

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
RNAV - 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> T89	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 7	<u>ORIGINAL/AMENDMENT</u> ORIG	<u>CITY</u> LAJITAS	<u>STATE</u> TX		
<u>AIRPORT ELEVATION</u> 2630	<u>TDZE</u> 2608	<u>SUPERSEDED</u>	<u>ORIGINAL/AMENDMENT</u> NONE	<u>DATED</u>	<u>MAG VAR</u> 9E	<u>EPOCH YEAR</u> 2000
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE			

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>
MRF VOR/DME		AYMON		TF	FB		171.05	41.61	15000
RUZEL		AYMON		TF	FB		259.37	18.73	15000
AYMON	IAF	GODGE		TF	FB		170.94	15.00	7500
GODGE	IF	MULHU		TF	FB		116.22	4.00	6300
MULHU		DUTAC		TF	FB		116.25	3.00	5600
DUTAC	FAF	JEPOG/4.10 NM TO PALNE		TF	FB		086.27	3.34	
JEPOG/4.10 NM TO PALNE	SDF	PALNE	MAP	TF	FO		086.27		
PALNE	MAP	4280 MSL		CA			086.27		
4280 MSL		RUZEL		DF	FO				15000

MISSED APPROACH

MAP:

LNAV: PALNE

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 4280 THEN CLIMBING LEFT TURN TO 15000 DIRECT RUZEL AND HOLD, CONTINUE CLIMB IN HOLD TO 15000.

ALTERNATE MISSED APPROACH INSTRUCTIONS (DO NOT CHART):

PROFILE:

1. PT **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF** **(IAF)**
2. PROFILE STARTS AT GODGE
3. **FAC:** 086.27 **FAF:** DUTAC **DIST FAF TO MAP:** 7.43 **DIST FAF TO THLD:** 7.93
4. **MIN ALT:** GODGE 7500, MULHU 6300, DUTAC 5600, JEPOG / 4.10 NM TO PALNE 4360
5. **DIST TO THLD FROM FAF:** **MM:** **IM:** **150 HAT:** **HAT:**
6. **MIN GP INCPT:** **GP ALT AT FAF:** **MM:** **IM:**

7. GP ANGLE: 34:1: IS NOT CLEAR 20:1: IS CLEAR TCH: 45.0

8. MSA FROM: PALNE 9100

PBN EQUIPMENT REQUIREMENTS NOTES:

RNP APCH-GPS

NOTES:

CHART NOTE: RWY 7 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE PRESIDIO LELY INTL ALTIMETER SETTING AND INCREASE ALL MDA 140 FEET.
CHART NOTE: VDP NA WHEN USING PRESIDIO LELY INTL ALTIMETER SETTING.
CHART NOTE: CIRCLING NA S OF RWY 7-25.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON MRF VOR/DME AIRWAY RADIALS 079 CW 259.
CHART PLANVIEW NOTE: FINAL APPROACH COURSE OFFSET 17 DEGREES.

ADDITIONAL FLIGHT DATA:

HOLD E, RT, 259.37 INBOUND
FAS OBST: 3840 AAO 291713.37N/1034642.51W
DUTAC TO CFJMS: 3.50/45
CHART VDP 3.49 NM TO PALNE
CHART INTERNATIONAL BORDER.
FAC CROSSES RWY C/L EXTENDED 3000 FEET FROM THLD.
NON-FAA PROCEDURE
VERTICAL ANGLE ALTITUDE AT MAP: 2837

MINIMUMS:

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

ALTERNATE: NA ☐ CAT A, B 1600-2, CAT C, D 1600-3 - NA WHEN LOCAL WEATHER NOT AVAILABLE.

