

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.33**

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated.
Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or feet RVR.

<u>AIRPORT</u> TED STEVENS ANCHORAGE INTL	<u>AIRPORT ID</u> PANC	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 7L	<u>ORIGINAL/AMENDMENT</u> 3	<u>CITY</u> ANCHORAGE	<u>STATE</u> AK
<u>AIRPORT ELEVATION</u> 151	<u>TDZE</u> 128	<u>SUPERSEDED</u> RNAV (GPS) RWY 7L	<u>ORIGINAL/AMENDMENT</u> 2D	<u>DATED</u> 02/01/2018	<u>MAG VAR</u> 16E
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> 10/10/2019	<u>CANCEL/SUSPEND</u>	<u>EPOCH YEAR</u> 2020

TERMINAL ROUTES

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>LEG TYPE</u>	<u>FO/FB</u>	<u>RNP</u>	<u>COURSE</u>	<u>DISTANCE</u>	<u>ALTITUDE</u>
GASTO		CEYAB		TF	FB	1.00	042.80	16.77	2000
IVANN		ECIKI		TF	FB	1.00	164.52	7.77	3600
ECIKI	IAF	NAJIL		TF	FB	1.00	117.00	7.52	2000
CEYAB	IAF	NAJIL		TF	FB	1.00	028.57	6.88	2000
NAJIL	IF	WEBBI		TF	FB	1.00	073.55	6.53	1600
WEBBI	FAF	RW07L	MAP	TF	FO	0.30	073.75	4.46	
RW07L	MAP	800 MSL		CA			073.75		800
800 MSL		JUKEP		DF	FO	1.00			3000

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW07L

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 800 THEN CLIMBING RIGHT TURN TO 3000 DIRECT JUKEP AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

QUALITY
21
CHECKED

PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF (IAF)

2. PROFILE STARTS AT NAJIL

3. FAC: 073.75

FAF: WEBBI

DIST FAF TO MAP: 4.46

DIST FAF TO THLD: 4.46

4. MIN ALT: NAJIL 2000, WEBBI 1600

5. DIST TO THLD FROM OM:

MM:

IM:

150 HAT:

200 HAT: 0.46

GS ANT:

6. MIN GP INCPT: 1600

GP ALT AT FAF : WEBBI 1600

OM:

MM:

IM:

7. GP ANGLE: 3.00

34:1: IS CLEAR

20:1: IS CLEAR

TCH: 53.5

8. MSA FROM: RW07L 8900

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -18°C OR ABOVE 54°C.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT IVANN ON V440 WESTBOUND AND ARRIVALS AT GASTO ON V462 SOUTHWEST BOUND.
CHART NOTE: FOR INOPERATIVE ALS, INCREASE LNAV/VNAV ALL CATS AND LNAV CAT C/D VISIBILITY TO 1 3/8 SM.

ADDITIONAL FLIGHT DATA:

354 AAO 610915N/1501018W
CHART CIRCLING ICON.
CHART VDP AT 1.28 NM TO RW07L*
*LNAV ONLY
WAAS CHANNEL #86215
REFERENCE PATH ID: W07B
CHART FAS OBST: 343 TREE 610936N/1500201W.
HOLD NE, RT, 210.00 INBOUND
LTP HAE: 45 M

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: NA ☐ STANDARD - CAT D 800-2 1/2, NA WHEN LOCAL WEATHER NOT AVAILABLE.

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
LPV DA	328	1800	200	328	1800	200	328	1800	200	328	1800	200			
LNAV/VNAV DA	595	5000	467	595	5000	467	595	5000	467	595	5000	467			
LNAV MDA	600	2400	472	600	2400	472	600	5000	472	600	5000	472			
CIRCLING	700	1	549	700	1	549	800	1 3/4	649	920	2 1/2	769			



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	PANC
RUNWAY	RW07L
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W07B
LTP/FTP LATITUDE	611011.1535N
LTP/FTP LONGITUDE	1500029.9995W
LTP/FTP ELLIPSOIDAL HEIGHT	+00450
FPAP LATITUDE	611011.3255N
FPAP LONGITUDE	1495653.8810W
THRESHOLD CROSSING HEIGHT (TCH)	00053.5
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0000
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0
CRC REMAINDER	50FDAF7E

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	PA
LTP ORTHOMETRIC HEIGHT	+00389
FPAP ORTHOMETRIC HEIGHT	+00389



FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

AIRPORT	AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
TED STEVENS ANCHORAGE INTL	PANC	RNAV (GPS) RWY 7L	3	ANCHORAGE	AK	151	RNAV

PART A: OBSTRUCTION DATA SEGMENTS

FEEDER

FROM GASTO TO CEYAB

<u>RNP</u>	<u>DISTANCE</u> 16.77	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>				
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
1.SHIP	610000.00N/1510000.00W	200	250	125	4E	1000				AT800	2000
2.TERRAIN	610057.44N/1504759.05W	0 (0)								AS1500	1500

