

**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> HRL	<u>PROCEDURE NAME</u> RNAV (GPS) Y RWY 18R	<u>ORIGINAL/AMENDMENT</u> 3	<u>CITY</u> HARLINGEN	<u>STATE</u> TX
<u>AIRPORT ELEVATION</u> 36	<u>TDZE</u> 35	<u>SUPERSEDED</u> RNAV (GPS) Y RWY 17R	<u>DATED</u> 10/08/2020	<u>MAG VAR</u> 3E
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 11 JULY 2024	<u>REQUIRED EFFECTIVE DATE</u> 07/11/2024	<u>EPOCH YEAR</u> 2025
				<u>CANCEL/SUSPEND</u>

TERMINAL ROUTES ← **THIS IS A CORRECTED COPY OF A PROCEDURE ORIGINALLY PUBLISHED IN TL 24-14.**

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
OAKKK	IAF	ZIPIV		TF	FB	1.00	267.68	6.00	2000
MAYRR	IAF	ZIPIV		TF	FB	1.00	087.58	6.00	2000
ZIPIV	IF	HLWLK		TF	FB	1.00	177.62	5.01	1600
HLWLK		CIXEN		TF	FB	1.00	177.64	1.25	1400
CIXEN	FAF	WEVEN/1.50 NM TO RW18R		TF	FB	0.30	177.64	2.62	
WEVEN/1.50 NM TO RW18R		RW18R	MAP	TF	FO	0.30	177.64	1.50	
RW18R	MAP	500 MSL		CA			177.64		500
500 MSL		RELAX		DF	FO	1.00			2000

MISSED APPROACH

MAP:
LPV: DA
LNAV/VNAV: DA
LNAV: RW18R

MISSED APPROACH INSTRUCTIONS:
CLIMB TO 500 THEN CLIMBING LEFT TURN TO 2000 DIRECT RELAX AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)
2.	PROFILE STARTS AT HLWLK				
3. FAC:	177.64	FAF: CIXEN	DIST FAF TO MAP:	4.12	DIST FAF TO THLD: 4.12
4. MIN ALT:	HLWLK 1600, CIXEN 1400, WEVEN/1.50 NM TO RW18R 560				
5. DIST TO THLD FROM OM:	MM:	IM:	150 HAT:	200 HAT:	0.46 GS ANT:
6. MIN GP INCPT:	1400	GP ALT AT PFAF:	CIXEN 1400	OM:	MM:
7. GP ANGLE:	3.00	34:1:	IS CLEAR	20:1:	IS CLEAR
8. MSA FROM:	RW18R 2600	TCH:	55.2	IM:	



PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -1°C OR ABOVE 54°C.
 CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
 CHART PROFILE NOTE: SEE PLANVIEW FOR MULTIPLE IF LOCATIONS.
 CHART NOTE: FOR INOPERATIVE ALS, INCREASE LNAV/VNAV ALL CATS VISIBILITY TO RVR 4000, LNAV CATS C AND D VISIBILITY TO RVR 5500.
 CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE PORT ISABEL ALTIMETER SETTING AND INCREASE LPV DA TO 277 FEET; INCREASE LNAV/VNAV DA TO 327 FEET; INCREASE ALL MDAS 60 FEET AND LNAV VISIBILITY CAT C/D TO RVR 4000 AND CIRCLING VISIBILITY CAT C/D 1/4 SM.
 CHART NOTE: FOR INOPERATIVE ALS WHEN USING PORT ISABEL ALTIMETER SETTING, INCREASE LNAV/VNAV ALL CATS VISIBILITY TO RVR 4500.
 CHART NOTE: BARO-VNAV AND VDP NA WHEN USING PORT ISABEL ALTIMETER SETTING.
 CHART NOTE: * RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA, (NA WHEN USING PORT ISABEL ALTIMETER SETTING).
 CHART SPEED ICON IN PLANVIEW AT OAKKK: MAX 210 KIAS.
 CHART SPEED ICON IN PLANVIEW AT MAYRR: MAX 210 KIAS.

ADDITIONAL FLIGHT DATA:

HOLD N, LT, 175.21 INBOUND.
 CHART FAS OBST: 145 TOWER (48-014654) 261539N/0973941W.
 CHART VDP AT 0.92 NM TO RW18R.
 WAAS CHANNEL # 50131
 REFERENCE PATH ID: W18A
 CHART MANDATORY 1600 AT HLWLK.
 CHART CIRCLING ICON.
 LTP HAE: -12.4 M

MINIMUMS:

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

ALTERNATE: NA STANDARD - NA WHEN LOCAL WEATHER NOT AVAILABLE.

