

SC-3

SW. TX

10 NOV 16 to 05 JAN 17



Federal Aviation
Administration

TM

U.S. Terminal Procedures Publication

South Central (SC) Vol 3 of 5

Effective: 0901Z

10 NOV 2016

to: 0901Z

05 JAN 2017

Consult the Change Notice
(CN) effective 08 DEC 2016 for
revised Instrument Procedure
Charts for this volume



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CORRECTIONS, COMMENTS AND/OR PROCUREMENT

**FOR CHARTING ERRORS,
OR FOR CHANGES, ADDITIONS,
RECOMMENDATIONS ON
PROCEDURAL ASPECTS CONTACT:**

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Frequently asked questions (FAQ) are answered on our website at <http://www.faa.gov/go/ais>.
See the FAQs prior to contact via toll free number or email.

Request for the creation or revisions to Airport Diagrams should be in accordance with FAA Order 7910.4.

INOP COMPONENTS

INOPERATIVE COMPONENTS OR VISUAL AIDS TABLE

Landing minimums published on instrument approach procedure charts are based upon full operation of all components and visual aids associated with the particular instrument approach chart being used. Higher minimums are required with inoperative components or visual aids as indicated below. If more than one component is inoperative, each minimum is raised to the highest minimum required by any single component that is inoperative. ILS glide slope inoperative minimums are published on the instrument approach charts as localizer minimums. This table may be amended by notes on the approach chart. Such notes apply only to the particular approach category(ies) as stated. See legend page for description of components indicated below.

(1) ILS, PAR, RNAV (LPV line of minima) and GLS

Inoperative Component or Aid	Approach Category	Increase Visibility
ALSF 1 & 2, MALSR, & SSALR	ABCD	¼ mile

(2) ILS with visibility minimum of 1,800 RVR

ALSF 1 & 2, MALSR, & SSALR	ABCD	To 4000 RVR
TDZL RCLS	ABCD	To 2400 RVR*
RVR	ABCD	To ½ mile

*1800 RVR authorized with the use of FD or AP or HUD to DA.

(3) VOR, VOR/DME, TACAN, LOC, LOC/DME, LDA, LDA/DME, SDF, SDF/DME, GPS, ASR, RNAV (LNAV/VNAV, LP, LNAV lines of minima) and RNP

Inoperative Visual Aid	Approach Category	Increase Visibility
ALSF 1 & 2, MALSR, & SSALR	ABCD	½ mile
SSALS, MALS, & ODALS	ABC	¼ mile

(4) NDB

ALSF 1 & 2, MALSR, & SSALR	C	½ mile
MALS, SSALS, ODALS	ABD	¼ mile
	ABC	¼ mile

TERMS/LANDING MINIMA DATA

IFR LANDING MINIMA

The United States Standard for Terminal Instrument Procedures (TERPS) is the approved criteria for formulating instrument approach procedures. Landing minima are established for six aircraft approach categories (ABCDE and COPTER). In the absence of COPTER MINIMA, helicopters may use the CAT A minimums of other procedures.

LANDING MINIMA FORMAT

In this example airport elevation is 1179, and runway touchdown zone elevation is 1152.

CATEGORY	A		B	C	D
	S-ILS 27	1352/24			200	(200-½)
S-LOC 27	1440/24		288	(300-½)	1440/50 288 (300-1)
CIRCLING	1540-1 361 (400-1)	1640-1 461 (500-1)	1640-1½ 461 (500-1½)	1740-2 561 (600-2)	

Labels: DA (1352), Visibility (RVR 100's of feet) (24), Aircraft Approach Category (A, B, C, D), HAT/HATh (200), MDA (1540-1), HAA (361), Visibility in Statute Miles (400-1, 500-1, 500-1½, 600-2).

All weather minimums in parentheses not applicable to Civil Pilots.
Military Pilots refer to appropriate regulations.

COPTER MINIMA ONLY

CATEGORY	COPTER
H-176°	680-½ 363 (400-½)

Copter Approach Direction (H-176°), Height of MDA/DA Above Landing Area (HAL) (680-½, 363). No circling minimums are provided.

NOTE: The **W** symbol indicates outages of the WAAS vertical guidance may occur daily at this location due to initial system limitations. WAAS NOTAMS for vertical outages are not provided for this approach. Use LNAV minima for flight planning at these locations, whether as a destination or alternate. For flight operations at these locations, when the WAAS avionics indicate that LNAV/VNAV or LPV service is available, then vertical guidance may be used to complete the approach using the displayed level of service. Should an outage occur during the procedure, reversion to LNAV minima may be required. As the WAAS coverage is expanded, the **W** will be removed.

RNAV minimums are dependent on navigation equipment capability, as stated in the applicable AFM, AFMS, or other FAA approved document. See AIM paragraph 5-4-5, AC 90-105 and AC 90-107 for detailed requirements for each line of minima.

COLD TEMPERATURE RESTRICTED AIRPORTS

NOTE: A **⊗** -12°C/10°F symbol and associated temperature indicates a cold temperature altitude correction is required at this airport when reported temperature is at or below the published restricted temperature. Advise ATC when altitude correction is made in the intermediate and/or missed approach segment. Reporting correction to ATC in final segment is not required. See following Cold Temperature Error Table to make manual corrections. See Notices to Airman Publication (NTAP) Graphic Notices General for complete list of published airports, temperature/s, segments and procedure information. www.faa.gov/air_traffic/publications/notices

COLD TEMPERATURE ERROR TABLE

HEIGHT ABOVE AIRPORT IN FEET

REPORTED TEMP °C	200	300	400	500	600	700	800	900	1000	1500	2000	3000	4000	5000
+10	10	10	10	10	20	20	20	20	20	30	40	60	80	90
0	20	20	30	30	40	40	50	50	60	90	120	170	230	280
-10	20	30	40	50	60	70	80	90	100	150	200	290	390	490
-20	30	50	60	70	90	100	120	130	140	210	280	420	570	710
-30	40	60	80	100	120	140	150	170	190	280	380	570	760	950
-40	50	80	100	120	150	170	190	220	240	360	480	720	970	1210
-50	60	90	120	150	180	210	240	270	300	450	590	890	1190	1500

AIRCRAFT APPROACH CATEGORIES

Aircraft approach category indicates a grouping of aircraft based on a speed of VREF, if specified, or if VREF not specified, 1.3 VSO at the maximum certificated landing weight. VREF, VSO, and the maximum certificated landing weight are those values as established for the aircraft by the certification authority of the country of registry. Helicopters are Category A aircraft. An aircraft shall fit in only one category. However, if it is necessary to operate at a speed in excess of the upper limit of the speed range for an aircraft's category, the minimums for the category for that speed shall be used. For example, an airplane which fits into Category B, but is circling to land at a speed of 145 knots, shall use the approach Category D minimums. As an additional example, a Category A airplane (or helicopter) which is operating at 130 knots on a straight-in approach shall use the approach Category C minimums. See following category limits:

MANEUVERING TABLE

Approach Category	A	B	C	D	E
Speed (Knots)	0-90	91-120	121-140	141-165	Abv 165

TERMS/LANDING MINIMA DATA

TERMS/LANDING MINIMA DATA

CIRCLING APPROACH OBSTACLE PROTECTED AIRSPACE

The circling MDA provides vertical obstacle clearance during a circle-to-land maneuver. The circling MDA protected area extends from the threshold of each runway authorized for landing following a circle-to-land maneuver for a distance as shown in the tables below. The resultant arcs are then connected tangentially to define the protected area.

STANDARD CIRCLING APPROACH MANEUVERING RADIUS

Circling approach protected areas developed prior to late 2012 used the radius distances shown in the following table, expressed in nautical miles (NM), dependent on aircraft approach category. The approaches using standard circling approach areas can be identified by the absence of the **C** symbol on the circling line of minima.

Circling MDA in feet MSL	Approach Category and Circling Radius (NM)				
	CAT A	CAT B	CAT C	CAT D	CAT E
All Altitudes	1.3	1.5	1.7	2.3	4.5

C EXPANDED CIRCLING APPROACH MANEUVERING AIRSPACE RADIUS

Circling approach protected areas developed after late 2012 use the radius distance shown in the following table, expressed in nautical miles (NM), dependent on aircraft approach category, and the altitude of the circling MDA, which accounts for true airspeed increase with altitude. The approaches using expanded circling approach areas can be identified by the presence of the **C** symbol on the circling line of minima.

Circling MDA in feet MSL	Approach Category and Circling Radius (NM)				
	CAT A	CAT B	CAT C	CAT D	CAT E
1000 or less	1.3	1.7	2.7	3.6	4.5
1001-3000	1.3	1.8	2.8	3.7	4.6
3001-5000	1.3	1.8	2.9	3.8	4.8
5001-7000	1.3	1.9	3.0	4.0	5.0
7001-9000	1.4	2.0	3.2	4.2	5.3
9001 and above	1.4	2.1	3.3	4.4	5.5

Comparable Values of RVR and Visibility

The following table shall be used for converting RVR to ground or flight visibility. For converting RVR values that fall between listed values, use the next higher RVR value; do not interpolate. For example, when converting 1800 RVR, use 2400 RVR with the resultant visibility of 1/2 mile.

RVR (feet)	Visibility (statute miles)	RVR (feet)	Visibility (statute miles)
1600	1/4	4500	7/8
2400	1/2	5000	1
3200	5/8	6000	1 1/4
4000	3/4		

RADAR MINIMA

	RWY	GP/TCH/RPI	CAT	DA/ MDA-VIS	HAT/ HATH/ HAA	CEIL-VIS	CAT	DA/ MDA-VIS	HAT/ HATH/ HAA	CEIL-VIS
PAR	10	2.5°/42/1000	ABCDE	195/16	100	(100-1/4)				
	28	2.5°/48/1068	ABCDE	187/16	100	(100-1/4)				
ASR	10		ABC	560/40	463	(500-3/4)	DE	560/50	463	(500-1)
	28		AB	600/50	513	(600-1)	CDE	600/60	513	(600-1 1/4)
CIR	10		AB	560-1/4	463	(500-1 1/4)	CDE	560-1/2	463	(500-1 1/2)
	28		AB	600-1/4	503	(600-1 1/4)	CDE	600-1/2	503	(600-1 1/2)

Visibility in Statute Miles ↙

↘ All minima in parentheses not applicable to Civil Pilots. Military Pilots refer to appropriate regulations.

