

**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 16	<u>ORIGINAL/AMENDMENT</u> 2	<u>CITY</u> BEVERLY	<u>STATE</u> MA		
<u>AIRPORT ELEVATION</u> 107	<u>TDZE</u> 107	<u>SUPERSEDED</u> RNAV (GPS) RWY 16	<u>ORIGINAL/AMENDMENT</u> 1F	<u>DATED</u> 01/30/2020	<u>MAG VAR</u> 16W	<u>EPOCH YEAR</u> 1985
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 17 JUNE 2021	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>		

TAA

FROM	FIX TYPE	TO	FIX TYPE	ALTITUDE
1. 066/30 CW 247/30	NOPT	066/10 CW 247/10		3100
2. 066/10 CW 247/10		LADTI	IF/IAF	2000
3. 247/30 CW 337/30		NUVZA	IAF	2000
4. 337/30 CW 066/30		337/15 CW 066/15		3100
5. 337/15 CW 066/15		HAGET	IAF	2000

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
HAGET	IAF	LADTI	NOPT	TF	FB	1.00	066.43	6.65	2000
NUVZA	IAF	LADTI	NOPT	TF	FB	1.00	246.59	6.65	2000
LADTI	IF/IAF	ZINDU		TF	FB	1.00	156.51	6.59	1800
ZINDU	FAF	RW16	MAP	TF	FO	0.30	156.58	5.19	
RW16	MAP	600 MSL		CA			156.58		600
600 MSL		WAKBI		DF	FO	1.00			2000

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW16

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 600 THEN CLIMBING LEFT 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 NW LADTI, RT, 156.51 INBOUND, 2000 FT. IN LIEU OF PT (IAF), MAX 6000.					
3. FAC:	156.58	FAF:	ZINDU	DIST FAF TO MAP:	5.19
4. MIN ALT:	LADTI 2000, ZINDU 1800				
5. DIST TO THLD FROM OM:	MM:	IM:	150 HAT:	250 HAT:	0.66
6. MIN GP INCPT:	1800	GP ALT AT FAF :	ZINDU 1800	OM:	MM:
7. GP ANGLE:	3.00	34:1:	IS NOT CLEAR	20:1:	IS CLEAR
8. MSA FROM:		TCH:	40.0	IM:	

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: CIRCLING RWY 9 NA AT NIGHT.
CHART NOTE: RWY 16 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY.
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.
FAS OBST: 368 AAO 423832N/0705948W.
CHART VDP AT 1.26 NM TO RW16
WAAS CHANNEL # 93722
REFERENCE PATH ID: W16A
CHART CIRCLING ICON.
LTP HAE: 5.7 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	357	3/4	250	357	3/4	250	357	3/4	250	357	3/4	250			
LNAV/VNAV DA	422	7/8	315	422	7/8	315	422	7/8	315	422	7/8	315			
LNAV MDA	620	1	513	620	1	513	620	1 3/8	513	620	1 3/8	513			
CIRCLING	620	1	513	620	1	513	820	2	713	820	2 1/4	713			

CHANGES - REASONS

1. REMOVED MHT VOR/DME INITIAL SEGMENT AND PSM VOR/DME FEEDER SEGMENT - PSM AND MHT VOR MON
2. ADDED TAA - ATC REQUEST SINCE FEEDER AND 1 INITIAL REMOVED FOR VOR MON
3. CHANGED COLLE TO HAGET AND INITIAL COURSE/DISTANCE FROM 073.92/9.30 TO 066.43/6.65 - FIX MOVED FROM Y TO T CONFIGURATION AND MOVED TO MINIMUM LEG LENGTH REQUIRED FOR ATC VECTORS
4. CHANGED NUVZA INITIAL COURSE/DISTANCE FROM 244.11/9.74 TO 246.59/6.65 - FIX MOVED FROM Y TO T CONFIGURATION AND MOVED TO MINIMUM LEG LENGTH REQUIRED FOR ATC VECTORS
5. CHANGED LADTI-ZINDU COURSE FROM 156.52 TO 156.51 - FIX MOVED TO APPROACH CENTERLINE
6. CHANGED ZINDU FINAL COURSE FROM 156.59 TO 156.58- FIX MOVED TO APPROACH CENTERLINE
7. CHANGED INBOUND HOLDING COURSE ON LIKE 2 FROM 156.52 TO 156.51 - CALCULATED INBOUND COURSE AFTER FIX MOVE
8. CHANGED FAC ON LINE 3 FROM 156.59 TO 156.58 - CALCULATED FINAL COURSE BASED ON CURRENT AIRNAV DATA
9. CHANGED CIRCLING CAT D VIS FROM 2 1/2 SM TO 2 1/4 SM - 8260.3D TABLE 3-3-7
10. REMOVED "CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT MHT VOR/DME ON V106 SOUTHWEST BOUND" FROM NOTES - MHT INITIAL SEGMENT REMOVED
11. REMOVED "CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT PSM VOR/DME ON V3 NORTHBOUND" FROM NOTES - PSM FEEDER SEGMENT REMOVED
12. CHANGED LOW TEMPERATURE IN BARO-VNAV NA NOTE FROM -15 TO -18 - 5 YEAR TEMPERATURE DATA USED
13. REMOVED MSA DATA FROM LINE 8 - REPLACED WITH TAA
14. CRC REMAINDER CHANGED FROM 5CD412AF TO 77F344AC - FPAP LAT/LONG CHANGED FROM 423420.2600N/0705400.4200 TO 423420.2630N/0705400.4150
15. CHANGED LPV VISIBILITY ALL CATS FROM 1 SM TO 3/4 SM - 8260.3D TABLE 3-3-1
16. CHANGED LNAV/VNAV VISIBILITY ALL CATS FROM 1 SM TO 7/8 SM - 8260.3D TABLE 3-3-1
17. CHANGED ZINDU-RW 16 AND RW16-600MSL COURSE IN TERMINAL ROUTES FROM 156.59 TO 156.58 - CALCULATED FINAL APPROACH COURSE

COORDINATED WITH:A4A ☐ ALPA ☒ AOPA ☒ APA ☐ HAI ☐ NBAA ☒ **OTHER:** ZBW, BOS APCH, BVY ATCT**FLIGHT CHECKED BY**
BOB S PRESSLER

Digitally signed by

ALLAN WILL

Mar 17, 2021

OFFICE
FICO**DATE**
3/10/2021**DEVELOPED BY**
KELLIE R. BARNES

Digitally signed by

KELLIE R BARNES

Feb 12, 2021

OFFICE
AJV-A423**DATE**
01/29/2021**APPROVED BY**
MARLON ROBINSON

Digitally signed by

ALLAN WILL

Mar 17, 2021

OFFICE
AJV-A420**DATE****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	RW16
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W16A
LTP/FTP LATITUDE	423529.1760N
LTP/FTP LONGITUDE	0705516.9005W
LTP/FTP ELLIPSOIDAL HEIGHT	+00057
FPAP LATITUDE	423420.2630N
FPAP LONGITUDE	0705400.4150W
THRESHOLD CROSSING HEIGHT (TCH)	00040.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1296
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	77F344AC

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+00327
FPAP ORTHOMETRIC HEIGHT	+00327