

**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.

AIRPORT ID DVL	PROCEDURE NAME RNAV (GPS) RWY 21	ORIGINAL/AMENDMENT 1C	CITY DEVILS LAKE	STATE ND
AIRPORT ELEVATION 1469	TDZE 1449	SUPERSEDED RNAV (GPS) RWY 21	DATED 02/05/2015	MAG VAR 7E
FACILITY RNAV	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE 30 OCTOBER 2025	REQUIRED EFFECTIVE DATE ROUTINE	EPOCH YEAR 2000
			CANCEL/SUSPEND	

TAA

FROM	FIX TYPE	TO	FIX TYPE	ALTITUDE
1. 128/30 CW 308/30	NOPT	128/10 CW 308/10		4000
2. 128/10 CW 308/10		ZEVAS	IF/IAF	3400
3. 308/30 CW 128/30		ZEVAS	IF/IAF	3400

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
ZEVAS	IF/IAF	IJEDA		TF	FB	1.00	218.23	7.10	3000
IJEDA	FAF	HINEX/2.00 NM TO RW21		TF	FB	0.30	218.13	2.74	
HINEX/2.00 NM TO RW21		RW21	MAP	TF	FO	0.30	218.13	2.00	
RW21	MAP	1699 MSL		CA			218.13		
1699 MSL		ZIKID		DF	FO	1.00			3400

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW21

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3400 DIRECT ZIKID AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

- | | | | | | | | | | |
|--------------|--|-----------------------------------|------------------------------|-------------------------------|----------------------|----------------|--|------------|--|
| 1. PT | SIDE OF COURSE | OUTBOUND | FT WITHIN | MILES OF | (IAF) | | | | |
| 2. | HOLD NE ZEVAS, RT, 218.23 INBOUND, 3400 FT. IN LIEU OF PT (IAF), MAX 6000. | | | | | | | | |
| 3. | FAC: 218.13 | FAF: IJEDA | DIST FAF TO MAP: 4.74 | DIST FAF TO THLD: 4.74 | | | | | |
| 4. | MIN ALT: ZEVAS 3400, IJEDA 3000, HINEX/2.00 NM TO RW21 2120 | | | | | | | | |
| 5. | DIST TO THLD FROM OM: | MM: | IM: | 150 HAT: | 250 HAT: 0.65 | GS ANT: | | | |
| 6. | MIN GP INCPT: 3000 | GP ALT AT PFAF: IJEDA 3000 | | OM: | | MM: | | IM: | |
| 7. | GP ANGLE: 3.00 | 34:1: IS NOT CLEAR | 20:1: IS CLEAR | TCH: 50.0 | | | | | |
| 8. | MSA FROM: | | | | | | | | |

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17°C OR ABOVE 54°C.
 CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
 CHART NOTE: BARO-VNAV AND VDP NA WHEN USING 9D7 ALTIMETER SETTING.
 CHART NOTE: RWY 21 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
 CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE 9D7 ALTIMETER SETTING AND INCREASE LPV DA TO 1760 FEET; INCREASE LNAV/VNAV DA TO 1901 FEET AND ALL VISIBILITIES 1/4 SM. INCREASE ALL MDAS 80 FEET AND LNAV VISIBILITY CAT C/D 1/4 SM, AND CIRCLING VISIBILITY CAT C/D 1/4 SM.

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON.
 HOLD SW, RT, 037.89 INBOUND.
 CHART FAS OBST: 1580 TREE 480827N/0985321W.
 CHART VDP AT 1.17 NM TO RW21.
 WAAS CHANNEL # 78417
 REFERENCE PATH ID: W21A
 LTP HAE: 415.4 M

MINIMUMS:

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

ALTERNATE: NA STANDARD - CAT C 800-2 1/4, 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												
LPV DA	1699	1	250	1699	1	250	1699	1	250	1699	1	250				
LNAV/VNAV DA	1840	1 1/8	391	1840	1 1/8	391	1840	1 1/8	391	1840	1 1/8	391				
LNAV MDA	1840	1	391	1840	1	391	1840	1 1/8	391	1840	1 1/8	391				
CIRCLING	2000	1	531	2000	1	531	2240	2 1/4	771	2240	2 1/2	771				



