

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
VOR/DME STANDARD INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.23

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> KHLN	<u>PROCEDURE NAME</u> VOR-B	<u>ORIGINAL/AMENDMENT</u> 7C	<u>CITY</u> HELENA	<u>STATE</u> MT		
<u>AIRPORT ELEVATION</u> 3877	<u>TDZE</u>	<u>SUPERSEDED</u> VOR/DME-B	<u>ORIGINAL/AMENDMENT</u> 7B	<u>DATED</u> 07/16/2020	<u>MAG VAR</u> 16E	<u>EPOCH YEAR</u> 1990
<u>FACILITY</u> HLN	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>		

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
HLN VORTAC		SEWAL/8.40 DME					085.99	8.40	8300
KOTLE/15.00 DME CW	IAF	TICUS/15.00 DME					15.00 DME ARC		10000
TICUS/15.00 DME CW	IAF	HONVI/15.00 DME					15.00 DME ARC		10000
HONVI/15.00 DME CW	IAF	FAVOX/15.00 DME					15.00 DME ARC		9400
FAVOX/15.00 DME CW	IAF	JOVIX/15.00 DME	NOPT				15.00 DME ARC (HLN LR-078)		8400
LOCIS/15.00 DME CCW	IAF	JEVAM/15.00 DME					15.00 DME ARC		11100
JEVAM/15.00 DME CCW	IAF	HUDUB/15.00 DME					15.00 DME ARC		11100
HUDUB/15.00 DME CCW		CUSRI/15.00 DME					15.00 DME ARC		10000
CUSRI/15.00 DME CCW	IAF	JOVIX/15.00 DME	NOPT				15.00 DME ARC (HLN LR-094)		8400
JOVIX/15.00 DME	IF	SEWAL/8.40 DME					265.99	6.60 (HLN R-086)	7300

MISSED APPROACH

MAP:

HLN VORTAC

MISSED APPROACH INSTRUCTIONS:

CLIMBING RIGHT TURN TO 9000 ON HLN VORTAC R-336 TO WOKEN INT/GTF 37.7 DME AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS (DO NOT CHART):

CLIMBING RIGHT TURN TO 6600 ON HLN VORTAC R-336 THEN CLIMBING LEFT TURN TO 8400 DIRECT HLN VORTAC AND HOLD E, RT, 266.00 INBOUND.



PROFILE:

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)

2. HOLD E SEWAL, RT, 265.99 INBOUND, 7300 FT. IN LIEU OF PT (IAF), MAX 14000.

3. FAC: 265.99 FAF: SEWAL/8.40 DME DIST FAF TO MAP: DIST FAF TO THLD:

4. MIN ALT: SEWAL/8.40 DME 7300, JUBTI/4.00 DME 5420

8. MSA FROM: HLN VORTAC 045-135 10200, 135-225 10700, 225-315 9600, 315-045 9200

EQUIPMENT REQUIREMENTS NOTES:

DME REQUIRED.

NOTES:

CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.
CHART NOTE: DME ARC TO FINAL APPROACH COURSE REQUIRED FOR TURBOJET AIRCRAFT.
CHART NOTE: HOLDING AT SEWAL AUTHORIZED FOR CATEGORY A AND B AIRCRAFT ONLY.
CHART NOTE: CIRCLING NA TO RWYS 10, 28.
CHART NOTE: CIRCLING RWY 5, 23, 35 NA AT NIGHT.
CHART NOTE: CIRCLING NA FOR CAT D SOUTH OF RWY 9-27.

ADDITIONAL FLIGHT DATA:

CHART: HLN R-336 AT KOTLE.
CHART: 4979 TREE 463556N/1114410W
FAC 1878 R OF RWY C/L EXTENDED 1971 FROM THLD
CHART: 175K ICON AT SEWAL
HOLD SW, RT, 026.00 INBOUND.
CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD E HLN VORTAC, RT, 266.00 INBOUND.
CHART FAS OBST: 4348 ANT ON OL STK 463509N/1115516W.
CHART IN PLANVIEW: HLN VORTAC.
CHART HLN R-336 AT KOTLE.
CHART HLN R-008 AT TICUS.
CHART HLN R-058 AT HONVI.
CHART HLN R-073 AT FAVOX.
CHART HLN R-208 AT LOCIS.
CHART HLN R-175 AT JEVAM.
CHART HLN R-124 AT HUDUB.
CHART HLN R-103 AT CUSRI.
CHART CIRCLING ICON.