<u>CATEGORY:</u>	A			B			C			D			E		
<u>FINAL TYPE</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>
LPV DA*	235	2400	200	235	2400	200	235	2400	200	235	2400	200			
LNAV/VNAV DA	285	2400	250	285	2400	250	285	2400	250	285	2400	250			
LNAV MDA	400	2400	365	400	2400	365	400	3500	365	400	3500	365			
CIRCLING	460	1	424	560	1	524	600	1 1/2	564	680	2	644			



CHANGES - REASONS

1. PROCEDURE NAME: CHANGED FROM "RNAV (GPS) Y RWY 17R" TO "RNAV (GPS) Y RWY 18R" – MAGVAR CHANGE/RUNWAY RENUMBERING AND IAW 8260.19I PARA 8-6-2.C.
2. TERMINAL ROUTES: DELETED "LATEX INT TO ZIPIV", "JIMIE TO ZIPIV", "MANNY TO ZIPIV" – PER ATC REQUEST.
3. TERMINAL ROUTES: ADDED "OAKKK TO ZIPIV" AND ALL ASSOCIATIONS" – IAW 8260.19I PARA 8-6-4.
4. TERMINAL ROUTES: ADDED "MAYRR TO ZIPIV" AND ALL ASSOCIATIONS" – IAW 8260.19I PARA 8-6-4.
5. TERMINAL ROUTES: CHANGED "ZIPIV TO ATAGE" TO "ZIPIV TO HLWLK" – IAW 8260.19I PARA 8-6-4.
6. TERMINAL ROUTES: UPDATED "ZIPIV TO HLWLK" RNP FROM "0.50" TO "1.00" – IAW 8260.19I PARA 8-6-4.A.(6).(B).
7. TERMINAL ROUTES: UPDATED "ZIPIV TO HLWLK" COURSE FROM "175.63" TO "177.62" – IAW 8260.19I PARA 8-6-4.B.
8. TERMINAL ROUTES: UPDATED "ZIPIV TO HLWLK" DISTANCE FROM "6.26" TO "5.01" – IAW 8260.19I PARA 8-6-4.B.
9. TERMINAL ROUTES: UPDATED "ZIPIV TO HLWLK" ALTITUDE FROM "1400" TO "1600" - ADDITION OF HLWLK AS THE CAPTURE FIX AND IAW 8260.19I PARA 8-6-4.C.
10. TERMINAL ROUTES: ADDED "NSCAR TO MPACT" AND ALL ASSOCIATIONS – PER ATC REQUEST AND IAW 8260.19I PARA 8-6-4.
11. TERMINAL ROUTES: ADDED "MPACT TO LAIRR" AND ALL ASSOCIATIONS – PER ATC REQUEST AND IAW 8260.19I PARA 8-6-4.
12. TERMINAL ROUTES: ADDED "LAIRR TO KASNE" AND ALL ASSOCIATIONS – PER ATC REQUEST AND IAW 8260.19I PARA 8-6-4.
13. TERMINAL ROUTES: ADDED "KASNE TO JOGAS" AND ALL ASSOCIATIONS – PER ATC REQUEST AND IAW 8260.19I PARA 8-6-4.
14. TERMINAL ROUTES: ADDED "JOGAS TO IRONE" AND ALL ASSOCIATIONS – PER ATC REQUEST AND IAW 8260.19I PARA 8-6-4.
15. TERMINAL ROUTES: ADDED "IRONE TO HLWLK" AND ALL ASSOCIATIONS – PER ATC REQUEST AND IAW 8260.19I PARA 8-6-4.
16. TERMINAL ROUTES: ADDED "ULOTE TO SHLBY" AND ALL ASSOCIATIONS – PER ATC REQUEST AND IAW 8260.19I PARA 8-6-4.
17. TERMINAL ROUTES: ADDED "SHLBY TO RHYME" AND ALL ASSOCIATIONS – PER ATC REQUEST AND IAW 8260.19I PARA 8-6-4.
18. TERMINAL ROUTES: ADDED "RHYME TO TWAYN" AND ALL ASSOCIATIONS – PER ATC REQUEST AND IAW 8260.19I PARA 8-6-4.
19. TERMINAL ROUTES: ADDED "TWAYN TO POISE" AND ALL ASSOCIATIONS – PER ATC REQUEST AND IAW 8260.19I PARA 8-6-4.
20. TERMINAL ROUTES: ADDED "POISE TO ODDAM" AND ALL ASSOCIATIONS – PER ATC REQUEST AND IAW 8260.19I PARA 8-6-4.
21. TERMINAL ROUTES: ADDED "ODDAM TO HLWLK" AND ALL ASSOCIATIONS – PER ATC REQUEST AND IAW 8260.19I PARA 8-6-4.
22. TERMINAL ROUTES: ADDED "HLWLK TO CIXEN" AND ALL ASSOCIATIONS – PER ATC REQUEST AND IAW 8260.19I PARA 8-6-4.
23. TERMINAL ROUTES: ALL "RW17R" DESIGNATIONS UPDATED TO "RW18R" – MAGVAR CHANGE/RUNWAY RENUMBERING.
24. TERMINAL ROUTES: CHANGED "ATAGE TO WEVEN/1.50 NM TO RW17R" TO "CIXEN TO WEVEN/1.50 NM TO RW18R" – FPT IDENTIFIED A NEW PFAF AND IAW 8260.19I PARA 8-6-4.
25. TERMINAL ROUTES: CIXEN TO WEVEN/1.50 NM TO RW18R: CHANGED COURSE FROM "175.63" TO "177.64" – FPT IDENTIFIED A NEW PFAF AND IAW 8260.19I PARA 8-6-4.B.
26. TERMINAL ROUTES: WEVEN/1.50 NM TO RW18R: CHANGED COURSE FROM "175.63" TO "177.64" – NEW PFAF IDENTIFIED AND IAW 8260.19I PARA 8-6-4.B.
27. TERMINAL ROUTES: RW18R TO 500 MSL: CHANGED COURSE FROM 175.63 TO "177.64" – IAW 8260.19I PARA 8-6-4.B.
28. MISSED APPROACH: MAP: CHANGED "LNAV: RW17R" TO "LNAV: RW18R" – IAW 8260.19I PARA 8-6-6.C.
29. PROFILE LINE 2: DELETED ALL ASSOCIATED HOLDING INFORMATION TO ZIPIV – PER FPT REQUEST AND IAW 8-6-7.B.
30. PROFILE LINE 2: ADDED "PROFILE STARTS AT HLWLK" – IAW 8260.109I PARA 8-6-7.B.(3).