Radars Minima:

1. Minima shown are the lowest permitted by established criteria. Pilots should consult applicable directives for their category of aircraft.
2. The circling MDA and weather minima to be used are those for the runway to which the final approach is flown- not the landing runway. In the above RADAR MINIMA example, a category C aircraft flying a radar approach to runway 10, circling to land on runway 28, must use an MDA of 560 feet with weather minima of 500-1 1/2.

NOTE: Military RADAR MINIMA may be shown with communications symbology that indicates emergency frequency monitoring capability by the radar facility as follows:

(E) VHF and UHF emergency frequencies monitored

(M) VHF emergency frequency (121.5) monitored

(U) UHF emergency frequency (243.0) monitored

Additionally, unmonitored frequencies which are available on request from the controlling agency may be annotated with an "x".

⚠ Alternate Minimums not standard. Civil users refer to tabulation. USA/USN/USAF pilots refer to appropriate regulations.

⚠ NA Alternate minimums are Not Authorized due to unmonitored facility or absence of weather reporting service.

⚠ Takeoff Minimums not standard and/or Departure Procedures are published. Refer to tabulation.

TERMS/LANDING MINIMA DATA

GENERAL INFO

GENERAL INFORMATION

This publication is issued every 56 days and includes Standard Instrument Approach Procedures (SIAPs), Standard Instrument Departures (SIDs), Standard Terminal Arrivals (STARs), IFR Takeoff Minimums and (Obstacle) Departure Procedures (ODPs), IFR Alternate Minimums, and Radar Instrument Approach Minimums for use by civil and military aviation. The organization responsible for SIAPs, Radar Minimums, SIDs, STARs and graphic ODPs is identified in parentheses in the top margin of the procedure; e.g., (FAA), (FAA-O), (USA), (USAF), (USN). SIAPs with the (FAA) and (FAA-O) designation are regulated under 14 CFR, Part 97. SIAPs with the (FAA-O) designation have been developed under Other Transaction Agreement (OTA) by private providers and have been certified by the FAA. See 14 CFR, Part 91.175 (a) and the AIM for further details. 14 CFR, Part 91.175 (g) and the Special Notices section of the Chart Supplement contains information on civil operations at military airports.

STANDARD TERMINAL ARRIVALS AND DEPARTURE PROCEDURES

The use of the associated codified STAR/DP and transition identifiers are requested of users when filing flight plans via teletype and are required for users filing flight plans via computer interface. It must be noted that when filing a STAR/DP with a transition, the first three coded characters of the STAR and the last three coded characters of the DP are replaced by the transition code. Examples: ACTON SIX ARRIVAL, file (AQN.AQN6); ACTON SIX ARRIVAL, EDNAS TRANSITION, file (EDNAS.AQN6). FREEHOLD THREE DEPARTURE, file (FREQ3.RBV), FREEHOLD THREE DEPARTURE, ELWOOD CITY TRANSITION, file (FREQ3.EWC).

RNAV DP and STAR. Effective March 15, 2007, these procedures, formerly identified as Type-A and Type-B, will be designated as RNAV 1 in accordance with amended Advisory Circular (AC) and ICAO terminology.

Refer to AC 90-100A U.S. TERMINAL AND EN ROUTE AREA NAVIGATION (RNAV) OPERATIONS and the Aeronautical Information Manual for additional guidance regarding these procedures.

Standard RNAV 1 Procedure Chart Notes

NOTE: RNAV 1

NOTE: DME/DME/IRU or GPS required

Some procedures may require use of GPS and will be identified by a "GPS required" note.

RNAV 1 Procedure Characteristics and Operations

1. Require use of an RNAV system with DME/DME/IRU, and/or GPS inputs.
2. Require use of a CDI, flight director, and/or autopilot, in lateral navigation mode, for flight guidance while operating on RNAV paths (track, course, or direct leg). Other methods providing an equivalent level of performance may be acceptable.
3. RNAV paths may start as low as 500 feet above airport elevation.

GENERAL INFO

GENERAL INFO

PILOT CONTROLLED AIRPORT LIGHTING SYSTEMS

Available pilot controlled lighting (PCL) systems are indicated as follows:

1. Approach lighting systems that bear a system identification are symbolized using negative symbology, e.g., \ominus , \ominus , \ominus .
2. Approach lighting systems that do not bear a system identification are indicated with a negative "L" beside the name. A star (*) indicates non-standard PCL, consult Chart Supplement, e.g., \ominus^* .

To activate lights, use frequency indicated in the communication section of the chart with a \ominus or the appropriate lighting system identification e.g., UNICOM 122.8 \ominus , \ominus , \ominus .

KEY MIKE	FUNCTION
7 times within 5 seconds	Highest intensity available
5 times within 5 seconds	Medium or lower intensity (Lower REIL or REIL-off)
3 times within 5 seconds	Lowest intensity available (Lower REIL or REIL-off)

CHART CURRENCY INFORMATION

Date of Latest Revision 09365

The Date of Latest Revision identifies the Julian date the chart was added or last revised for any reason. The first two digits indicate the year, the last three digits indicate the day of the year (001 to 365/6) in which the latest revision of any kind has been made to the chart.



The FAA Procedure Amendment Number represents the most current amendment of a given procedure. The Procedure Amendment Effective Date represents the AIRAC cycle date on which the procedure amendment was incorporated into the chart. Updates to the amendment number & effective date represent procedural/criteria revisions to the charted procedure, e.g., course, fix, altitude, minima, etc.

NOTE: Inclusion of the "Procedure Amendment Effective Date" will be phased in as procedures are amended. As this occurs, the Julian date will be relocated to the upper right corner of the chart.

MISCELLANEOUS

- ★ Indicates a non-continuously operating facility, see Chart Supplement.
- For Civil (FAA) instrument procedures, "RADAR REQUIRED" in the planview of the chart indicates that ATC radar must be available to assist the pilot when transitioning from the en route environment. "Radar required" in the pilot briefing portion of the chart indicates that ATC radar is required on portions of the procedure outside the final approach segment, including the missed approach. Some military procedures also have equipment requirements such as "Radar Required", but do not conform to the same charting application standards used by the FAA. Distances in nautical miles (except visibility in statute miles and Runway Visual Range in hundreds of feet). Runway Dimensions in feet. Elevations in feet. Mean Sea Level (MSL). Ceilings in feet above airport elevation. Radials/bearings/headings/courses are magnetic. Horizontal Datum: Unless otherwise noted on the chart, all coordinates are referenced to North American Datum 1983 (NAD 83), which for charting purposes is considered equivalent to World Geodetic System 1984 (WGS 84).

Terrain is scaled within the neat lines (planview boundaries) and does not accurately underlie not-to-scale distance depictions or symbols.

GENERAL INFO

GENERAL INFO

ABBREVIATIONS

AAUP.....	Attention All Users Page	HAA.....	Height above Airport
ADF.....	Automatic Direction Finder	HAL.....	Height above Landing
ADIZ.....	Air Defense Identification Zone	HAT.....	Height above Touchdown
AFIS.....	Automatic Flight Information Service	HATH.....	Height Above Threshold
ALS.....	Approach Light System	HGS.....	Head-up Guidance System
ALSF.....	Approach Light System with Sequenced Flashing Lights	HIRL.....	High Intensity Runway Lights
AP.....	Autopilot System	HUD.....	Head-up Display
APCH.....	Approach	IAF.....	Initial Approach Fix
APP CON.....	Approach Control	ICAO.....	International Civil Aviation Organization
ARR.....	Arrival	IF.....	Intermediate Fix
ASOS.....	Automated Surface Observing System	IM.....	Inner Marker
ASR/PAR.....	Published Radar Minimums at this Airport	INOP.....	Inoperative
ASSC.....	Airport Surface Surveillance Systems	INT.....	Intersection
ATIS.....	Automatic Terminal Information Service	K.....	Knots
AUNICOM.....	Automated UNICOM	KLAS.....	Knots Indicated Airspeed
AWOS.....	Automated Weather Observing System	LAAS.....	Local Area Augmentation System
AZ.....	Azimuth	LDA.....	Localizer Type Directional Aid
BC.....	Back Course	Ldg.....	Landing
BND.....	Bound	LRL.....	Low Intensity Runway Lights
C.....	Circling	LNAV.....	Lateral Navigation
CAT.....	Category	LOC.....	Localizer
CCW.....	Counter Clockwise	LP.....	Localizer Performance
CDI.....	Course Deviation Indicator	LPV.....	Localizer Performance with Vertical Guidance
Chan.....	Channel	LR.....	Lead Radial. Provides at least 2 NM (Copter 1 NM) of lead to assist in turning onto the intermediate/final course.
CIFP.....	Coded Instrument Flight Procedures	MAA.....	Maximum Authorized Altitude
CIR.....	Circling	MALS.....	Medium Intensity Approach Light System
CLNC DEL.....	Clearance Delivery	MALSR.....	Medium Intensity Approach Light System with RAIL
CNF.....	Computer Navigation Fix	MAP.....	Missed Approach Point
CTAF.....	Common Traffic Advisory Frequency	MDA.....	Minimum Descent Altitude
CW.....	Clockwise	MIRL.....	Medium Intensity Runway Lights
DA.....	Decision Altitude	MM.....	Middle Marker
DER.....	Departure End of Runway	MRA.....	Minimum Reception Altitude
DH.....	Decision Height	N/A.....	Not Applicable
DME.....	Distance Measuring Equipment	NA.....	Not Authorized
DTHR.....	Displaced Threshold	NDB.....	Non-directional Radio Beacon
DVA.....	Diverse Vector Area	NFD.....	National Flight Database
ELEV.....	Elevation	NM.....	Nautical Mile
EMAS.....	Engineered Material Arresting System	NoPT.....	No Procedure Turn Required (Procedure Turn shall not be executed without ATC clearance)
FAF.....	Final Approach Fix	ODALS.....	Omnidirectional Approach Light System
FD.....	Flight Director System	ODP.....	Obstacle Departure Procedure
FM.....	Fan Marker	OM.....	Outer Marker
FMS.....	Flight Management System	PRM.....	Precision Runway Monitor
GBAS.....	Ground Based Augmentation System		
GCO.....	Ground Communications Outlet		
GLS.....	Ground Based Augmentation System Landing System		
GP.....	Glidepath		
GPI.....	Ground Point of Interception		
GPS.....	Global Positioning System		
GS.....	Glide Slope		

