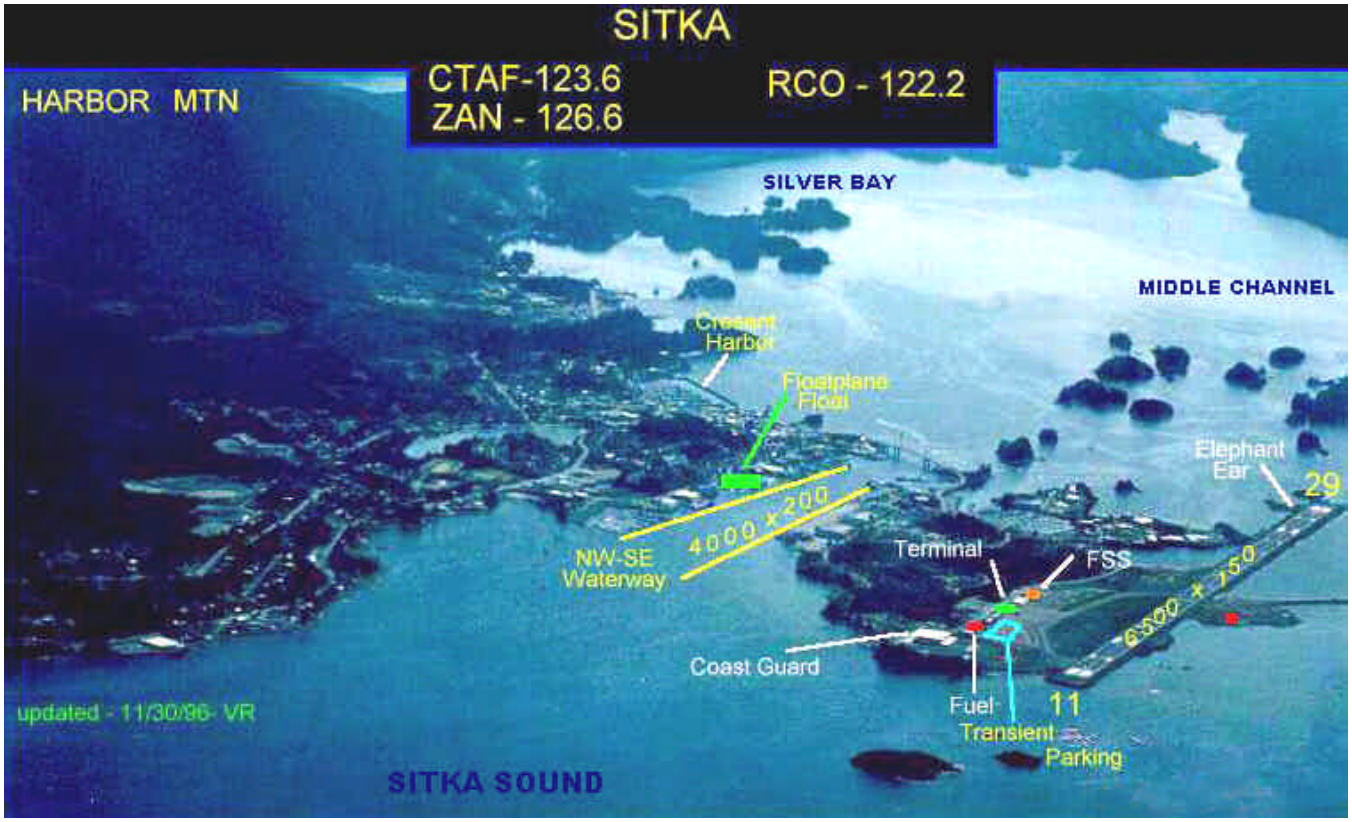
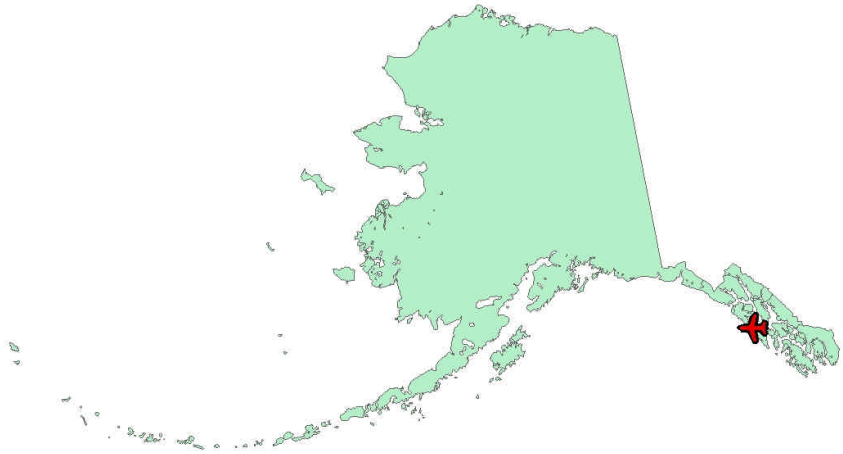


