

**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> 1S3	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 27	<u>ORIGINAL/AMENDMENT</u> 2A	<u>CITY</u> FORSYTH	<u>STATE</u> MT
<u>AIRPORT ELEVATION</u> 2729	<u>TDZE</u> 2728	<u>SUPERSEDED</u> RNAV (GPS) RWY 27	<u>DATED</u> 05/26/2016	<u>MAG VAR</u> 9E
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>EPOCH YEAR</u> 2020
				<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>
ASHLI	IAF	ATIZO		TF	FB	1.00	217.43	5.69	4900
ATIZO	IF	ALOSY		TF	FB	1.00	267.65	6.48	3900
ALOSY	FAF	RW27	MAP	TF	FO	0.30	267.54	3.52	
RW27	MAP	2978 MSL		CA			267.54		
2978 MSL		FREYA		DF	FB	1.00			
FREYA		CONUK		TF	FO	1.00	217.67	11.81	6000

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW27

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 6000 DIRECT FREYA AND ON TRACK 217.67 TO CONUK AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

- PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
- PROFILE STARTS AT ATIZO
- FAC: 267.54 FAF: ALOSY DIST FAF TO MAP: 3.52 DIST FAF TO THLD: 3.52
- MIN ALT: ATIZO 4900, ALOSY 3900
- DIST TO THLD FROM OM: MM: IM: 150 HAT: 250 HAT: 0.65 GS ANT:
- MIN GP INCPT: 3900 GP ALT AT PFAF: ALOSY 3900 OM: MM: IM:
- GP ANGLE: 3.00 34:1: IS NOT CLEAR 20:1: IS CLEAR TCH: 51.0
- MSA FROM: RW27 6100



PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: RWY 27 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
 CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
 CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -20°C OR ABOVE 54°C.
 CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT ASHLI ON V2-465 NORTHEAST BOUND.

ADDITIONAL FLIGHT DATA:

HOLD NE, RT, 244.81 INBOUND.
 CHART FAS OBST: 2789 TRANSMISSION_LINE (30-084865) 461602N/1063416W.
 CHART VDP AT 0.89 NM TO RW27.
 WAAS CHANNEL # 78125
 REFERENCE PATH ID: W27A
 LTP HAE: 816.1 M

MINIMUMS:

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

ALTERNATE: NA STANDARD - CAT D 1000-3, 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	2978	1	250	2978	1	250	2978	1	250	2978	1	250			
LNAV/VNAV DA	2978	1	250	2978	1	250	2978	1	250	2978	1	250			
LNAV MDA	3040	1	312	3040	1	312	3040	1	312	3040	1	312			
CIRCLING	3160	1	431	3380	1	651	3380	1 3/4	651	3700	3	971			

CHANGES - REASONS

1. NOTES: ADDED PBN REQUIREMENTS NOTE. - UPDATED TO NAVSPEC - SENSOR FORMAT PER CRITERIA
2. NOTES: BARO-VNAV SYSTEMS NOTE CHANGED FROM "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -20C (-4F) OR ABOVE 53C (128F)" TO " FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -20C OR ABOVE 54C". - REMOVED DEGREES FAHRENHEIT TO COMPLY WITH LATEST CRITERIA PHRASEOLOGY
3. NOTES: REMOVED DME/DME RNP-0.3 NA. - NOTE NO LONGER REQUIRED BY CRITERIA
4. NOTES: MOVED BACKUP ALTIMETER SETTING NOTE TO THE GENERAL REMARKS SECTION ON FORM 8260-9. - 1S3 AWOS IS NOW ON WMSCR
5. NOTES: UPDATED VDP AND BARO-VNAV NA NOTE FROM "VDP AND BARO-VNAV NA WHEN USING MILES CITY ALTIMETER SETTING" TO "BARO-VNAV AND VDP NA WHEN USING MLS ALTIMETER SETTING". - PHRASEOLOGY BROUGHT UP TO CURRENT CRITERIA AND NOTE MOVED TO THE GENERAL REMARKS ON FORM 8260-9
6. ADDITIONAL FLIGHT DATA: CHART FAS OBST CHANGED FROM "2779 APBN (K1S3T0004) 461602N/1063645W" TO "2789 TRANSMISSION_LINE (30-084865) 461602N/1063416W". - UPDATED PROCEDURE OBSTACLE EVALUATION
7. MINIMUMS: ALTERNATE: CHANGED FROM "NA" TO "STANDARD - CAT D 1000-3, NA WHEN LOCAL WEATHER NOT AVAILABLE". - 1S3 AWOS NOW ON WMSCR
8. MINIMUMS: FINAL TYPE: CIRCLING: CAT B MDA/HAA CHANGED FROM "3320/591" TO "3380/651". - CLEARS NOTAM, NEW CONTROLLING OBSTACLE PREVIOUSLY IDENTIFIED
9. MINIMUMS: FINAL TYPE: CIRCLING: CAT C MDA/HAA CHANGED FROM "3340/611" TO "3380/651". - CLEARS NOTAM, CIRCLING CAT C RAISED TO ALIGN WITH CIRCLING CAT B MDA/HAA