GENERAL INFO

GENERAL INFO

ABBREVIATIONS

R.....	Radial
RA.....	Radio Altimeter setting height
RAIL.....	Runway Alignment Indicator Lights
RCLS.....	Runway Centerline Light System
REIL.....	Runway End Identifier Lights
RF.....	Radius-to-Fix
RLLS.....	Runway Lead-in Light System
RNAV.....	Area Navigation
RNP.....	Required Navigation Performance
RPI.....	Runway Point of Intercept(ion)
RRL.....	Runway Remaining Lights
Rwy.....	Runway
RVR.....	Runway Visual Range
S.....	Straight-in
SALS.....	Short Approach Light System
SSALR.....	Simplified Short Approach Light System with RAIL
SDF.....	Simplified Directional Facility
SM.....	Statute Mile
SOIA.....	Simultaneous Offset Instrument Approach
TAA.....	Terminal Arrival Area
TAC.....	TACAN
TCH.....	Threshold Crossing Height (height in feet Above Ground level)
TDZ.....	Touchdown Zone
TDZE.....	Touchdown Zone Elevation
TDZ/CL.....	Touchdown Zone and Runway Centerline Lighting
TDZL.....	Touchdown Zone Lights
THR.....	Threshold
THRE.....	Threshold Elevation
TODA.....	Takeoff Distance Available
TORA.....	Takeoff Run Available
TR.....	Track
VASI.....	Visual Approach Slope Indicator
VCOA.....	Visual Climb Over Airport
VDP.....	Visual Descent Point
VGSI.....	Visual Glide Slope Indicator
VNAV.....	Vertical Navigation
WAAS.....	Wide Area Augmentation System
WP/WPT.....	Waypoint (RNAV)

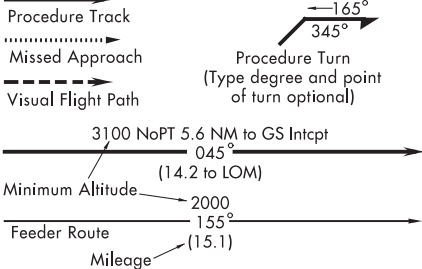
GENERAL INFO

LEGEND

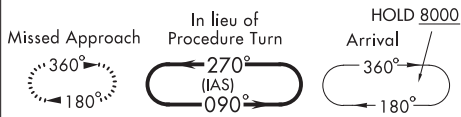
INSTRUMENT APPROACH PROCEDURES (CHARTS)

PLANVIEW SYMBOLS

TERMINAL ROUTES



HOLDING PATTERNS

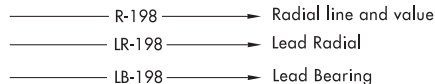


Holding pattern with max. restricted airspeed: (175K) applies to all altitudes. (210K) applies to altitudes above 6000' and including 14000'. Arrival Holding Pattern altitude restrictions will be indicated when they deviate from the adjacent leg. Limits will only be specified when they deviate from the standard. DME fixes may be shown.

FIXES/ATC REPORTING REQUIREMENTS



Computer Navigation Fix (CNF)
x (NAME) ("x" omitted when it conflicts with runway pattern)



ALTITUDES

<u>5500</u> Mandatory Altitude	3000 Recommended Altitude
<u>2500</u> Minimum Altitude	<u>5000</u> Mandatory Block Altitude
<u>4300</u> Maximum Altitude	<u>3000</u> Altitude

INDICATED AIRSPEED

<u>175K</u>	120K	250K	180K
Mandatory Airspeed	Minimum Airspeed	Maximum Airspeed	Recommended Airspeed

RADIO AIDS TO NAVIGATION

110.1 Underline indicates No Voice transmitted on this frequency

Compulsory:



Non-Compulsory:



LOM/LMM (Compass locator at Outer Marker/Middle Marker)

Marker Beacon

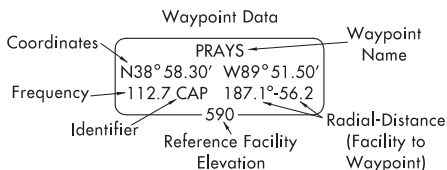
Marker beacons that are not specifically part of the procedure but underlie the final approach course are shown in screened color.

Localizer (LOC/LDA) Course
Right side shading- Front course; Left side shading- Back Course

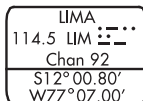
SDF Course

LOC/DME

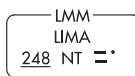
LOC/LDA/SDF Transmitter
(shown when installation is offset from its normal position off the end of the runway.)



Primary Navaid with Coordinate Values



Secondary Navaid



LEGEND

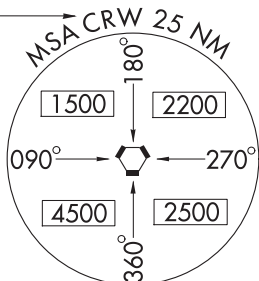
LEGEND

INSTRUMENT APPROACH PROCEDURES (CHARTS)

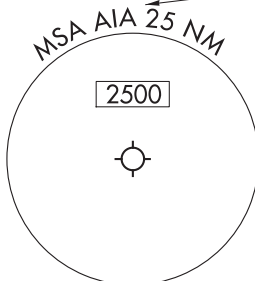
PLANVIEW SYMBOLS

MINIMUM SAFE ALTITUDE (MSA)

Facility Identifier

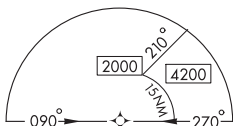


Airport Identifier

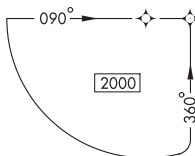


(arrows on distance circle identify sectors)

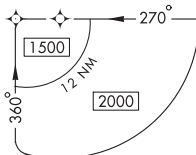
TERMINAL ARRIVAL AREA (TAA)



Straight-in Area

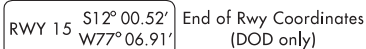


Right Base Area



Left Base Area

MISCELLANEOUS



AIRPORTS



SPECIAL USE AIRSPACE



R-Restricted

P-Prohibited

W-Warning

A-Alert

OBSTACLES



LEGEND

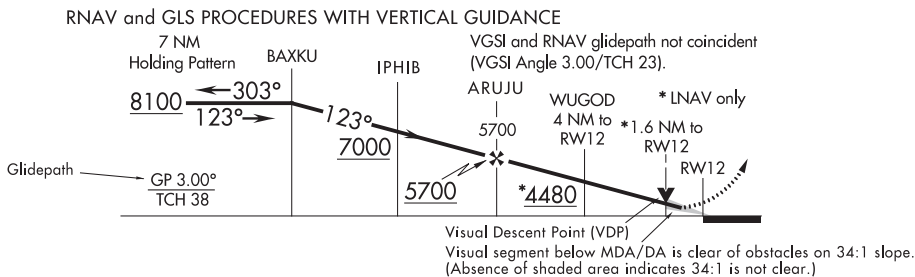
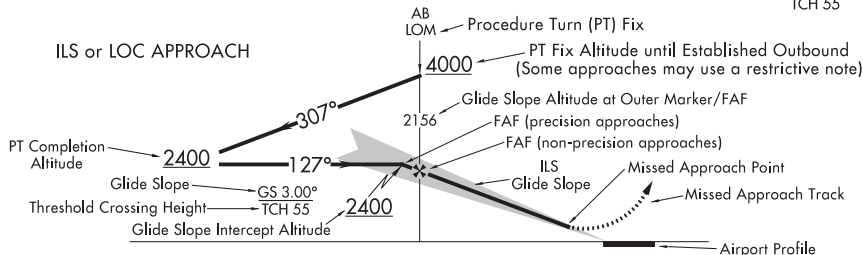
PROFILE VIEW

Three different methods are used to depict either electronic or vertical guidance: "GS", "GP", or "VDA".

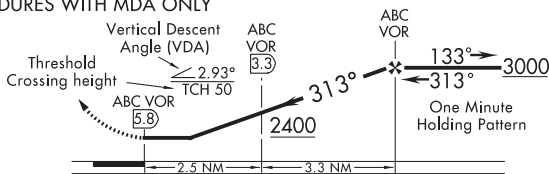
1. "GS" indicates that an Instrument Landing System (ILS) electronic glide slope (a ground antenna) provides vertical guidance. The profile section of ILS procedures depict a GS angle and TCH in the following format: $GS\ 3.00^\circ$.
TCH 55

2. "GP" on GLS and RNAV procedures indicates that either electronic vertical guidance (via Wide Area Augmentation System - WAAS or Ground Based Augmentation System - GBAS) or barometric vertical guidance is provided. GLS and RNAV procedures with a published decision altitude (DA/H) depict a GP angle and TCH in the following format: $GP\ 3.00^\circ$.
TCH 50

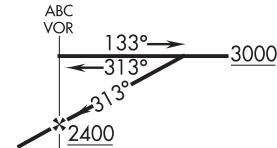
3. An advisory vertical descent angle (VDA) is provided on non-vertically guided conventional procedures and RNAV procedures with only a minimum descent altitude (MDA) to assist in preventing controlled flight into terrain. On Civil (FAA) procedures, this information is placed above or below the procedure track following the fix it is based on. Absence of a VDA or a note that the VDA is not authorized indicates that the prescribed obstacle clearance surface is not clear and the VDA must not be used below MDA. VDA is depicted in the following format: $\leq 3.00^\circ$.
TCH 55



NON-VERTICALLY GUIDED CONVENTIONAL PROCEDURES AND RNAV PROCEDURES WITH MDA ONLY



DESCENT FROM HOLDING PATTERN



ALTITUDES	
<u>5500</u> Mandatory Altitude	<u>3000</u> Recommended Altitude
<u>2500</u> Minimum Altitude	<u>5000</u> Mandatory Block Altitude
<u>4300</u> Maximum Altitude	<u>3000</u> Altitude

PROFILE SYMBOLS

- Glide Slope/Glidepath Intercept Altitude and final approach fix for vertically guided approach procedures.
- Visual Descent Point (VDP)
- Visual Flight Path

Note: Facilities and waypoints are depicted as a solid vertical line while fixes and intersections are depicted as a dashed vertical line.

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LEGEND

LEGEND STANDARD TERMINAL ARRIVAL (STAR) CHARTS DEPARTURE PROCEDURE (DP) CHARTS

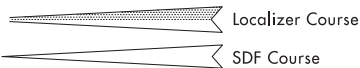
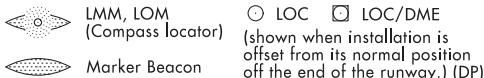
Applies to both STAR and DP Charts unless otherwise noted.

