

**FEDERAL AVIATION ADMINISTRATION  
FLIGHT STANDARDS SERVICE  
ILS STANDARD INSTRUMENT APPROACH PROCEDURE**

**TITLE 14 CFR PART 97.29**

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.

<b>AIRPORT</b> ROBERT GRAY AAF	<b>AIRPORT ID</b> KGRK	<b>PROCEDURE NAME</b> ILS OR LOC RWY 33	<b>ORIGINAL/AMENDMENT</b> 1D	<b>CITY</b> FORT HOOD/KILLEEN	<b>STATE</b> TX
<b>AIRPORT ELEVATION</b> 1015	<b>TDZE</b> 995	<b>SUPERSEDED</b> ILS OR LOC RWY 33	<b>ORIGINAL/AMENDMENT</b> 1C	<b>DATED</b> 05/24/2018	<b>MAG VAR</b> 4E
<b>FACILITY</b> I-BTJ	<b>COORDINATES OF FACILITIES</b>	<b>ACTUAL EFFECTIVE DATE</b>	<b>REQUIRED EFFECTIVE DATE</b> ROUTINE	<b>CANCEL/SUSPEND</b>	<b>EPOCH YEAR</b> 2020

**TERMINAL ROUTES**

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
CWK VORTAC		GIPGE/I-BTJ 17.80 DME/RADAR					334.75	27.26	3000
GIPGE/I-BTJ 17.80 DME/RADAR	IAF	TIXFO/I-BTJ 12.80 DME/RADAR					333.35	5.00 (I-BTJ)	3000
TIXFO/I-BTJ 12.80 DME/RADAR	IF	RUBUF/I-BTJ 6.69 DME/RADAR					333.35	6.11 (I-BTJ)	2600

**MISSED APPROACH**

**MAP:**

ILS: DA  
LOC: 4.88 NM AFTER RUBUF/I-BTJ 6.69 DME/RADAR OR AT I-BTJ 1.80 DME

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 2000 THEN CLIMBING LEFT TURN TO 3000 DIRECT AGJ VORTAC AND HOLD.

**ALTERNATE MISSED APPROACH INSTRUCTIONS (DO NOT CHART):**

CLIMB TO 1700 THEN CLIMBING RIGHT TURN TO 3500 ON HEADING 150 AND GRK VOR/DME R-103 TO REDDA INT/CWK 32.15 DME AND HOLD.

**PROFILE:**

- PT      **SIDE OF COURSE**                      **OUTBOUND**                      **FT WITHIN**                      **MILES OF (IAF)**
- PROFILE STARTS AT GIPGE
- FAC:** 333.35      **FAF:** RUBUF/I-BTJ 6.69 DME/RADAR      **DIST FAF TO MAP:** 4.88      **DIST FAF TO THLD:** 4.88
- MIN ALT:** GIPGE/I-BTJ 17.80 DME/RADAR 3000, TIXFO/I-BTJ 12.80 DME/RADAR 3000, RUBUF/I-BTJ 6.69 DME/RADAR 2600
- DIST TO THLD FROM OM:**                      **MM:**                      **IM:**                      **150 HAT:**                      **GS ANT:** 906
- MIN GS INCPT:** 2600                      **GS ALT AT FAF:** RUBUF/I-BTJ 6.69 DME/RADAR 2600                      **OM:**                      **MM:**                      **IM:**
- GP ANGLE:** 3.00                      **34:1:** IS CLEAR                      **20:1:** IS CLEAR                      **TCH:** 51.7
- MSA FROM:** GRK VOR/DME 360-180 3100, 180-360 4100

**EQUIPMENT REQUIREMENTS NOTES:**

DME OR RADAR REQUIRED.



**NOTES:**

CHART NOTE: CIRCLING NA W OF RWY 15-33.  
CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-ILS 33 CAT E VISIBILITY TO 3/4 SM AND S-LOC 33 CAT C/D/E VISIBILITY TO 1 SM.