SITKA ROCKY GUTIERREZ AIRPORT



2004 Alaska Airport Pavement Condition Report

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Statewide Materials Section, Alaska DOT&PF
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Maps and report compiled by
H. June Finkbiner
Central Region Materials, Alaska DOT&PF

SITKA ROCKY GUTIERREZ AIRPORT - 2004

Contents:

- A Pavement Strength Form showing project history, latest Pavement Condition Index (PCI) data, pavement strength ratings (if available) and other useful information
- A Pavement Condition Survey – PCI Sample Unit Layout Plan
- PCI maps showing as-measured and predicted pavement conditions
- Age map showing pavement age as of January 2004
- A Branch PCI Condition Report
- A Section PCI Condition Report

Airport Information:

- Location:
  Sitka is located off the western side of Baronof Island in the central part of Southeast Alaska. The airport is on Japonski Island that is connected by a bridge with the town. The Sitka Airport is a commercial airport for passenger and cargo traffic.
- District: Southeast
- Airport Manager/Foreman: Dave Luchinetti/ Mike Webb
- District Maintenance Manager: Gary Franzen
- Pavement Surface: Asphalt Concrete, Portland Cement Concrete Hard Stands.
- Last Pavement Construction: 2002
- Pavement layout:
  The Sitka Airport has Runway 11-29, two taxiways, a Taxilane and an Apron divided into 3 sections based on use and typical sections. There is also a U.S. Coast Guard Ramp on the airport that is not maintained by the State. The runway is 6500 feet long and 150 feet wide, with paved shoulders.
- Design Aircraft: B-727
- 2003 Enplanements: 69,109 – down 1% from 2002
- Airport Class: Primary
- Last pavement condition survey: 2002
- Next planned pavement condition survey: 2005
- 2004 reported pavement maintenance and/or changed conditions: The fog seal using STE-1 emulsified asphalt applied to apron sections 4100-01, 4100-02, all of Taxiway B and the portion of Taxiway A in front of these apron sections is working OK, but will be touched up next year. The patched depression located approximately 1600' east of the threshold of R/W 11 continues to sink. The turnaround near the threshold of Runway 29 was not picked up on the last survey. It is added herein with estimated PCI values according to the Airport Manager.
- **Recommendations:** See PCI maps. Consider using GSB-88 Emulsified Sealer/Rejuvenator by Asphalt Systems, Inc. for touching up the Fog Seal. Seal cracks that are greater than ¼" wide and patch with hot mix as required to maintain serviceability. Apply tack coat prior to hot mix patching. If hot mix is not available, us cold mix asphalt for patching. This does not require tack coat.

Date: 3 /29/2005

Branch Condition Report

Pavement Database: NetworkID: Sitka

Branch ID	Number of Sections	Sum Section Length (Ft)	Avg Section Width (Ft)	True Area (SqFt)	Use	Average PCI	PCI Standard Deviation	Weighted Average PCI
100 (Taxiway A)	1	1,358.00	75.00	101,850.00	TAXIWAY	91.00	0.00	91.00
200 (Taxiway B)	2	1,640.00	75.00	133,000.00	TAXIWAY	91.50	2.50	93.05
300 (COAST GUARD TAXIWAY)	1	55.00	332.00	18,910.00	TAXIWAY	89.00	0.00	89.00
350 (Northwest Taxilane)	1	350.00	80.00	28,000.00	TAXIWAY	100.00	0.00	100.00
4100 (Aprons)	4	2,018.00	266.75	680,440.02	APRON	73.75	30.46	91.28
6100 (Runway 11-29)	5	19,884.00	51.80	994,370.02	RUNWAY	70.00	15.02	63.06

Branch Condition Report

Pavement Database:

Use Category	Number of Sections	Total Area (SqFt)	Arithmetic Average PCI	Average PCI STD.	Weighted Average PCI
APRON	4	680,440.02	73.75	30.46	91.28
RUNWAY	5	994,370.02	70.00	15.02	63.06
TAXIWAY	5	281,760.01	92.60	4.13	92.73
All	14	1,956,570.05	79.14	21.32	77.15

