

**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><br>T89         | <u>PROCEDURE NAME</u><br>RNAV (GPS) Y RWY 25 | <u>ORIGINAL/AMENDMENT</u><br>ORIG | <u>CITY</u><br>LAJITAS                    | <u>STATE</u><br>TX |                      |                           |
| <u>AIRPORT ELEVATION</u><br>2630 | <u>TDZE</u><br>2628                          | <u>SUPERSEDED</u>                 | <u>ORIGINAL/AMENDMENT</u><br>NONE         | <u>DATED</u>       | <u>MAG VAR</u><br>9E | <u>EPOCH YEAR</u><br>2000 |
| <u>FACILITY</u><br>RNAV          | <u>COORDINATES OF FACILITIES</u>             | <u>ACTUAL EFFECTIVE DATE</u>      | <u>REQUIRED EFFECTIVE DATE</u><br>ROUTINE |                    |                      |                           |

**TERMINAL ROUTES**

| <b>FROM</b>           | <b>FIX TYPE</b> | <b>TO</b>             | <b>FIX TYPE</b> | <b>LEG TYPE</b> | <b>FO/FB</b> | <b>RNP</b> | <b>COURSE</b> | <b>DISTANCE</b> | <b>ALTITUDE</b> |
|-----------------------|-----------------|-----------------------|-----------------|-----------------|--------------|------------|---------------|-----------------|-----------------|
| MRF VOR/DME           |                 | COMAE                 |                 | TF              | FB           |            | 136.85        | 52.39           | 15000           |
| RUZEL                 |                 | COMAE                 |                 | TF              | FB           |            | 093.49        | 10.98           | 15000           |
| COMAE                 | IAF             | WEDEL                 |                 | TF              | FB           |            | 137.13        | 10.00           | 11000           |
| WEDEL                 |                 | SOCCR                 |                 | TF              | FB           |            | 217.64        | 7.15            | 7500            |
| SOCCR                 | IF              | JAROR                 |                 | TF              | FB           |            | 239.41        | 7.00            | 5700            |
| JAROR                 | FAF             | CENBA/4.08 NM TO RW25 |                 | TF              | FB           |            | 249.43        | 4.83            | 4060            |
| CENBA/4.08 NM TO RW25 | SDF             | RW25                  | MAP             | TF              | FO           |            | 249.43        | 4.08            |                 |
| RW25                  | MAP             | 4200 MSL              |                 | CA              |              |            | 249.43        |                 |                 |
| 4200 MSL              |                 | RUZEL                 |                 | DF              | FO           |            |               |                 | 15000           |

**MISSED APPROACH**

**MAP:**

LP: RW25

LNAV: RW25

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 4200 THEN CLIMBING RIGHT TURN TO 15000 DIRECT RUZEL AND HOLD, CONTINUE CLIMB-IN-HOLD TO 15000. \*MISSED APPROACH REQUIRES MINIMUM CLIMB OF 237 FEET PER NM TO 5800.

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

**PROFILE:**

1. PT      **SIDE OF COURSE**      **OUTBOUND**      **FT WITHIN**      **MILES OF**      **(IAF)**
2. PROFILE STARTS AT SOCCR
3. **FAC:** 249.43      **FAF:** JAROR      **DIST FAF TO MAP:** 8.91      **DIST FAF TO THLD:** 8.91
4. **MIN ALT:** SOCCR 7500, JAROR 5700, CENBA/4.08 NM TO RW25 4060
5. **DIST TO THLD FROM FAF:**      **MM:**      **IM:**      **150 HAT:**      **HAT:**

|                               |                       |                       |                  |
|-------------------------------|-----------------------|-----------------------|------------------|
| <b>6. MIN GP INCPT:</b>       | <b>GP ALT AT FAF:</b> | <b>MM:</b>            | <b>IM:</b>       |
| <b>7. GP ANGLE:</b>           | <b>34:1:</b> IS CLEAR | <b>20:1:</b> IS CLEAR | <b>TCH:</b> 45.0 |
| <b>8. MSA FROM:</b> RW25 9100 |                       |                       |                  |

**PBN EQUIPMENT REQUIREMENTS NOTES:**

RNP APCH-GPS

**NOTES:**

CHART NOTE: CIRCLING NA S OF RWY 7-25.  
CHART NOTE: WHEN LOCAL ALTIMETER NOT RECEIVED, PROCEDURE NA.  
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON MRF VOR/DME AIRWAY RADIALS 047 CW 227.  
CHART SPEED ICON IN PLANVIEW AT WEDEL: MAX 250 KIAS.