MINIMUMS:

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

ALTERNATE: NA ☐ CAT A 900-2, CAT B 1000-2, CAT C, D 2100-3

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
CIRCLING	4760	1 1/4	883	4800	1 1/4	923	5920	3	2043	5920	3	2043			



AIRPORT ID
KHLN

PROCEDURE NAME
VOR-B

ORIGINAL/AMENDMENT
7C

CITY
HELENA

STATE
MT

CHANGES - REASONS

1. INCORPORATED T-NOTAM 9/8211.- TURF RUNWAYS AND 20:1 PENETRATIONS.
2. INCORPORATED P-NOTAMS 4/0900 (AMDT 7A) AND 0/2465 (AMDT 7B).- 8260.19I, 8-3-4.
3. RESTORED "CHART NOTE: CIRCLING NA SOUTH OF RWY 9-27 FOR CAT D." BACK TO 8260-3.- MOVED FROM NOTES IN 8260-9.
4. CHANGED PROCEDURE NAME FROM "VOR/DME-B" TO "VOR-B". - 8260.19I NAMING CONVENTION.
5. ADDED EQUIPMENT REQUIREMENTS NOTE: "DME REQUIRED". - 8260.19I, 8-6-8.A(2).
6. ADDED "CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED."- 20:1 PENETRATIONS.

COORDINATED WITH:

A4A ☐ **ALPA** ☒ **AOPA** ☒ **APA** ☐ **HAI** ☐ **NBAA** ☒ **OTHER:** ZLC ARTCC, HLN APP CON, AMGR, HLN ATCT

FLIGHT CHECKED BY

PROCESSED IAW AIRCRAFT OPERATIONS GROUP (AJF-10) MEMO, APRIL 29, 2020, SUBJECT:
FLIGHT INSPECTION REVIEW NOT REQUIRED

OFFICE

DATE

DEVELOPED BY

DONALD H. LANIER (TIA FERONTI)

Digitally signed by

DONALD H LANIER

Digitally signed by

DONALD H LANIER

Mar 01, 2021

OFFICE

AJV-A431

DATE

12/15/2020

APPROVED BY

LONNIE EVERHART

Digitally signed by

DONALD H LANIER

Mar 01, 2021

OFFICE

AJV-A430

DATE

TITLE
MANAGER

QUALITY
22
CHECKED

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

AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
KHLN	VOR-B	7C	HELENA	MT	3877	HLN

PART A: OBSTRUCTION DATA SEGMENTS

FEEDER

FROM HLN VORTAC TO SEWAL/8.40 DME

<u>RNP</u>	<u>DISTANCE</u> 8.40	<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>
1.200' AAO	462945.00N/1114833.00W		7094	164	98	4E	2000				SA-817	8300
2.TERRAIN	463236.00N/1114242.00W		5499 (5500)								AS1500	7000

COMPUTATIONS

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

SEGMENT REMARKS:

INITIAL: ARC

FROM KOTLE/15.00 DME CW TO TICUS/15.00 DME

<u>RNP</u>	<u>DISTANCE</u>	<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>
3.200' AAO	465336.00N/1114700.00W		7645	164	98	4E	1000				AT1043 PR312	10000
4.TERRAIN	465336.00N/1114700.00W		7445 (7400)								AS1500	8900

COMPUTATIONS

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

SEGMENT REMARKS:



INITIAL: ARC

FROM
TICUS/15.00 DME CW

TO
HONVI/15.00 DME

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
5.200' AAO	464921.10N/1114239.40W		8040	1000	3	6A	1000				AT648 PR312	10000
6.TERRAIN	464921.10N/1114239.40W		7840 (7800)								AS1500	9300

