

US DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.33

Bearings, headings, courses, 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 in feet RVR.

| TERMINAL ROUTES | | | | | | | | | | MISSED APPROACH | | | | | | | | | |
|--|--------|----------------------------|---------|--|-----|---------|--------|------------------------------|---------|--|-------|------------|--------|-------------------------------------|---------|------------------|--|--|--|
| FROM | | TO | | COURSE AND DISTANCE | | | | ALTITUDE | | | | | | | | | | | |
| ORALE (IF/IAF) | | JISGO (FB) | | 125.78 / 7.20 | | | | 2700 | | LPV: DA LNAV/VNAV: DA LNAV: RW13 | | | | | | | | | |
| JISGO (FAF) | | YOYTU/3.30 NM TO RW13 (FB) | | 125.83 / 3.14 | | | | | | CLIMB TO 3000 DIRECT HODAL AND HOLD. | | | | | | | | | |
| YOYTU/3.30 NM TO RW13 | | RW13 (MAP) (FO) | | 125.83 / 3.30 | | | | | | | | | | | | | | | |
| RW13 (MAP) | | 793 MSL | | 125.83 | | | | | | | | | | | | | | | |
| 793 MSL | | HODAL (FO) | | | | | | 3000 | | ADDITIONAL FLIGHT DATA: HOLD SE, RT, 305.96 INBOUND. CHART FAS OBST: 853 ANT 295518N/0975446W 1199 AAO 295744N/0975826W. DISTANCE TO THLD FROM 200 HATH: 0.45 NM. CHART VDP AT 1.48 MILES TO RW13* *LNAV ONLY. WAAS CHANNEL # 86232 REFERENCE PATH ID: W13A CHART CIRCLING ICON. LTP HAE: 154.7 M | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| 1. PT <u> </u> SIDE OF COURSE <u> </u> OUTBOUND <u> </u> FT WITHIN <u> </u> MILES OF <u> </u> (IAF) 2. HOLD NW ORALE, RT, 125.78 INBOUND, 3500 FT. IN LIEU OF PT (IAF) 3. FAC: <u>125.83</u> FAF: <u>JISGO</u> DIST FAF TO MAP: <u>6.44</u> THLD: <u>6.44</u> 4. MIN. ALT: ORALE 3500, JISGO 2700, YOYTU/3.30 NM TO RW13 1700* 5. DIST TO THLD FROM OM: <u> </u> MM: <u> </u> IM: <u> </u> 150 HAT: <u> </u> 100 HAT: <u> </u> GS ANT: <u> </u> 6. MIN GS INCPT: <u>2700</u> GS ALT AT: <u>JISGO 2700</u> OM: <u> </u> MM: <u> </u> IM: <u> </u> 7. GS ANGLE: <u>3.00</u> TCH: <u>56.8</u> 34:1 IS CLEAR 8. MSA FROM: <u> </u> | | | | | | | | | | MAG VAR: 7E | | | | | | EPOCH YEAR: 1985 | | | |
| MINIMUMS | | | | | | | | | | | | | | | | | | | |
| TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT | | | | | | | | | | ALTERNATE: N A | | STANDARD @ | | | | | | | |
| CATEGORY >>>>> | A | | | B | | | C | | | D | | | E | | | | | | |
| | DH/MDA | VIS | HAT/HAA | DH/MDA | VIS | HAT/HAA | DH/MDA | VIS | HAT/HAA | DH/MDA | VIS | HAT/HAA | DH/MDA | VIS | HAT/HAA | | | | |
| LPV DA | 793 | 1/2 | 200 | 793 | 1/2 | 200 | 793 | 1/2 | 200 | 793 | 1/2 | 200 | 793 | 1/2 | 200 | | | | |
| LNAV/VNAV DA | 946 | 5/8 | 353 | 946 | 5/8 | 353 | 946 | 5/8 | 353 | 946 | 5/8 | 353 | 946 | 5/8 | 353 | | | | |
| LNAV MDA | 1120 | 1/2 | 527 | 1120 | 1/2 | 527 | 1120 | 1 | 527 | 1120 | 1 | 527 | 1120 | 1 | 527 | | | | |
| CIRCLING | 1120 | 1 | 525 | 1120 | 1 | 525 | 1240 | 1 3/4 | 645 | 1320 | 2 1/4 | 725 | 1340 | 2 3/4 | 745 | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| NOTES: CHART NOTE: BARO-VNAV NA WHEN USING NEW BRAUNFELS ALTIMETER SETTING. CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16C (3F) OR ABOVE 54C (130F). CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE NEW BRAUNFELS ALTIMETER SETTING AND INCREASE ALL DA 43 FT AND ALL MDA 60 FT; INCREASE LNAV/VNAV ALL CATS, LNAV CAT C/D/E AND CIRCLING (SEE FORM 8260-10) @ CAT D 800-2 1/4, CAT E 800-2 3/4 @ NA WHEN LOCAL WEATHER NOT AVAILABLE. | | | | | | | | | | | | | | | | | | | |
| CITY AND STATE SAN MARCOS, TX | | | | ELEVATION: 595 THRE: 593 AIRPORT NAME: SAN MARCOS MUNI | | | | FACILITY IDENTIFIER: RNAV | | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 13, AMDT 2 27 JUNE 2013 | | | | SUP: AMDT: 1 DATED 03/07/2013 | | | | | |