RADIO AIDS TO NAVIGATION

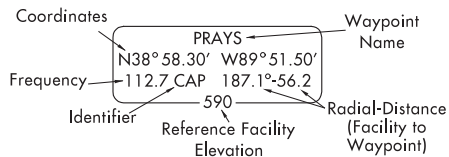
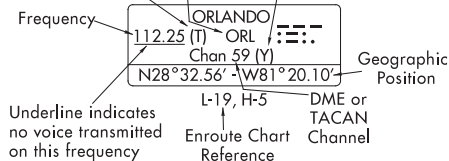
Compulsory:



Non-Compulsory:



(T) indicates frequency protection range (STAR) Identifier (Y) TACAN must be placed in "Y" mode to receive distance information



FIXES/ATC REPORTING REQUIREMENTS

Reporting Points
N00°00.00' W00°00.00'

(75) → DME Mileage (when not obvious)

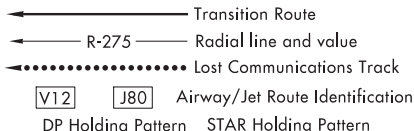
▲ Fix-Compulsory and
△ Non-Compulsory Position Report



X Computer Navigation Fix (CNF)
N00°00.00' W00°00.00'

ROUTES

4500 MEA-Minimum Enroute Altitude
*3500 MOCA-Minimum Obstruction Clearance Altitude
270° → Departure Route - Arrival Route
(65) Mileage between Radio Aids, Reporting Points, and Route Breaks



Holding pattern with max. restricted airspeed (175K) applies to all altitudes (210K) applies to altitudes above 6000' to and including 14000'

SPECIAL USE AIRSPACE



ALTITUDES

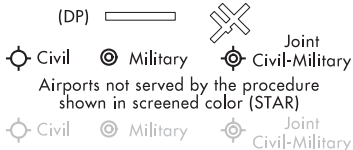
5500 2300 4800
Mandatory Altitude (Cross at) Minimum Altitude (Cross at or above) Maximum Altitude (Cross at or below)

15000 12000
Block Altitude Altitude change at other than Radio Aids (STAR)

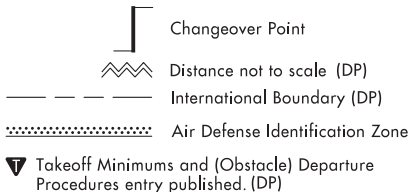
INDICATED AIRSPEED

175K 120K 250K
Mandatory Airspeed Minimum Airspeed Maximum Airspeed

AIRPORTS



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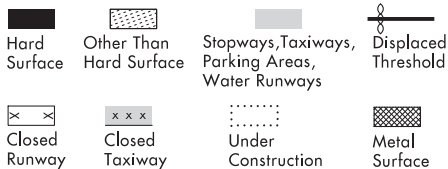
LEGEND

LEGEND

INSTRUMENT APPROACH PROCEDURES (CHARTS)

AIRPORT DIAGRAM/AIRPORT SKETCH

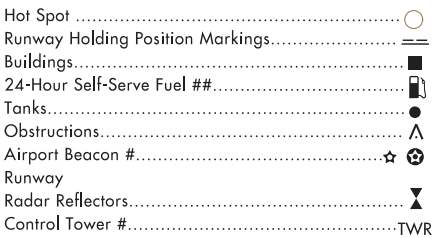
Runways



ARRESTING GEAR: Specific arresting gear systems; e.g., BAK12, MA-1A etc., shown on airport diagrams, not applicable to Civil Pilots. Military Pilots refer to appropriate DOD publications.



REFERENCE FEATURES



When Control Tower and Rotating Beacon are co-located, Beacon symbol will be used and further identified as TWR.

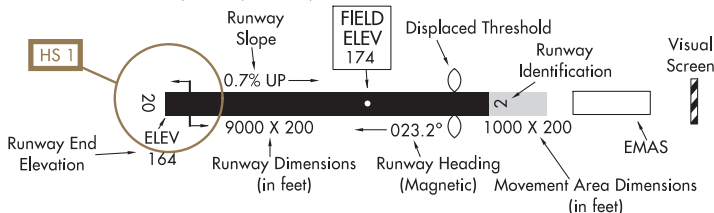
A fuel symbol is shown to indicate 24-hour self-serve fuel available, see appropriate Chart Supplement for information.

Runway length depicted is the physical length of the runway (end-to-end, including displaced thresholds if any) but excluding areas designated as stopways.

A **D** symbol is shown to indicate runway declared distance information available, see appropriate Chart Supplement for distance information.

Runway Weight Bearing Capacity/ or PCN Pavement Classification Number is shown as a codified expression.

Refer to the appropriate Supplement/Directory for applicable codes e.g., RWY 14-32 PCN 80 F/D/X/U S-75, D-185, 2S-175, 2D-325



SCOPE

Airport diagrams are specifically designed to assist in the movement of ground traffic at locations with complex runway/taxiway configurations. Airport diagrams are not intended to be used for approach and landing or departure operations. For revisions to Airport Diagrams: Consult FAA Order 7910.4.

Helicopter Alighting Areas (H) (+) (H) (A) (+)
 Negative Symbols used to identify Copter Procedures landing point..... (H) (+) (H) (A) (+)

Runway Threshold elevation.....THRE 123
 Runway TDZ elevation.....TDZE 123
 ← 0.3% DOWN
 Runway Slope.....0.8% UP →
 (shown when runway slope is greater than or equal to 0.3%)

NOTE:
 Runway Slope measured to midpoint on runways 8000 feet or longer.

U.S. Navy Optical Landing System (OLS) "OLS" location is shown because of its height of approximately 7 feet and proximity to edge of runway may create an obstruction for some types of aircraft.

Approach light symbols are shown in the Flight Information Handbook.

Airport diagram scales are variable.

True/magnetic North orientation may vary from diagram to diagram

Coordinate values are shown in 1 or ½ minute increments. They are further broken down into 6 second ticks, within each 1 minute increments.

Positional accuracy within ±600 feet unless otherwise noted on the chart.

NOTE:
 All new and revised airport diagrams are shown referenced to the World Geodetic System (WGS) (noted on appropriate diagram), and may not be compatible with local coordinates published in FLIP. (Foreign Only)

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LEGEND

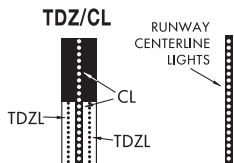
15344
LEGEND

INSTRUMENT APPROACH PROCEDURES (CHARTS)
APPROACH LIGHTING SYSTEM - UNITED STATES

Approach lighting and visual glide slope systems are indicated on the airport sketch by an identifier, e.g., (A2), (V), etc.

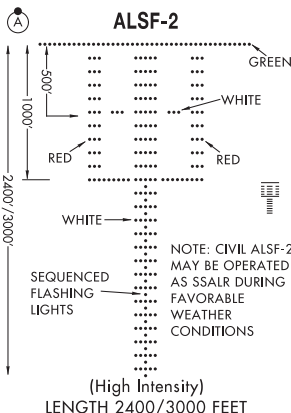
A dot "•" portrayed with approach lighting letter identifier indicates sequenced flashing lights (F) installed with the approach lighting system e.g., (A1). Negative symbology, e.g., (A1), (V) indicates Pilot Controlled Lighting (PCL).

RUNWAY TOUCHDOWN ZONE AND CENTERLINE LIGHTING SYSTEMS

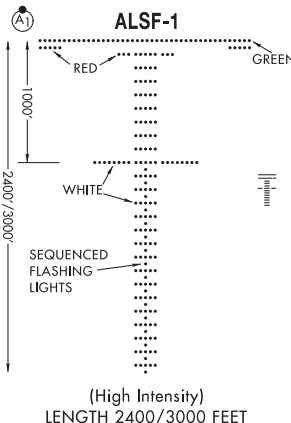


AVAILABILITY of TDZ/CL will be shown by NOTE in SKETCH e.g. "TDZ/CL Rwy 15"

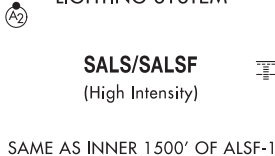
APPROACH LIGHTING SYSTEM



APPROACH LIGHTING SYSTEM

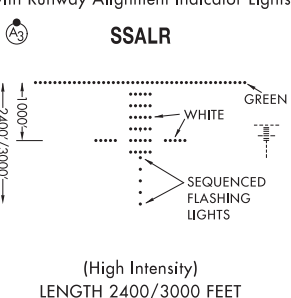


SHORT APPROACH LIGHTING SYSTEM

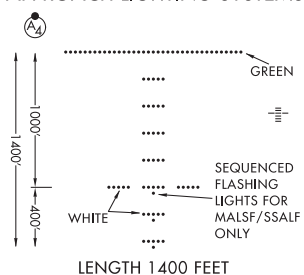


SAME AS INNER 1500' OF ALSF-1

SIMPLIFIED SHORT APPROACH LIGHTING SYSTEM with Runway Alignment Indicator Lights



MEDIUM INTENSITY (MALS and MALSF) OR SIMPLIFIED SHORT (SSALS and SSALF) APPROACH LIGHTING SYSTEMS

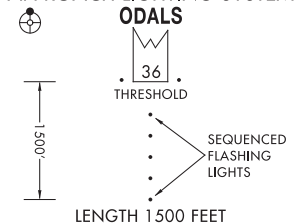


MEDIUM INTENSITY APPROACH LIGHTING SYSTEM with Runway Alignment Indicator Lights



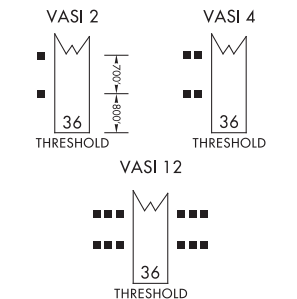
SAME LIGHT CONFIGURATION AS SSALR.

OMNIDIRECTIONAL APPROACH LIGHTING SYSTEM



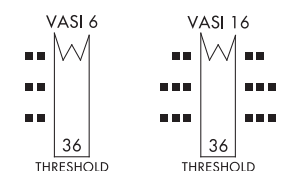
VISUAL APPROACH SLOPE INDICATOR

VASI
VISUAL APPROACH SLOPE INDICATOR WITH STANDARD THRESHOLD CLEARANCE PROVIDED.
ALL LIGHTS WHITE — TOO HIGH
FAR LIGHTS RED — ON GLIDE SLOPE
NEAR LIGHTS WHITE — TOO LOW
ALL LIGHTS RED — TOO LOW



VISUAL APPROACH SLOPE INDICATOR

VASI
3-BAR, 6 OR 16 BOX, VISUAL APPROACH SLOPE INDICATOR THAT PROVIDES 2 GLIDE ANGLES AND 2 THRESHOLD CROSSING HEIGHTS.



