

**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 APN	PROCEDURE NAME RNAV (GPS) RWY 1	ORIGINAL/AMENDMENT ORIG-E	CITY ALPENA	STATE MI
AIRPORT ELEVATION 690	TDZE 685	SUPERSEDED RNAV (GPS) RWY 1	DATED 08/13/2020	MAG VAR 7W
FACILITY RNAV	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE 26 DECEMBER 2024	REQUIRED EFFECTIVE DATE ROUTINE	EPOCH YEAR 1985
			CANCEL/SUSPEND	

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
RABBO		HOLKI		TF	FB	1.00	157.45	32.62	3000
SPARR		HOLKI		TF	FB	1.00	114.99	33.19	3100
WHOOOP	IAF	JEGOB	NOPT	TF	FB	1.00	025.57	34.77	3000
HOLKI	IAF	JEGOB	NOPT	TF	FB	1.00	096.44	5.00	2800
JEGOB	IF/IAF	ONSOE		TF	FB	1.00	006.80	6.00	2800
ONSOE	FAF	RW01	MAP	TF	FO	0.30	006.80	6.37	
RW01	MAP	974 MSL		CA			006.80		
974 MSL		HIMVO		DF	FB	1.00			
HIMVO		RABBO		TF	FO	1.00	307.05	24.10	3500

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW01

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3500 DIRECT HIMVO AND ON TRACK 307.05 TO RABBO AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

- PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
- HOLD S JEGOB, RT, 006.80 INBOUND, 2800 FT. IN LIEU OF PT (IAF), MAX 6000.
- FAC: 006.80 FAF: ONSOE DIST FAF TO MAP: 6.37 DIST FAF TO THLD: 6.37
- MIN ALT: JEGOB 2800, ONSOE 2800
- DIST TO THLD FROM OM: MM: IM: 150 HAT: 289 HAT: 0.75 GS ANT: IM:
- MIN GP INCPT: 2800 GP ALT AT PFAF: ONSOE 2800 MM: IM:
- GP ANGLE: 3.00 34:1: IS CLEAR 20:1: IS CLEAR TCH: 52.3
- MSA FROM: RW01 3500



PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16°C OR ABOVE 54°C.
 CHART NOTE: BARO-VNAV AND VDP NA WHEN USING PZQ ALTIMETER SETTING.
 CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT RABBO ON V78 NORTHWEST BOUND.
 CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT WHOOP ON V45 SOUTHBOUND.
 CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT SPARR ON V420 WESTBOUND.
 CHART NOTE: FOR INOPERATIVE ALS, INCREASE LPV ALL CATS VISIBILITY TO 7/8 SM, LNAV/VNAV ALL CATS VISIBILITY TO 1 SM AND LNAV CATS C/D VISIBILITY TO 1 3/8 SM.
 CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE PZQ ALTIMETER SETTING AND INCREASE LPV DA TO 1029 FEET AND ALL VISIBILITIES 1/8 SM; INCREASE LNAV/VNAV DA TO 1084 FEET; INCREASE ALL MDAS 60 FEET.
 CHART NOTE: FOR INOPERATIVE ALS WHEN USING PZQ ALTIMETER SETTING, INCREASE LPV ALL CATS VISIBILITY TO 1 SM.

ADDITIONAL FLIGHT DATA:

CHART: PIKEWEST MOA

HOLD NW, RT, 132.46 INBOUND.
 CHART FAS OBST: 890 TREE 450018N/0833435W.
 CHART VDP AT 1.33 NM TO RW01.
 WAAS CHANNEL # 50310
 REFERENCE PATH ID: W01A
 CHART CIRCLING ICON.
 LTP HAE: 171.7 M

MINIMUMS:

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

ALTERNATE: NA STANDARD

<u>CATEGORY:</u>	<u>A</u>			<u>B</u>			<u>C</u>			<u>D</u>			<u>E</u>		
	<u>FINAL TYPE</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>
LPV DA	974	1/2	289	974	1/2	289	974	1/2	289	974	1/2	289			
LNAV/VNAV DA	1029	5/8	344	1029	5/8	344	1029	5/8	344	1029	5/8	344			
LNAV MDA	1160	1/2	475	1160	1/2	475	1160	1	475	1160	1	475			
CIRCLING	1160	1	470	1160	1	470	1220	1 1/2	530	1300	2	610			



