

**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 ID</u> KCAD	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 25	<u>ORIGINAL/AMENDMENT</u> ORIG-B	<u>CITY</u> CADILLAC	<u>STATE</u> MI		
<u>AIRPORT ELEVATION</u> 1307	<u>TDZE</u> 1305	<u>SUPERSEDED</u> RNAV (GPS) RWY 25	<u>ORIGINAL/AMENDMENT</u> ORIG-A	<u>DATED</u> 09/20/2012	<u>MAG VAR</u> 4W	<u>EPOCH YEAR</u> 1985
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 2 DECEMBER 2021	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>		

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>
TVC VOR/DME		FUNWI		TF	FB	1.00	139.23	20.10	3000
MBL DME		FUNWI		TF	FB	1.00	081.54	45.50	3200
MOP VOR/DME		USOYU		TF	FB	1.00	340.78	42.73	3000
FUNWI	IAF	TEVUY	NOPT	TF	FB	1.00	160.50	5.00	3000
USOYU	IAF	TEVUY	NOPT	TF	FB	1.00	340.56	5.00	3000
TEVUY	IF/IAF	JERRO		TF	FB	1.00	250.53	6.10	3000
JERRO	FAF	RW25	MAP	TF	FO	0.30	250.44	5.13	
RW25	MAP	1625 MSL		CA					
1625 MSL		WIKAP		DF	FO	1.00			3600

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW25

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3600 DIRECT WIKAP AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF

(IAF)

2. HOLD E TEVUY, RT, 250.53 INBOUND, 3000 FT. IN LIEU OF PT (IAF), MAX 6000.

3. FAF: 250.44FAF: JERRODIST FAF TO MAP: 5.13DIST FAF TO THLD: 5.13

4. MIN ALT: TEVUY 3000, JERRO 3000

5. DIST TO THLD FROM FAF: 5.13MM:IM:150 HAT:320 HAT: 0.88GS ANT:

6. MIN GP INCPT: 3000GP ALT AT FAF : JERRO 3000OM:MM:IM:

7. GP ANGLE: 3.0434:1: IS NOT CLEAR20:1: IS CLEARTCH: 44.0

8. MSA FROM: RW25 4000

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: CIRCLING NA TO RWYS 18 AND 36.
CHART NOTE: RWY 25 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -24°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 ARRIVAL ON TVC VOR/DME AIRWAY RADIALS 138 CW 188.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT MOP VOR/DME ON V233 SOUTHBOUND.

ADDITIONAL FLIGHT DATA:

HOLD W, RT, 070.18 INBOUND.
CHART FAS OBST: 1579 TREE 441800N/0852239W.
CHART VDP AT 1.52 NM TO RW25.
WAAS CHANNEL # 97513
REFERENCE PATH ID: W25A
CHART CIRCLING ICON.
LTP HAE: 362.2 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	1625	7/8	320	1625	7/8	320	1625	7/8	320	1625	7/8	320			
LNAV/VNAV DA	1869	1 5/8	564	1869	1 5/8	564	1869	1 5/8	564	1869	1 5/8	564			
LNAV MDA	1840	1	535	1840	1	535	1840	1 1/2	535	1840	1 1/2	535		QUALITY 10 CHECKED	
CIRCLING	1840	1	533	1840	1	533	2040	2	733	2060	2 1/2	753			