**ADDITIONAL FLIGHT DATA:**

CHART: ASR/PAR.  
CHART CIRCLING ICON.  
CHART IN PLANVIEW: REDDA INT/CWK 32.15 DME  
CHART GRAY MOA  
CHART R-6302 A/B/C  
CHART VDP AT 2.85 DME\*  
DISTANCE VDP TO THLD 1.05 NM  
\* LOC ONLY  
CHART FAS OBST: 1043 ROD ON TWR 310202N/0974850W.  
CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD S REDDA INT/CWK 32.15 DME, RT, 003.86 INBOUND.  
HOLD N, RT, 194.00 INBOUND

**MINIMUMS:**

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

**ALTERNATE:** NA  ILS: STANDARD; LOC: STANDARD - CAT E 800-2 1/2

<b>CATEGORY:</b>	<b>A</b>			<b>B</b>			<b>C</b>			<b>D</b>			<b>E</b>		
<b>FINAL TYPE</b>	<b>DA/MDA</b>	<b>VIS</b>	<b>HAT/HAA</b>	<b>DA/MDA</b>	<b>VIS</b>	<b>HAT/HAA</b>	<b>DA/MDA</b>	<b>VIS</b>	<b>HAT/HAA</b>	<b>DA/MDA</b>	<b>VIS</b>	<b>HAT/HAA</b>	<b>DA/MDA</b>	<b>VIS</b>	<b>HAT/HAA</b>
S-ILS 33	1195	1/2	200	1195	1/2	200	1195	1/2	200	1195	1/2	200	1195	1/2	200
S-LOC 33	1360	1/2	365	1360	1/2	365	1360	3/4	365	1360	3/4	365	1360	3/4	365
CIRCLING	1540	1	525	1540	1	525	1560	1 1/2	545	1620	2	605	1740	2 1/2	725

**CHANGES - REASONS**

1. AMENDED PROCEDURE TCH FROM 50.0 TO 51.7. - MATCHING AIRNAV DATA.
2. REMOVED "DME OR RADAR REQUIRED" FROM PLANVIEW AND NOTES SECTION AND MOVED TO EQUIPMENT REQUIREMENTS NOTES SECTION - IAW 8260.19H 8-6-8.
3. CHANGED VDP DIST FROM THLD FROM "1.14 NM TO "1.05 NM AND VDP DME DIST FROM 2.94 TO 2.85 - VDP LOCATION WAS BASED ON OLD VGSI ANGLE.
4. DELETED "CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET})" - VALUES ARE COINCIDENT.
5. CHANGED "CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-ILS 33 CAT E VISIBILITY TO 3/4 SM AND S-LOC 33 CAT E VISIBILITY TO 1 1/4 SM" TO "CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-ILS 33 CAT E VISIBILITY TO 3/4 SM AND S-LOC 33 CAT C/D/E VISIBILITY TO 1 SM" - PER VIS CHECK TOOL.

**COORDINATED WITH:**

**A4A**  **ALPA**  **AOPA**  **APA**  **HAI**  **NBAA**  **OTHER:** ZHU, GRK APP CON, GRK ATCT, AMGR, ATA

**FLIGHT CHECKED BY**

PROCESSED IAW AIRCRAFT OPERATIONS GROUP (AJW-33) MEMO, OCTOBER 3, 2018, SUBJECT: FLIGHT INSPECTION REVIEW NOT REQUIRED

**OFFICE**

**OFFICE**

AJV-A422

**OFFICE**

AJV-A42

**DATE**

**DATE**

01/17/2019

**DATE**

Digitally signed by  
**ROBERT G HAMILTON**

Feb 27, 2019

Digitally signed by  
**ROBERT G HAMILTON**

Feb 27, 2019

Digitally signed by  
**ROBERT G HAMILTON**

Feb 27, 2019

**TITLE**  
MANAGER

