

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</u> HUTCHINSON COUNTY	<u>AIRPORT ID</u> KBDG	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 35	<u>ORIGINAL/AMENDMENT</u> 1	<u>CITY</u> BORGER	<u>STATE</u> TX
<u>AIRPORT ELEVATION</u> 3055	<u>TDZE</u> 3055	<u>SUPERSEDED</u> RNAV (GPS) RWY 35	<u>ORIGINAL/AMENDMENT</u> ORIG	<u>DATED</u> 06/05/2008	<u>MAG VAR</u> 7E
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 13 SEPTEMBER 2018	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL SUSPEND</u>	<u>EPOCH YEAR</u> 2010

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>
BROKE		PIVOC		TF	FB	2.00	227.15	19.28	5100
PNH VORTAC		HUBUT		TF	FB	2.00	023.82	18.74	5100
HUBUT	IAF	CUKAS	NOPT	TF	FB	1.00	081.31	5.70	5100
PIVOC	IAF	CUKAS	NOPT	TF	FB	1.00	261.45	5.70	5100
CUKAS	IF/IAF	WAMGO		TF	FB	1.00	351.38	5.51	4900
WAMGO	FAF	FIDLI/2.21 NM TO RW35		TF	FB	0.30	351.38	3.45	
FIDLI/2.21 NM TO RW35		RW35	MAP	TF	FO	0.30	351.38	2.21	
RW35	MAP	3305 MSL		CA			351.38		
3305 MSL		JISAM		DF	FO	1.00			5000

MISSED APPROACH

MAP:

LPV: DA
 LNAV/VNAV: DA
 LNAV: RW35

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 5000 DIRECT JISAM AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF (IAF)
2. HOLD S CUKAS, RT, 351.38 INBOUND, 5100 FT. IN LIEU OF PT (IAF), MAX 6000.				
3. FAC:	351.38	FAF: WAMGO	DIST FAF TO MAP: 5.66	DIST FAF TO THLD: 5.66
4. MIN ALT: CUKAS 5100, WAMGO 4900, FIDLI/2.21 NM TO RW35 3800*				
5. DIST TO THLD FROM OM:		MM:	IM:	150 HAT: 250 HAT: 0.65
6. MIN GP INCPT: 4900		GP ALT AT FAF : WAMGO 4900		OM: MM: IM:
7. GP ANGLE: 3.00		34:1: IS NOT CLEAR	20:1: IS CLEAR	TCH: 41.3
8. MSA FROM: RW35 5100				

PBN EQUIPMENT REQUIREMENTS NOTES

RNP APCH.

NOTES:

CHART NOTE: RWY 35 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -14C OR ABOVE 54C.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT BROKE ON V272 EASTBOUND.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON PNH VORTAC AIRWAY RADIALS 313 CW 081.
CHART SPEED ICON IN PLANVIEW AT HUBUT: MAX 210 KIAS.
CHART SPEED ICON IN PLANVIEW AT PIVOC: MAX 210 KIAS.

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON.
CHART VDP AT 1.45 NM TO RW35*
*LNAV ONLY
WAAS CHANNEL #53442
REFERENCE PATH ID: W35A
CHART FAS OBST: 3303 TOWER 354105N/1012314W.
HOLD N, RT, 171.37 INBOUND
LTP HAE: 904.3 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - CAT D 800-2 1/4

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	3305	1	250	3305	1	250	3305	1	250	3305	1	250			
LNAV/VNAV DA	3554	1 3/8	499	3554	1 3/8	499	3554	1 3/8	499	3554	1 3/8	499			
LNAV MDA	3560	1	505	3560	1	505	3560	1 3/8	505	3560	1 3/8	505			
CIRCLING	3620	1	565	3660	1	605	3760	2	705	3760	2 1/4	705			

