

**RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.33**

Bearings, headings, courses, 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 in feet RVR.

TERMINAL ROUTES

MISSED APPROACH

FROM	TO	COURSE AND DISTANCE	ALTITUDE
REDDA	HINSI (TF) (FB) (RNP 2.00)	268.94 / 11.80	3000
KALLA	ROYOB (TF) (FB) (RNP 2.00)	054.13 / 15.02	4200
ROYOB (IAF)	TIXFO (TF) (FB) (RNP 1.00)	063.34 / 5.00	3000
HINSI (IAF)	TIXFO (TF) (FB) (RNP 1.00)	243.44 / 5.00	3000
TIXFO (IF)	RUBUF (TF) (FB) (RNP 1.00)	333.39 / 6.11	2600
(SEE FORM 8260-10)			

LPV: DA
LNAV/VNAV: DA
LNAV: RW33

CLIMB TO 3000 DIRECT FIXUL AND ON TRACK 282.51 TO AGJ VORTAC AND HOLD.

ADDITIONAL FLIGHT DATA:
HOLD N, RT, 190.00 INBOUND.
CHART FAS OBST: 1194 ANT 310154N/0974922W.
CHART: ASR/PAR.
CHART GRAY MOA.
CHART R-6302 A/B/C.
DISTANCE TO THLD FROM 200 HAT: 0.54 NM.
CHART VDP AT 1.48 NM TO RW33*
*LNAV ONLY.
WAAS CHANNEL # 82399
REFERENCE PATH ID: W33A
CHART CIRCLING ICON.
LTP HAE: 270.1 M

MAG VAR: 4E EPOCH YEAR: 2020

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. PROFILE STARTS AT TIXFO
3. FAC: 333.37 FAF: RUBUF DIST FAF TO MAP: 4.88 THLD: 4.88
4. MIN. ALT: TIXFO 3000, RUBUF 2600
5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 100 HAT: GS ANT:
6. MIN GS INCPT: 2600 GS ALT AT: RUBUF 2600 OM: MM: IM:
7. GS ANGLE: 3.00 TCH: 50.1 20:1 IS CLEAR 34:1 IS CLEAR
8. MSA FROM: RW33 4100

MINIMUMS

TAKEOFF:	SEE FAA FORM 8260-15A FOR THIS AIRPORT						ALTERNATE: N A			STANDARD @					
CATEGORY =====>	A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
LPV DA	1195	1/2	200	1195	1/2	200	1195	1/2	200	1195	1/2	200	1195	1/2	200
LNAV/VNAV DA	1552	1 1/2	557	1552	1 1/2	557	1552	1 1/2	557	1552	1 1/2	557	1552	1 1/2	557
LNAV MDA	1460	1/2	465	1460	1/2	465	1460	1	465	1460	1	465	1460	1	465
CIRCLING	1540	1	525	1540	1	525	1560	1 1/2	545	1620	2	605	1740	2 1/2	725

NOTES:
 CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17C (2F) OR ABOVE 54C (130F). @ CAT E 800-2 1/2
 CHART NOTE: CIRCLING NA W OF RWY 15-33.
 CHART NOTE: DME/DME RNP-0.3 NA.
 CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
 (CONTINUED ON PAGE 2)



CITY AND STATE FORT HOOD/KILLEEN, TX	ELEVATION: 1015 TDZE: 995 AIRPORT NAME: ROBERT GRAY AAF	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 33, AMDT 1C 24 MAY 2018	SUP: AMDT: 1B DATED 09/17/2015
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US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

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TERMINAL ROUTES, (CONT.):

<u>FROM</u>	<u>TO</u>	<u>COURSE AND DISTANCE</u>	<u>ALTITUDE</u>
RUBUF (FAF)	RW33 (MAP) (TF) (FO) (RNP 0.30)	333.37 / 4.88	
RW33 (MAP)	1195 MSL (CA)	337.37	
1195 MSL	FIXUL (DF) (FB) (RNP 1.00)		
FIXUL	AGJ VORTAC (TF) (FO) (RNP 1.00)	282.51 / 15.64	3000

NOTES, (CONT.):

CHART NOTE: FOR INOPERATIVE ALS, INCREASE LPV CAT E VISIBILITY TO 3/4 SM, LNAV/VNAV CAT E VISIBILITY TO 2 SM, AND LNAV CAT E VISIBILITY TO 1 1/2 SM.



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				AMDT: 1B
				DATED: 09/17/2015

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

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FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KGRK
RUNWAY	RW33
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W33A
LTP/FTP LATITUDE	310318.1700N
LTP/FTP LONGITUDE	0974922.8650W
LTP/FTP ELLIPSOIDAL HEIGHT	+02701
FPAP LATITUDE	310447.9500N
FPAP LONGITUDE	0975006.4000W
THRESHOLD CROSSING HEIGHT (TCH)	00050.1
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0008
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0

CRC REMAINDER E1A735EE

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K4
LTP ORTHOMETRIC HEIGHT	+02967
FPAP ORTHOMETRIC HEIGHT	+02967



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	AIRPORT NAME: ROBERT GRAY AAF			AMDT: 1B
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