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INITIAL: ARC

FROM
HONVI/15.00 DME CW

TO
FAVOX/15.00 DME

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
7.200' AAO	463942.00N/1112927.00W		7484	164	98	4E	1000				PR312 SA-602 AT1206	9400
8.TERRAIN	463945.00N/1113006.00W		6644 (6600)								AS1500	8100

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



INITIAL: ARC

FROM
FAVOX/15.00 DME CW

TO
JOVIX/15.00 DME

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
9.200' AAO	463745.00N/1113121.00W		6109	164	98	4E	1000				PR312 AT979	8400
10.TERRAIN	463745.00N/1113121.00W		5909 (5900)								AS1500	7400

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INITIAL: ARC

FROM
LOCIS/15.00 DME CCW

TO
JEVAM/15.00 DME

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
11.200' AAO	462330.00N/1121539.00W		8698	164	98	4E	1000				AT1216 PR186	11100
12.TERRAIN	462330.00N/1121539.00W		8498 (8500)								AS1500	10000

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

11100 DUE TO HLN RESTRICTION.



INITIAL: ARC

FROM
JEVAM/15.00 DME CCW

TO
HUDUB/15.00 DME

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
13.200' AAO	461820.40N/1115457.30W		9640	1000	3	6A	1000				AT108 PR352	11100
14.TERRAIN	461820.40N/1115457.30W		9440 (9400)								AS1500	10900

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: ARC

FROM
HUDUB/15.00 DME CCW

TO
CUSRI/15.00 DME

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
15.200' AAO	462709.00N/1114718.00W		8485	164	98	4E	1000				AT291 PR224	10000
16.TERRAIN	462709.00N/1114718.00W		8285 (8300)								AS1500	9800

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: ARC

FROM
CUSRI/15.00 DME CCW

TO
JOVIX/15.00 DME

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
17.200' AAO	463251.00N/1114206.00W		5538	164	98	4E	1000				AT1862	8400
18.TERRAIN	463251.00N/1114206.00W		5338 (5300)								AS1500	6800

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

SEGMENT REMARKS:

INTERMEDIATE

FROM
JOVIX/15.00 DME

TO
SEWAL/8.40 DME

RNP	DISTANCE 6.60	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
19.200' AAO	463245.70N/1114253.90W		5717	1000	3	6A	500				AT1083	7300
20.TERRAIN	463245.70N/1114253.90W		5517 (5500)								AS1500	7000

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

SEGMENT REMARKS:



FINAL

FROM
SEWAL/8.40 DME

TO
JUBTI/4.00 DME

RNP	DISTANCE 4.40	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
21.100' TREE	463606.89N/1114535.59W		4459	50	20	2C	250				DG694	5420

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL: STEPDOWN

FROM
JUBTI/4.00 DME

TO
HLN VORTAC

<u>RNP</u>	<u>DISTANCE</u> 4.00	<u>PAT</u>	<u>MAP</u> HLN VORTAC	<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>
22.ANT ON OL STK (KHLN0073)	463508.83N/1115515.72W		4348	20	3	1A	250				MA144	4760

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



HOLD-IN-LIEU OF PT

FROM
SEWAL

TO
P-4

RNP	DISTANCE	PAT P-4	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
1.200' AAO	462945.00N/1114833.00W		7094	164	98	4E	1000				SA-977 PR158	7300
23.TERRAIN	463245.70N/1114253.90W		5517 (5500)								AS1500	7000

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

175K HOLDING AT SEWAL REQUIRED FOR P-4 HOLDING PATTERN.

MISSED APPROACH

FROM
HLN VORTAC

TO
WOKEN INT/37.68 DME

RNP	DISTANCE	PAT	MAP	HAT			HMAS 4510					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
24.200' AAO	465348.80N/1115911.80W		7000	50	20	2C		ASC				9000
24.200' AAO	465348.80N/1115911.80W		7000	50	20	2C	1000					8000
25.TERRAIN	465357.00N/1115915.00W		6785 (6800)								AS1500	8300