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LEGEND

04330
LEGEND

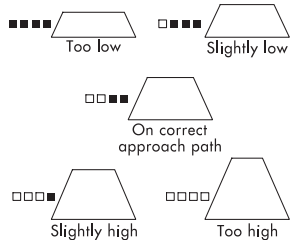
INSTRUMENT APPROACH PROCEDURES (CHARTS)
APPROACH LIGHTING SYSTEM - UNITED STATES

Approach lighting and visual glide slope systems are indicated on the airport sketch by an identifier, (A₂), (V) etc.

A dot "•" portrayed with approach lighting letter identifier indicates sequenced flashing lights (F) installed with the approach lighting system e.g., (A₁F). Negative symbology, e.g., (A₁), (V) indicates Pilot Controlled Lighting (PCL).

(P) **PRECISION APPROACH PATH INDICATOR**

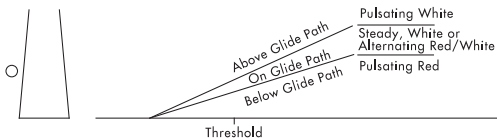
PAPI



Legend: □ White ■ Red

(V₂) **PULSATING VISUAL APPROACH SLOPE INDICATOR**

PVASI



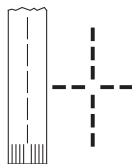
CAUTION: When viewing the pulsating visual approach slope indicators in the pulsating white or pulsating red sectors, it is possible to mistake this lighting aid for another aircraft or a ground vehicle. Pilots should exercise caution when using this type of system.

(V₁) **"T"-VISUAL APPROACH SLOPE INDICATOR**

"T"-VASI

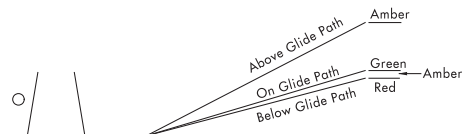


"T" ON BOTH SIDES OF RWY
ALL LIGHTS VARIABLE WHITE.
CORRECT APPROACH SLOPE-
ONLY CROSS BAR VISIBLE.
UPRIGHT "T"- FLY UP.
INVERTED "T"- FLY DOWN.
RED "T"- GROSS
UNDERSHOOT.



(V₄) **TRI-COLOR VISUAL APPROACH SLOPE INDICATOR**

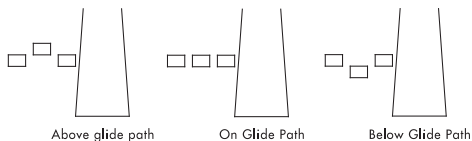
TRCV



CAUTION: When the aircraft descends from green to red, the pilot may see a dark amber color during the transition from green to red.

(V₅) **ALIGNMENT OF ELEMENTS SYSTEMS**

APAP



Painted panels which may be lighted at night.
To use the system the pilot positions the aircraft
so the elements are in alignment.

LEGEND

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FREQ PAIRING

FREQUENCY PAIRING TABLE

TACAN CHANNEL	VHF FREQUENCY	TACAN CHANNEL	VHF FREQUENCY	TACAN CHANNEL	VHF FREQUENCY
17Y	108.05	40X	110.30	88Y	114.15
18X	108.10	40Y	110.35	89Y	114.25
18Y	108.15	41Y	110.45	90Y	114.35
19Y	108.25	42X	110.50	91Y	114.45
20X	108.30	42Y	110.55	92Y	114.55
20Y	108.35	43Y	110.65	93Y	114.65
21Y	108.45	44X	110.70	94Y	114.75
22X	108.50	44Y	110.75	95Y	114.85
22Y	108.55	45Y	110.85	96Y	114.95
23Y	108.65	46X	110.90	97Y	115.05
24X	108.70	46Y	110.95	98Y	115.15
24Y	108.75	47Y	111.05	99Y	115.25
25Y	108.85	48X	111.10	100Y	115.35
26X	108.90	48Y	111.15	101Y	115.45
26Y	108.95	49Y	111.25	102Y	115.55
27Y	109.05	50X	111.30	103Y	115.65
28X	109.10	50Y	111.35	104Y	115.75
28Y	109.15	51Y	111.45	105Y	115.85
29Y	109.25	52X	111.50	106Y	115.95
30X	109.30	52Y	111.55	107Y	116.05
30Y	109.35	53Y	111.65	108Y	116.15
31Y	109.45	54X	111.70	109Y	116.25
32X	109.50	54Y	111.75	110Y	116.35
32Y	109.55	55Y	111.85	111Y	116.45
33Y	109.65	56X	111.90	112Y	116.55
34X	109.70	56Y	111.95	113Y	116.65
34Y	109.75	80Y	113.35	114Y	116.75
35Y	109.85	81Y	113.45	115Y	116.85
36X	109.90	82Y	113.55	116Y	116.95
36Y	109.95	83Y	113.65	117Y	117.05
37Y	110.05	84Y	113.75	118Y	117.15
38X	110.10	85Y	113.85	119Y	117.25
38Y	110.15	86Y	113.95		
39Y	110.25	87Y	114.05		

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FREQ PAIRING

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INDEX OF TERMINAL CHARTS AND MINIMUMS

NAME	PROC	SECT PG	NAME	PROC	SECT PG
ALFRED C BUBBA THOMAS			AUSTIN, TX		
---SEE SINTON, TX			AUSTIN EXECUTIVE(EDC)		
ALICE, TX			TAKEOFF MINIMUMS .....L		
ALICE INTL(ALI)			ALTERNATE MINIMUMS .....M		
TAKEOFF MINIMUMS .....L			STARS ....BITER SIX .....Z2		
ALTERNATE MINIMUMS .....M			MSTLO ONE (RNAV) .....Z15		
IAPS	RNAV (GPS) RWY 13	.....1	SZAGI ONE (RNAV) .....Z19		
	RNAV (GPS) RWY 31	.....2	WAILN ONE (RNAV) .....Z20		
	LOC/DME RWY 31	.....3	IAPS	RNAV (GPS) RWY 13	.....8
	VOR RWY 31	.....4		RNAV (GPS) RWY 31	.....9
	VOR-A	.....5	DPS	BNDIA ONE (RNAV)	.....10
ALPINE, TX			DILLO ONE (RNAV) .....11		
ALPINE-CASPARIS MUNI(E38)			ELOEL ONE (RNAV) .....12		
TAKEOFF MINIMUMS .....L			ILEXY ONE (RNAV) .....13		
ALTERNATE MINIMUMS .....M			MUCKY ONE (RNAV) .....14		
IAPS	RNAV (GPS) RWY 19	.....6	SAYBR ONE (RNAV) .....15		
	NDB RWY 19	.....7	AUSTIN-BERGSTROM INTL(AUS)		
ARANSAS COUNTY			TAKEOFF MINIMUMS .....L		
---SEE ROCKPORT, TX			ALTERNATE MINIMUMS .....M		
			HOT SPOT .....P		
			STARS ....BITER SIX .....Z2		
			BLEVEE THREE .....Z3		
			KALLA THREE .....Z9		
			LAIKS ONE (RNAV) .....Z10		
			SEWZY THREE (RNAV) .....Z17		
			WLEEE THREE (RNAV) .....Z24		
IAPS	ILS OR LOC RWY 17L	.....16	IAPS		
	ILS OR LOC RWY 17R	.....17	ILS OR LOC RWY 17L		
	ILS OR LOC RWY 35L	.....18	ILS OR LOC RWY 17R		
	ILS OR LOC RWY 35R	.....19	ILS OR LOC RWY 35L		
	ILS RWY 17L (SA CAT I)	.....20	ILS OR LOC RWY 35R		
	ILS RWY 17L (CAT II - III)	.....21	RNAV (RNP) Z RWY 17L		
	RNAV (RNP) Z RWY 17L	.....22	RNAV (RNP) Z RWY 17R		
	RNAV (RNP) Z RWY 17R	.....23	RNAV (RNP) Z RWY 35L		
	RNAV (RNP) Z RWY 35L	.....24	RNAV (RNP) Z RWY 35R		
	RNAV (RNP) Z RWY 35R	.....25	RNAV (GPS) Y RWY 17L		
	RNAV (GPS) Y RWY 17L	.....26	RNAV (GPS) Y RWY 17R		
	RNAV (GPS) Y RWY 17R	.....27	RNAV (GPS) Y RWY 35L		
	RNAV (GPS) Y RWY 35L	.....28	RNAV (GPS) Y RWY 35R		
	RNAV (GPS) Y RWY 35R	.....29	AIRPORT DIAGRAM .....30		
ARANSAS COUNTY			DPS		
---SEE ROCKPORT, TX			AUSTIN FOUR .....31		
			BNDIA ONE (RNAV) .....33		
			CENTEX FIVE .....34		
			DILLO ONE (RNAV) .....36		
			ELOEL ONE (RNAV)37		
			ILEXY ONE (RNAV)38		
			MUCKY ONE (RNAV)39		
			PALMS ONE40		
			SAYBR ONE (RNAV)41		

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------	------	---------	------	------	---------

AUSTIN, TX

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TAKEOFF MINIMUMS	L	
ALTERNATE MINIMUMS	M	
STARS		
BITER SIX	Z2	
BLEWE THREE	Z3	
MSTLO ONE (RNAV)	Z15	
SZAGI ONE (RNAV)	Z19	
WAILN ONE (RNAV)	Z20	
IAPS		
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RNAV (GPS) RWY 17	45	
RNAV (GPS) RWY 26	46	
RNAV (GPS) RWY 31	47	
RNAV (GPS) RWY 35	48	
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ILEXY ONE (RNAV)	54	
MUCKY ONE (RNAV)	56	
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RNAV (GPS) RWY 35	59	

BEEVILLE, TX

BEEVILLE MUNI(BEA)		
TAKEOFF MINIMUMS	L	
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RNAV (GPS) RWY 30	61	
VOR/DME RWY 12	62	

BERCLAIR, TX

---SEE GOLIAD NOLF

BIG LAKE, TX

REAGAN COUNTY(E41)		
TAKEOFF MINIMUMS	L	
IAPS		
RNAV (GPS) RWY 16	63	

BIGGS AAF(KBIF)

FORT BLISS, TX		
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RADAR MINIMUMS	N	
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RNAV (GPS) RWY 21	64	
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BOERNE STAGE FIELD

---SEE SAN ANTONIO, TX

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CURTIS FIELD(BBD)		
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ALTERNATE MINIMUMS	M	
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RNAV (GPS) RWY 35	68	
NDB RWY 17	69	