31. PROFILE LINE 3: FAC: CHANGED FROM "175.63" TO "177.64" – IAW 8260.19I PARA 8-6-7.C.(1).
32. PROFILE LINE 3: FAF: CHANGED FROM "ATAGE" TO "CIXEN" – FPT IDENTIFIED NEW FAF AND IAW 8260.19I PARA 8-6-7.C.(2).
33. PROFILE LINE 4: MIN ALT: REMOVED "ZIPIV 2000" – IAW 8260.19I PARA 8-6-7.D.
34. PROFILE LINE 4: MIN ALT: DELETED "ATAGE 1400" – NEW FAF IDENTIFIED BY FPT.
35. PROFILE LINE 4: MIN ALT: ADDED "HLWLK 1600" AND "CIXEN 1400" – IAW 8260.19I PARA 8-6-7.D.
36. PROFILE LINE 6: GP ALT AT PFAF: CHANGED "ATAGE 1400" TO "CIXEN 1400" – NEW PFAF IDENTIFIED BY FPT AND IAW 8260.19I PARA 8-6-7.F.
37. PROFILE LINE 7: TCH: CHANGED FROM "55.4" TO "55.2" – NEW PENDING AIRNAV DATA AND IAW 8260.19I PARA 8-6-7.G.(2).
38. PROFILE LINE 8: MSA FROM: CHANGED FROM "RW17R 2600" TO "RW18R 2600" – MAGVAR CHANGE/RUNWAY RENUMBERING AND IAW 8260.19I PARA 8-6-7.H.
39. PBN REQUIREMENTS NOTE: ADDED RNP APCH-GPS – IAW 8260.19I PARA 8-6-8.B.(2).
40. NOTES: CHANGED FROM "CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE PORT IASABEL ALTIMETER SETTING; INCREASE LPV DA TO 277 FEET; INCREASE LNAV/VNAV DA TO 327 FEET; INCREASE ALL MDAS 60 FEET AND VISIBILITY CATS C AND D 1/4 SM" TO "CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE PORT ISABEL ALTIMETER SETTING AND INCREASE LPV DA TO 277 FEET; INCREASE LNAV/VNAV DA TO 327 FEET; INCREASE ALL MDAS 60 FEET AND LNAV VISIBILITY CAT C/D TO RVR 4000 AND CIRCLING VISIBILITY CAT C/D 1/4 SM" – FPT REQUESTS ALL CONTINGENCY NOTES CHARTED.
41. NOTES: CHANGED FROM "CHART NOTE: FOR INOPERATIVE MALSR, WHEN USING PORT ISABEL ALTIMETER SETTING, INCREASE LNAV/VNAV ALL CATS VISIBILITY TO 4500, LNAV CATS A AND B VISIBILITY TO RVR 5500 AND CATS C AND D VISIBILITY TO 1 1/4 MILE" TO "CHART NOTE: FOR INOPERATIVE ALS WHEN USING PORT ISABEL ALTIMETER SETTING, INCREASE LNAV/VNAV ALL CATS VISIBILITY TO RVR 4500 - FPT REQUESTS ALL CONTINGENCY NOTES CHARTED.
42. NOTES: UPDATED "CHART NOTE: FOR INOPERATIVE MALSR, INCREASE LNAV/VNAV ALL CATS VISIBILITY TO RVR 4000, LNAV ALL CATS VISIBILITY TO 5500" TO "CHART NOTE: FOR INOPERATIVE ALS, INCREASE LNAV/VNAV ALL CATS VISIBILITY TO RVR 4000, LNAV CATS C AND D VISIBILITY TO RVR 5500 – IAW 8260.3 TABLE
43. NOTES: ADDED "CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET})" – IAW 8260.19I PARA 8-6-9.M.
44. NOTES: DELETED "CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT JIMIE ON V70 NORTHWEST BOUND AND V407 NORTHBOUND" – PER FPT REQUEST.
45. NOTES: DELETED "CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT MANNY ON V163 NORTHBOUND" – PER FPT REQUEST.
46. NOTES: ADDED "CHART PROFILE NOTE: SEE PLANVIEW FOR MULTIPLE IF LOCATIONS – PER FPT REQUEST.
47. ADDITIONAL FLIGHT DATA: UPDATED "CHART VDP AT 0.98 NM TO RW17R" TO "CHART VDP AT 0.92 NM TO RW18R" – MAGVAR CHANGE/RUNWAY RENUMBERING AND IAW 8260.19I PARA 8-6-10.M.
48. ADDITIONAL FLIGHT DATA: ADDED "CHART MANDATORY 1600 AT HLWLK" - PER ATC REQUEST.
49. ADDITIONAL FLIGHT DATA: UPDATED FROM "HOLD N, LT, 173.21 INBOUND" TO "HOLD N, LT, 175.21 INBOUND" - NEW AIRPORT MAGVAR.
50. MINIMUMS: CIRCLING: UPDATED CMDA CAT A FROM "500" TO "460" AND HAA FROM "464" TO "424" – NEW TARGETS EVALUATION IDENTIFIED A NEW CONTROLLING OBSTACLE.
51. MINIMUMS: CIRCLING: CAT C CMDA FROM "680" TO "600"; HAA FROM "644" TO "564" AND VISIBILITY FROM "1 3/4" TO "1 1/2" – NEW TARGETS EVALUATION IDENTIFIED A NEW CONTROLLING OBSTACLE.
52. FAS DATA: UPDATED RUNWAY FROM "RW17R" TO "RW18R", REFERENCE PATH IDENTIFIER FROM "W17A" TO "W18A", LTP/FTP LATITUDE/LONGITUDE FROM "261425.3795N/0973930.8560W" TO "261425.3815N/0973930.8545W", FPAP LATITUDE/LONGITUDE FROM "261256.0200N/0973931.9500W" TO "261252.2895N/0973932.0000W", TCH FROM "55.4" TO "55.2", LENGTH OFFSET FROM "0224" TO "0000" AND CRC REMAINDER FROM "4E3FA6CF" TO "7A7E0827" – NEW TARGETS EVALUATION/MAGVAR CHANGE AND RUNWAY RENUMBERING.