Date: 3 /29/2005

Section Condition Report

Pavement Database: *NetworkID: Sitka*

Branch ID	Section ID	Last Const. Date	Surface	Use	Rank	Lanes	True Area (SqFt)	Last Inspection Date	Age At Inspection	PCI
100 (Taxiway A)	100-01	09/01/2000	AC	TAXIWAY	P	0	101,850.00	06/18/2002	2	91.00
200 (Taxiway B)	200-01	09/01/2000	AAC	TAXIWAY	P	0	25,150.00	06/18/2002	2	89.00
200 (Taxiway B)	200-02	09/01/2000	AC	TAXIWAY	P	0	107,850.00	06/18/2002	2	94.00
300 (COAST GUARD TAXIWAY)	300-01	08/01/2000	AC	TAXIWAY	P	0	18,910.00	06/18/2002	2	89.00
350 (Northwest Taxilane)	350-01	10/01/2002	AC	TAXIWAY	S	0	28,000.00	10/01/2002	0	100.00
4100 (Aprons)	4100-01	09/01/2000	AC	APRON	S	0	162,700.00	06/18/2002	2	91.00
4100 (Aprons)	4100-02	09/01/2000	AC	APRON	P	0	200,289.01	06/18/2002	2	91.00
4100 (Aprons)	4100-03	09/01/2000	AC	APRON	P	0	315,675.01	06/18/2002	2	92.00
4100 (Aprons)	4100-04	09/01/1983	PCC	APRON	P	0	1,776.00	06/18/2002	19	21.00
6100 (Runway 11-29)	6100-01	09/01/1984	AC	RUNWAY	P	0	10,620.00	09/01/1984	0	100.00
6100 (Runway 11-29)	6100-02	09/01/1984	AC	RUNWAY	S	0	8,750.00	06/18/2002	18	62.00
6100 (Runway 11-29)	6100-03	09/01/1984	AC	RUNWAY	P	0	325,000.01	06/18/2002	18	62.00
6100 (Runway 11-29)	6100-04	09/01/1984	AC	RUNWAY	P	0	325,000.01	06/18/2002	18	62.00
6100 (Runway 11-29)	6100-05	09/01/1984	AC	RUNWAY	P	0	325,000.01	06/18/2002	18	64.00

Section Condition Report

Pavement Database:

Age Category	Average Age At Inspection	Total Area (SqFt)	Number of Sections	Arithmetic Average PCI	PCI Standard Deviation	Weighted Average PCI
0-02	1.56	971,044.02	9	93.00	4.00	91.93
16-20	18.20	985,526.02	5	54.20	16.62	62.59
All	7.50	1,956,570.05	14	79.14	21.32	77.15

PAVEMENT STRENGTH SURVEY

STATE Alaska | **CITY** Sitka | **AIRPORT** Sitka | This is a variation of FAA Form 5320-1-1

IDENT.	NAME	CONSTRUCTION DATES ORIG.	OVERLAY	CONSTRUCTION AGENCY	SOURCE OF INFORMATION	Existing Pavement Conditions (PCI) at last inspection	Soil Class	Subbase Course	Base Course	Surface Course	Overlay	Pavement Strength
						RUNWAYS						
6100-01	Runway 29 turn around	1984		AL DOT&PF		62				AC		
6100-02	Runway 11-29 Side Ramp	1984		AK DOT&PF		62				AC		
6100-03	Runway 11-29 Section 3	1984		AK DOT&PF	AK Supp.	62				AC		S100, T160, ST175, TT300
6100-04	Runway 11-29 Section 4	1984		AK DOT&PF	AK Supp.	62				AC		S100, T160, ST175, TT300
6100-05	Runway 11-29 Section 5	1984		AK DOT&PF	AK Supp.	64				AC		S100, T160, ST175, TT300
						TAXIWAYS						
100-01	Taxiway A Section 1	1983	2000	AK DOT&PF	SE Region/ Pr. # 72200	91		6"	4" CA and 3" ATBC	2" AC		
200-01	Taxiway B Section 1	1983	2000	AK DOT&PF	SE Region/ Pr. # 72200	89		6"	4" CA and 3" ATBC	2" AC		
200-02	Taxiway B Section 2	1983	2000	AK DOT&PF	SE Region/ Pr. # 72200	94		6"	4" CA and 3" ATBC	2" AC		
300-01	CG T/W taper	1983	2000	AK DOT&PF	SE Region/ Pr. # 72200	89						
350-01	Northwest Taxilane	2002		AK DOT&PF		100*				AC		
						APRONS						
4100-01	Heavy Aircraft Apron	1983	2000		SE Region/ Pr. # 72200	91		6"	6"	2" AC		
4100-02	Terminal Apron	1983	2000		SE Region/ Pr. # 72200	91		6"	6"	4" AC		
4100-03	General Aviation Apron	1983	2002		SE Region/ Pr. # 72200	92						
4100-04	Hardstand	1983				21				PCC		

