

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> KTBN	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 33	<u>ORIGINAL/AMENDMENT</u> 2	<u>CITY</u> FORT LEONARD WOOD	<u>STATE</u> MO		
<u>AIRPORT ELEVATION</u> 1160	<u>TDZE</u> 1153	<u>SUPERSEDED</u> RNAV (GPS) RWY 33	<u>ORIGINAL/AMENDMENT</u> 1	<u>DATED</u> 08/15/2019	<u>MAG VAR</u> 0E	<u>EPOCH YEAR</u> 2020
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 20 APRIL 2023	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>		

TAA

FROM	FIX TYPE	TO	FIX TYPE	ALTITUDE
1. 237/30 CW 057/30	NOPT	MRSHA	IF/IAF	3100
2. 057/30 CW 147/30		BODNE	IAF	3500
3. 147/30 CW 237/30		SEEBO	IAF	3100

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
BODNE	IAF	MRSHA	NOPT	TF	FB	1.00	057.17	6.90	3100
SEEBO	IAF	MRSHA	NOPT	TF	FB	1.00	237.32	6.90	3100
MRSHA	IF/IAF	ARRON		TF	FB	1.00	327.25	6.41	3000
ARRON	FAF	JOVID/1.60 NM TO RW33		TF	FB	0.30	327.22	4.08	
JOVID/1.60 NM TO RW33		RW33	MAP	TF	FO	0.30	327.22	1.60	
RW33	MAP	1403 MSL		CA			327.22		
1403 MSL		PIMEW		DF	FO	1.00			3100

QUALITY
16
CHECKED

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW33

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3100 DIRECT PIMEW AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)
2. HOLD SE MRSHA, RT, 327.25 INBOUND, 3100 FT. IN LIEU OF PT (IAF), MAX 6000.					
3. FAC:	327.22	FAF: ARRON	DIST FAF TO MAP: 5.69		DIST FAF TO THLD: 5.69
4. MIN ALT: MRSHA 3100, ARRON 3000, JOVID/1.60 NM TO RW33 1700					
5. DIST TO THLD FROM OM:	MM:	IM:	150 HAT:	250 HAT: 0.67	GS ANT:
6. MIN GP INCPT: 3000	GP ALT AT PFAF :	ARRON 3000	OM:	MM:	IM:
7. GP ANGLE: 3.00	34:1: IS NOT CLEAR	20:1: IS CLEAR	TCH: 36.3		
8. MSA FROM:					

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15°C OR ABOVE 54°C.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE ROLLA NATIONAL ALTIMETER SETTING AND INCREASE LPV DA TO 1472 FEET, INCREASE LNAV/VNAV DA TO 1521 FEET AND ALL MDAS 80 FEET. INCREASE LNAV CAT C/D VISIBILITY TO RVR 6000.
CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO LPV ALL CATS, LNAV/VNAV ALL CATS, AND LNAV CATS A/B.
CHART NOTE: FOR INOPERATIVE ALS INCREASE LNAV CATS C/D VISIBILITY TO RVR 6000.
CHART NOTE: VDP AND BARO-VNAV NA WHEN USING ROLLA NATIONAL ALTIMETER SETTING.
CHART NOTE: CIRCLING NA W OF RWY 15-33.
CHART NOTE: RWY 33 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO LPV ALL CATS, LNAV/VNAV ALL CATS, AND LNAV CATS A/B WHEN USING ROLLA NATIONAL ALTIMETER SETTING.

ADDITIONAL FLIGHT DATA:

HOLD NW, RT, 147.07 INBOUND.
CHART FAS OBST: 1271 TANK (29-002844) 374332N/0920827W.
CHART LINDBERGH A MOA, CANNON A MOA.
CHART R-4501 A, B, C, D, E, F, H.
CHART VDP AT 1.10 NM TO RW33.
WAAS CHANNEL # 99499
REFERENCE PATH ID: W33A
CHART CIRCLING ICON.
LTP HAE: 320.9 M



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

ALTERNATE: NA ☐ STANDARD - 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	1403	5000	250	1403	5000	250	1403	5000	250	1403	5000	250			
LNAV/VNAV DA	1452	5000	299	1452	5000	299	1452	5000	299	1452	5000	299			
LNAV MDA	1540	5000	387	1540	5000	387	1540	5000	387	1540	5000	387			
CIRCLING	1580	1	420	1660	1	500	1660	1 1/2	500	1720	2	560			

CHANGES - REASONS

1. CHANGED JOVID TO JOVID/1.60 NM TO RW33 - 8260.19I PARA 8-2-6G
2. ADDED LEFT AND RIGHT BASE AND TERMINAL LEGS TO TAA - PER FPT/ATC
3. CHANGED PBN REQUIREMENTS NOTE: RNP APCH TO RNP APCH - GPS - IAW 8260.19 PARA 8-6-8B
4. CHANGED CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -18°C OR ABOVE 54°C TO CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15°C OR ABOVE 54°C - NEW CALCULATION
5. FAF TO STEPDOWN DISTANCE CHANGED FROM 4.09 TO 4.08 - NEW CALCULATION
6. REMOVED ASTERISK FROM LINE 4 AND FROM VDP NOTE IN ADDITIONAL FLIGHT DATA - NO LONGER REQUIRED
7. ADDED 3000 TO LINE 6 - CORRECTING LAST AMENDMENT
8. ADDED "ALL CATS" AND REMOVED "MINIMUMS" FROM INOPERATIVE TABLE NOTES - NOT REQUIRED
9. REMOVED "1358 AAO 373924N/0920533W" FROM ADDITIONAL FLIGHT DATA - 7:1 RULE NOT APPLIED
10. CRC REMAINDER CHANGED FROM ED324CD6 TO 77129287 - NEW FPAP FROM 374524.1170N 0920910.7290W TO 374524.1165N-0920910.7295W
11. REMOVED CHART NOTE: BARO-VNAV NA WHEN USING ROLLA NATIONAL ALTIMETER SETTING - DUPLICATE NOTE
12. ADDED OBSTACLE ID TO FAS OBSTACLE IN ADDITIONAL FILGHT DATA - 8260.19I 8-6-10.C

COORDINATED WITH:

A4A ☒ **ALPA** ☒ **AOPA** ☒ **APA** ☐ **HAI** ☐ **NBAA** ☒ **OTHER:** ZKC, TBN ATCT, AMGR, MOARNG (SAAO), MO STATE AERO.

FLIGHT CHECKED BY
ANTHONY D VALLERA

Digitally signed by
JASON KRETSCHMER
Feb 02, 2023

OFFICE
FPO

DATE
01/31/2023

DEVELOPED BY
ROSE BOONE-WALT

Digitally signed by
ROSE BOONE-WALT
Nov 29, 2022

OFFICE
AJV-A421

DATE
10/24/2022

APPROVED BY
MARLON ROBINSON

Digitally signed by
JASON KRETSCHMER
Dec 13, 2022

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	KTBN
RUNWAY	RW33
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W33A
LTP/FTP LATITUDE	374409.1585N
LTP/FTP LONGITUDE	0920809.8315W
LTP/FTP ELLIPSOIDAL HEIGHT	+03209
FPAP LATITUDE	374524.1165N
FPAP LONGITUDE	0920910.7295W
THRESHOLD CROSSING HEIGHT (TCH)	00036.3
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1072
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	77129287

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+03515
FPAP ORTHOMETRIC HEIGHT	+03515