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



MISSED APPROACH ALTERNATE

FROM
HLN VORTAC

TO
HLN VORTAC

RNP	DISTANCE	PAT	MAP	HAT			HMAS 4510					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				8400
29.200' AAO	464718.00N/1120433.00W		5397	164	98	4E	1000				MAH2003	8400
30.TERRAIN	464718.00N/1120433.00W		5197 (5200)								AS1500	6700

COMPUTATIONS

ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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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											
26.100' TREE	463454.00N/1115758.00W	1.37	883	4339	50	20	2C	300			4760
CATEGORY B											
27.TREE	463436.00N/1120106.00W	1.95	923	4489	50	20	2C	300			4800
CATEGORY C											
28.TREE	463330.00N/1120148.00W	3.15	2043	5609	50	20	2C	300			5920
CATEGORY D											
28.TREE	463330.00N/1120148.00W	4.13	2043	5609	50	20	2C	300			5920

CIRCLING REMARKS:



MSA

CENTER
HLN VORTAC

RADIUS
25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
045-135	AAO	463319.90N/1111943.00W	081	26.0	9142	1000	3	6A	1000			10200
135-225	AAO	461820.40N/1115457.30W	159	18.1	9640	1000	3	6A	1000			10700
225-315	AAO	464418.00N/1123118.00W	273	24.8	8540	164	98	4E	1000			9600
315-045	AAO	465329.50N/1114436.20W	011	19.2	8200	1000	3	6A	1000			9200

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

MISSED APPROACH HOLDING - PR 295
ALTERNATE MISSED APPROACH HOLDING - 222

VDA NA. FINAL IS ALIGNED FOR CIRCLING ONLY.



PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH
HLN APP CON, HLN TOWER, ZLC ARTCC

<u>WX SERVICE</u> ASOS	<u>LOCATION</u> KHLN	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KHLN	<u>DISTANCE</u> 0	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 0
<u>BACK-UP WX SERVICE</u>	<u>LOCATION</u>	<u>HRS OPERATION</u>	<u>ALTIMETER SOURCE</u>	<u>DISTANCE</u>	<u>SERVICE-A</u>	<u>ADJUSTMENTS</u>

WX REMARKS:

<u>PRIMARY NAVAID</u> HLN VORTAC	<u>MONITOR POINT</u> POCC	<u>HRS OPERATION</u> 24	<u>CAT</u> 1
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<u>APPROACH AND RUNWAY LIGHTING SYSTEM</u>	<u>RUNWAY MARKINGS</u>	<u>RUNWAY VISUAL RANGE</u>
RW05 - MIRL (PCL), PAPI-2L	BSC-G	
RW17 - MIRL (PCL), REIL	BSC-G	
RW23 - MIRL (PCL), PAPI-2L	BSC-G	
RW35 - MIRL (PCL), REIL	BSC-G	
RW09 - HIRL (PCL), REIL (PCL), PAPI-4L (PCL)	PIR-G	
RW27 - MALSR (PCL), HIRL (PCL), PAPI-4L (PCL)	PIR-G	

<u>GLIDESLOPE ANGLE</u>	<u>ELEV RWY THRESHOLD</u>	<u>TCH</u>	<u>ELEV GS ANTENNA</u>	<u>DISTANCE FROM RWY</u>	<u>VGSI ANGLE</u>	<u>TCH</u>
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FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD	☐	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE
ON CENTERLINE	☐	FT FROM CENTERLINE	

CRITICAL TEMPERATURES

<u>CRITICAL LOW</u>	<u>CRITICAL HIGH</u>	<u>ACT</u>	<u>APT ISA</u>
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CRITICAL TEMPERATURE REMARKS:

"VISUAL PORTION OF FINAL" PENETRATIONS



AIRPORT ID KHLN		PROCEDURE NAME VOR-B	AMDT NO. 7C	CITY HELENA	STATE MT	AIRPORT ELEVATION 3877	FACILITY HLN
Final Type	CIRCLING RWY 05						
20:1							
3996 POLE (30-021053) 463607.25N/1120016.94W (18.95)				3894 TRAVERSE_WAY (30-041429) 463620.91N/1115955.72W (12.63)			
3904 TRAVERSE_WAY (30-039685) 463616.14N/1115955.91W (12.29)				3901 TRAVERSE_WAY (30-039691) 463618.49N/1115956.58W (11.95)			
3925 BUILDING (30-056858) 463613.86N/1120001.16W (11.87)				3904 TRAVERSE_WAY (30-039974) 463616.28N/1115956.24W (11.52)			
3898 TRAVERSE_WAY (30-039975) 463620.39N/1115957.15W (11)				3898 TRAVERSE_WAY (30-039972) 463619.91N/1115956.99W (10.53)			
3953 TREE (30-021049) 463615.41N/1120011.52W (9.92)				3953 TREE (30-040515) 463614.62N/1120011.45W (8.53)			
3912 BUILDING (30-044141) 463614.94N/1115959.06W (7.78)				3909 TRAVERSE_WAY (30-056710) 463618.29N/1120000.35W (7.49)			
3906 TRAVERSE_WAY (30-042372) 463617.46N/1115959.63W (5.1)				3908 TRAVERSE_WAY (30-043935) 463618.71N/1120001.27W (4.41)			
3882 TERRAIN (30-041405) 463618.36N/1115953.48W (2.59)				3909 TRAVERSE_WAY (30-046536) 463617.30N/1120001.77W (0.93)			
3886 TERRAIN (30-056545) 463617.04N/1115954.56W (0.44)				3934 POLE (30-021335) 463613.13N/1120007.09W (0.43)			
3906 TRAVERSE_WAY (30-056712) 463619.13N/1120002.17W (0.39)				3884 TERRAIN (30-039300) 463617.89N/1115954.58W (0.11)			
3905 BUILDING (30-021094) 463616.36N/1115955.52W (14.99)				3903 TRAVERSE_WAY (30-039686) 463617.05N/1115956.17W (12.32)			
3902 TRAVERSE_WAY (30-039689) 463617.79N/1115956.39W (12.13)				3903 TRAVERSE_WAY (30-039684) 463616.60N/1115956.02W (11.88)			
3900 TRAVERSE_WAY (30-056548) 463619.20N/1115956.79W (11.72)				3894 TRAVERSE_WAY (30-041655) 463620.78N/1115955.99W (11.5)			
3904 TRAVERSE_WAY (30-041675) 463616.62N/1115956.73W (10.65)				3897 TRAVERSE_WAY (30-039976) 463620.59N/1115957.19W (10.28)			
3907 TRAVERSE_WAY (30-040269) 463617.45N/1115958.55W (9.53)				3908 TRAVERSE_WAY (30-056708) 463617.90N/1115959.51W (8.38)			
3906 TRAVERSE_WAY (30-040001) 463615.70N/1115957.75W (7.52)				3904 TRAVERSE_WAY (30-040263) 463616.83N/1115958.26W (6.19)			
3908 TRAVERSE_WAY (30-045964) 463617.41N/1120000.33W (4.76)				3884 TERRAIN (30-041190) 463617.44N/1115953.18W (3.67)			
3952 TREE (30-042808) 463615.10N/1120013.40W (2.28)				3915 TRAVERSE_WAY (30-046565) 463614.04N/1120001.61W (0.79)			
3916 TRAVERSE_WAY (30-044477) 463614.03N/1120002.03W (0.43)				3914 TRAVERSE_WAY (30-044219) 463614.25N/1120001.55W (0.41)			
3910 TRAVERSE_WAY (30-046540) 463616.34N/1120001.71W (0.17)							
Final Type	CIRCLING RWY 10						
20:1							
3860 TERRAIN (30-040954) 463621.73N/1115935.13W (0.35)							
Final Type	CIRCLING RWY 23						
20:1							
3821 TERRAIN (30-021514) 463638.42N/1115846.64W (1.27)							
Final Type	CIRCLING RWY 28						