**ADDITIONAL FLIGHT DATA:**

HOLD W, RT, 093.49 INBOUND  
FAS OBST: 3160 AAO 291801.36N/1033639.43W  
FAS OBST: 3120 AAO 291800.34N/1033633.30W  
JAROR TO RW25: 3.20/45  
CHART VDP 1.95 NM TO RW25  
CHART INTERNATIONAL BORDER  
WAAS CHANNEL# 72456  
REFERENCE PATH ID: W25B  
LTP HAE: 779M

**MINIMUMS:**

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

**ALTERNATE:** NA ☐ CAT A, B 1400-2, CAT C 1400-3, CAT D 1600-3 - NA WHEN LOCAL WEATHER NOT AVAILABLE

| 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 |  |
| *LP MDA    | 3340   | 1     | 712     | 3340   | 1     | 712     | 3340   | 2     | 712     | 3340   | 2     | 712     |        |     |         |  |
| * LNAV MDA | 3420   | 1     | 792     | 3420   | 1 1/4 | 792     | 3420   | 2 1/2 | 792     | 3420   | 2 1/2 | 792     |        |     |         |  |
| LP MDA     | 3760   | 1 1/4 | 1132    | 3760   | 1 1/2 | 1132    | 3760   | 3     | 1132    | 3760   | 3     | 1132    |        |     |         |  |
|            |        |       |         |        |       |         |        |       |         |        |       |         |        |     |         |  |
| LNAV MDA   | 4020   | 1 1/4 | 1392    | 4020   | 1 1/2 | 1392    | 4020   | 3     | 1392    | 4020   | 3     | 1392    |        |     |         |  |
| CIRCLING   | 4020   | 1 1/4 | 1390    | 4020   | 1 1/2 | 1390    | 4020   | 3     | 1390    | 4180   | 3     | 1550    |        |     |         |  |

**CHANGES - REASONS:**

ORIGINAL

COORDINATED WITH:

A4A ☐ ALPA ☒ AOPA ☒ APA ☐ HAI ☐ NBAA ☒ OTHER:

FLIGHT CHECKED BY

CHRISTIAN F BAUR

CHRISTIAN F. BAUR Digitally signed by CHRISTIAN F. BAUR  
Date: 2024.09.10 11:31:11 -05'00'

OFFICE

HAC

DATE

09/10/2024

DEVELOPED BY

JOSH MATTHEWS

Josh Matthews Digitally signed by Josh Matthews  
Date: 2024.09.10 11:30:51 -05'00'

OFFICE

HAC

DATE

08/09/2024

APPROVED BY

TONY LAWSON

Tony Lawson Digitally signed by Tony Lawson  
Date: 2024.09.10 11:31:34 -05'00'

OFFICE

HAC

DATE

09/10/2024

TITLE

MANAGER

**FAS DATA BLOCK INFORMATION**

| <u>DATA FIELD</u>                        | <u>DATA</u>   |
|------------------------------------------|---------------|
| OPERATION TYPE                           | 0             |
| SBAS SERVICE PROVIDER IDENTIFIER         | 0             |
| AIRPORT IDENTIFIER                       | T89           |
| RUNWAY                                   | 25            |
| APPROACH PERFORMANCE DESIGNATOR          | 0             |
| ROUTE INDICATOR                          | Y             |
| REFERENCE PATH DATA SELECTOR             | 0             |
| REFERENCE PATH IDENTIFIER (APPROACH ID)  | W25B          |
| LTP/FTP LATITUDE                         | 291644.1500N  |
| LTP/FTP LONGITUDE                        | 1034032.9100W |
| LTP/FTP ELLIPSOIDAL HEIGHT               | +07790        |
| FPAP LATITUDE                            | 291626.1055N  |
| FPAP LONGITUDE                           | 1034212.6915W |
| THRESHOLD CROSSING HEIGHT (TCH)          | 00045.0       |
| TCH UNITS SELECTOR (METERS OR FEET USED) | F             |
| GLIDEPATH ANGLE (GPA)                    | 3.20          |
| COURSE WIDTH AT THRESHOLD                | 106.75        |
| LENGTH OFFSET                            | 0768          |
| HORIZONTAL ALERT LIMIT (HAL)             | 40            |
| VERTICAL ALERT LIMIT (VAL)               | 0             |
| <br><u>CRC REMAINDER</u>                 | <br>604662A9  |