BROOKS COUNTY

---SEE FALFURRIAS, TX

BROWNSVILLE, TX

BROWNSVILLE/SOUTH PADRE ISLAND INTL (BRO)		
TAKEOFF MINIMUMS	L	
ALTERNATE MINIMUMS	M	
IAPS		
ILS OR LOC RWY 13	70	
RNAV (GPS) RWY 13	71	
RNAV (GPS) RWY 18	72	
LOC BC RWY 31	73	
VOR OR TACAN A	74	
AIRPORT DIAGRAM	75	

BROWNWOOD, TX

BROWNWOOD RGNL(BWD)		
TAKEOFF MINIMUMS	L	
ALTERNATE MINIMUMS	M	
IAPS		
RNAV (GPS) RWY 17	76	
RNAV (GPS) RWY 35	77	
LOC RWY 17	78	
VOR/DME RWY 35	79	

BRUCE FIELD

---SEE BALLINGER, TX

BURNET, TX

BURNET MUNI KATE CRADDOCK FIELD(BMQ)		
TAKEOFF MINIMUMS	L	
ALTERNATE MINIMUMS	M	
IAPS		
RNAV (GPS) RWY 01	80	
RNAV (GPS) RWY 19	81	

CARRIZO SPRINGS, TX

DIMITT COUNTY(CZT)		
TAKEOFF MINIMUMS	L	
IAPS		
RNAV (GPS) RWY 13	82	
RNAV (GPS) RWY 31	83	
NDB RWY 31	84	

CASTROVILLE, TX

CASTROVILLE MUNI(CVB)		
TAKEOFF MINIMUMS	L	
ALTERNATE MINIMUMS	M	
IAPS		
RNAV (GPS) RWY 16	85	
RNAV (GPS) RWY 34	86	
DPS		
SETZR ONE (RNAV)	87	

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NAME	PROC	SECT PG	NAME	PROC	SECT PG
COLEMAN, TX			COTULLA, TX		
COLEMAN MUNI(COM)			COTULLA-LA SALLE COUNTY(COT)		
TAKEOFF MINIMUMS		L	TAKEOFF MINIMUMS		L
ALTERNATE MINIMUMS		M	ALTERNATE MINIMUMS		M
IAPS	RNAV (GPS) RWY 15	88	IAPS	RNAV (GPS) RWY 13	124
	RNAV (GPS) RWY 33	89		RNAV (GPS) RWY 31	125
				VOR-A	126
COMANCHE, TX			CULBERSON COUNTY		
COMANCHE COUNTY-CITY(MKN)			---SEE VAN HORN, TX		
TAKEOFF MINIMUMS		L			
ALTERNATE MINIMUMS		M			
IAPS	RNAV (GPS) RWY 17	90			
	RNAV (GPS) RWY 35	91			
CORPUS CHRISTI, TX			CURTIS FIELD		
CORPUS CHRISTI INTL(CRP)			---SEE BRADY, TX		
TAKEOFF MINIMUMS		L			
ALTERNATE MINIMUMS		M			
IAPS	ILS OR LOC RWY 13	92			
	ILS OR LOC RWY 36	93			
	RNAV (RNP) Z RWY 13	94			
	RNAV (RNP) Z RWY 31	95			
	RNAV (RNP) Z RWY 36	96			
	RNAV (GPS) RWY 18	97			
	RNAV (GPS) X RWY 31	98			
	RNAV (GPS) Y RWY 13	99			
	RNAV (GPS) Y RWY 31	100			
	RNAV (GPS) Y RWY 36	101			
	LOC RWY 31	102			
	VOR OR TACAN RWY 18	103			
AIRPORT DIAGRAM		104			
CORPUS CHRISTI NAS (TRUAX FLD)(KNGP)			DEL RIO, TX		
CORPUS CHRISTI, TX			DEL RIO INTL(DRT)		
TAKEOFF MINIMUMS		L	TAKEOFF MINIMUMS		L
RADAR MINIMUMS		N	ALTERNATE MINIMUMS		M
IAPS	ILS Z OR LOC/DME RWY 13R	105	IAPS	ILS OR LOC RWY 13	127
	ILS Y OR RNAV (GPS) RWY 13R	106		RNAV (GPS) RWY 13	128
	RNAV (GPS) RWY 04	107		VOR-A	129
	RNAV (GPS) RWY 13L	108			
	RNAV (GPS) RWY 17	109			
	RNAV (GPS) RWY 22	110			
	RNAV (GPS) RWY 31L	111			
	RNAV (GPS) RWY 31R	112			
	RNAV (GPS) RWY 35	113			
	VOR/DME X RWY 31L	114			
	VOR/DME Y OR TACAN Y RWY 13R	115			
	VOR/DME Y OR TACAN Y RWY 31L	116			
	VOR/DME Z OR TACAN Z RWY 13R	117			
	VOR/DME Z OR TACAN Z RWY 31L	118			
	VOR/DME OR TACAN RWY 35	119			
	TACAN RWY 17	120			
AIRPORT DIAGRAM		121			
DPS	LOC OE ONE	122			
	WORRY ONE	123			
			DEVINE, TX		
			DEVINE MUNI(23R)		
			TAKEOFF MINIMUMS		L
			IAPS	RNAV (GPS) RWY 35	130
				NDB RWY 35	131
			DIMMIT COUNTY		
			---SEE CARRIZO SPRINGS, TX		
			DRAUGHON-MILLER CENTRAL TEXAS RGNL		
			---SEE TEMPLE, TX		
			EAGLE PASS, TX		
			MAVERICK CO MEMORIAL INTL(5T9)		
			TAKEOFF MINIMUMS		L
			IAPS	RNAV (GPS) RWY 13	132
				RNAV (GPS) RWY 31	133
			EDINBURG, TX		
			SOUTH TEXAS INTL AT EDINBURG(EBG)		
			TAKEOFF MINIMUMS		L
			IAPS	RNAV (GPS) RWY 14	134
				RNAV (GPS) RWY 32	135
			EDWARDS COUNTY		
			---SEE ROCKSPRINGS, TX		

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EL PASO, TX

EL PASO INTL(ELP)
 TAKEOFF MINIMUMSL
 ALTERNATE MINIMUMSM
 RADAR MINIMUMSN
 STARS BEAHR THREE (RNAV)Z1
 HSKNS ONE (RNAV)Z8
 MOLLY FOUR (RNAV)Z14
 SAMMR THREE (RNAV)Z16
 WAZKO ONE (RNAV)Z21
 IAPS ILS OR LOC RWY 22136
 RNAV (RNP) Y RWY 04137
 RNAV (RNP) Z RWY 04138
 RNAV (RNP) Z RWY 22139
 RNAV (RNP) Z RWY 26L140
 RNAV (GPS) RWY 26R141
 RNAV (GPS) X RWY 04142
 RNAV (GPS) Y RWY 22143
 RNAV (GPS) Y RWY 26L144
 LOC/DME RWY 04145
 VOR RWY 26L146
 AIRPORT DIAGRAM147
 DPS ATKNN FIVE (RNAV)148
 JCOXX TWO (RNAV)150
 LATVE THREE (RNAV)152
 NEVUE THREE (RNAV)154
 TDOWN THREE (RNAV)156

FALFURRIAS, TX

BROOKS COUNTY(BKS)
 TAKEOFF MINIMUMSL
 ALTERNATE MINIMUMSM
 IAPS RNAV (GPS) RWY 17158
 RNAV (GPS) RWY 35159

FORT BLISS, TX

---SEE BIGGS AAF

FORT HOOD, TX

---SEE HOOD AAF

FORT HOOD/KILLEEN, TX

FORT HOOD/KILLEEN, TX

ROBERT GRAY AAF(GRK)
 TAKEOFF MINIMUMSL
 ALTERNATE MINIMUMSM
 RADAR MINIMUMSN
 IAPS ILS OR LOC RWY 15160
 ILS OR LOC RWY 33161
 RNAV (GPS) RWY 15162
 RNAV (GPS) RWY 33163
 VOR/DME RWY 15164
 VOR-A165
 NDB RWY 15166
 COPTER VOR RWY 33167
 AIRPORT DIAGRAM168
 DPS CONRA TWO169
 LAMPS FIVE170

FORT STOCKTON, TX

FORT STOCKTON-PECOS COUNTY(FST)
 TAKEOFF MINIMUMSL
 ALTERNATE MINIMUMSM
 IAPS RNAV (GPS) RWY 12172
 RNAV (GPS) RWY 30173
 VOR/DME RWY 30174
 VOR RWY 12175

FREDERICKSBURG, TX

GILLESPIE COUNTY(T82)
 TAKEOFF MINIMUMSL
 ALTERNATE MINIMUMSM
 IAPS RNAV (GPS) RWY 14176
 RNAV (GPS) RWY 32177
 VOR/DME-A178

GARNER FIELD

---SEE UVALDE, TX

GEORGE WEST, TX

LIVE OAK COUNTY(8T6)
 TAKEOFF MINIMUMSL
 IAPS RNAV (GPS) RWY 13179
 VOR/DME-A180

GEORGETOWN, TX

GEORGETOWN MUNI(GTU)
 TAKEOFF MINIMUMSL
 ALTERNATE MINIMUMSM
 STARS BITER SIXZ2
 KALLA THREEZ9
 MSTLO ONE (RNAV)Z15
 SZAGI ONE (RNAV)Z19
 WAILN ONE (RNAV)Z20
 IAPS RNAV (GPS) RWY 11181
 RNAV (GPS) RWY 18182
 RNAV (GPS) RWY 29183
 RNAV (GPS) RWY 36184
 AIRPORT DIAGRAM185
 DPS BNDIA ONE (RNAV)186
 DILLO ONE (RNAV)187
 ELOEL ONE (RNAV)188
 ILEXY ONE (RNAV)189
 MUCKY ONE (RNAV)191
 SAYBR ONE (RNAV)192

GILLESPIE COUNTY

---SEE FREDERICKSBURG, TX

GOLIAD NOLF(NGT)