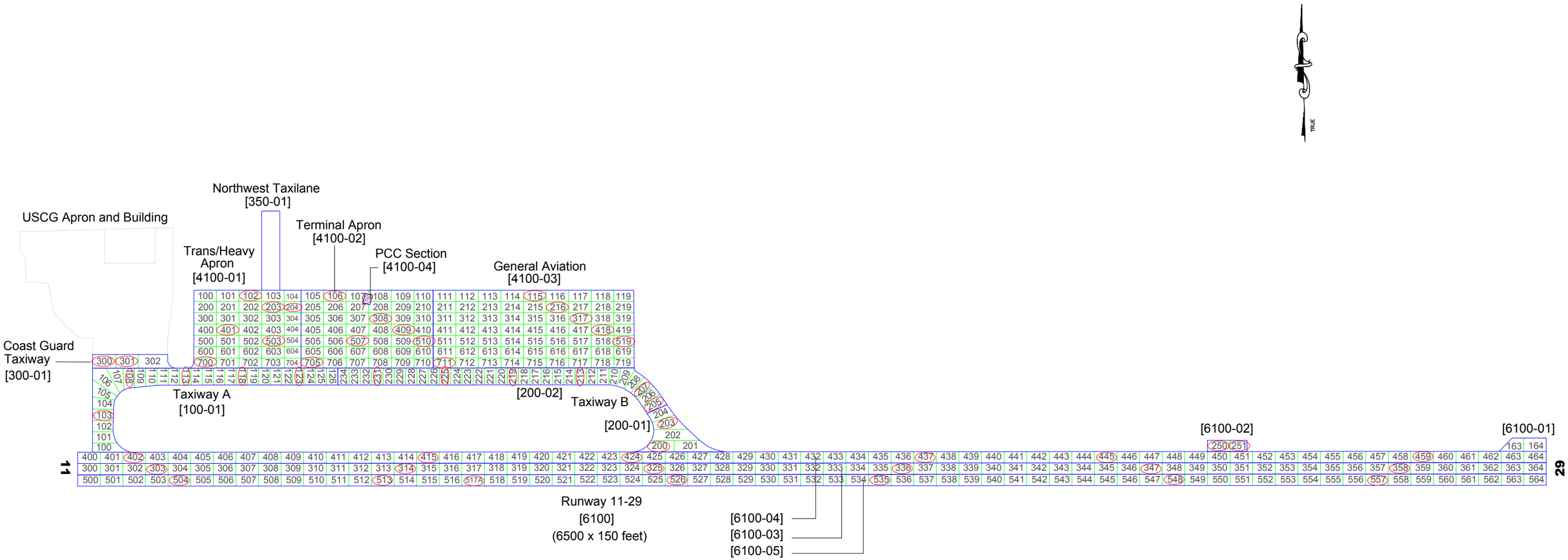
REMARKS:

*The Northwest Taxilane was completed after the last inspection and has PCI set ot 100.

Date of Site Inspection: 6/18/2002 | Evaluated By: S. Gartin | 3/29/2005

Pavement Condition Survey – PCI Sample Unit Layout Plan

State	City	Airport	Airport Code:	Site No.
Alaska	Sitka	Sitka	SIT	50703.*A



Legend

[ ] Branch/Section Identifier

Sample Unit

Unit of Pavement Sampled 2002

SCALE

0' 300' 600' 900'

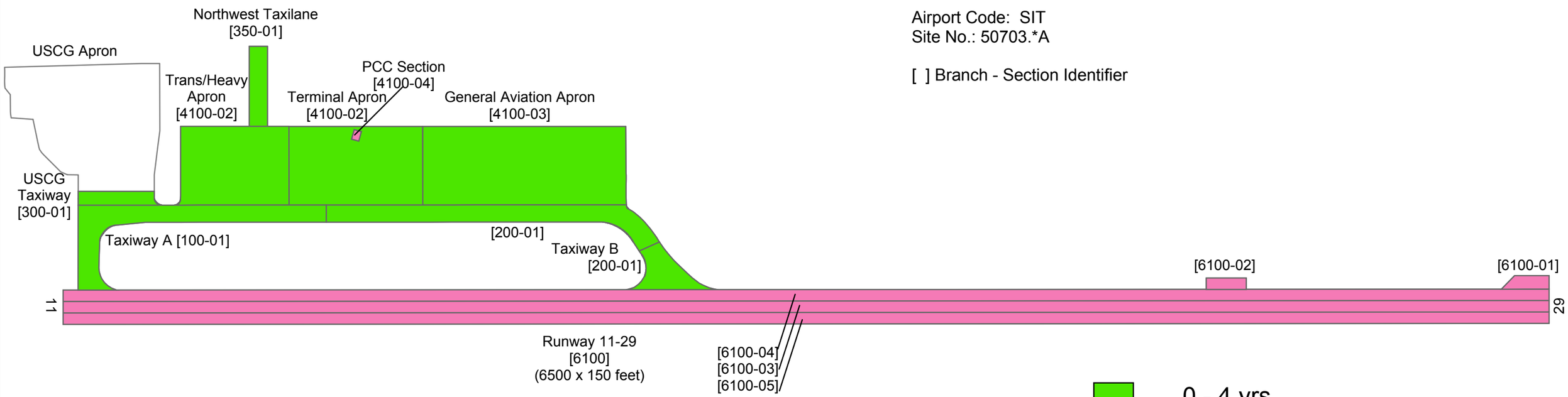
Map compiled December 10, 2004

Sitka Airport

Pavement Surface Age
2004

Airport Code: SIT
Site No.: 50703.*A

[ ] Branch - Section Identifier



- 0 - 4 yrs
- 5 - 9 yrs
- 10 - 14 yrs
- 15 - 19 yrs
- 20 - 24 yrs
- 25 - 29 yrs
- >30 yrs

