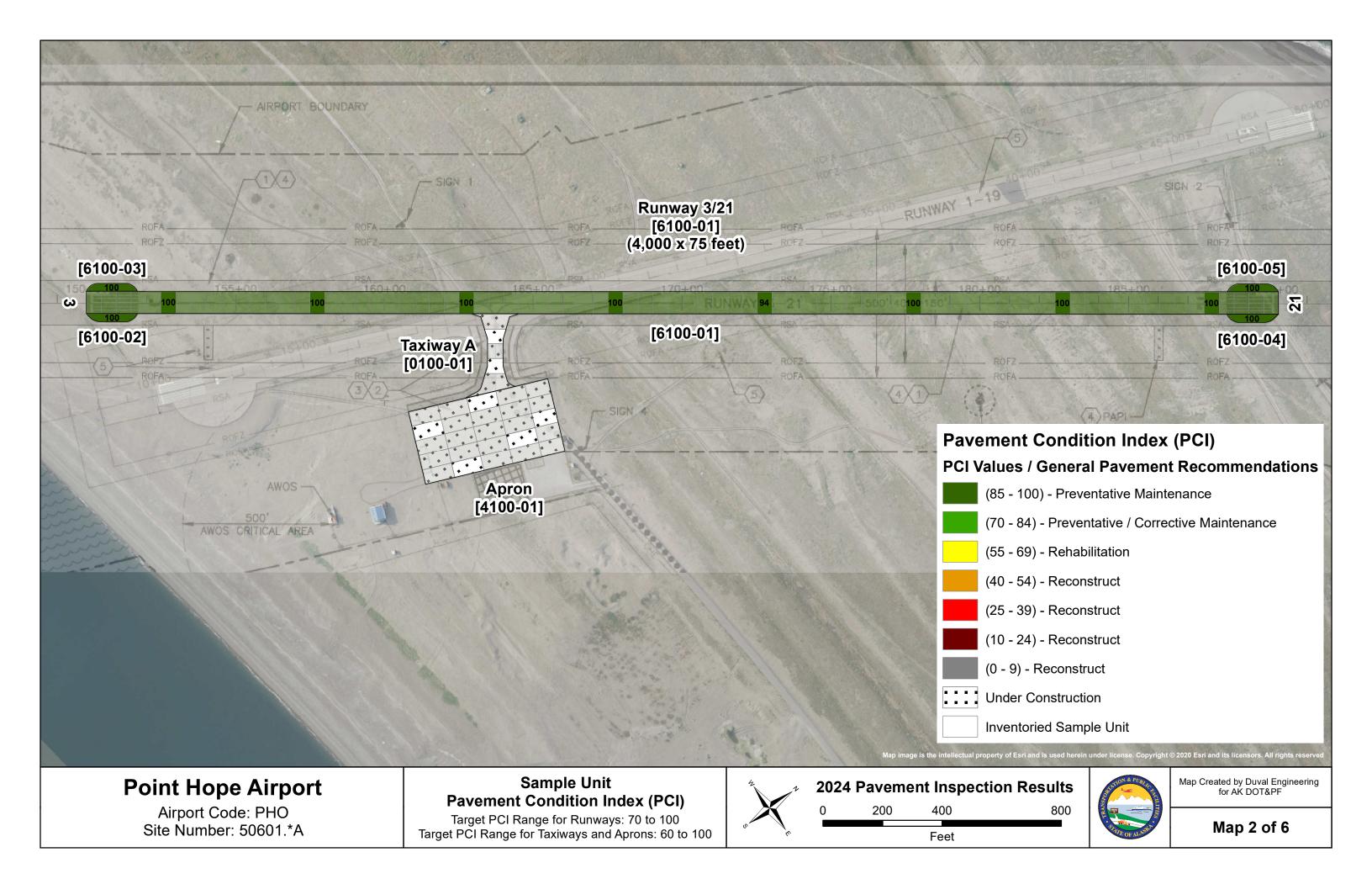
Point of Contact	Phone	Email	Date Inspected	Date Published
Mr. Andrew Pavey, Pavement Management Engineer	(907) 269 6213	andrew.pavey@alaska.gov	July 2024	December 2024

