

US DEPARTMENT OF TRANSPORTATION  
FEDERAL AVIATION ADMINISTRATION

**RNAV (GPS) - STANDARD  
INSTRUMENT APPROACH PROCEDURE  
FAR PART 97.33**

Bearings, headings, courses, 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 in feet RVR.

TERMINAL ROUTES				MISSED APPROACH
FROM	TO	COURSE AND DISTANCE	ALTITUDE	
SWEDD (IAF)	GASBE (FB)	325.54 / 6.01	8000	LPV: DA LNAV/VNAV: DA LNAV: RW27  CLIMB TO 9000 DIRECT EKIKE AND VIA 355.18 TRACK TO WOKEN AND HOLD.  ADDITIONAL FLIGHT DATA: HOLD SW, RT, 026.00 INBOUND. CHART ARRIVAL HOLDING AT SWEDD: HOLD SE, RT, 325.54 INBOUND, 10000. CHART FAS OBST: 4348 ANT ON OL STK 463509N/1115516W CHART FAS OBST: 4579 TREE 463507N/1114438W CHART 5499 TREE 463523N/1114349W. DISTANCE TO THLD FROM 1113 HAT: 3.35 NM. CHART VDP AT 4.84 MILES TO RW27* *LNAV ONLY. WAAS CHANNEL # 69405 REFERENCE PATH ID: W27A CHART TDZE: 3852 CHART AIRPORT ELEV: 3877
GASBE (IF)	BIBDE (FB)	266.98 / 6.01	7100	

1. PT NA SIDE OF COURSE OUTBOUND FT WITHIN        MILES OF        (IAF)
2. PROFILE STARTS AT GASBE
3. FAC: 266.88 FAF: BIBDE DIST FAF TO MAP: 9.78 THLD: 9.78
4. MIN. ALT: GASBE 8000, BIBDE 7100
5. DIST TO THLD FROM OM:        MM:        IM:        150 HAT:        100 HAT:        GS ANT:
6. MIN GS INCPT: 7100 GS ALT AT: BIBDE 7100 OM:        MM:        IM:
7. GS ANGLE: 3.00 TCH: 54.5 34:1 IS CLEAR
8. MSA FROM: RW27 10700

MAG VAR: 16E EPOCH YEAR: 1990

**MINIMUMS**

TAKEOFF:	<input type="checkbox"/> STANDARD	<input checked="" type="checkbox"/> X	SEE FAA FORM 8260-15A FOR THIS AIRPORT	ALTERNATE: N A	@										
CATEGORY =====>	A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
LPV DA	4965	2	1113	4965	2	1113	4965	3	1113	4965	3	1113			
LNAV/VNAV DA	5289	2	1437	5289	2	1437	5289	3	1437	5289	3	1437			
LNAV MDA	5440	1 1/4	1588	5440	1 1/2	1588	5440	2 1/2	1588	5440	2 1/2	1588			
CIRCLING	5440	1 1/4	1563	5440	1 1/2	1563	5440	3	1563	5440	3	1563			

NOTES:  
 CHART NOTE: CIRCLING NA FOR CAT D SOUTH OF RWY 9-27. @ CAT A, B 1600-2, CAT C, D 1600-3  
 CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -22C (-7F) OR ABOVE 42C (107F).  
 CHART NOTE: DME/DME RNP-0.3 NA.  
 SEE 8260-10

CITY AND STATE	ELEVATION: 3877 TDZE: 3852	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP: RNAV (GPS) RWY 27
HELENA, MT	AIRPORT NAME: HELENA REGIONAL	RNAV	RNAV (GPS) X RWY 27, AMDT 1A 07 MAY 2009	AMDT: 1
				DATED 09/25/2008

5  
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**NOTES CONT.**

CHART PLANVIEW AND PROFILE NOTE: FOR LPV FLY VISUAL TO AIRPORT, 267 DEGREES - 3.3 MILES.  
 CHART PLANVIEW AND PROFILE NOTE: FOR LNAV/VNAV FLY VISUAL TO AIRPORT, 267 DEGREES - 4.4 MILES.  
 CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO LNAV CATS A-B.

CITY AND STATE <b>HELENA, MT</b>	ELEVATION: 3877 TDZE: 3852 AIRPORT NAME: <b>HELENA REGIONAL</b>	FACILITY IDENTIFIER: <b>RNAV</b>	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: <b>RNAV (GPS) X RWY 27, AMDT 1A 07 MAY 2009</b>	SUP: <b>RNAV (GPS) RWY 27</b>
				AMDT: <b>1</b>
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**RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE**  
**FLIGHT STANDARDS SERVICE - FAR PART 97.33**

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**FAS DATA BLOCK INFORMATION**

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KHLN
RUNWAY	RW27
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	X
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W27A
LTP/FTP LATITUDE	463610.7595N
LTP/FTP LONGITUDE	1115745.9565W
LTP/FTP ELLIPSOIDAL HEIGHT	+11587
FPAP LATITUDE	463630.7100N
FPAP LONGITUDE	1115954.4700W
THRESHOLD CROSSING HEIGHT (TCH)	00054.5
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0064
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

**CRC REMAINDER** 451204E5

**ADDITIONAL PATH POINT RECORD INFORMATION**

ICAO CODE	K1
LTP ORTHOMETRIC HEIGHT	+11719
FPAP ORTHOMETRIC HEIGHT	+11719

CITY AND STATE  
HELENA, MT

ELEVATION: 3877 TDZE: 3852  
 AIRPORT NAME:  
HELENA REGIONAL

FACILITY IDENTIFIER:  
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:  
RNAV (GPS) X RWY 27, AMDT 1A  
07 MAY 2009

SUP: RNAV (GPS) RWY 27
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MSA 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012  
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SUSAP KHLNK1SRW27 K1PG 0 18018010725 M I

CITY AND STATE  
HELENA, MT

ELEVATION: 3877 TDZE: 3852  
AIRPORT NAME:  
HELENA REGIONAL

FACILITY IDENTIFIER:  
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:  
RNAV (GPS) X RWY 27, AMDT 1A  
07 MAY 2009

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ARINC FLIGHT INSPECTION SUMMARY - VERSION 424-18 - RNAV (GPS)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE
	SWEDD	SWEDD	010		IF		FB				
	SWEDD	GASBE	020		TF		FB	1.0	325.5 (342T)	006.0	08000
		GASBE	010	FACF	IF		FB				08000
		BIBDE	020	FAF	TF		FB	0.5	267.0 (283T)	006.0	07100
		RW27	030	MAP	TF		FO	0.3	266.9 (283T)	009.8	03900

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE
	EKIKE	040		DF		FB	1.0			
	WOKEN	050		TF		FO	1.0	355.2 (011T)		09000
	WOKEN	060		HM	R	FO	2.0	026.0 (042T)	007.0	09000

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	BIBDE	N463400.81	W1114355.94	N4634.014	W11143.932
	EKIKE	N463742.70	W1120740.45	N4637.712	W11207.674
	GASBE	N463240.22	W1113527.03	N4632.670	W11135.451
	SWEDD	N462658.45	W1113241.66	N4626.974	W11132.694
	WOKEN	N465854.79	W1120133.14	N4658.913	W11201.552
	RW27	N463610.76	W1115745.96	N4636.179	W11157.766

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW27	03845	55

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