COMPUTATIONS

ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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SEGMENT REMARKS:

FEEDER

FROM IVANN TO ECIKI

<u>RNP</u>	<u>DISTANCE</u> 7.77	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>				
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
3.AAO	612354.00N/1503830.00W	240	164	98	4E	2000				AT1360	3600
4.TERRAIN	612003.00N/1503142.00W	39 (0)								AS1500	1500

COMPUTATIONS

ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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SEGMENT REMARKS:



INITIAL

FROM

ECIKI

TO

NAJIL

RNP	DISTANCE	PAT	MAP	HAT	HMAS							
	7.52											
OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT	
5.AAO	611618.00N/1502936.00W	233	164	98	4E	1000				AT767	2000	
6.TERRAIN	611612.00N/1502936.00W	29 (0)								AS1500	1500	

COMPUTATIONS	ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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SEGMENT REMARKS:

INITIAL

FROM

CEYAB

TO

NAJIL

RNP	DISTANCE	PAT	MAP	HAT	HMAS							
	6.88											
OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT	
7.SHIP	611003.19N/1502425.62W	200	250	125	4E	1000				AT800	2000	
8.TERRAIN	610741.48N/1502812.19W	0 (0)								AS1500	1500	

COMPUTATIONS	ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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SEGMENT REMARKS:



INTERMEDIATE

FROM

NAJIL

TO

WEBBI

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
	6.53											
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
9.WINDMILL (02-020277)	610822.37N/1501257.73W		586	500	250	5F	500				AC250 DG264	1600
10.TERRAIN	610827.00N/1501312.00W		273 (300)								AS1000	1300

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL: LPV

FROM

WEBBI

TO

RW07L

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
	4.46		DA									
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				328

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

145 FT POLE (02-020580) PENETRATES BY 1.23 FT, FIXED BY FUNCTION PER FPT



FINAL: LNAV/VNAV

FROM

WEBBI

TO

RW07L

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
	4.46		DA		467							
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
11.TREE (02-024450)	610947.33N/1500308.43W		301	20	3	1A		23.74:1				595

COMPUTATIONS	ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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SEGMENT REMARKS:

FINAL: LNAV

FROM

WEBBI

TO

RW07L

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
	4.46		RW07L		472							
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
12.TREE (02-040009)	610936.41N/1500200.61W		343	20	3	1A	250					600

COMPUTATIONS	ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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SEGMENT REMARKS:



MISSED APPROACH : LNAV

FROM

RW07L

TO

JUKEP

RNP	DISTANCE	PAT	MAP	HAT			HMAS 500					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				2500
13.AAO	610624.00N/1494742.00W		798	164	98	4E	1000					1800
14.TERRAIN	610624.00N/1484742.00W		598 (600)								AS1500	2100

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

CIRCLING

☐ ALL CATS

☒ CAT A

☒ CAT B

☒ CAT C

☒ CAT D

☐ CAT E

☐ NOT AUTHORIZED

OBSTRUCTION	COORDINATES	RADIUS	HAA	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
CATEGORY A											
15.NAVAID (02-020897)	610923.45N/1500224.34W	1.30	549	397	20	10	1B	300			700
CATEGORY B											
15.NAVAID (02-020897)	610923.45N/1500224.34W	1.81	549	397	20	10	1B	300			700
CATEGORY C											
16.TOWER (02-000020)	611131.47N/1495408.48W	2.84	649	495	20	3	1A	300			800
CATEGORY D											
17.TOWER (02-000076)	610956.08N/1494943.14W	3.71	769	557	50	50	2D	300		AC50	920

CIRCLING REMARKS:



MSA

CENTER

RW07L

RADIUS

25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	AAO	611427.00N/1490206.00W	065	28.6	7684	164	98	4E	1000		XP216	8900

MSA REMARKS:
XP 216 = RETAIN EXISTING MSA.

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

TAA NOT USED, ATC REQUEST.

MISSED APPROACH TERMINATION FIX PER ATC REQUEST.

80 FT VEGETATION USED PER FPT.



PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH
ZAN ARTCC, ANC APP CON, ANC TOWER

WX SERVICE ASOS	LOCATION PANC	HRS OPERATION 24	ALTIMETER SOURCE PANC	DISTANCE 0	SERVICE-A Y	ADJUSTMENTS 0
BACK-UP WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	SERVICE-A	ADJUSTMENTS

WX REMARKS:
BACK UP ALTIMETER NOT PUBLISHED, REDUNDANT WEATHER SOURCES AVAILABLE.