QUALITY
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US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

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NOTES, (CONT.):

CAT C/D VISIBILITY 1/4 MILE.

CHART NOTE: FOR INOPERATIVE MALSR, INCREASE LPV CAT E VISIBILITY TO 3/4, LNAV/VNAV CAT E VISIBILITY TO 1 1/8 AND LNAV CAT E VISIBILITY TO 1 1/2.

CHART NOTE: FOR INOPERATIVE MALSR, WHEN USING NEW BRAUNFELS ALTIMETER SETTING, INCREASE LPV CAT E VISIBILITY TO 3/4, LNAV/VNAV CAT E VISIBILITY TO 1 1/4 AND LNAV CAT E VISIBILITY TO 1 3/4.

CHART NOTE: CIRCLING NA FOR CAT E SW OF RWY 13-31.

CHART NOTE: DME/DME RNP-0.3 NA.

CHART NOTE: VDP NA WITH NEW BRAUNFELS ALTIMETER SETTING.

TAA

| | FROM | TO | ALT |
|----|-------------------------|---------------------|------|
| 1. | 036/30 CW 216/30 (NOPT) | 036/10 CW 216/10 | 4100 |
| 2. | 036/10 CW 216/10 | ORALE (IF/IAF) (FB) | 3500 |
| 3. | 216/30 CW 036/30 | ORALE (IF/IAF) (FO) | 3500 |

QUALITY
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CITY AND STATE

SAN MARCOS, TX

ELEVATION: 595

THRE: 593

AIRPORT NAME:

SAN MARCOS MUNI

**FACILITY
IDENTIFIER:**

RNAV

PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 13, AMDT 2

27 JUNE 2013

SUP:

AMDT:

1

DATED:

03/07/2013

RNAV STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - FAR PART 97.33

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FAS DATA BLOCK INFORMATIONDATA FIELDDATA

| | |
|--|---------------|
| OPERATION TYPE | 0 |
| SBAS SERVICE PROVIDER IDENTIFIER | 0 |
| AIRPORT IDENTIFIER | KHYI |
| RUNWAY | RW13 |
| APPROACH PERFORMANCE DESIGNATOR | 0 |
| ROUTE INDICATOR | |
| REFERENCE PATH DATA SELECTOR | 0 |
| REFERENCE PATH IDENTIFIER (APPROACH ID) | W13A |
| LTP/FTP LATITUDE | 295349.3065N |
| LTP/FTP LONGITUDE | 0975212.0775W |
| LTP/FTP ELLIPSOIDAL HEIGHT | +01547 |
| FPAP LATITUDE | 295248.5250N |
| FPAP LONGITUDE | 0975056.9740W |
| THRESHOLD CROSSING HEIGHT (TCH) | 00056.8 |
| TCH UNITS SELECTOR (METERS OR FEET USED) | F |
| GLIDEPATH ANGLE (GPA) | 03.00 |
| COURSE WIDTH AT THRESHOLD | 106.75 |
| LENGTH OFFSET | 1040 |
| HORIZONTAL ALERT LIMIT (HAL) | 40.0 |
| VERTICAL ALERT LIMIT (VAL) | 35.0 |

CRC REMAINDER

D77975B2

ADDITIONAL PATH POINT RECORD INFORMATION

| | |
|-------------------------|--------|
| ICAO CODE | K4 |
| LTP ORTHOMETRIC HEIGHT | +01808 |
| FPAP ORTHOMETRIC HEIGHT | +01808 |

CITY AND STATE

SAN MARCOS, TX

ELEVATION: 595

THRE: 593

AIRPORT NAME:

SAN MARCOS MUNI

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 13, AMDT 2

27 JUNE 2013

SUP:

AMDT:

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DATED:

03/07/2013

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[illegible][illegible]

| SEGMENT | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 |
|------------------|--------|--------------------|----|-------|------------|-------|----------|---|------------|-------|---|---|----|
| SUSAP KHYIK4FR13 | AORALE | 010ORALEK4EA0EE | AR | HF | | | 12580060 | + | 03500 | 18000 | | A | JS |
| SUSAP KHYIK4FR13 | R | 010ORALEK4EA0E | I | IF | | | | + | 03500 | 18000 | | A | JS |
| SUSAP KHYIK4FR13 | R | 020JISGOK4EA1E | F | 051TF | | | 12580072 | + | 02700 | | | A | JS |
| SUSAP KHYIK4FR13 | R | 020JISGOK4EA2WALPV | | | ALNAV/VNAV | ALNAV | | | | | | | JS |
| SUSAP KHYIK4FR13 | R | 021VOYTUK4EA0E | S | 031TF | | | 12580031 | V | 0170001701 | -300 | | A | JS |
| SUSAP KHYIK4FR13 | R | 030RW13 K4PGOGY | M | 031TF | | | 12580033 | | 00650 | -300 | | A | JS |
| SUSAP KHYIK4FR13 | R | 040 | 0 | M | CA | | 1258 | + | 00793 | | | A | JS |
| SUSAP KHYIK4FR13 | R | 050HODALK4EA0EY | | DF | | | | + | 03000 | | | A | JS |
| SUSAP KHYIK4FR13 | R | 060HODALK4EA0EE | R | HM | | | 30600060 | + | 03000 | | | A | JS |

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QUALITY
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| | | | | |
|---|---|--|--|--------------------------|
| CITY AND STATE SAN MARCOS, TX | ELEVATION: 595 THRE: 593 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 13, AMDT 2 27 JUNE 2013 | SUP: |
| | AIRPORT NAME: SAN MARCOS MUNI | | | AMDT: 1 |
| | | | | DATED: 03/07/2013 |

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICES - FAR PART 97.33

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ARINC SUMMARY - 424-18 - RNAV (GPS)

| ROUTES | TRANSITION | FIX | SEQ | USE | PATH | TURN | FO/FB | RNP | MAG(TRUE) | DISTANCE | ALTITUDE | SPEED |
|--------|------------|-------|-----|------|------|------|-------|-----|---------------|----------|----------|----------|
| | ORALE | ORALE | 010 | IAF | HF | R | FO | | 125.8(132.8T) | 006.0 | AA 03500 | |
| | | ORALE | 010 | FACF | IF | | FB | | | | AA 03500 | |
| | | JISGO | 020 | FAF | TF | | FB | 0.5 | 125.8(132.8T) | 007.2 | AA 02700 | |
| | | YOYTU | 021 | SDF | TF | | FB | 0.3 | 125.8(132.8T) | 003.1 | AA 01700 | GS 01701 |
| | | RW13 | 030 | MAP | TF | | FO | 0.3 | 125.8(132.8T) | 003.3 | AT 00650 | |

| MISSED APPROACH | FIX | SEQ | USE | PATH | TURN | FO/FB | RNP | MAG(TRUE) | DISTANCE | ALTITUDE | SPEED |
|-----------------|-------|-----|-----|------|------|-------|-----|---------------|----------|----------|-------|
| | | 040 | | CA | | FB | | 125.8(132.8T) | | AA 00793 | |
| | HODAL | 050 | | DF | | FO | | | | AA 03000 | |
| | HODAL | 060 | | HM | R | FO | | 306.0(313.0T) | 006.0 | AA 03000 | |

| POINT DATA | WAYPOINT | LAT IN SECS | LONG IN SECS | LAT IN MINS | LONG IN MINS |
|------------|----------|-------------|--------------|-------------|--------------|
| | HODAL | N294520.92 | W0974145.00 | N2945.349 | W09741.750 |
| | JISGO | N295812.66 | W0975737.95 | N2958.211 | W09757.633 |
| | ORALE | N300306.94 | W0980342.98 | N3003.116 | W09803.716 |
| | YOYTU | N295604.34 | W0975459.07 | N2956.072 | W09754.985 |
| | RW13 | N295349.31 | W0975212.08 | N2953.822 | W09752.201 |

| RUNWAY DATA | RWY | THRESHOLD ELEVATION | TCH |
|-------------|------|------------------------|-----|
| | RW13 | 00593 | 57 |

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| | | | | |
|---|---|---|--|------|
| CITY AND STATE SAN MARCOS, TX | ELEVATION: 595 THRE: 593 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 13, AMDT 2 27 JUNE 2013 | SUP: |
| | AIRPORT NAME: SAN MARCOS MUNI | | AMDT: 1 | |
| | | | DATED: 03/07/2013 | |