CATEGORY:

FINAL TYPE	DA/MDA	A VIS	HAT/HAA	DA/MDA	B VIS	HAT/HAA	DA/MDA	C VIS	HAT/HAA	DA/MDA	D VIS	HAT/HAA	DA/MDA	E VIS	HAT/HAA
LNAV	4140	1 1/4	1532	4140	1 1/2	1532	4140	3	1532	4140	3	1532			

CIRCLING	4140	1 1/4	1510	4140	1 1/2	1510	4140	3	1510	4180	3	1550			

CHANGES - REASONS:

ORIGINAL

COORDINATED WITH:

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

FLIGHT CHECKED BY

CHRISTIAN F BAUR

CHRISTIAN F. BAUR Digitally signed by CHRISTIAN F. BAUR
Date: 2024.10.08 14:32:33 -05'00'

OFFICE

HAC

DATE

08/24/2022

DEVELOPED BY

JOSH MATTHEWS

Josh Matthews Digitally signed by Josh Matthews
Date: 2024.10.08 14:32:50 -05'00'

OFFICE

HAC

DATE

07/19/2024

APPROVED BY

TONY LAWSON

Tony Lawson Digitally signed by Tony Lawson
Date: 2024.10.08 14:33:06 -05'00'

OFFICE

HAC

DATE

08/24/2024

TITLE

CHIEF DESIGNER

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

AIRPORT	AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
	T89	RNAV (GPS) RWY 7	ORIG	LAJITAS	TX	2630	RNAV

PART A: OBSTRUCTION DATA SEGMENTS

FEEDER

FROM MRF VOR/DME TO AYMUN

RNP	DISTANCE	PAT	MAP	HAT	HMAS							
	41.61											
OBSTRUCTION		COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
1. AAO		300036.00N/1035245.00W	5476	164	98	4E	2000				AT7524	15000
2. TERRAIN		300036.00N/1035245.00W	5275 (5300)								AS1500	6800

COMPUTATIONS

N/A	ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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SEGMENT REMARKS:

FEEDER

FROM RUZEL TO AYMUN

RNP	DISTANCE	PAT	MAP	HAT	HMAS							
	18.73											
OBSTRUCTION		COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
3. AAO		293615.00N/1035139.00W	5470	164	98	4E	2000				AT7530	15000
4. TERRAIN		293615.00N/1035139.00W	5269 (5300)								AS1500	6800

COMPUTATIONS

N/A	ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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SEGMENT REMARKS:

INITIAL

FROM AYMUN TO GODGE

RNP	DISTANCE	PAT	MAP	HAT	HMAS							
	15.00											

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
5.. AAO	293139.00N/1035900.00W	5296	164	98	4E	1000				AT1044 PR160	7500
6. TERRAIN	293139.00N1035900.00W	5095 (5100)								AS1500	6600

COMPUTATIONS	TF TURN FIX	ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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SEGMENT REMARKS:

INTERMEDIATE

FROM						TO								
GODGE						MULHU								
RNP		DISTANCE	PAT		MAP		HAT		HMAS					
		4.00												
OBSTRUCTION			COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
7. AAO			292302.02N/1035512.89W		5080	50	20	2C	500				AT490 PR230	6300
8. TERRAIN			292121.00N/1035621.00W		4632 (4600)								AS1500	6100

COMPUTATIONS	N/A	ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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SEGMENT REMARKS:

INTERMEDIATE: STEPDOWN

FROM						TO								
MULHU						DUTAC								
RNP		DISTANCE	PAT		MAP		HAT		HMAS					
		3.00												
OBSTRUCTION			COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
9. AAO			291948.49N/1035407.68W		4640	50	20	2C	500				PR200 AT260	5600
10. TERRAIN			291957.00N/1035239.00W		4019 (4000)								AS1500	5500

COMPUTATIONS	N/A	ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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SEGMENT REMARKS:

FINAL: LNAV

<u>FROM</u> DUTAC		<u>TO</u> JEPOG/4.10 NM TO PALNE									
<u>RNP</u>	<u>DISTANCE</u> 3.34	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>						
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
11. AAO	291713.37N/1034642.51W	3840	50	20	2C	250				XP58 RA140 XL72	4360