QUALITY
22
CHECKED



20:1	
3852 TERRAIN (30-043096) 463617.87N/1115905.86W (0.27)	
Final Type	CIRCLING RWY 35
20:1	
3904 BUILDING (30-057704) 463607.11N/1115846.17W (14.98)	3885 TRAVERSE_WAY (30-039325) 463610.07N/1115847.76W (11.04)
3885 TRAVERSE_WAY (30-038946) 463609.84N/1115849.33W (9.94)	3885 TRAVERSE_WAY (30-038939) 463609.75N/1115850.04W (9.51)
3888 TRAVERSE_WAY (30-038934) 463609.02N/1115853.78W (8.96)	3901 POLE (30-045989) 463606.24N/1115853.42W (7.87)
3891 TRAVERSE_WAY (30-054776) 463607.77N/1115853.78W (5.63)	3890 TRAVERSE_WAY (30-041462) 463607.78N/1115852.95W (4.65)
3890 TRAVERSE_WAY (30-046468) 463607.78N/1115851.79W (4.6)	3893 TRAVERSE_WAY (30-044668) 463607.09N/1115846.72W (3.9)
3889 TRAVERSE_WAY (30-045982) 463607.81N/1115847.92W (3.6)	3892 BUILDING (30-043692) 463607.01N/1115853.22W (2.76)
3893 TRAVERSE_WAY (30-043698) 463606.80N/1115853.42W (2.7)	3867 TERRAIN (30-042764) 463611.83N/1115847.62W (1.95)
3885 TRAVERSE_WAY (30-057703) 463610.18N/1115847.31W (11.58)	3885 TRAVERSE_WAY (30-039321) 463609.96N/1115848.59W (10.51)
3886 TRAVERSE_WAY (30-038936) 463609.57N/1115851.22W (9.64)	3887 TRAVERSE_WAY (30-041215) 463609.29N/1115853.32W (9.31)
3886 TRAVERSE_WAY (30-054768) 463609.39N/1115852.40W (8.78)	3900 BUILDING (30-000362) 463606.00N/1115853.00W (5.63)
3892 TRAVERSE_WAY (30-044427) 463607.49N/1115846.72W (4.93)	3890 TRAVERSE_WAY (30-046474) 463607.79N/1115850.96W (4.62)
3890 TRAVERSE_WAY (30-043691) 463607.79N/1115849.92W (4.58)	3889 TRAVERSE_WAY (30-057706) 463607.82N/1115846.96W (3.61)
3889 TRAVERSE_WAY (30-044401) 463607.80N/1115848.88W (3.59)	3893 TRAVERSE_WAY (30-043694) 463606.80N/1115853.77W (2.72)
3865 TERRAIN (30-021302) 463612.35N/1115850.22W (2.69)	

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

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

PENETRATIONS REMARKS:



PART C: GENERAL REMARKS:

VDP NOT ESTABLISHED - FINAL IS CIRCLING ONLY.

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

NO SUITABLE BACK-UP ALTIMETER AVAILABLE.

FAC ALIGNED 971' RIGHT OF RWY 27 CENTERLINE AND 2543' SHORT OF THE THLD.

MAP IS HLN VORTAC.

TERPS PARA 289 APPLIED TO 4979 TREE 463556N/1114410W

ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.



AIRPORT ID KHLN	PROCEDURE NAME VOR-B	AMDT NO. 7C	CITY HELENA	STATE MT	AIRPORT ELEVATION 3877	FACILITY HLN
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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	MAP	TO 1000FT POINT	3.67
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	2.37
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	281.99
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	4600
DISTANCE FROM	MAP	TO 1500FT POINT	6.00
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	2.60
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	281.99
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	4600

THRESHOLD
COORDINATES
(IF STR-IN)

ARP COORDINATES463624.20N/1115859.80W

RUNWAY APCH END
AND DIST FURTHEST
FROM ARP

RUNWAY 27 DISTANCE 0.86 NM

FAF
COORDINATES

FIX NAME
COORDINATES

REMARKS

MAP COORDINATES: HLN VORTAC 463624.56N/1115712.51W.

QUALITY
22
CHECKED

FAA Form 8260-9 / (11/16) Supersedes Previous Edition

Electronic Version

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PART E: PREPARED BY

<u>NAME</u> DONALD H. LANIER (TIA FERONTI)	<u>OFFICE</u> AJV-A431	<u>DATE</u> 12/15/2020	<u>TITLE</u> AERONAUTICAL INFORMATION SPECIALIST
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