CHANGES - REASONS

1. TERMINAL ROUTES: AMENDED SEGMENT FROM ZEVAS TO IJEDA RNP FROM "0.50" TO "1.00". - IAW 8260.58C 3-5.
2. TERMINAL ROUTES: AMENDED MISSED APPROACH CA AND DF MSL LEGS FROM "1691 MSL" TO "1699 MSL." - IAW 8260.58C 3-5-2.
3. TERMINAL ROUTES: ADDED "RNP 1.00" TO MISSED APPROACH DF LEG. - IAW 8260.58C 3-5.
4. PROFILE: LINE 4: REMOVED ASTERISK FROM "HINEX/2.00 NM TO RW21 2120". - NO LONGER REQUIRED.
5. PROFILE: LINE 7: ADDED TO 20:1 "IS CLEAR." - IAW 8260.19J 8-6-7.
6. PBN REQUIREMENTS NOTE: ADDED "RNP APCH - GPS." - IAW 260.19J 8-6-8.
7. NOTES: REMOVED "CHART NOTE: DME/DME RNP-0.3 NA." - NO LONGER REQUIRED.
8. NOTES: AMENDED PROFILE NOTE FROM "VGSI AND RNAV GLIDEPATH NOT COINCIDENT" TO "VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET})." - IAW 8260.19J 8-6-10.
9. NOTES: REMOVED "**LNAV ONLY" - NO LONGER REQUIRED.
10. NOTES: AMENDED BARO-VNAV NOTE FROM "CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17°C (2°F) OR ABOVE 54°C (130°F)." TO "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17°C OR ABOVE 54°C." - IAW 8260.19J 8-6-10.
11. NOTES: COMBINED AND AMENDED NOTES "BARO-VNAV NA WHEN USING CANDO ALTIMETER SETTING AND VDP NA WITH CANDO ALTIMETER SETTING" TO "BARO-VNAV AND VDP NA WHEN USING 9D7 ALTIMETER SETTING." - IAW 8260.19J 8-6-10.
12. NOTES: AMENDED "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE CANDO ALTIMETER SETTING AND INCREASE ALL DA 63 FEET AND ALL MDA 80 FEET, INCREASE LNAV AND CIRCLING CATS C AND D VISIBILITY 1/4 MILE." TO "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE 9D7 ALTIMETER SETTING AND INCREASE LPV DA TO 1760 FEET; INCREASE LNAV/VNAV DA TO 1901 FEET AND ALL VISIBILITIES 1/4 SM. INCREASE ALL MDAS 80 FEET AND LNAV VISIBILITY CAT C/D 1/4 SM, AND CIRCLING VISIBILITY CAT C/D 1/4 SM." - DUE TO UPDATED INFORMATION.
13. NOTES: AMENDED NOTE FROM "HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED" TO ". RWY 21 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED." - IAW 8260.19J 8-6-12K.
14. ADDITIONAL FLIGHT DATA: UPDATED FAS OBSTRUCTION FROM "1527 TREE (KDVLT000146) 480739N/0985321W" TO "1580 TREE 480827N/0985321W." - DUE TO NEW EVALUATION.
15. ADDITIONAL FLIGHT DATA: AMENDED CHART VDP FROM "AT 1.05 NM TO RW21" TO "AT 1.17 NM TO RW21." - DUE TO NEW EVALUATION.
16. MINIMUMS: LNAV/VNAV DA, ALL CATS CHANGED FROM "DA 1699, VIS 1 SM, AND HAT 250" TO "DA 1840, VIS 1 1/8 SM, AND HAT 391." - DUE TO NEW CONTROLLING OBSTACLE.
17. MINIMUMS: LNAV MDA, ALL CATS CHANGED FROM "MDA 1800, VIS 1 SM, AND HAT 351" TO "CAT A/B MDA 1840, VIS 1 SM, AND HAT 391" AND "CAT C/D MDA 1840, VIS 1 1/8 SM, AND HAT 391." - DUE TO NEW CONTROLLING OBSTACLE.
18. MINIMUMS: AMENDED CIRCLING CAT A/B HAA FROM "530" TO "531" AND C/D HAA FROM "770" TO "771." - DUE TO AIRPORT ELEVATION CHANGE FROM "1470" TO "1469."
19. FAS DATA BLOCK: CRC REMAINDER AMENDED FROM "893C81FE" TO "0174204A." - DUE TO LTP/FTP AMENDED LAT/LONG FROM "480709.3190N/0985408.0330W" TO "480709.3175N/0985408.0275W", LTP/FTP ELLIPSOIDAL HEIGHT CHANGE FROM "+04155" TO "+04154", FPAP AMENDED LAT/LONG FROM "480606.4200N/0985542.1400W" TO "480606.4175N/0985542.1355W", AND LENGTH OFFSET AMENDED FROM "1216" TO "1432."

COORDINATED WITH:

A4A
 ALPA
 AOPA
 APA
 HAI
 NBAA

OTHER: ZMP, ARPT MGR.

FLIGHT CHECKED BY

JOSHUA G TOPLIFF

Digitally signed by

ROBERT G HAMILTON

Sep 11, 2025

OFFICE

AJF

DATE

09/09/2025

DEVELOPED BY

ERIC N SUSKI (CORY SLANE)

Digitally signed by

ROBERT G HAMILTON

Sep 11, 2025

OFFICE

AJV-33

DATE

APPROVED BY

ERIC N SUSKI

Digitally signed by

ROBERT G HAMILTON

Sep 11, 2025

OFFICE

AJV-33

DATE

TITLE

MANAGER



AIRPORT ID
DVL

PROCEDURE NAME
RNAV (GPS) RWY 21

ORIGINAL/AMENDMENT
1C

CITY
DEVILS LAKE

STATE
ND

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KDVL
RUNWAY	RW21
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W21A
LTP/FTP LATITUDE	480709.3175N
LTP/FTP LONGITUDE	0985408.0275W
LTP/FTP ELLIPSOIDAL HEIGHT	+04154
FPAP LATITUDE	480606.4175N
FPAP LONGITUDE	0985542.1355W
THRESHOLD CROSSING HEIGHT (TCH)	00050.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1432
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

CRC REMAINDER 0174204A

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+04392
FPAP ORTHOMETRIC HEIGHT	+04392