CHANGES - REASONS

1. ADDED "MAX 6000" TO PROFILE LINE 2, ADDED "DIST TO THLD FROM FAF: 5.13" AND "320 HAT: 0.88" TO PROFILE LINE 5, AND ADDED "20:1: IS CLEAR" AND CHANGED GP ANGLE FROM 3.00 TO 3.04 IN PROFILE LINE 7. - IAW 8260.19I 8-6-7 AND CURRENT DESIGN BASED OFF IAPA EVAL/CHANGED TO AIRNAV SURVEY DATA.
2. REMOVED DME/DME RNP-0.3 NA FROM NOTES AND ADDED RNP APCH - GPS TO PBN REQUIREMENTS NOTE. - IAW 8260.19I 8-6-8.
3. CHANGED HELICOPTER VIS NOTE FROM "VISIBILITY REDUCTION BY HELICOPTERS NA" TO "RWY 25 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED", REMOVED SECONDARY ALTIMETER NOTES, CHANGED BARO-VNAV NOTE FROM "LNAV/VNAV NA BELOW -17 C (2 F) OR ABOVE 46 C (114 F)" TO "LNAV/VNAV NA BELOW -24°C OR ABOVE 54°C", ADDED VGSI NOT COINCIDENT NOTE, CHANGED TVC ARRIVAL NOTE FROM "AT TVC VOR/DME ON AIRWAY RADIALS 138 CW 188" TO "ON TVC VOR/DME AIRWAY RADIALS 138 CW 188, CHANGED MOP VOR/DME ARRIVAL NOTE FROM "VIA V233 SOUTHBOUND" TO "ON V233 SOUTHBOUND", AND ADDED "CIRCLING NA TO RWYS 18 AND 36" IN NOTES. - IAW 8260.19I 8-6-9, RWY 18 AND 36 ARE TURF, AND SECONDARY ALTIMETER NOTES ENTERED IN BACK OF -9.
4. REMOVED 1460 TREE FAS OBST, CHANGED 1579 TREE FAS OBST FROM 441800N/0852237W TO 441800N/0852239W, REMOVED DIST TO THLD FROM 320 HAT, CHANGED VDP FROM "1.56 MILES TO RW25* *LNAV ONLY" TO "1.52 NM TO RW25", AND ADDED CHART CIRCLING ICON TO ADDITIONAL FLIGHT DATA. - IAW 8260.19I 8-6-10, NEW EVAL COMPLETED, AND CIRCLING RADII UPDATED BASED ON ILS OR LOC RWY 7 FULL AMDT.
5. ADDED CAT D 800-2 1/2 TO ALT MINS. - CIRCLING RADII UPDATED WITH NEW CONT OBSTS.
6. MINS CHANGED LPV ALL CATS FROM 1 1/4 SM TO 7/8 SM, LNAV/VNAV ALL CATS FROM 2 SM TO 1 5/8 SM, AND LNAV CAT D FROM 1 3/4 SM TO 1 1/2 SM. -
7. CIRCLING MINS CHANGED CAT A/B FROM 1900/593 TO 1840/533, CAT C FROM 1900/593/1 1/2 SM TO 2040/733/2 SM, AND CAT D FROM 1900/593/2 SM TO 2060/753/2 1/2 SM. - CIRCLING RADII UPDATED WITH NEW CONT OBSTS.
8. CRC REMAINDER CHANGED FROM 5DE85DE6 TO D054CC3B. - GPA CHANGED FROM 3.00 TO 3.04, FPAP CHANGED FROM 441606.4300N/0852641.6900W TO 441606.4375N/0852641.6890W.

COORDINATED WITH:

A4A ☐

ALPA ☒

AOPA ☒

APA ☐

HAI ☐

NBAA ☒

OTHER: ZMP, AMGR

FLIGHT CHECKED BY

JAMES ONIEAL

DEVELOPED BY

JOHN BORDY (ANDRE TUCKER)

APPROVED BY

MARLON ROBINSON

Digitally signed by

JOHN BORDY

Sep 15, 2021

Digitally signed by

JOHN BORDY

Sep 15, 2021

Digitally signed by

JOHN BORDY

Sep 15, 2021

OFFICE

FPO

OFFICE

AJV-A422

OFFICE

AJV-A420

DATE

09/08/2021

DATE

07/14/2021

DATE

TITLE
MANAGER



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KCAD
RUNWAY	RW25
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W25A
LTP/FTP LATITUDE	441642.1715N
LTP/FTP LONGITUDE	0852448.0865W
LTP/FTP ELLIPSOIDAL HEIGHT	+03622
FPAP LATITUDE	441606.4375N
FPAP LONGITUDE	0852641.6890W
THRESHOLD CROSSING HEIGHT (TCH)	00044.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.04
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1224
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	D054CC3B

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+03955
FPAP ORTHOMETRIC HEIGHT	+03955