CHANGES - REASONS

1. INCORPORATED PNOTAMS FOR AMDT ORIG-A, ORIG-B, ORIG-C AND ORIG-D.
2. ALTERNATE MINS: DELETED "NA WHEN LOCAL WEATHER NOT AVAILABLE" - NO BACK UP ALTIMETER REQUIRED, 8260.19I 8-6-11 MEMO
3. PROFILE LINE 2: ADDED "MAX 6000" TO HOLD IN LIEU DATA - 8260.19I 8-6-7B(2).
4. PROFILE LINE 5: CHANGED DISTANCE TO THLD FROM 200 HAT: 0.47 TO 289 HAT: 0.75 NM - 8260.19I 8-6-7E(4) AND INCREASED HAT DUE TO NEW CNTL OBST FROM AMDT ORIG-A.
5. PBN EQUIPMENT NOTE: CHANGED "RNP APCH" TO "RNP APCH-GPS" - 8260.19I 8-6-8B(2)
6. NOTES: DELETED ALL BACK-UP ALTIMETER NOTES - NO BACK-UP WEATHER SOURCE REQUIRED, KAPN HAS NWS AS BACK-UP.
7. CHANGED CHART NOTE FROM "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16°C OR ABOVE 48°C" TO "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16°C OR ABOVE 54°C - UPDATED TARGETS CALCULATIONS.
8. CHANGED CHART NOTE FROM "CHART NOTE: FOR INOPERATIVE ALS, INCREASE LPV ALL CATS VISIBILITY TO 1" TO "CHART NOTE: FOR INOPERATIVE ALS, INCREASE LPV ALL CATS VISIBILITY TO 7/8 SM, LNAV/VNAV ALL CATS VISIBILITY TO 1 SM AND LNAV CATS C/D VISIBILITY TO 1 3/8 SM" - 8260.3E TABLE 3-3-1.
9. ADDITIONAL FLIGHT DATA: DELETED 761 TREE 450314N/0833352W - ONLY NONPRECISION CONTROLLING OBST IS PUBLISHED IAW 8260.19I 8-6-10C.
10. CHANGED LNAV/VNAV VIS FROM 3/4 TO 5/8 ALL CATS - 8260.3E TABLE 3-3-1.
11. CHANGED LNAV CAT C VIS FROM 3/4 TO 1 -- 8260.3E TABLE 3-3-1.
12. FAS DATA: VAL CHANGED FROM 35 TO 50 -- LPV HAT IS 250 OR GREATER IAW 8260.19I APPENDIX K4X.
13. FAS DATA: LTP/FTP ELLIPSOIDAL HEIGHT CHANGED FROM +01716 TO +01717 - AIRNAV DATA.
14. FAS DATA: LTP/FTP COORDS CHANGED FROM 450353.7800N/0833340.9400W TO 450353.7875N/0833340.9250W - UPDATED SURVEY.
15. FAS DATA: FPAP CHANGED FROM 450522.8300N/0833341.3800W TO 450522.8760/0833341.3650W - NEW TARGETS CALCULATION BASED ON LTP/FTP CHANGE.
16. CRC REMAINDER CHANGED FROM 0500BCCB TO 5FB8FE09 - FAS DATA CHANGES.
17. SPLIT CHART NOTE: PROCEDURE NA FOR ARRIVALS AT WHOOP ON V45 SOUTHBOUND, AND ARRIVALS AT SPARR ON V420 WESTBOUND, AND ARRIVALS AT RABBO ON V78 NORTHWEST BOUND INTO 3 SEPARATE NOTES - 8260.19J IMPLEMENTATION MEMO 290 ATTCH 4 PARA 7.

07/25/24: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 09/15/23.

1. ADDED CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE PZQ ALTIMETER SETTING AND INCREASE LPV DA TO 1029 FEET AND ALL VISIBILITIES 1/8 SM; INCREASE LNAV/VNAV DA TO 1084 FEET; INCREASE ALL MDAS 60 FEET - BACK-UP WX SOURCE ADDED.
2. ADDED CHART NOTE: BARO-VNAV AND VDP NA WHEN USING PZQ ALTIMETER SETTING - BACK-UP WX SOURCE ADDED.
3. CHANGED CIRCLING CAT D MDA/HAA FROM 1280/590 TO 1300/610 - APPLIED UPDATED AAO TO MATCH ORIG RNAV PROCEDURES FOR RWY 7/25 IN DEVELOPMENT FOR THE SAME CHART CYCLE.
4. ADDED CHART NOTE: FOR INOPERATIVE ALS WHEN USING PZQ ALTIMETER SETTING, INCREASE LPV ALL CATS VISIBILITY TO 1 SM - BACK-UP WX SOURCE ADDED.

COORDINATED WITH:

A4A **ALPA** **AOPA** **APA** **HAI** **NBAA**

OTHER: ZMP, APN APP CON, APT MGR

FLIGHT CHECKED BY

MICHAEL A GREENWOOD

Digitally signed by

ALLAN WILL

Nov 05, 2024

OFFICE

AJF

DATE

11/01/2024

DEVELOPED BY

ALLAN WILL (STEVEN SCHUTRUM)

Digitally signed by

ALLAN WILL

Nov 05, 2024

OFFICE

AJV-A423

DATE

04/25/2024

APPROVED BY

ALLAN WILL

Digitally signed by

ALLAN WILL

Nov 05, 2024

OFFICE

AJV-A423

DATE

09/05/2024

TITLE

MANAGER



AIRPORT ID
APN

PROCEDURE NAME
RNAV (GPS) RWY 1

ORIGINAL/AMENDMENT
ORIG-E

CITY
ALPENA

STATE
MI

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KAPN
RUNWAY	RW01
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W01A
LTP/FTP LATITUDE	450353.7875N
LTP/FTP LONGITUDE	0833340.9250W
LTP/FTP ELLIPSOIDAL HEIGHT	+01717
FPAP LATITUDE	450522.8760N
FPAP LONGITUDE	0833341.3650W
THRESHOLD CROSSING HEIGHT (TCH)	00052.3
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0008
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

CRC REMAINDER 5FB8FE09

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+02081
FPAP ORTHOMETRIC HEIGHT	+02081