AIRPORT ID
1S3

PROCEDURE NAME
RNAV (GPS) RWY 27

ORIGINAL/AMENDMENT
2A

CITY
FORSYTH

STATE
MT

COORDINATED WITH:

A4A ALPA AOPA APA HAI NBAA OTHER: ZLC, AMGR

FLIGHT CHECKED BY

Digitally signed by
ROBERT G HAMILTON
Feb 05, 2026

OFFICE

AJF

DATE

02/03/2026

DEVELOPED BY

BRYANT SMITH

Digitally signed by
ROBERT G HAMILTON
Feb 05, 2026

OFFICE

AJV-A433

DATE

09/23/2025

APPROVED BY

ROBERT G HAMILTON

Digitally signed by
ROBERT G HAMILTON
Feb 05, 2026

OFFICE

AJV-A433

DATE

TITLE
MANAGER

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	1S3
RUNWAY	RW27
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W27A
LTP/FTP LATITUDE	461613.4710N
LTP/FTP LONGITUDE	1063652.1170W
LTP/FTP ELLIPSOIDAL HEIGHT	+08161
FPAP LATITUDE	461623.5030N
FPAP LONGITUDE	1063859.7425W
THRESHOLD CROSSING HEIGHT (TCH)	00051.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1288
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

CRC REMAINDER 3AF7513C

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K1
LTP ORTHOMETRIC HEIGHT	+08314
FPAP ORTHOMETRIC HEIGHT	+08314



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

<u>AIRPORT ID</u> 1S3	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 27	<u>AMDT NO.</u> 2A	<u>CITY</u> FORSYTH	<u>STATE</u> MT	<u>AIRPORT ELEVATION</u> 2729	<u>FACILITY</u> RNAV
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PART A: OBSTRUCTION DATA SEGMENTS

INITIAL

<u>FROM</u> ASHLI	<u>TO</u> ATIZO
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<u>RNP</u> 1.00	<u>DISTANCE</u> 5.69	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
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OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (30-000643)	461741.29N/1061459.57W	3188	20	3	1A	1000				AT712	4900
TERRAIN	461315.00N/1062133.00W	2811 (2800)								AS1500	4300

COMPUTATIONS

<u>ALT</u>	<u>KIAS</u>	<u>KTAS</u>	<u>HAA</u>	<u>VKTW</u>	<u>TR</u>	<u>BA</u>	<u>DTA</u>	<u>COURSE CHANGE</u>	<u>DVEB</u>	<u>VEB OCS</u>	<u>RF CENTER FIX/DISTANCE</u>
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SEGMENT REMARKS:

INTERMEDIATE

<u>FROM</u> ATIZO	<u>TO</u> ALOSY
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<u>RNP</u> 1.00	<u>DISTANCE</u> 6.48	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
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OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	461318.00N/1062254.00W	3150	215	8	4B	500					3700
TERRAIN	461315.00N/1062257.00W	2949 (2900)								AS1000	3900

COMPUTATIONS

<u>ALT</u>	<u>KIAS</u>	<u>KTAS</u>	<u>HAA</u>	<u>VKTW</u>	<u>TR</u>	<u>BA</u>	<u>DTA</u>	<u>COURSE CHANGE</u>	<u>DVEB</u>	<u>VEB OCS</u>	<u>RF CENTER FIX/DISTANCE</u>
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SEGMENT REMARKS:



AIRPORT ID
1S3

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RNAV (GPS) RWY 27

AMDT NO.
2A

CITY
FORSYTH

STATE
MT

AIRPORT ELEVATION
2729

FACILITY
RNAV

FINAL: LPV

FROM
ALOSY

TO
RW27

RNP
0.30

DISTANCE
3.52

PAT

MAP
DA

HAT
250

HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TRAVERSE_WAY (30-022366)	461612.27N/1063643.69W	2747	20	3	1A		34.00:1				2978

COMPUTATIONS

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

SEGMENT REMARKS:

FINAL: LNAV/VNAV

FROM
ALOSY

TO
RW27

RNP
0.30

DISTANCE
3.52

PAT

MAP
DA

HAT
250

HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				2978

COMPUTATIONS

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

SEGMENT REMARKS:

FINAL: LNAV

FROM
ALOSY

TO
RW27

RNP
0.30

DISTANCE
3.52

PAT

MAP
RW27

HAT
312

HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TRANSMISSION_LINE (30-084865)	461602.04N/1063415.53W	2789	20	3	1A	250					3040

COMPUTATIONS

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

SEGMENT REMARKS:



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MT

AIRPORT ELEVATION
2729

FACILITY
RNAV

MISSED APPROACH: LPV

FROM
DA **TO**
CONUK

RNP
0.30-1.00

DISTANCE

PAT

MAP

HAT

HMAS
2790

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				6000
AAO	460724.00N/1070209.00W	3718	215	8	4B	1000					4800
TERRAIN	460824.00N/1070103.00W	3444 (3400)								AS1500	4900