QUALITY
10
CHECKED

CHANGES - REASONS

1. CHANGED TERMINAL ROUTE FROM BROKE TO PIVOC COURSE AND DISTANCE FROM "228.30/19.72" TO "227.15/19.28" - PIVOC FIX MOVED TO MEET MINIMUM LEG LENGTH CRITERIA FOR T INITIAL.
2. CHANGED TERMINAL ROUTE FROM PNH VORTAC TO HUBUT COURSE AND DISTANCE FROM "025.59/19.13" TO "023.82/18.74" - HUBUT FIX MOVED TO MEET MINIMUM LEG LENGTH CRITERIA FOR T INITIAL.
3. CHANGED TERMINAL ROUTE FROM HUBUT TO CUKAS DISTANCE FROM "5.00" TO "5.70" - HUBUT AND CUKAS FIXES MOVED TO MEET MINIMUM LEG LENGTH CRITERIA FOR T INITIAL.
4. CHANGED TERMINAL ROUTE FROM PIVOC TO CUKAS COURSE AND DISTANCE FROM "261.43/5.00" TO "261.45/5.70" - PIVOC AND CUKAS FIXES MOVED TO MEET MINIMUM LEG LENGTH CRITERIA FOR T INITIAL.
5. CHANGED TERMINAL ROUTE FROM CUKAS TO WAMGO COURSE AND DISTANCE FROM "351.37/6.20" TO "351.38/5.51" AND CHANGED ALTITUDE FROM "4700" TO "4900" - WAMGO FIX MOVED TO MEET COURSE TO RUNWAY ALIGNMENT AND FACILITATE OPTIMUM 3.0 GLIDEPATH.
6. ADDED TERMINAL ROUTE SEGMENT "WAMGO (FAF) TO FIDLI/2.21 NM TO RW35 COURSE AND DISTANCE 351.38/3.45" - NEW FORMS CRITERIA APPLIED.
7. ADDED TERMINAL ROUTE SEGMENT "FIDLI/2.21 NM TO RW35 TO RW35 (MAP) COURSE AND DISTANCE 351.38/2.21" - NEW FORMS CRITERIA APPLIED.
8. ADDED TERMINAL ROUTE SEGMENT "RW35 (MAP) TO 3305 MSL (CA) COURSE 351.38 - NEW FORMS CRITERIA APPLIED.
9. ADDED TERMINAL ROUTE SEGMENT "3305 MSL TO JISAM (DF) ALTITUDE 5000" - NEW FORMS CRITERIA APPLIED.
10. ADDED LPV: DA AND LNAV/VNAV: DA TO MISSED APPROACH - PER IFP CHECKLIST AND FPT REQUEST TO ADD LPV AND LNAV/VNAV.
11. CHANGED LINE 2 HOLD S CUKAS, RT FROM "351.37" TO "351.38" - ADJUSTED COURSE ALIGNMENT TO MATCH FINAL AND NEW RWY SURVEY DATA.
12. CHANGED LINE 3 FAC: FROM "351.37" TO "351.38" - NEW SURVEY DATA.
13. CHANGED LINE 4 MINIMUM ALT AT WAMGO FROM "4700" TO "4900" - WAMGO FIX MOVED TO MEET COURSE TO RUNWAY ALIGNMENT AND FACILITATE OPTIMUM 3.0 GLIDEPATH.
14. CHANGE LINE 3 DIST FAF TO MAP: AND THLD: FROM "4.97" TO "5.66" - WAMGO FIX MOVED TO MEET COURSE TO RUNWAY ALIGNMENT AND FACILITATE OPTIMUM 3.0 GLIDEPATH.
15. CHANGED LINE 4 DISTANCE AND MINIMUM ALT AT FIDLI FROM "2.30 NM TO RW35 3820" TO "2.21 NM TO RW35 3800" - WAMGO FIX MOVED TO MEET COURSE FOR OPTIMUM 3.0 DESCENT ANGLE.
16. ADDED LINE 6 MIN GS INCPT 4900 AND GS ALT AT: WAMGO 4900 - ADDITION OF LPV AND LNAV/VNAV MINIMUMS TO PROCEDURE.
17. ADDED LINE 7 "GS ANGLE: 3.00" AND "TCH: 41.3" AND "20:1 IS CLEAR" - ADDITION OF LPV AND LNAV/VNAV MINIMUMS TO PROCEDURE AND PREVIOUS 20:1 OBSTRUCTION REMOVED.
18. ADDED LPV DA TO MINIMUMS: CAT A-D DA 3305/VIS 1 SM/HAT 250 - ADDITION OF LPV PER IFP CHECKLIST REQUEST.
19. ADDED LNAV/VNAV DA TO MINIMUMS: CAT A-D DA 3554/VIS 1 3/8 SM/HAT 499 - ADDITION OF LNAV/VNAV PER IFP CHECKLIST REQUEST.
20. CHANGED LNAV MDA MINIMUMS: CHANGED CAT C VISIBILITY FROM "1 3/4 SM" TO "1 3/8 SM"; CAT D VISIBILITY FROM "2 SM" TO "1 3/8 SM" - PROCEDURE RE-EVALUATED AGAINST NEW DESIGN CRITERIA AND NEW OBSTACLES EVALUATION COMPLETED.
21. CHANGED CIRCLING MINIMUMS: CHANGED CAT C FROM "MDA 3660/ VIS 1 3/4 SM/HAA 605" TO "MDA 3760/VIS 2 SM/HAA 705"; CHANGED CAT D FROM "MDA 3660/VIS 2 SM/HAA 605" TO "MDA 3760/VIS 2 1/4 SM/HAA 705" - NEW CIRCLING CRITERIA WITH NEW CIRCLING RADII APPLIED AND NEW OBSTACLE EVALUATION COMPLETED.