**ADDITIONAL PATH POINT RECORD INFORMATION**

|                         |        |
|-------------------------|--------|
| ICAO CODE               | K4     |
| LTP ORTHOMETRIC HEIGHT  | +08010 |
| FPAP ORTHOMETRIC HIEGHT | +08010 |

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

| <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) Y RWY 25   | ORIG            | LAJITAS     | TX           | 2630                     | RNAV            |

**PART A: OBSTRUCTION DATA SEGMENTS**

**FEEDER**

FROM MRF VOR/DME TO COMAE

| <u>RNP</u>         | <u>DISTANCE</u>        | <u>PAT</u>      | <u>MAP</u>  | <u>HAT</u>  | <u>HMAS</u> |            |            |           |             |  | <u>ADJUSTMENTS</u> | <u>MIN ALT</u> |
|--------------------|------------------------|-----------------|-------------|-------------|-------------|------------|------------|-----------|-------------|--|--------------------|----------------|
|                    | 52.39                  |                 |             |             |             |            |            |           |             |  |                    |                |
| <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> |  |                    |                |
| 1. AAO             | 300627.00N/1034315.00W | 6926            | 164         | 98          | 4E          | 2000       |            |           |             |  | AT6074             | 15000          |
| 2. TERRAIN         | 300627.00N/1034315.00W | 6725 (6700)     |             |             |             |            |            |           |             |  | AS1500             | 8200           |

**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> |
|------------|------------|-------------|-------------|------------|-------------|-----------|-----------|------------|----------------------|-------------|----------------|-------------------------------|
|------------|------------|-------------|-------------|------------|-------------|-----------|-----------|------------|----------------------|-------------|----------------|-------------------------------|

**SEGMENT REMARKS:**

**FEEDER**

FROM RUZEL TO COMAE

| <u>RNP</u>         | <u>DISTANCE</u>        | <u>PAT</u>      | <u>MAP</u>  | <u>HAT</u>  | <u>HMAS</u> |            |            |           |             |  | <u>ADJUSTMENTS</u> | <u>MIN ALT</u> |
|--------------------|------------------------|-----------------|-------------|-------------|-------------|------------|------------|-----------|-------------|--|--------------------|----------------|
|                    | 10.98                  |                 |             |             |             |            |            |           |             |  |                    |                |
| <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> |  |                    |                |
| 3. AAO             | 293718.00N/1032809.00W | 4738            | 164         | 98          | 4E          | 2000       |            |           |             |  | AT8262             | 15000          |
| 4. TERRAIN         | 293718.00N/1032809.00W | 4538 (4500)     |             |             |             |            |            |           |             |  | AS1500             | 6000           |

**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> |
|------------|------------|-------------|-------------|------------|-------------|-----------|-----------|------------|----------------------|-------------|----------------|-------------------------------|
|------------|------------|-------------|-------------|------------|-------------|-----------|-----------|------------|----------------------|-------------|----------------|-------------------------------|

**SEGMENT REMARKS:**

**INITIAL**

FROM COMAE TO WEDEL

| <u>RNP</u> | <u>DISTANCE</u> | <u>PAT</u> | <u>MAP</u> | <u>HAT</u> | <u>HMAS</u> |  |  |  |  |  |
|------------|-----------------|------------|------------|------------|-------------|--|--|--|--|--|
|            | 10.00           |            |            |            |             |  |  |  |  |  |

| OBSTRUCTION | COORDINATES            | ELEV MSL    | HORZ | VERT | AC | ROC  | OCS | CG | CGTA | ADJUSTMENTS  | MIN ALT |
|-------------|------------------------|-------------|------|------|----|------|-----|----|------|--------------|---------|
| 5. AAO      | 292820.38N/1032117.60W | 4580        | 50   | 20   | 2C | 1000 |     |    |      | PR120 AT5300 | 11000   |
| 6.TERRAIN   | 292821.00N/1032118.00W | 4301 (4300) |      |      |    |      |     |    |      | AS1500       | 5800    |

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

SEGMENT REMARKS:  
SPEED RESTRICTION 250 KTS REQUIRED FOR LEG LENGTH.