COMPUTATIONS

<u>N/A</u>	<u>ALT</u>	<u>KIAS</u>	<u>KTAS</u>	<u>HAA</u>	<u>VKTW</u>	<u>TR</u>	<u>BA</u>	<u>DTA</u>	<u>COURSE CHANGE</u>	<u>DVEB</u>	<u>VEB OCS</u>	<u>RF CENTER FIX/DISTANCE</u>
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SEGMENT REMARKS:

XP: RAISED TO FLIGHT VALIDATION ALTITUDE

FINAL: LNAV STEPDOWN

<u>FROM</u> JEPOG/4.10 NM TO PALNE					<u>TO</u> CFJMS						
<u>RNP</u>	<u>DISTANCE</u> 4.59	<u>PAT</u>	<u>MAP</u> PALNE	<u>HAT</u> 1532	<u>HMAS</u>						
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
12. AAO	291702.10N/1034615.58W	3840	50	20	2C	250				XP50	4140

COMPUTATIONS

<u>N/A</u>	<u>ALT</u>	<u>KIAS</u>	<u>KTAS</u>	<u>HAA</u>	<u>VKTW</u>	<u>TR</u>	<u>BA</u>	<u>DTA</u>	<u>COURSE CHANGE</u>	<u>DVEB</u>	<u>VEB OCS</u>	<u>RF CENTER FIX/DISTANCE</u>
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SEGMENT REMARKS:

XP: RAISED TO FLIGHT VALIDATION ALTITUDE

MISSED APPROACH: LNAV

<u>FROM</u> PALNE		<u>TO</u> RUZEL			
<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u> 4040

<u>AIRPORT</u>	<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>AMDT NO.</u>	<u>CITY</u>	<u>STATE</u>	<u>AIRPORT ELEVATION</u>	<u>FACILITY</u>
	T89	RNAV (GPS) RWY 7	ORIG	LAJITAS	TX	2630	RNAV

<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
						ASC					15000
13. AAO	292827.00N/1033530.00W	5207	50	20	2C	1000				PR110 AT8683	15000
14. TERRAIN	292827.00N/1033530.00W	5006(5000)								AS1500	6500
<u>COMPUTATIONS</u>											
<u>N/A</u>	<u>ALT</u>	<u>KIAS</u>	<u>KTAS</u>	<u>HAA</u>	<u>VKTW</u>	<u>TR</u>	<u>BA</u>	<u>DTA</u>	<u>COURSE CHANGE</u>	<u>DVEB</u>	<u>VEB OCS RF CENTER FIX/DISTANCE</u>

SEGMENT REMARKS:
CLIMB TO ALTITUDE 20 FOOT INCREMENT USED TO TURN AS SOON AS POSSIBLE DUE TO MEXICAN BORDER.

<u>CIRCLING</u>											
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>RADIUS</u>	<u>HAA</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
<u>CATEGORY A</u>											
15. T/L	291752.25N/1034056.82W	1.35	1510	2850	50	20	2C	300		SI	4140
<u>CATEGORY B</u>											
16. TREE	291829.29N/1034112.69W	1.92	1510	3185	50	20	2C	300		SI	4140
<u>CATEGORY C</u>											
17. TREE	291855.53N/1034302.19W	3.03	1510	3645	50	20	2C	300		SI	4140
<u>CATEGORY D</u>											
18. AAO	292036.00N 1034133.00W	3.97	1550	3872	50	20	2C	300			4180

CIRCLING REMARKS:
CIRCLING NA S OF RWY 07-25

MSA

<u>CENTER</u>	<u>RADIUS</u>
PALNE	25 NM

<u>SECTOR</u>	<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>BEARING</u>	<u>DISTANCE</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
360-360	AAO	291625.15N/1034217.98W	085	21.2	8025	50	20	2C	1000	AT75	9100