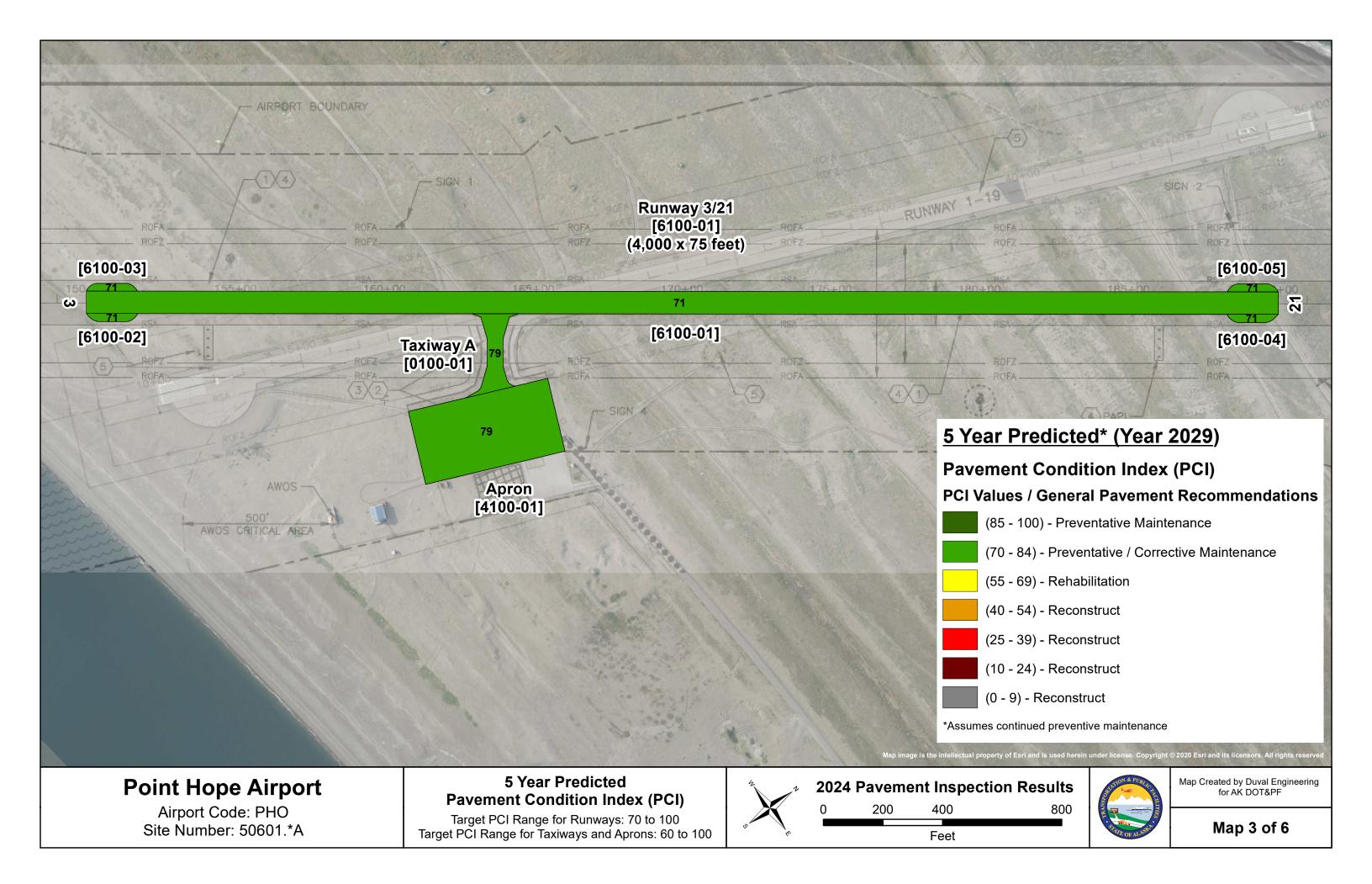
December 2024

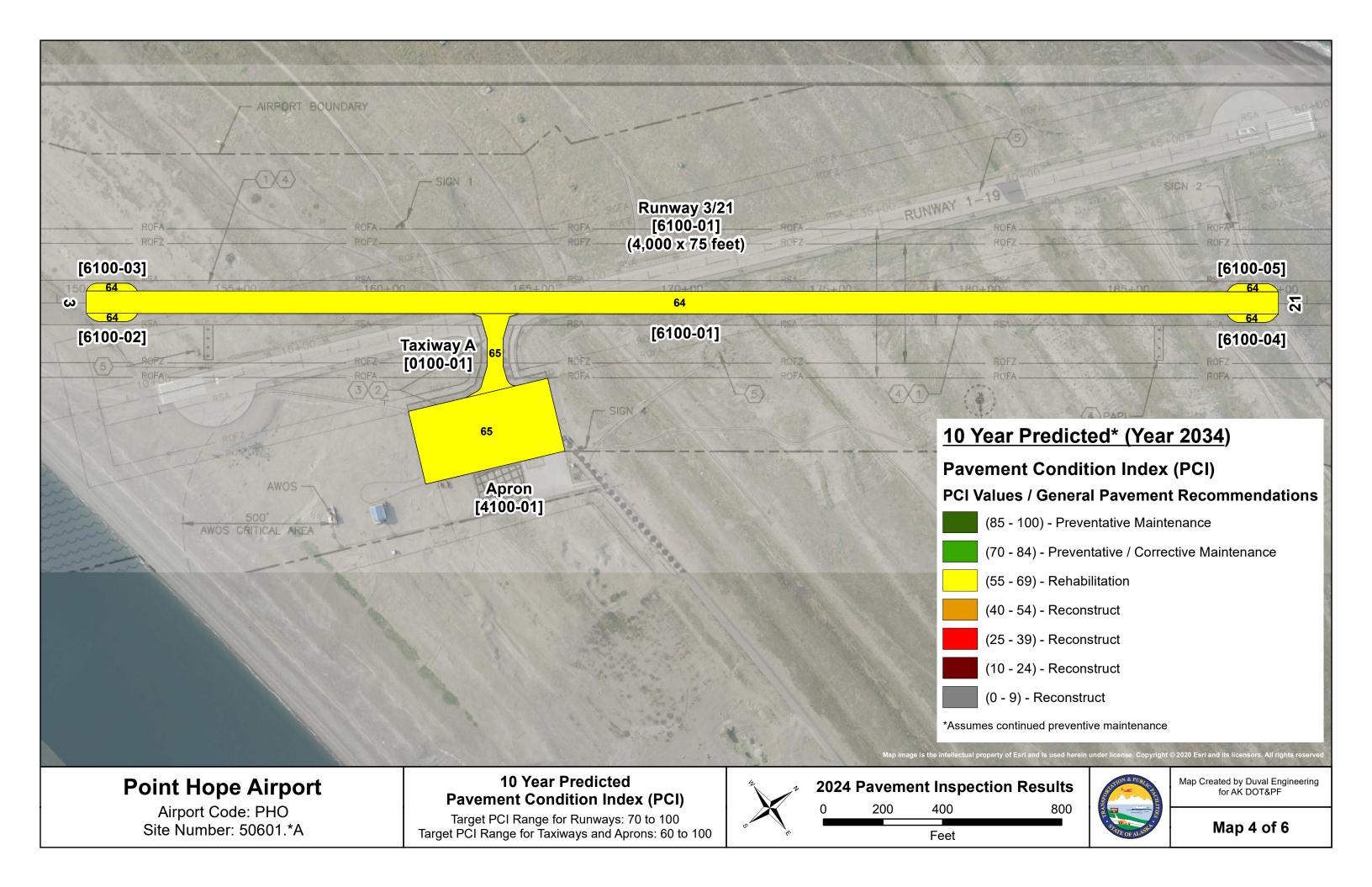
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- Work