BERCLAIR, TX
 IAPS RNAV (GPS) RWY 11193
 RNAV (GPS) RWY 17194
 RNAV (GPS) RWY 29195
 RNAV (GPS) RWY 35196

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HAMILTON, TX			JIM HOGG COUNTY		
HAMILTON MUNI(MNZ)			---SEE HEBBRONVILLE, TX		
TAKEOFF MINIMUMS		L			
ALTERNATE MINIMUMS		M			
IAPS	RNAV (GPS) RWY 18	197			
	RNAV (GPS) RWY 36	198			
HARLINGEN, TX			JUNCTION, TX		
VALLEY INTL(HRL)			KIMBLE COUNTY(JCT)		
TAKEOFF MINIMUMS		L	TAKEOFF MINIMUMS		L
ALTERNATE MINIMUMS		M	IAPS	RNAV (GPS) RWY 17	231
HOT SPOT		P		VOR-A	232
IAPS	ILS OR LOC RWY 17R	199	KARNES COUNTY		
	RNAV (RNP) Z RWY 13	200	---SEE KENEDY, TX		
	RNAV (RNP) Z RWY 17R	201			
	RNAV (RNP) Z RWY 31	202	KELLY FLD(KSKF)		
	RNAV (RNP) Z RWY 35L	203	SAN ANTONIO, TX		
	RNAV (GPS) RWY 17L	204	TAKEOFF MINIMUMS		L
	RNAV (GPS) RWY 35R	205	HOT SPOT		P
	RNAV (GPS) Y RWY 13	206	STARS	BRAUN ONE (RNAV)	24
	RNAV (GPS) Y RWY 17R	207		CENTERPOINT ONE	27
	RNAV (GPS) Y RWY 31	208		LEMIG ONE	211
	RNAV (GPS) Y RWY 35L	209		MARCS NINE	212
	LOC/DME BC RWY 35L	210		STONEWALL ONE	218
	VOR/DME RWY 17L	211	IAPS	ILS OR LOC/DME RWY 15	233
	VOR/DME RWY 17R	212		ILS OR LOC/DME RWY 33	234
	VOR/DME RWY 35L	213		RNAV (GPS) RWY 15	235
	VOR/DME Z RWY 31	214		RNAV (GPS) RWY 33	236
	VOR/DME Y OR TACAN RWY 31	215		TACAN RWY 15	237
AIRPORT DIAGRAM		216		TACAN RWY 33	238
			AIRPORT DIAGRAM		239
HEBBRONVILLE, TX			KENEDY, TX		
JIM HOGG COUNTY(HBV)			KARNES COUNTY(2R9)		
TAKEOFF MINIMUMS		L	TAKEOFF MINIMUMS		L
ALTERNATE MINIMUMS		M	IAPS	RNAV (GPS) RWY 16	240
IAPS	RNAV (GPS) RWY 13	217		RNAV (GPS) RWY 34	241
	NDB RWY 13	218		VOR/DME-A	242
HONDO, TX			KERRVILLE, TX		
SOUTH TEXAS RGNL AT HONDO(HDO)			KERRVILLE MUNI/LOUIS SCHREINER FIELD(ERV)		
TAKEOFF MINIMUMS		L	TAKEOFF MINIMUMS		L
ALTERNATE MINIMUMS		M	ALTERNATE MINIMUMS		M
IAPS	RNAV (GPS) RWY 17L	219	IAPS	RNAV (GPS) RWY 12	243
	RNAV (GPS) RWY 35R	220		RNAV (GPS) RWY 30	244
	NDB RWY 35R	221		LOC RWY 30	245
HOOD AAF(KHLR)				VOR-A	246
FORT HOOD, TX				NDB RWY 30	247
TAKEOFF MINIMUMS		L	KILLEEN, TX		
IAPS	COPTER RNAV (GPS) RWY 34	222	SKYLARK FIELD(ILE)		
	COPTER VOR 032	223	TAKEOFF MINIMUMS		L
	COPTER NDB RWY 34	224	IAPS	RNAV (GPS) RWY 01	248
AIRPORT DIAGRAM		225		LOC RWY 01	249
DPS	CONRA TWO	226		VOR-A	250
	LAMPS FIVE	227	DPS	CONRA TWO	251
				LAMPS FIVE	252
INGLESIDE, TX			KIMBLE COUNTY		
MC CAMPBELL-PORTER(TFP)			---SEE JUNCTION, TX		
ALTERNATE MINIMUMS		M			
IAPS	RNAV (GPS) RWY 13	229			
	RNAV (GPS) RWY 31	230			

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KINGSVILLE, TX			LAREDO, TX		
KLEBERG COUNTY(IKG)			LAREDO INTL(LRD)		
TAKEOFF MINIMUMS		L	TAKEOFF MINIMUMS		L
IAPS	RNAV (GPS) RWY 13	254	ALTERNATE MINIMUMS		M
KINGSVILLE NAS(KNQI)			IAPS		
KINGSVILLE, TX			ILS OR LOC/DME RWY 17R		
RADAR MINIMUMS		N			282
IAPS	ILS OR LOC/DME RWY 13R	255			283
	TACAN RWY 13L/R	256			284
	TACAN RWY 17L	257			285
	TACAN RWY 31L/R	258			286
	TACAN RWY 35R	259			287
	TACAN Y RWY 17R	260			288
	TACAN Z RWY 17R	261			289
AIRPORT DIAGRAM		262			290
DPS	KINGSVILLE TWO	263			291
KLEBERG COUNTY			LAUGHLIN AFB(KDLF)		
---SEE KINGSVILLE, TX			DEL RIO, TX		
LAGO VISTA, TX			TAKEOFF MINIMUMS		
LAGO VISTA TX-RUSTY ALLEN(RYW)					
TAKEOFF MINIMUMS		L	STARS	WEBOX FOUR	Z23
ALTERNATE MINIMUMS		M	IAPS	ILS OR LOC/DME RWY 13C	292
STARS	BITER SIX	Z22		ILS OR LOC/DME RWY 31C	293
	MSTLO ONE (RNAV)	Z15		RNAV (GPS) RWY 13C	294
	SZAGI ONE (RNAV)	Z19		RNAV (GPS) RWY 31C	295
	WAILN ONE (RNAV)	Z20		RNAV (GPS)-B	296
IAPS	RNAV (GPS) RWY 15	265		VOR/DME RWY 13C	297
DPS	BNDIA ONE (RNAV)	266		VOR/DME RWY 31C	298
	DILLO ONE (RNAV)	267	AIRPORT DIAGRAM		299
	ELOEL ONE (RNAV)	268	DPS	HINKO ONE	300
	IEXY ONE (RNAV)	269		LAUGHLIN ONE	301
	MUCKY ONE (RNAV)	270	LIVE OAK COUNTY		
	SAYBR ONE (RNAV)	271	---SEE GEORGE WEST, TX		
LAKEWAY, TX			LLANO, TX		
LAKEWAY AIRPARK(3R9)			LLANO MUNI(AQO)		
TAKEOFF MINIMUMS		L	TAKEOFF MINIMUMS		L
STARS	BITER SIX	Z22	ALTERNATE MINIMUMS		M
	BLEWE THREE	Z33	IAPS	RNAV (GPS) RWY 17	302
	KALLA THREE	Z9		RNAV (GPS) RWY 35	303
	MSTLO ONE (RNAV)	Z15		VOR-A	304
	SZAGI ONE (RNAV)	Z19	LOCKHART, TX		
	WAILN ONE (RNAV)	Z20	LOCKHART MUNI(50R)		
IAPS	RNAV (GPS) RWY 16	272	TAKEOFF MINIMUMS		L
	VOR/DME-A	273	IAPS	RNAV (GPS) RWY 18	305
DPS	BNDIA ONE (RNAV)	274		RNAV (GPS) RWY 36	306
	DILLO ONE (RNAV)	275	MARFA, TX		
	ELOEL ONE (RNAV)	276	MARFA MUNI(MRF)		
	IEXY ONE (RNAV)	277	TAKEOFF MINIMUMS		L
	MUCKY ONE (RNAV)	278	IAPS	RNAV (GPS) RWY 31	307
	SAYBR ONE (RNAV)	279		VOR RWY 31	308
LAMPASAS, TX			MASON, TX		
LAMPASAS(LZZ)			MASON COUNTY(T92)		
TAKEOFF MINIMUMS		L	TAKEOFF MINIMUMS		L
ALTERNATE MINIMUMS		M	IAPS	RNAV (GPS) RWY 18	309
IAPS	RNAV (GPS) RWY 34	280		RNAV (GPS) RWY 36	310
	VOR-A	281		VOR/DME-A	311

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MAVERICK CO MEMORIAL INTL			NEW BRAUNFELS, TX		
---SEE EAGLE PASS, TX			NEW BRAUNFELS RGNL(BAZ)		
MC ALLEN, TX			TAKEOFF MINIMUMS .....L		
MC ALLEN MILLER INTL(MFE)			ALTERNATE MINIMUMS .....M		
TAKEOFF MINIMUMS .....L			IAPS RNAV (GPS) RWY 13 .....336		
ALTERNATE MINIMUMS .....M			RNAV (GPS) RWY 17 .....337		
IAPS ILS OR LOC RWY 14 .....312			RNAV (GPS) RWY 31 .....338		
ILS OR LOC RWY 32 .....313			RNAV (GPS) RWY 35 .....339		
RNAV (GPS) RWY 14 .....314			VOR/DME-A .....340		
RNAV (GPS) RWY 32 .....315			AIRPORT DIAGRAM .....341		
VOR RWY 14 .....316			DPS SETZR ONE (RNAV) .....342		
VOR RWY 32 .....317			 NUECES COUNTY		
AIRPORT DIAGRAM .....318			---SEE ROBSTOWN, TX		
MC CAMPBELL-PORTER			ODESSA, TX		
---SEE INGLESIDE, TX			ODESSA-SCHLEMEYER FIELD(ODO)		
MC GREGOR EXECUTIVE			TAKEOFF MINIMUMS .....L		
---SEE WACO, TX			ALTERNATE MINIMUMS .....M		
MC KINLEY FIELD			IAPS RNAV (GPS) RWY 11 .....343		
---SEE PEARSALL, TX			RNAV (GPS) RWY 20 .....344		
MID VALLEY			RNAV (GPS) RWY 29 .....345		
---SEE WESLACO, TX			VOR-A .....346		
MIDLAND, TX			ORANGE GROVE NALF(KNOG)		
MIDLAND AIRPARK(MDD)			ORANGE GROVE, TX		
TAKEOFF MINIMUMS .....L			IAPS ILS OR LOC/DME RWY 13 .....347		
ALTERNATE MINIMUMS .....M			TACAN RWY 13 .....348		
IAPS RNAV (GPS) RWY 25 .....319			TACAN RWY 31 .....349		
RNAV (GPS) RWY 34 .....320			TACAN-A .....350		
VOR/DME RWY 25 .....321			AIRPORT DIAGRAM .....351		
VOR-A .....322			OZONA, TX		
MIDLAND INTL(MAF)			OZONA MUNI(OZA)		
TAKEOFF MINIMUMS .....L			TAKEOFF MINIMUMS .....L		
ALTERNATE MINIMUMS .....M			IAPS RNAV (GPS) RWY 16 .....352		
RADAR MINIMUMS .....N			PEARSALL, TX		
HOT SPOT .....P			MC KINLEY FIELD(T30)		
IAPS ILS OR LOC RWY 10 .....323			TAKEOFF MINIMUMS .....L		
RNAV (GPS) RWY 04 .....324			IAPS VOR/DME OR GPS-A .....353		
RNAV (GPS) RWY 10 .....325			PECOS, TX		
RNAV (GPS) RWY 16R .....326			PECOS MUNI(PEQ)		
RNAV (GPS) RWY 22 .....327			TAKEOFF MINIMUMS .....L		
RNAV (GPS) RWY 28 .....328			ALTERNATE MINIMUMS .....M		
RNAV (GPS) RWY 34L .....329			IAPS RNAV (GPS) RWY 14 .....354		
VOR/DME OR TACAN RWY 34L .....330			RNAV (GPS) RWY 32 .....355		
VOR OR TACAN RWY 16R .....331			VOR RWY 14 .....356		
AIRPORT DIAGRAM .....332			PLEASANTON, TX		
MONAHANS, TX			PLEASANTON MUNI(PEZ)		
ROY HURD MEMORIAL(E01)			TAKEOFF MINIMUMS .....L		
TAKEOFF MINIMUMS .....L			ALTERNATE MINIMUMS .....M		
IAPS RNAV (GPS) RWY 12 .....333			IAPS RNAV (GPS) RWY 34 .....357		
RNAV (GPS) RWY 30334			DPS SETZR ONE (RNAV)358		
VOR/DME RWY 12335			MUSTANG BEACH		
MUSTANG BEACH			---SEE PORT ARANSAS, TX		