INITIAL: STEPDOWN

| FROM        |                        |             |      |      | TO    |      |      |    |      |              |         |
|-------------|------------------------|-------------|------|------|-------|------|------|----|------|--------------|---------|
| WEDEL       |                        |             |      |      | SOCCR |      |      |    |      |              |         |
| RNP         | DISTANCE               | PAT         | MAP  |      | HAT   |      | HMAS |    |      |              |         |
|             | 7.15                   |             |      |      |       |      |      |    |      |              |         |
| OBSTRUCTION | COORDINATES            | ELEV MSL    | HORZ | VERT | AC    | ROC  | OCS  | CG | CGTA | ADJUSTMENTS  | MIN ALT |
| 7. AAO      | 292220.45N/1032053.06W | 4760        | 50   | 20   | 2C    | 1000 |      |    |      | PR120 AT1620 | 7500    |
| 8. TERRAIN  | 292220.45N/1032053.06W | 4560 (4600) |      |      |       |      |      |    |      | AS1500       | 6100    |

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

SEGMENT REMARKS:  
SPEED RESTRICTION 250 KTS REQUIRED FOR LEG LENGTH

INTERMEDIATE

| FROM        |                        |     |             |      | TO    |     |     |      |    |      |                    |         |
|-------------|------------------------|-----|-------------|------|-------|-----|-----|------|----|------|--------------------|---------|
| SOCCR       |                        |     |             |      | JAROR |     |     |      |    |      |                    |         |
| RNP         | DISTANCE               | PAT | MAP         |      |       | HAT |     | HMAS |    |      |                    |         |
|             | 7.00                   |     |             |      |       |     |     |      |    |      |                    |         |
| OBSTRUCTION | COORDINATES            |     | ELEV MSL    | HORZ | VERT  | AC  | ROC | OCS  | CG | CGTA | ADJUSTMENTS        | MIN ALT |
| 9. AAO      | 292250.79N/1032603.07W |     | 5000        | 50   | 20    | 2C  | 500 |      |    |      | PR130 SA-341 AT411 | 5700    |
| 10. TERRAIN | 291839.00N/1032403.00W |     | 3750 (3800) |      |       |     |     |      |    |      | AS1500             | 5300    |

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

SEGMENT REMARKS:

AIRPORTAIRPORT ID

T89

PROCEDURE NAME

RNAV (GPS) Y RWY 25

AMDT NO.

ORIG

CITY

LAJITAS

STATE

TX

AIRPORT ELEVATION

2630

FACILITY

RNAV

FINAL: LP

FROM

JAROR

TO

CENBA/4.08 NM TO RW25

RNPDISTANCE

4.83

PATMAPHATHMASOBSTRUCTION

11. AAO

COORDINATES

291906.01N/1033045.28W

ELEV MSL

3660

HORZ

50

VERT

20

AC

2C

ROC

250

OCSCGCGTAADJUSTMENTS

XL146

MIN ALT

4060

COMPUTATIONSN/AALTKIASKTASHAAVKTWTRBADTACOURSE CHANGEDVEBVEB OCSRF CENTER FIX/DISTANCESEGMENT REMARKS:

FINAL: LP STEPDOWN

FROM

CENBA/4.08 NM TO RW25

TO

RW25

RNPDISTANCE

4.08

PATMAP

RW25

HAT

1132

HMASOBSTRUCTION

12. AAO

COORDINATES

291800.34N/1033633.30W

ELEV MSL

3120

HORZ

50

VERT

20

AC

2C

ROC

250

OCSCGCGTAADJUSTMENTS

SA-35 MA425

MIN ALT

3760

COMPUTATIONSN/AALTKIASKTASHAAVKTWTRBADTACOURSE CHANGEDVEBVEB OCSRF CENTER FIX/DISTANCESEGMENT REMARKS:

FINAL: LNAV

FROM

JAROR

TO

CENBA/4.08 NM TO RW25

RNPDISTANCE

4.83

PATMAPHAT

1432

HMAS

| OBSTRUCTION | COORDINATES            | ELEV MSL | HORZ | VERT | AC | ROC | OCS | CG | CGTA | ADJUSTMENTS | MIN ALT |
|-------------|------------------------|----------|------|------|----|-----|-----|----|------|-------------|---------|
| 11. AAO     | 291906.01N/1033045.28W | 3660     | 50   | 20   | 2C | 250 |     |    |      | XL146       | 4060    |

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

SEGMENT REMARKS:

FINAL: LNAV STEPDOWN

FROM

CENBA/4.08 NM TO RW25

TO

RW25

| RNP | DISTANCE | PAT | MAP  | HAT  | HMAS | OBSTRUCTION | COORDINATES            | ELEV MSL | HORZ | VERT | AC | ROC | OCS | CG | CGTA | ADJUSTMENTS | MIN ALT |
|-----|----------|-----|------|------|------|-------------|------------------------|----------|------|------|----|-----|-----|----|------|-------------|---------|
|     | 4.08     |     | RW25 | 1392 |      | 13. AAO     | 291801.36N/1033639.43W | 3160     | 50   | 20   | 2C | 250 |     |    |      | MA610       | 4020    |

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

SEGMENT REMARKS:

MISSED APPROACH: LP

FROM

RW25

TO

RUZEL

| RNP | DISTANCE | PAT | MAP | HAT | HMAS | OBSTRUCTION | COORDINATES            | ELEV MSL    | HORZ | VERT | AC | ROC  | OCS | CG | CGTA | ADJUSTMENTS | MIN ALT |
|-----|----------|-----|-----|-----|------|-------------|------------------------|-------------|------|------|----|------|-----|----|------|-------------|---------|
|     |          |     |     |     | 3660 |             |                        |             |      |      |    | ASC  |     |    |      |             | 15000   |
|     |          |     |     |     |      | 14. AAO     | 292534.15N/1034629.73W | 5240        | 50   | 20   | 2C | 1000 |     |    |      | PR170       | 6500    |
|     |          |     |     |     |      | 15. TERRAIN | 292534.15N/1031818.54W | 5039 (5000) |      |      |    |      |     |    |      | AS1500      | 6500    |

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

SEGMENT REMARKS:

MISSED APPROACH: LP (237/5800)

|                     |                        |             |      |      |      |      |         |     |               |              |         |                        |
|---------------------|------------------------|-------------|------|------|------|------|---------|-----|---------------|--------------|---------|------------------------|
| FROM                | TO                     |             |      |      |      |      |         |     |               |              |         |                        |
| RW25                | RUZEL                  |             |      |      |      |      |         |     |               |              |         |                        |
| RNP                 | DISTANCE               | PAT         | MAP  | HAT  | HMAS |      |         |     |               |              |         |                        |
|                     |                        |             |      |      | 3240 |      |         |     |               |              |         |                        |
| OBSTRUCTION         | COORDINATES            | ELEV MSL    | HORZ | VERT | AC   | ROC  | OCS     | CG  | CGTA          | ADJUSTMENTS  | MIN ALT |                        |
| 16. AAO             | 292424.61N/1034634.91W | 5160        | 50   | 20   | 2C   |      | 32.15:1 | 237 | 5800          |              | 15000   |                        |
| 14. AAO             | 292534.15N/1034629.73W | 5240        | 50   | 20   | 2C   | 1000 |         |     |               | PR180 AT8580 | 15000   |                        |
| 15. TERRAIN         | 292534.15N/1031818.54W | 5039 (5000) |      |      |      |      |         |     |               | AS1500       | 6500    |                        |
| COMPUTATIONS        |                        |             |      |      |      |      |         |     |               |              |         |                        |
| Select from menu... | ALT                    | KIAS        | KTAS | HAA  | VKTW | TR   | BA      | DTA | COURSE CHANGE | DVEB         | VEB OCS | RF CENTER FIX/DISTANCE |