History Report
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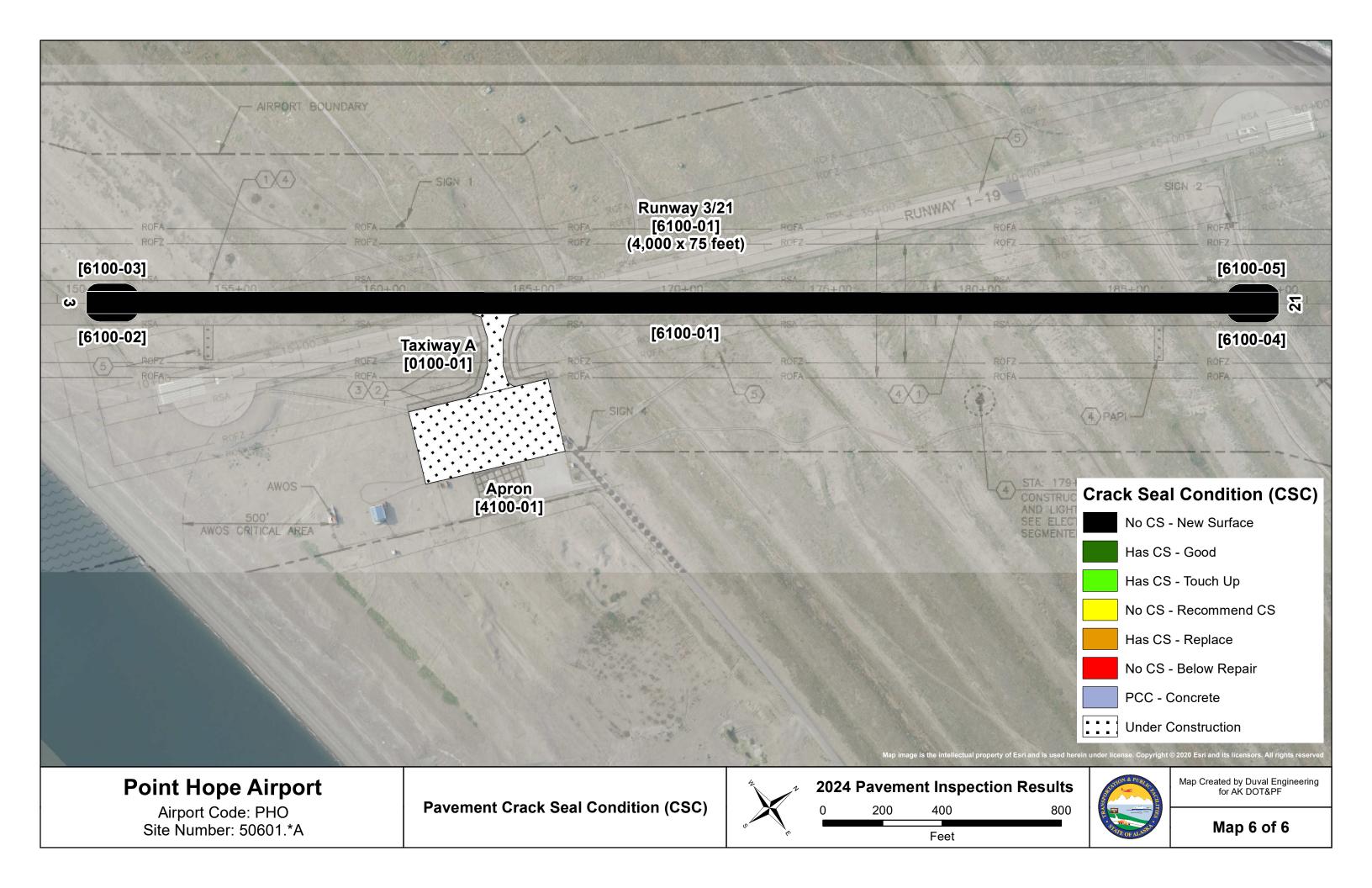