N

Feet
0 500 1,000 1,500 2,000

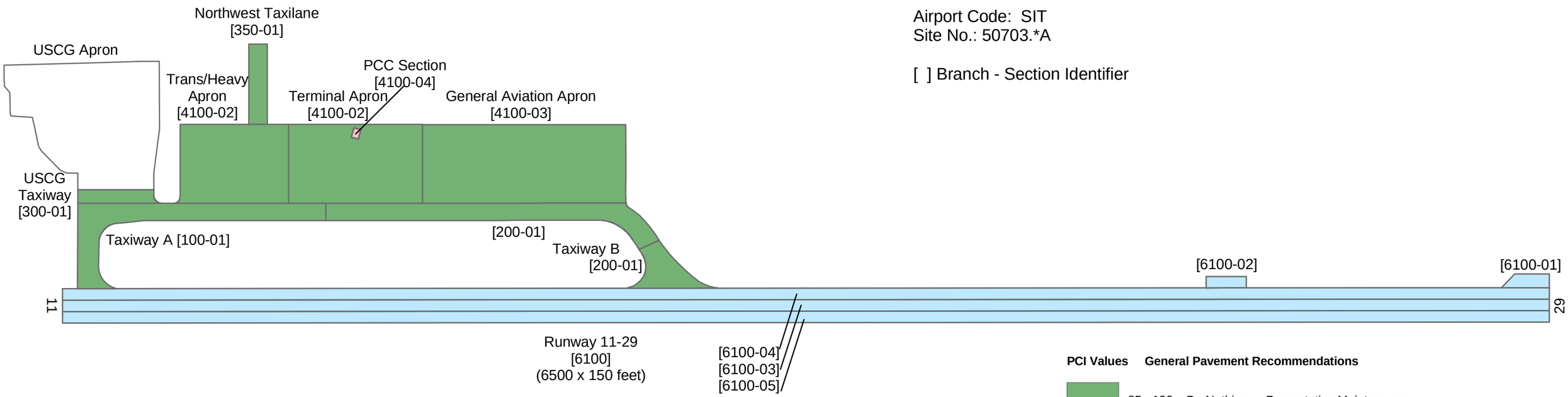
Map complied 2002 (revised December 2004)
by Central Region Materials, AK DOT&PF

Sitka Airport

Pavement Condition Index - PCI
Measured Values for the Year 2002

Airport Code: SIT
Site No.: 50703.*A

[ ] Branch - Section Identifier



PCI Values	General Pavement Recommendations
85 - 100	Do Nothing or Preventative Maintenance
70 - 84	Preventative Maintenance
60 - 69	Corrective Maintenance
55 - 59	Rehabilitate
40 - 54	Rehabilitate
25 - 39	Reconstruct
10 - 24	Reconstruct
0 - 9	Reconstruct

N

Minimum PCI for Runways = 70
Minimum PCI for Taxiways and Aprons = 60

Feet
0 500 1,000 1,500 2,000

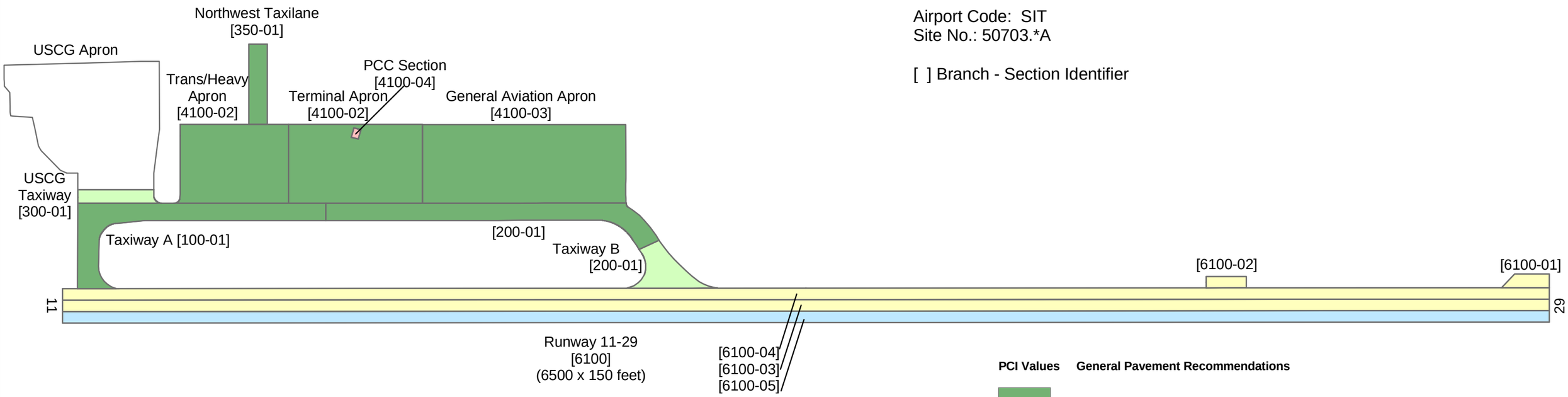
Map complied 2002 (revised December 2004)
by Central Region Materials, AK DOT&PF