MSA REMARKS:
AAO IS LOCATED AT 7,825 MSL SPOT ELEVATION ON VFR SECTIONAL MAP

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH
ZAB

<u>WX SERVICE</u>	<u>LOCATION</u>	<u>HRS OPERATION</u>	<u>ALTIMETER SOURCE</u>	<u>DISTANCE</u>	<u>SERVICE-A</u>	<u>ADJUSTMENTS</u>
AWOS-3	T89	24	T89	0.00	Y	0

BACK-UP WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	SERVICE-A	ADJUSTMENTS
AWOS-3PT	KPRS	24	KPRS	41.35	N	138

WX REMARKS:
PRESSURE PATTERNS THE SAME
T89 2630, KPRS 2938
RA= 138.0

PRIMARY NAVAID	MONITOR POINT	HRS OPERATION	CAT
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APPROACH AND RUNWAY LIGHTING SYSTEM	RUNWAY MARKINGS	RUNWAY VISUAL RANGE
RW07 - MIRL	NPI-G	
RW25 - MIRL	NPI-G	

GLIDESLOPE ANGLE	ELEV RWY THRESHOLD	TCH	ELEV GS ANTENNA	DISTANCE FROM RWY	VGSI ANGLE	TCH
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FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD

☐

3000 FT FROM THRESHOLD

DISPLACED THRESHOLD DISTANCE

ON CENTERLINE

☒

FT FROM CENTERLINE

CRITICAL TEMPERATURES

CRITICAL LOW

CRITICAL HIGH

ACT

APT ISA

CRITICAL TEMPERATURE REMARKS:

"VISUAL PORTION OF FINAL" PENETRATIONS

LNAV

20:1

34:1

07

3520 AAO 291659.19N/1034610.73W (257)

3280 AAO 291647.48N/1034558.75W (40)

PENETRATIONS REMARKS:

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

AIRPORTAIRPORT ID

T89

PROCEDURE NAME

RNAV (GPS) RWY 7

AMDT NO.

ORIG

CITY

LAJITAS

STATE

TX

AIRPORT ELEVATION

2630

FACILITY

RNAV

and/or

5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS**PENETRATIONS REMARKS:****PART C: GENERAL REMARKS:**

PRECIPITOUS TERRAIN EVALUATION COMPLETED. AAO DETERMINED BY 7.5 MIN QUAD. VEGETATION HEIGHT DETERMINED DURING AIRPORT EVALUATION, AVERAGE TREE HEIGHT WITHIN 5 MILES OF THE AIRPORT IS 25 FEET. TARGETS USED TO BUILD THE PROCEDURE. TERRAIN EVALUATED IN TARGETS AND THEN TOPO QUAD. TERRAIN TURNED OFF AND RE-RUN TO CONFIRM OBSTACLES.

PART D: AIRSPACE**DOCKET #****ALL DISTANCES TO 1/100NM; ELEVATION TO NEAREST 100 FEET; COORDINATES TO 1/100 SECOND; DEG TO 1/100 DEGREE**

DISTANCE FROM	THLD	TO 1000FT POINT	5.55
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.2
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	95.27
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	3700
DISTANCE FROM	THLD	TO 1500FT POINT	7.13
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	1.39
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	95.27
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	3700

**THRESHOLD
COORDINATES
(IF STR-IN)** PALNE 291625.15N/1034217.98W*

ARP COORDINATES 291637.65N/1034108.86W

**RUNWAY APCH END
AND DIST FURTHEST
FROM ARP** RWY 25 / 0.54 NM

**FAF
COORDINATES** DUTAC (FAF) 291706.50N/1035045.89W

**FIX NAME
COORDINATES** JEPOG (STEPDOWN) 291648.01N/1034657.98W

REMARKS
GODGE (IF) 292109.48N/1035718.27W, *FICTITIOUS THRESHOLD POINT.

PART E: PREPARED BY

<u>NAME</u>		<u>OFFICE</u>	<u>DATE</u>	<u>TITLE</u>
JOSH MATTHEWS	Josh Matthews Digitally signed by Josh Matthews Date: 2024.09.06 18:21:48 -05'00'	HAC	07/25/2024	TERPS ENGINEER