SEGMENT REMARKS:

MISSED APPROACH: LNAV

|              |                        |      |             |      |      |    |      |     |               |      |              |                        |
|--------------|------------------------|------|-------------|------|------|----|------|-----|---------------|------|--------------|------------------------|
| FROM         |                        |      |             |      |      |    |      |     |               |      |              | TO                     |
| RW25         |                        |      |             |      |      |    |      |     |               |      |              | RUZEL                  |
| RNP          | DISTANCE               | PAT  |             | MAP  |      |    | HAT  |     | HMAS          |      |              |                        |
|              |                        |      |             |      |      |    |      |     | 3920          |      |              |                        |
| OBSTRUCTION  | COORDINATES            |      | ELEV MSL    | HORZ | VERT | AC | ROC  | OCS | CG            | CGTA | ADJUSTMENTS  | MIN ALT                |
|              |                        |      |             |      |      |    | ASC  |     |               |      |              | 15000                  |
| 14. AAO      | 292534.15N/1034629.73W |      | 5240        | 50   | 20   | 2C | 1000 |     |               |      | PR180 AT8580 | 15000                  |
| 15. TERRAIN  | 292534.15N/1031818.54W |      | 5039 (5000) |      |      |    |      |     |               |      | AS1500       | 6500                   |
| COMPUTATIONS |                        |      |             |      |      |    |      |     |               |      |              |                        |
| N/A          | ALT                    | KIAS | KTAS        | HAA  | VKTW | TR | BA   | DTA | COURSE CHANGE | DVEB | VEB OCS      | RF CENTER FIX/DISTANCE |

SEGMENT REMARKS:

MISSED APPROACH: LNAV (237/5800)

|            |                 |            |            |            |             |
|------------|-----------------|------------|------------|------------|-------------|
| FROM       | TO              |            |            |            |             |
| RW25       | RUZEL           |            |            |            |             |
| <u>RNP</u> | <u>DISTANCE</u> | <u>PAT</u> | <u>MAP</u> | <u>HAT</u> | <u>HMAS</u> |
|            |                 |            |            |            | 3320        |

|                |                   |                       |                 |             |              |                          |                 |
|----------------|-------------------|-----------------------|-----------------|-------------|--------------|--------------------------|-----------------|
| <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) Y RWY 25   | 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>                               |
|---------------------|------------------------|-----------------|-------------|-------------|-------------|------------|------------|------------|----------------------|--------------------|----------------------------------------------|
|                     |                        |                 |             |             |             |            | 32.15:1    | 237        | 5800                 |                    | 15000                                        |
| 14. AAO             | 292534.15N/1034629.73W | 5240            | 50          | 20          | 2C          | 1000       |            |            |                      | PR180 AT8580       | 15000                                        |
| 15. TERRAIN         | 292534.15N/1031818.54W | 5039 (5000)     |             |             |             |            |            |            |                      | AS1500             | 6500                                         |
| <u>COMPUTATIONS</u> |                        |                 |             |             |             |            |            |            |                      |                    |                                              |
| Select from menu... | <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> |

SEGMENT REMARKS:

CIRCLING

| <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>  |                        |               |            |                 |             |             |           |            |            |                    |                |
| 17. TL TOWER       | 291752.25N/1034056.82W | 1.35          | 1390       | 2850            | 50          | 20          | 2C        | 300        |            | SI                 | 4020           |
| <u>CATEGORY B</u>  |                        |               |            |                 |             |             |           |            |            |                    |                |
| 18. TREE           | 291829.29N/1034112.69W | 1.92          | 1390       | 3185            | 50          | 20          | 2C        | 300        |            | SI                 | 4020           |
| <u>CATEGORY C</u>  |                        |               |            |                 |             |             |           |            |            |                    |                |
| 19. TREE           | 291855.53N/1034302.19W | 3.02          | 1390       | 3645            | 50          | 20          | 2C        | 300        |            | SI                 | 4020           |
| <u>CATEGORY D</u>  |                        |               |            |                 |             |             |           |            |            |                    |                |
| 20. AAO            | 292036.00N/1034133.00W | 3.97          | 1550       | 3872            | 50          | 20          | 2C        | 300        |            |                    | 4180           |