Sitka Airport

Pavement Condition Index - PCI
Predicted Values for the Year 2003

Airport Code: SIT
Site No.: 50703.*A

[ ] Branch - Section Identifier



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60 - 69	Corrective Maintenance
55 - 59	Rehabilitate
40 - 54	Rehabilitate
25 - 39	Reconstruct
10 - 24	Reconstruct
0 - 9	Reconstruct

N

Minimum PCI for Runways = 70
Minimum PCI for Taxiways and Aprons = 60

Feet
0 500 1,000 1,500 2,000

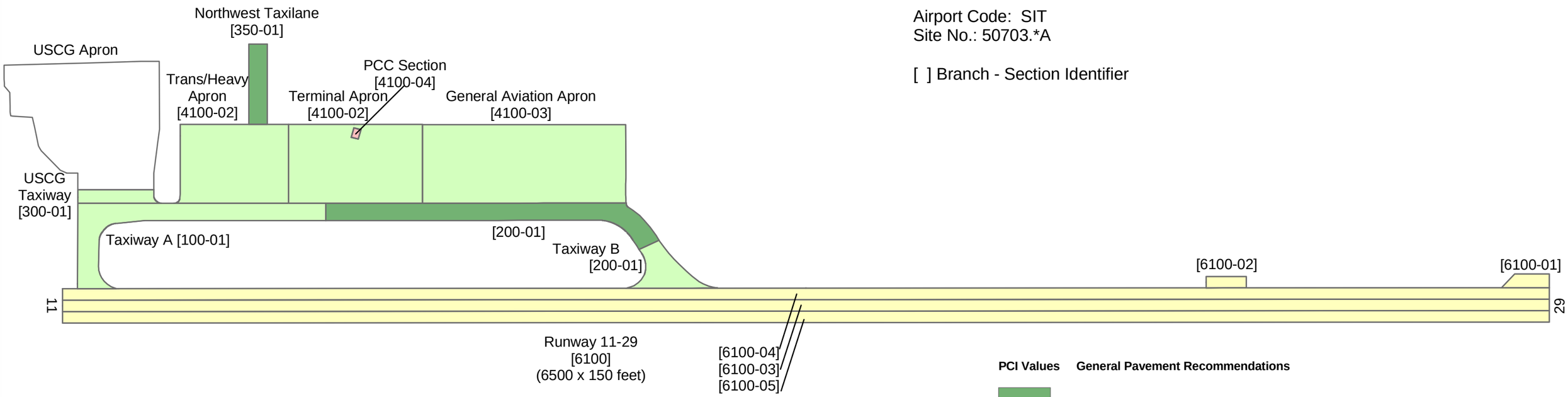
Map complied 2002 (revised December 2004)
by Central Region Materials, AK DOT&PF

Sitka Airport

Pavement Condition Index - PCI
Predicted Values for the Year 2004

Airport Code: SIT
Site No.: 50703.*A

[ ] Branch - Section Identifier



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40 - 54	Rehabilitate
25 - 39	Reconstruct
10 - 24	Reconstruct
0 - 9	Reconstruct