AIRPORT PAVEMENT INSPECTION NOTES BY BRANCH

Branch ID	Branch Name	Branch Use	No. of Sections	Area (sf)	Weighted Average PCI
0100	Taxiway A	Taxiway	1	18,616	Under Construction





Taxiway A was first constructed in 1993 and was under construction during the 2024 inspection due to a runway realignment project. The project includes removal of the existing asphalt pavement and placing 4" of P-401 HMA on top of 6" of P-209 CABC. Construction was ongoing during the inspection, as paving operations on the taxiway had yet to commence. However, the project will be finished by the end of the 2024 construction season.

Branch ID	Branch Name	Branch Use	No. of Sections	Area (sf)	Weighted Average PCI
4100	Apron	Apron	1	120,000	Under Construction

The Point Hope Apron was first constructed in 1993 and was under construction during the 2024 inspection due to a runway realignment project. The project includes removal of the existing asphalt pavement and placing 4" of P-401 HMA on top of 6" of P-209 CABC. Construction was ongoing during the inspection, as paving operations on the apron had yet to commence. However, the project will be finished by the end of the 2024 construction season.

Branch ID	Branch Name	Branch Use	No. of Sections	Area (sf)	Weighted Average PCI
6100	Runway 03/21	Runway	5	315,798	99

Runway 03/21 was first constructed in 1993 and was under construction during the 2024 inspection due to a runway realignment project. The project includes removal of the existing asphalt pavement and placing 4" of P-401 HMA on top of 6" of P-209 CABC. Construction was ongoing during the inspection. However, paving operations on the runway had been completed and the inspection was able to be performed. Field observations note the presence of patched in place core holes that are between low and medium severity. Also, there were areas of asphalt segregation around the paving joints that look to have occurred during placement. No distress was recorded but will be re-evaluated during the next inspection.