CIRCLING REMARKS:

MSA

|               |               |
|---------------|---------------|
| <u>CENTER</u> | <u>RADIUS</u> |
| RW25          | 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                | 291454.77N/1031807.72N | 086            | 19.7            | 8025            | 50          | 20          | 2C        | 1000       |                    | 9100           |

MSA REMARKS:

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 |
|--------------------|----------|---------------|------------------|----------|-----------|-------------|
|--------------------|----------|---------------|------------------|----------|-----------|-------------|

WX REMARKS:

| PRIMARY NAVAID | MONITOR POINT | HRS OPERATION | CAT |
|----------------|---------------|---------------|-----|
|----------------|---------------|---------------|-----|

| 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 |
|------------------|--------------------|-----|-----------------|-------------------|------------|-----|
|------------------|--------------------|-----|-----------------|-------------------|------------|-----|

| FINAL APPROACH COURSE AIMING |                                     |                    |                              |
|------------------------------|-------------------------------------|--------------------|------------------------------|
| RUNWAY THRESHOLD             | <input checked="" type="checkbox"/> | FT FROM THRESHOLD  | DISPLACED THRESHOLD DISTANCE |
| ON CENTERLINE                | <input checked="" type="checkbox"/> | FT FROM CENTERLINE |                              |

| CRITICAL TEMPERATURES |               |     |         |
|-----------------------|---------------|-----|---------|
| CRITICAL LOW          | CRITICAL HIGH | ACT | APT ISA |

CRITICAL TEMPERATURE REMARKS:

"VISUAL PORTION OF FINAL" PENETRATIONS

20:1

34:1

PENETRATIONS REMARKS:

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

and/or

AIRPORTAIRPORT ID

T89

PROCEDURE NAME

RNAV (GPS) Y RWY 25

AMDT NO.

ORIG

CITY

LAJITAS

STATE

TX

AIRPORT ELEVATION

2630

FACILITY

RNAV

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**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 BY 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                 | 6.18   |
| WIDTH OF                                         | FINAL                                   | SEGMENT AT 1000FT POINT         | 1.55   |
| TRUE COURSE OF                                   | FINAL                                   | SEGMENT CONTAINING 1000FT POINT | 258.43 |
| HIGH TERRAIN IN                                  | FINAL                                   | SEGMENT CONTAINING 1000FT POINT | 3500   |
| DISTANCE FROM                                    | THLD                                    | TO 1500FT POINT                 | 7.51   |
| WIDTH OF                                         | FINAL                                   | SEGMENT AT 1500FT POINT         | 1.84   |
| TRUE COURSE OF                                   | FINAL                                   | SEGMENT CONTAINING 1500FT POINT | 258.43 |
| HIGH TERRAIN IN                                  | FINAL                                   | SEGMENT CONTAINING 1500FT POINT | 3500   |
| THRESHOLD<br>COORDINATES<br>(IF STR-IN)          | 291644.15N/1034032.91W                  |                                 |        |
| ARP COORDINATES                                  | 291637.65N/1034108.86W                  |                                 |        |
| RUNWAY APCH END<br>AND DIST FURTHEST<br>FROM ARP | RWY 25 / 0.54 NM                        |                                 |        |
| FAF<br>COORDINATES                               | JAROR (FAF) 291831.97N/1033034.09W      |                                 |        |
| FIX NAME<br>COORDINATES                          | CENBA (STEPDOWN) 291733.65N/1033558.56W |                                 |        |
| REMARKS                                          | SOCCR (IF) 292107.09N/1032307.38W       |                                 |        |

PART E: PREPARED BY

| <u>NAME</u>   |                                                                                                                            | <u>OFFICE</u> | <u>DATE</u> | <u>TITLE</u>   |
|---------------|----------------------------------------------------------------------------------------------------------------------------|---------------|-------------|----------------|
| JOSH MATTHEWS | <div>Josh Matthews</div> <div><small>Digitally signed by Josh Matthews<br/>Date: 2024.09.10 10:38:18 -05'00'</small></div> | HAC           | 08/09/2024  | TERPS ENGINEER |