N

Minimum PCI for Runways = 70
Minimum PCI for Taxiways and Aprons = 60

Feet
0 500 1,000 1,500 2,000

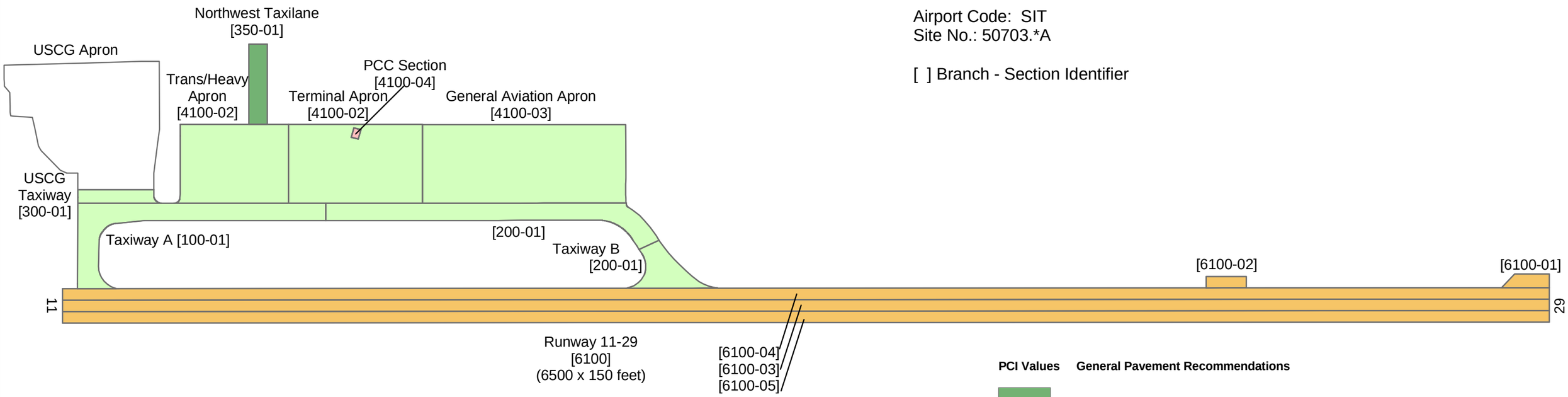
Map complied 2002 (revised December 2004)
by Central Region Materials, AK DOT&PF

Sitka Airport

Pavement Condition Index - PCI
Predicted Values for the Year 2005

Airport Code: SIT
Site No.: 50703.*A

[ ] Branch - Section Identifier



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60 - 69	Corrective Maintenance
55 - 59	Rehabilitate
40 - 54	Rehabilitate
25 - 39	Reconstruct
10 - 24	Reconstruct
0 - 9	Reconstruct

N

Minimum PCI for Runways = 70
Minimum PCI for Taxiways and Aprons = 60

Feet
0 500 1,000 1,500 2,000

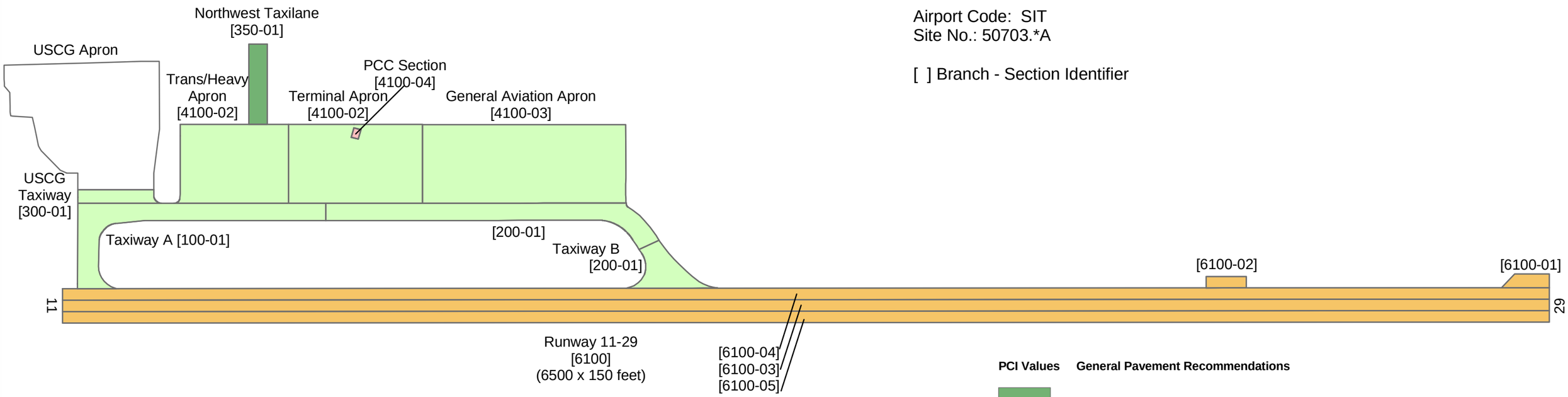
Map complied 2002 (revised December 2004)
by Central Region Materials, AK DOT&PF