BRANCH CONDITION REPORT

Branch ID	No. of Sections	Sum Section Length (Ft)	Avg Section Width (Ft)	True Area (Sq Ft)	Use	Average PCI	Standard Deviation PCI	Weighted Average PCI
0100	1	260	50	18,616	TAXIWAY	100.00	0.00	Under Construction
4100	1	480	250	120,000	APRON	100.00	0.00	Under Construction
6100	5	4,680	37	315,798	RUNWAY	99.80	0.40	99.05

Note: the dimensions in the Branch Condition Report are derived from area calculations and may not reflect actual dimensions of individual sections. Refer to the maps for actual section dimensions.

BRANCH USE CONDITION REPORT

Use Category	No. of Sections	Total Area (Sq Ft)	Arithmetic Average PCI	Standard Deviation PCI	Weighted Average PCI
APRON	1	120,000	100.00	0.00	Under Construction
RUNWAY	5	315,798	99.80	0.40	99.05
TAXIWAY	1	18,616	100.00	0.00	Under Construction
ALL	7	454,414	99.86	0.35	99.34

SECTION CONDITION REPORT

Branch ID	Section ID	Last Const. Date	Surface	Use	Rank	True Area (Sq Ft)	Last Inspection Date	Age At Inspection	PCI
0100	0100-01	8/1/2024	AC	TAXIWAY	S	18,616	8/1/2024	0	UC
4100	4100-01	8/1/2024	AAC	APRON	S	120,000	8/1/2024	0	UC
6100	6100-01	7/1/2024	AC	RUNWAY	S	300,000	7/20/2024	0	99
6100	6100-02	7/1/2024	AC	RUNWAY	S	3,940	7/20/2024	0	100
6100	6100-03	7/1/2024	AC	RUNWAY	S	3,896	7/20/2024	0	100
6100	6100-04	7/1/2024	AC	RUNWAY	S	4,032	7/20/2024	0	100
6100	6100-05	7/1/2024	AC	RUNWAY	S	3,930	7/20/2024	0	100

SECTION CONDITION REPORT (SUMMARY BY AGE CATEGORY)

Age Category	Average Age at Inspection	Total Area (Sq Ft)	Number of Sections	Arithmetic Average PCI	Standard Deviation PCI	Weighted Average PCI
00-02	0	454,414	7	99.86	0.35	99.34
ALL	0	454,414	7	99.86	0.35	99.34

Work History Report

Pavement Database: Alaska

Network:	Point Hope	e Airport Branch: 0100	Taxiw	ay A	Section:	0100-01 Surface:AC
L.C.D. 8/1/2	024 Us	se: TAXIWAY Rank: S L	ength: 260	.00 (Ft) Wid	dth: 50.0	00 (Ft) True Area: 18616.00000 (SqFt
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
8/1/2024	CR-AC	Complete Reconstruction - AC	0.00	4.00	V	4" HMA over 6" CABC
9/16/1993	NC-IN	New Construction - Initial	0.00	0.00	~	(Funded via AIP)
Network:	Point Hope	e Airport Branch: 4100	Apron		Section:	4100-01 Surface:AC
L.C.D. 8/1/2	_	-	ength: 480	.00 (Ft) Wi o	dth: 250.0	00 (Ft) True Area: 120000.0000 (SqFt
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
8/1/2024	CR-AC	Complete Reconstruction - AC	0.00	4.00	V	4" HMA Type II Class A
9/16/1993	NC-IN	New Construction - Initial	0.00	0.00		(Funded via AIP)
	n					
Network:	•	•	03/21	00 (7)	Section:	
L.C.D. 7/1/2	024 Us Work	se: RUNWAY Rank: S L	ength: 4,000	Thickness	dth: 75.0 Major	0 (Ft) True Area: 300000.0000 (SqFt
Work Date	Code	Work Description	Cost	(in)	M&R	Comments
7/1/2024	CR-AC	Complete Reconstruction - AC	0.00	4.00	V	4" HMA Type II Class A over 6" CAB
9/16/1993	NC-IN	New Construction - Initial	0.00	0.00	~	(Funded via AIP)
N. d l.	D ' 4 II	A' 4 P Iv. (100	02/21		C	C100.02
Network:		•	03/21	00 (E4) W:	Section:	
L.C.D. 7/1/2	Work	se: RUNWAY Rank: S L	ength: 170	.00 (Ft) Wid Thickness	dth: 27.0 Major	0 (Ft) True Area: 3940.000001 (SqFt
Work Date	Code	Work Description	Cost	(in)	M&R	Comments
7/1/2024	NC-IN	New Construction - Initial	0.00	0.00	V	
N .	D. I. III	P. 1 (100	02/21		G	(100.02
Network:	•	•	03/21	00 (E4) W:	Section:	
L.C.D. 7/1/2	Work		ength: 170	.00 (Ft) Wid Thickness	Major	00 (Ft) True Area: 3896.000001 (SqFt
Work Date	Code	Work Description	Cost	(in)	M&R	Comments
7/1/2024	NC-IN	New Construction - Initial	0.00	0.00	Y :	
	D 1		00/04		a	(100.01
Network:		•	03/21	.00 (Ft) Wi o	Section: dth: 27.0	6100-04 Surface: AC 0 (Ft) True Area: 4032.000001 (SqFt
L.C.D. 7/1/2		se: RUNWAY Rank: S L	ength: 170	Thickness		(SqF)
Work Date	Work Code	Work Description	Cost	(in)	Major M&R	Comments
7/1/2024	NC-IN	New Construction - Initial	0.00	0.00		
Network:	_	-	03/21	00 (E)	Section:	
L.C.D. 7/1/2		se: RUNWAY Rank: S L	ength: 170	` ′		0 (Ft) True Area: 3930.000001 (SqFt
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
7/1/2024	NC-IN	New Construction - Initial	0.00	0.00	V	
	l		l			