COMPUTATIONS

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

SEGMENT REMARKS:

MISSED APPROACH: LNAV/VNAV

FROM
DA **TO**
CONUK

RNP
0.30-1.00

DISTANCE

PAT

MAP

HAT

HMAS
2817

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				6000
AAO	460724.00N/1070209.00W	3718	215	8	4B	1000					4800
TERRAIN	460824.00N/1070103.00W	3444 (3400)								AS1500	4900

COMPUTATIONS

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

SEGMENT REMARKS:



AIRPORT ID
1S3

PROCEDURE NAME
RNAV (GPS) RWY 27

AMDT NO.
2A

CITY
FORSYTH

STATE
MT

AIRPORT ELEVATION
2729

FACILITY
RNAV

MISSED APPROACH: LNAV

FROM
RW27 **TO**
CONUK

RNP
0.30-1.00

DISTANCE

PAT

MAP

HAT

HMAS
2940

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				6000
AAO	460724.00N/1070209.00W	3718	215	8	4B	1000					4800
TERRAIN	460824.00N/1070103.00W	3444 (3400)								AS1500	4900

COMPUTATIONS

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

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											
TREE	461500.00N/1063821.00W	1.34	431	2839	215	8	4B	300		XP21	3160
CATEGORY B											
TOWER (30-084493)	461546.15N/1064010.27W	1.90	651	3013	250	50	4D	300		AC50	3380
CATEGORY C											
TRANSMISSION_LINE (30-084892)	461329.85N/1063623.39W	3.00	651	3039	20	3	1A	300		XP41	3380
CATEGORY D											
AAO	461251.00N/1063421.00W	3.93	971	3383	215	8	4B	300			3700

CIRCLING REMARKS:

XP ADJUSTMENTS TO MATCH CIRCLING CAT A TO CURRENT MINIMUMS, AND TO MATCH CIRCLING CAT C CMDA TO CIRCLING CAT B CMDA.



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FACILITY
RNAV

AVERAGE COLD TEMPERATURE DERIVED FROM STANDARD -30C ISA DEVIATION.
CRITICAL LOW TEMPERATURE BASED ON ACT.
DESCENT RATE (FPM): STANDARD TEMP 992 HIGH TEMP 1309.

"VISUAL PORTION OF FINAL" PENETRATIONS

FINAL TYPE	LPV, LNAV/VNAV, LNAV		
34:1			
2747 TRAVERSE_WAY (30-022366) 461612.2700N/1063643.6900W (7.48)	2746 TRAVERSE_WAY (30-024775) 461614.9400N/1063643.6700W (7.34)		
2746 TRAVERSE_WAY (30-022369) 461613.9600N/1063643.6700W (7.01)	2746 TRAVERSE_WAY (30-022367) 461613.0000N/1063643.6700W (6.69)		
2745 TRAVERSE_WAY (30-022365) 461611.1700N/1063643.6700W (5.07)	2744 TRAVERSE_WAY (30-024774) 461611.6200N/1063643.7000W (4.28)		
PENETRATIONS REMARKS:			

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

and/or

5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS

PENETRATIONS REMARKS:

PART C: GENERAL REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

30 FT VEGETATION HEIGHT USED.

FOR CONTINGENCY PURPOSES:

WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE MLS ALTIMETER SETTING AND INCREASE LPV DA TO 3066 FEET; INCREASE LNAV/VNAV DA TO 3066 FEET; INCREASE ALL MDAS 100 FEET AND LNAV VISIBILITY CAT C/D 1/8 SM, AND CIRCLING VISIBILITY CAT C 1/2 SM.

BARO-VNAV AND VDP NA WHEN USING MLS ALTIMETER SETTING.

ORDER 8260.3 CHAPTER 2 APPLIED TO 2937 AAO 461451.00N/1063209.00W.

ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.



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AIRPORT ELEVATION
2729

FACILITY
RNAV

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	THLD	TO 1000FT POINT	2.89
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.55
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	276.54
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	2720
DISTANCE FROM	THLD	TO 1500FT POINT	9.40
WIDTH OF	INTERMEDIATE	SEGMENT AT 1500FT POINT	4.00
TRUE COURSE OF	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	275.65
HIGH TERRAIN IN	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	3140

THRESHOLD COORDINATES (IF STR-IN) 461613.47N/1063652.12W
ARP COORDINATES 461616.14N/1063726.05W
RUNWAY APCH END AND DIST FURTHEST FROM ARP RUNWAY 27 DISTANCE 0.39 NM
FAF COORDINATES 461549.53N/1063149.59W
FIX NAME COORDINATES

REMARKS

PART E: PREPARED BY

<u>NAME</u>	<u>OFFICE</u>	<u>DATE</u>	<u>TITLE</u>
BRYANT SMITH	AJV-A433	09/23/2025	