22. REMOVED MINIMUMS NOTE "@NA WHEN LOCAL WEATHER NOT AVAILABLE" - PER .19H 8-6-9 F(3) NOT REQUIRED WHEN ASOS NON-FED TRANSMITS TO WMSCR. DATA PLACED ON BACK OF -9 FOR NOTAM CONTINGENCY.
23. ADDED ALTERNATE MINIMUMS NOTE: "@CAT D 800-2 1/4" - PER 8260.3C PARA 3-4-1; CAT D EXCEEDS 2 NM VISIBILITY.
24. REMOVED "CHART NOTE: DME/DME RNP-0.3" AND ADDED "EQUIPMENT REQUIREMENTS NOTE: RNP APCH" - PER .19H EQUIPMENT REQUIREMENT NOTES.
25. REMOVED "CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE PAMPA ALTIMETER SETTING; INCREASE ALL MDA 80 FEET, LNAV CAT D AND CIRCLING CAT C, D VISIBILITIES 1/4 MILE" - PER .19H 8-6-9 F(3) NOT REQUIRED WHEN ASOS NON-FED TRANSMITS TO WMSCR. DATA PLACED ON BACK OF -9 FOR NOTAM CONTINGENCY.
26. ADDED "CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -14C OR ABOVE 54C - ADDTION OF LNAV/VNAV MINIMUM TO PROCEDURE PER IFP CHECKLIST REQUEST.
27. CHANGED CHART PLANVIEW NOTE: FROM "PROCEDURE NA FOR ARRIVALS ON PNH VORTAC AIRWAY RADIALS 016 CW 070" TO "PROCEDURE NA FOR ARRIVAL ON PNH VORTAC AIRWAY RADIALS 313 CW 081 - AIRWAYS UPDATED.
28. CHANGED CHART PLANVIEW NOTE: FROM "PROCEDURE NA FOR ARRIVALS AT BROKE VIA V272 EASTBOUND" TO "PROCEDURE NA FOR ARRIVALS AT BROKE ON V272 EASTBOUND - UPDATED PER .19H TERMINOLOGY.
29. ADDED CHART SPEED ICON IN PLANVIEW AT HUBUT: MAX 210 KIAS - SPEED RESTRICTION USED TO ACHIEVE MINIMUM T-INITIAL LEG LENGTH.
30. ADDED CHART SPEED ICON IN PLANVIEW AT PIVOC: MAX 210 KIAS - SPEED RESTRICTION USED TO ACHIEVE MINIMUM T-INITIAL LEG LENGTH.
31. CHANGED ADDITIONAL FLIGHT DATA FAS OBST ALTITUDE FROM "3302" TO "3303" - NEW OBSTACLE SURVEY COMPLETED.
32. ADDED ADDITIONAL FLIGHT DATA NOTE "DISTANCE TO THLD FROM 250 HAT: 0.65 NM" - LPV ADDED TO PROCEDURE PER IFP CHECKLIST REQUEST.
33. ADDED ADDITIONAL FLIGHT DATA NOTE "CHART VDP AT 1.45 MILES TO RW35" - NEW PROCEDURE EVALUATION AND OBSTACLE EVALUATION COMPLETED; 20:1 SURFACE CLEARED OF OBSTACLES.
34. ADDED ADDITIONAL FLIGHT DATA NOTE ":*LNAV ONLY" - PER .19H REQUIRMENTS WHEN VDP IS ESTABLISHED.
35. ADDED ADDITIONAL FLIGHT DATA NOTE "CHART CIRCLING ICON" - PER .19H WHEN NEW 8260.3 CIRCLING CRITERIA IS APPLIED.
36. REMOVED ADDITIONAL FLIGHT DATA NOTE WAMGO TO RW35: 3.04/41 - PRECISION MINIMA ADDED.
37. ADDED ADDITIONAL FLIGHT DATA NOTES: "WAAS CHANNEL #53442" AND "REFERENCE PATH ID: W35A" - PER IFP CHECKLIST AND FPT REQUEST TO ADD WAAS CAPABILITY AND LPV AND LNAV/VNAV MINIMUMS.
38. ADDED ADDITIONAL FLIGHT DATA NOTE: "LTP HAE: 904.3 M" - PER IFP CHECKLIST AND FPT REQUEST TO ADD WAAS CAPABILITY AND LPV AND LNAV/VNAV MINIMUMS.
39. REMOVED ADDITIONAL FLIGHT DATA NOTE: "CHART 3371 TOWER 353859N/1012431W - NEW PROCEDURE AND OBSTACLE EVALUATION COMPLETED.
40. CHANGED CHART NOTE FROM "VISIBILITY REDUCTION BY HELICOPTERS NA" TO "RWY 35 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED" - 34:1 OBSTACLE SURFACE PENETRATIONS



COORDINATED WITH:

A4A ☐ ALPA ☒ AOPA ☒ APA ☐ HAI ☐ NBAA ☒ OTHER: ZAB, AMA APP CON, AMGR

FLIGHT CHECKED BY

JOHN E PHILLABAUM

Digitally signed by
ROBERT G HAMILTON
Jul 16, 2018

OFFICE

FICO

DATE

7/13/18

DEVELOPED BY

DEZ SILAGYI (DARREN HOOPER)

Digitally signed by
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Jul 16, 2018

OFFICE

AJV-5421

DATE

04/24/2018

APPROVED BY

JULIE MORGAN

Digitally signed by
ROBERT G HAMILTON
Jul 16, 2018

OFFICE

AJV-5420

DATE

TITLE

MANAGER