Pavement Management System PAVER 7.0 TM

Work History Report

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Pavement Database: Alaska

Summary:

Work Description		Area Total (SqFt)	Thickness Avg (in)	Thickness STD (in)
Complete Reconstruction - AC	3	438,616.00	4.00	0.00
New Construction - Initial	7	454,414.00	0.00	0.00

Pavement Management System PAVER 7.0 TM

PHYSICAL PROPERTY DATA

		Pavement		Ва	Base		base	Subgrade	
Branch ID	Section ID	Thick (in)	Туре	Thick (in)	Туре	Thick (in)	Туре	Type	CBR
Taxiway A 0100	0100-01	4	P-401	6	P-209	6	P-154	GP	13
Apron 4100	4100-01	4	P-401	6	P-209	6	P-154	GP	13
	6100-01	4	P-401	6	P-209	6	P-154	GP	13
	6100-02 Southeast Turnaround	4	P-401	6	P-209	6	P-154	GP	13
Runway 03/21 6100	6100-03 Southwest Turnaround	4	P-401	6	P-209	6	P-154	GP	13
	6100-04 Northeast Turnaround	4	P-401	6	P-209	6	P-154	GP	13
	6100-05 Northwest Turnaround	4	P-401	6	P-209	6	P-154	GP	13

AIRCRAFT FLEET MIX

No.	Aircraft	Gross Wt (lb)	% Gross Wt on Main Gear	Tire Pressure (psi)	Annual Departures	20 Yr Coverages
1	S-10	10,000	95.00	50	1,788	6,413
2	D-15	15,000	95.00	55	137	846
3	D-100	100,000	95.00	140	3	25
4	Cessna 208B	8,750	95.00	75	915	2,788
5	PA-31-325 Navajo C/R	6,536	95.00	66	238	689
6	Beechcraft King Air	12,590	95.00	98	26	130
7	Q100/Dash 8	34,700	94.40	131	3	18
8	L-100-20	155,801	96.40	104	10	117
9	Saab 340B	29,000	95.00	55	19	147

PAVEMENT CLASSIFICATION RATINGS

Runway	Critical Aircraft	Max Allowable Wt (lb)	Subgrade Mr (psi)	Evaluation Thickness (in)	Pass to Traffic Cycle Ratio	PCR
3-21	L-100-20	270,265	20,000	16.0	1.0	527/F/B/X/T

PCR CALCULATION NOTES

- 1% traffic growth assumed
- Subgrade strength reduced for additional conservatism in structural modeling
- Subbase thickness reduced for additional conservatism in structural modeling
- S-10 refers to "generic" single gear aircraft as modeled in FAARFIELD
- D-15 and D-100 refer to "generic" dual gear aircraft as modeled in FAARFIELD

REFERENCES

Year	Project No.	Document Title	
2022	3-02-0226-X, Z638420000	Runway Realignment, as-advertised	
1993	Unknown	Alaska DOT&PF PAVER database indicates an asphalt overlay project	
1979	6-02-0226-02	RW Stabilization, Apron, TW Construction, as-built	