Sitka Airport

Pavement Condition Index - PCI
Predicted Values for the Year 2006

Airport Code: SIT
Site No.: 50703.*A

[ ] Branch - Section Identifier



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0 - 9	Reconstruct

N

Minimum PCI for Runways = 70
Minimum PCI for Taxiways and Aprons = 60

Feet
0 500 1,000 1,500 2,000

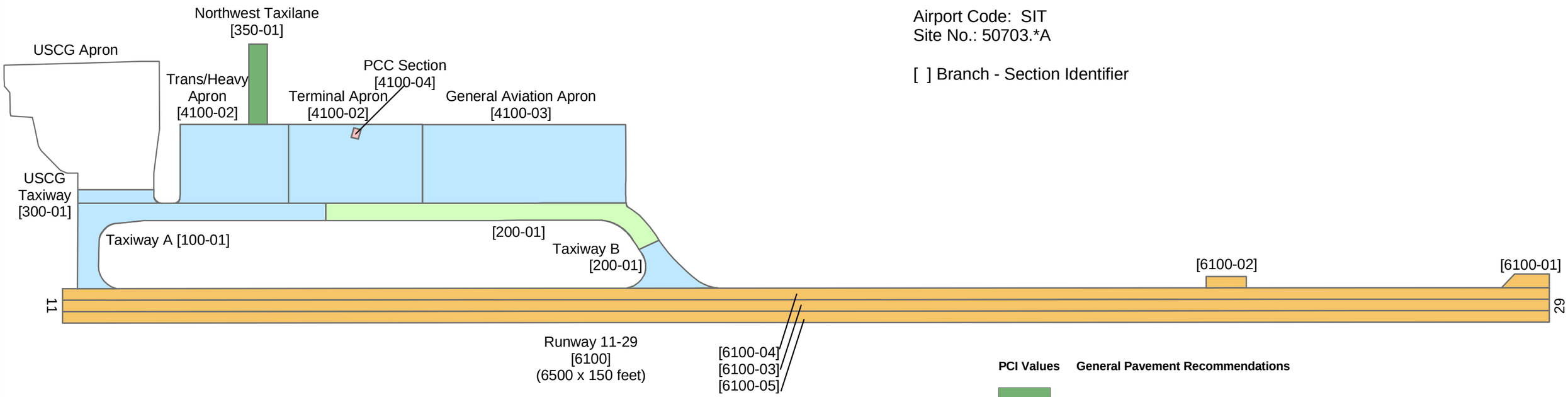
Map complied 2002 (revised December 2004)
by Central Region Materials, AK DOT&PF

Sitka Airport

Pavement Condition Index - PCI
Predicted Values for the Year 2007

Airport Code: SIT
Site No.: 50703.*A

[ ] Branch - Section Identifier



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10 - 24	Reconstruct
0 - 9	Reconstruct

N

Minimum PCI for Runways = 70
Minimum PCI for Taxiways and Aprons = 60

Feet
0 500 1,000 1,500 2,000

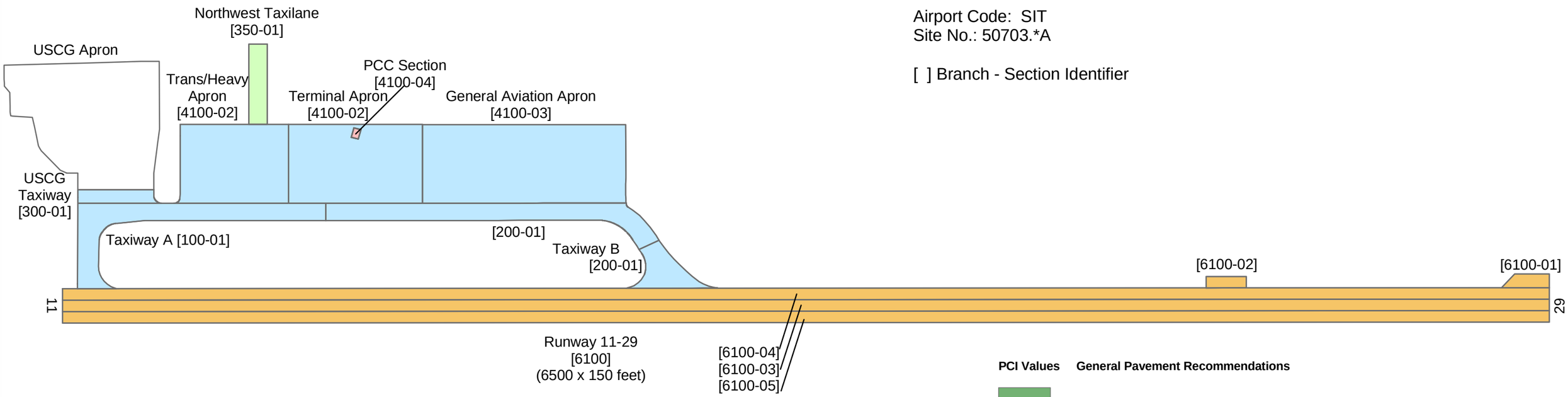
Map complied 2002 (revised December 2004)
by Central Region Materials, AK DOT&PF

Sitka Airport

Pavement Condition Index - PCI
Predicted Values for the Year 2008

Airport Code: SIT
Site No.: 50703.*A

[ ] Branch - Section Identifier



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Minimum PCI for Runways = 70
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Feet
0 500 1,000 1,500 2,000

Map complied 2002 (revised December 2004)
by Central Region Materials, AK DOT&PF