

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> KBVY	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 27	<u>ORIGINAL/AMENDMENT</u> 1C	<u>CITY</u> BEVERLY	<u>STATE</u> MA		
<u>AIRPORT ELEVATION</u> 107	<u>TDZE</u> 91	<u>SUPERSEDED</u> RNAV (GPS) RWY 27	<u>ORIGINAL/AMENDMENT</u> 1B	<u>DATED</u> 07/19/2018	<u>MAG VAR</u> 16W	<u>EPOCH YEAR</u> 1985
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 28 DECEMBER 2023	<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>
SNOOH	IF/IAF	VOVCU		TF	FB	1.00	270.45	6.67	1800
VOVCU	FAF	MIAOU/1.50 NM TO RW27		TF	FB	0.30	270.35	3.32	
MIAOU/1.50 NM TO RW27		RW27	MAP	TF	FO	0.30	270.35	1.50	
RW27	MAP	700 MSL		CA			270.35		700
700 MSL		WAKBI		DF	FO	1.00			2000

MISSED APPROACH

MAP:

LPV: DA
 LNAV/VNAV: DA
 LNAV: RW27

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 700 THEN CLIMBING RIGHT TURN TO 2000 DIRECT WAKBI AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF

(IAF)

2. HOLD E SNOOH, LT, 270.45 INBOUND, 1800 FT. IN LIEU OF PT (IAF), MAX 6000.

3. FAF: 270.35FAF: VOVCUDIST FAF TO MAP: 4.82DIST FAF TO THLD: 4.82

4. MIN ALT: SNOOH 1800, VOVCU 1800, MIAOU/1.50 NM TO RW27 660

5. DIST TO THLD FROM OM:MM:IM:150 HAT:347 HAT: 0.84GS ANT:

6. MIN GP INCPT: 1800GP ALT AT PFAF : VOVCU 1800OM:MM:IM:

7. GP ANGLE: 3.2234:1: IS NOT CLEAR20:1: IS CLEARTCH: 60.0

8. MSA FROM: RW27 2500

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: CIRCLING RWY 9 NA AT NIGHT.
CHART NOTE: RWY 27 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -18°C OR ABOVE 54°C.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).

ADDITIONAL FLIGHT DATA:

HOLD S, LT, 021.00 INBOUND.
CHART FAS OBST: 291 TANK (25-000543) 423445N/0705237W.
WAAS CHANNEL # 99731
REFERENCE PATH ID: W27A
CHART CIRCLING ICON.
LTP HAE: 0.8 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - CAT D 800-2 1/4, 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	444	1	353	444	1	353	444	1	353		NA				
LNAV/VNAV DA	438	1	347	438	1	347	438	1	347		NA				
LNAV MDA	540	1	449	540	1	449	540	1 3/8	449	540	1 3/8	449			
CIRCLING	600	1	493	600	1	493	820	2	713	820	2 1/4	713			



CHANGES - REASONS

1. INCORPORATED P-NOTAM 7/0981 FOR AMDT 1A.
2. INCORPORATED P-NOTAM 8/9547 FOR AMDT 1B.
3. ADDED RNP "1.00" TO 700 MSL LEG IN TERMINAL ROUTES -- UPDATED IAW 8260.19I, 8-6-4.A(6)(B).
4. ADDED "MAX 6000" IN PROFILE LINE 2 -- UPDATED IAW 8260.19I, 8-6-7.B(2).
5. DELETED ASTERISK AT MIAOU IN PROFILE LINE 4 AND "" LNAV ONLY" IN ADDITIONAL FLIGHT DATA -- UPDATED IAW 8260.19I, 1-1-5.F(12).
6. ADDED "20:1 IS CLEAR" IN PROFILE LINE 7 -- CONFIRMED CLEAR BY P-NOTAM 7/0981; UPDATED IAW 8260.19I, 8-6-7.G(3)(A).
7. CHANGED "RNP APCH" TO "RNP APCH - GPS" IN PBN REQUIREMENTS NOTE -- UPDATED IAW 8260.19I, 8-6-8.B(2).
8. CHANGED UNCOMPENSATED BARO-VNAV NOTE CRITICAL LOW TEMPERATURE FROM "-21C" TO "-18C" AND DELETED FAHRENHEIT TEMPERATURES -- UPDATED HISTORICAL ACT 2016-2020; UPDATED IAW 8260.19I, 8-6-9.R.
9. ADDED NOTE "VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET})" -- VGSI TCH OF 46 FEET VS. PROCEDURE TCH OF 60 FEET.
10. ADDED ID TO CHART FAS OBST IN ADDITIONAL FLIGHT DATA - UPDATED IAW 8260.19I, 8-6-10.C.
11. DELETED "FAS OBST: 357 AAO 423600N/0704927W" IN ADDITIONAL FLIGHT DATA -- 7:1 EXCLUSION UNNECESSARY; THIS IS THE CONTROLLING OBSTACLE IN LNAV FINAL SEGMENT VOVCU TO MIAOU.
12. UPDATED AND MOVED BACKUP ALTIMETER NOTES TO 8260-9 GENERAL REMARKS -- UPDATED IAW 8260.19I, 8-6-9.F(3).
13. CHANGED ALTERNATE MINIMUMS FROM "CAT D-2 1/2" TO "CAT D-2 1/4" -- CIRCLING CAT D VISIBILITY CHANGED.
14. CHANGED CIRCLING CAT D CMDA/HAA FROM "880/773" TO "820/713" AND VISIBILITY FROM "2 1/2" TO "2 1/4" -- UPDATED TO MATCH RNAV (GPS) RWY 9.
15. CHANGED UNCOMPENSATED BARO-VNAV NOTE CRITICAL LOW TEMPERATURE FROM "-21C" TO "-15C" -- RECALCULATED IN TARGETS 7.1.
16. CHANGED CHART FAS OBST FROM "275 WTR TWR (KBVYT002400) 423445N/0705238W" TO "291 TANK (25-000543) 423445.28N/0705236.99W" IN ADDITIONAL FLIGHT DATA -- NEW SURVEY DATA.
17. DELETED "CHART PLANVIEW NOTE: RADAR REQUIRED" IN ADDITIONAL FLIGHT DATA -- RADAR NOT REQUIRED FOR RNAV PROCEDURES.

COORDINATED WITH:

A4A

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ALPA

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AOPA

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APA

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HAI

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NBAA

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OTHER:

ZBW, BOS APP, BVY ATCT, AMGR

FLIGHT CHECKED BY BOB S PRESSLER		Digitally signed by MICHAEL GARRITY	OFFICE FPO	DATE 10/25/2023	
DEVELOPED BY MICHAEL R. GARRITY JR. (DANIEL C JOHNSEN)		Digitally signed by MICHAEL GARRITY	OFFICE AJV-A423	DATE 07/28/2023	
APPROVED BY MICHAEL GARRITY		Digitally signed by MICHAEL GARRITY	OFFICE AJV-A423	DATE 12/28/2023	TITLE MANAGER



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KBVY
RUNWAY	RW27
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W27A
LTP/FTP LATITUDE	423459.1375N
LTP/FTP LONGITUDE	0705431.1590W
LTP/FTP ELLIPSOIDAL HEIGHT	+00008
FPAP LATITUDE	423434.9745N
FPAP LONGITUDE	0705627.2445W
THRESHOLD CROSSING HEIGHT (TCH)	00060.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.22
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1376
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	EA630357

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+00278
FPAP ORTHOMETRIC HEIGHT	+00278