PRIMARY NAVAID	MONITOR POINT	HRS OPERATION	CAT
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APPROACH AND RUNWAY LIGHTING SYSTEM	RUNWAY MARKINGS	RUNWAY VISUAL RANGE
RW07L - TDZ, MALSR, HIRL, C/LINE, PAPI-4R	PIR-G	APPROACH
RW07R - TDZ, ALSF-2, HIRL, C/LINE, TAXI WAY, PAPI-4R	PIR-G	APPROACH, MIDPOINT, ROLL OUT
RW15 - HIRL, C/LINE, ODALS, PAPI-4L	PIR-G	APPROACH, MIDPOINT, ROLL OUT
RW25L - HIRL, C/LINE, PAPI-4L	PIR-G	APPROACH, MIDPOINT, ROLL OUT
RW25R - HIRL, C/LINE, PAPI-4L	PIR-G	ROLL OUT
RW33 - HIRL, REIL, C/LINE, PAPI-4R	PIR-G	APPROACH, MIDPOINT, ROLL OUT

GLIDESLOPE ANGLE 3.00	ELEV RWY THRESHOLD 127.6	TCH 53.5	ELEV GS ANTENNA	DISTANCE FROM RWY	VGSI ANGLE 3.00	TCH 63.1
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FINAL APPROACH COURSE AIMING			
RUNWAY THRESHOLD	☒	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE
ON CENTERLINE	☒	FT FROM CENTERLINE	

CRITICAL TEMPERATURES			
CRITICAL LOW -18C	CRITICAL HIGH +54C	ACT -21C	APT ISA +14.7C

CRITICAL TEMPERATURE REMARKS:
AVERAGE COLD TEMPERATURE DERIVED FROM 5-YEAR HISTORY (2014-2018). CRITICAL LOW TEMPERATURE BASED ON ACT. DESCENT RATE (FPM): STANDARD TEMP 957 HIGH TEMP 1262.



"VISUAL PORTION OF FINAL" PENETRATIONS

Final Type	CIRCLING RWY 33
20:1	
124 NAVAID (02-020544) 611017.26N/1495959.42W (0.32)	
Final Type	LPV, LNAV/VNAV, LNAV
20:1	
131 NAVAID (02-020574) 611011.13N/1500034.24W (3)	
Final Type	LPV, LNAV/VNAV, LNAV
34:1	
145 POLE (02-020580) 611008.43N/1500045.27W (1.24)	

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

and/or
5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS

PART C: GENERAL REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.
VISUAL AREA PENETRATIONS FIXED BY FUNCTION PER FPT: 124 NAVAID (02-020544), 131 NAVAID (02-020574), AND 145 POLE (02-020580).
ORDER 8260.3 CHAPTER 2 APPLIED TO 354 AAO 610915.00N/1501018.00W.
ORDER 8260.3, VOLUME 1, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.



<u>AIRPORT</u> TED STEVENS ANCHORAGE INTL	<u>AIRPORT ID</u> PANC	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 7L	<u>AMDT NO.</u> 3	<u>CITY</u> ANCHORAGE	<u>STATE</u> AK	<u>AIRPORT ELEVATION</u> 151	<u>FACILITY</u> RNAV
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PART D: AIRSPACE

DOCKET #

ALL DISTANCES TO 1/100NM; ELEVATION TO NEAREST 100 FEET; COORDINATES TO 1/100 SECOND; DEG TO 1/100 DEGREE

DISTANCE FROM	THLD	TO 1000FT POINT	3.46
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	89.75
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	300
DISTANCE FROM	THLD	TO 1500FT POINT	8.56
WIDTH OF	INTERMEDIATE	SEGMENT AT 1500FT POINT	4.00
TRUE COURSE OF	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	89.55
HIGH TERRAIN IN	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	300

THRESHOLD
COORDINATES
(IF STR-IN)

611011.15N/1500030.00W

ARP COORDINATES

611026.71N/1495953.30W

RUNWAY APCH END
AND DIST FURTHEST
FROM ARP

RUNWAY 15 DISTANCE 1.63 NM

FAF
COORDINATES

611010.28N/1500941.97W

FIX NAME
COORDINATES

REMARKS

QUALITY

21

CHECKED

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<u>AIRPORT</u> TED STEVENS ANCHORAGE INTL	<u>AIRPORT ID</u> PANC	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 7L	<u>AMDT NO.</u> 3	<u>CITY</u> ANCHORAGE	<u>STATE</u> AK	<u>AIRPORT ELEVATION</u> 151	<u>FACILITY</u> RNAV
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PART E: PREPARED BY

<u>NAME</u> DAVID DANNER (TAYLOR GIBSON)	<u>OFFICE</u> AJV-A421	<u>DATE</u> 03/21/2019	<u>TITLE</u> AERONAUTICAL INFORMATION SPECIALIST
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QUALITY
21
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