QUALITY
31
CHECKED

05/03/2024: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 04/05/2024.

- 1. REMOVED INTERMEDIATE LEG FROM ULOTE TO HLWLK.
- 2. REMOVED INTERMEDIATE LEG FROM NSCAR TO HLWLK
- 3. DELETED CHART SPEED ICON IN PLANVIEW NOTES FOR NSCAR, ULOTE, SHLBY AND MPACT FIXES.

COORDINATED WITH:

A4A
 ALPA
 AOPA
 APA
 HAI
 NBAA

OTHER: ZHU, HRL ATCT, VALLEY APP CON, AMGR

FLIGHT CHECKED BY

PENDING

Digitally signed by
CASIMIR L TABAKA
 May 03, 2024

OFFICE

DATE

DEVELOPED BY

ERIC N SUSKI (WESTLEY OWENS)

Digitally signed by
CASIMIR L TABAKA
 May 03, 2024

OFFICE

AJV-A431

DATE

01/26/2024

APPROVED BY

ERIC N SUSKI

Digitally signed by
CASIMIR L TABAKA
 May 03, 2024

OFFICE

AJV-A431

DATE

07/11/2024

TITLE
MANAGER

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KHRL
RUNWAY	RW18R
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	Y
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W18A
LTP/FTP LATITUDE	261425.3815N
LTP/FTP LONGITUDE	0973930.8545W
LTP/FTP ELLIPSOIDAL HEIGHT	-00124
FPAP LATITUDE	261252.2895N
FPAP LONGITUDE	0973932.0000W
THRESHOLD CROSSING HEIGHT (TCH)	00055.2
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0000
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0

CRC REMAINDER 7A7E0827

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K4
LTP ORTHOMETRIC HEIGHT	+00104
FPAP ORTHOMETRIC HEIGHT	+00104