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PORT ARANSAS, TX			ROCKPORT, TX		
MUSTANG BEACH(RAS)			ARANSAS COUNTY(RKP)		
TAKEOFF MINIMUMS		L	TAKEOFF MINIMUMS		L
ALTERNATE MINIMUMS		M	ALTERNATE MINIMUMS		M
IAPS	RNAV (GPS) RWY 12	359	IAPS	RNAV (GPS) RWY 14	378
	RNAV (GPS) RWY 30	360		RNAV (GPS) RWY 18	379
				RNAV (GPS) RWY 32	380
				RNAV (GPS) RWY 36	381
				VOR/DME OR TACAN-A	382
PORT ISABEL, TX			ROCKSPRINGS, TX		
PORT ISABEL-CAMERON COUNTY(PIL)			EDWARDS COUNTY(ECU)		
TAKEOFF MINIMUMS		L	TAKEOFF MINIMUMS		L
ALTERNATE MINIMUMS		M	ALTERNATE MINIMUMS		M
IAPS	RNAV (GPS) RWY 13	361	IAPS	RNAV (GPS) RWY 14	383
	VOR/DME-B	362		VOR RWY 14	384
	VOR-A	363			
PRESIDIO, TX			ROY HURD MEMORIAL		
PRESIDIO LELY INTL(PRS)			---SEE MONAHAN, TX		
TAKEOFF MINIMUMS		L			
IAPS	RNAV (GPS)-A	364			
RANDOLPH AFB(KRND)			SAN ANGELO, TX		
UNIVERSAL CITY, TX			SAN ANGELO RGNL/MATHIS FIELD(SJT)		
STARS	BRAUN ONE (RNAV)	Z4	TAKEOFF MINIMUMS		L
	CENTERPOINT ONE	Z7	ALTERNATE MINIMUMS		M
	LEMIG ONE	Z11	RADAR MINIMUMS		N
	MARCS NINE	Z12	IAPS	ILS OR LOC RWY 03	385
	STONEWALL ONE	Z18		RNAV (GPS) RWY 03	386
IAPS	ILS OR LOC RWY 14L	365		RNAV (GPS) RWY 18	387
	ILS OR LOC RWY 14R	366		RNAV (GPS) RWY 21	388
	ILS OR LOC RWY 32L	367		VOR/DME OR TACAN RWY 03	389
	ILS OR LOC RWY 32R	368		VOR RWY 21	390
	RNAV (GPS) RWY 14L	369		NDB RWY 03	391
	RNAV (GPS) RWY 14R	370	AIRPORT DIAGRAM		392
	RNAV (GPS) RWY 32L	371			
	RNAV (GPS) RWY 32R	372			
	VOR/DME OR TACAN RWY 14R	373			
	VOR/DME OR TACAN RWY 32L	374			
	AIRPORT DIAGRAM	375			
REAGAN COUNTY					
---SEE BIG LAKE, TX					
ROBERT GRAY AAF					
---SEE FORT HOOD/KILLEEN, TX					
ROBSTOWN, TX					
 NUECES COUNTY(RBO)					
TAKEOFF MINIMUMS		L			
ALTERNATE MINIMUMS		M			
IAPS	RNAV (GPS) RWY 13	376			
	VOR/DME-A	377			

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SAN ANTONIO, TX

BOERNE STAGE FIELD(5C1) TAKEOFF MINIMUMS .L ALTERNATE MINIMUMS .M IAPS . RNAV (GPS) RWY 17 .393 RNAV (GPS) RWY 35 .394 DPS . SETZR ONE (RNAV) .395

SAN ANTONIO INTL(SAT)

TAKEOFF MINIMUMS .L ALTERNATE MINIMUMS .M HOT SPOT .P STARS . BRAUN ONE (RNAV) .24 CENTERPOINT ONE .27 LEMIG ONE .Z11 MARCS NINE .Z12 STONEWALL ONE .Z18 IAPS . ILS OR LOC RWY 04 .396 ILS OR LOC RWY 12R .397 ILS OR LOC RWY 30L .398 ILS RWY 12R (CAT II) .399 RNAV (RNP) Z RWY 04 .400 RNAV (RNP) Z RWY 12R .401 RNAV (RNP) Z RWY 22 .402 RNAV (RNP) Z RWY 30L .403 RNAV (GPS) Y RWY 04 .404 RNAV (GPS) Y RWY 12R .405 RNAV (GPS) Y RWY 22 .406 RNAV (GPS) Y RWY 30L .407 AIRPORT DIAGRAM .408 DPS . ALAMO ONE .409 ALISS FOUR (RNAV) .411 BOWIE SIX .413 LEJON THREE .415 MILET THREE (RNAV) .416 SETZR ONE (RNAV) .417 THREE RIVERS THREE (RNAV) .418

STINSON MUNI(SSF)

TAKEOFF MINIMUMS .L ALTERNATE MINIMUMS .M HOT SPOT .P STARS . BRAUN ONE (RNAV) .24 CENTERPOINT ONE .27 LEMIG ONE .Z11 MARCS NINE .Z12 STONEWALL ONE .Z18 IAPS . RNAV (GPS) RWY 32 .419 VOR RWY 32 .420 AIRPORT DIAGRAM .421 DPS . ALAMO ONE .422 ALISS FOUR (RNAV) .424 BOWIE SIX .426 LEJON THREE .428 MILET THREE (RNAV) .429 SETZR ONE (RNAV) .430 THREE RIVERS THREE (RNAV) .432

SAN ANTONIO, TX

---SEE KELLY FLD

SAN MARCOS RGNL

---SEE AUSTIN, TX

SINTON, TX

ALFRED C BUBBA THOMAS(T69) TAKEOFF MINIMUMS .L IAPS . GPS RWY 14 .433 GPS RWY 32 .434 VOR/DME RWY 14 .435 VOR RWY 32 .436

SKYLARK FIELD

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SONORA, TX

SONORA MUNI(SOA) TAKEOFF MINIMUMS .L IAPS . NDB OR GPS RWY 18 .437

SOUTH TEXAS INTL AT EDINBURG

---SEE EDINBURG, TX

SOUTH TEXAS RGNL AT HONDO

---SEE HONDO, TX

STINSON MUNI

---SEE SAN ANTONIO, TX

TAYLOR, TX

TAYLOR MUNI(T74) TAKEOFF MINIMUMS .L STARS . MSTLO ONE (RNAV) .Z15 SZAGI ONE (RNAV) .Z19 WAILN ONE (RNAV) .Z20 IAPS . RNAV (GPS) RWY 17 .438 VOR/DME RWY 17 .439 DPS . BNDIA ONE (RNAV) .440 DILLO ONE (RNAV) .441 ELOEL ONE (RNAV) .442 ILEXY ONE (RNAV) .443 MUCKY ONE (RNAV) .444 SAYBR ONE (RNAV) .445

TEMPLE, TX

DRAUGHN-MILLER CENTRAL TEXAS RGNL (TPL) TAKEOFF MINIMUMS .L ALTERNATE MINIMUMS .M IAPS . ILS OR LOC RWY 15 .446 RNAV (GPS) RWY 02 .447 RNAV (GPS) RWY 15 .448 RNAV (GPS) RWY 33 .449 VOR RWY 33 .450

TSTC WACO

---SEE WACO, TX

UNIVERSAL CITY, TX

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TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

INSTRUMENT APPROACH PROCEDURE CHARTS

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IFR TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

Civil Airports and Selected Military Airports

ALL USERS: Airports that have Departure Procedures (DPs) designed specifically to assist pilots in avoiding obstacles during the climb to the minimum enroute altitude, and/or airports that have civil IFR takeoff minimums other than standard, are listed below. Takeoff Minimums and Departure Procedures apply to all runways unless otherwise specified. Altitudes, unless otherwise indicated, are minimum altitudes in MSL.

DPs specifically designed for obstacle avoidance are referred to as Obstacle Departure Procedures (ODPs) and are textually described below, or published separately as a graphic procedure. If the ODP is published as a graphic procedure, its name will be listed below, and it can be found in either this volume (civil), or the applicable military volume, as appropriate. Users will recognize graphic obstacle DPs by the term "(OBSTACLE)" included in the procedure title; e.g., TETON TWO (OBSTACLE). If not specifically assigned an ODP, SID, or radar vector as part of an IFR clearance, an ODP may be required to be flown for obstacle clearance, even though not specifically stated in the IFR clearance. When doing so in this manner, ATC should be informed when the ODP being used contains a specified route to be flown, restrictions before turning, and/or altitude restrictions.

Some ODPs, which are established solely for obstacle avoidance, require a climb in visual conditions to cross the airport, a fix, or a NAVAID in a specified direction, at or above a specified altitude. These procedures are called VCOA Over Airport (VCOA). To ensure safe and efficient operations, the pilot must verbally request approval from ATC to fly the VCOA when requesting their IFR clearance.

At some locations where an ODP has been established, a diverse vector area (DVA) may be created to allow radar vectors to be used in lieu of an ODP. DVA information will state that headings will be as assigned by ATC and climb gradients, when applicable, will be published immediately following the specified departure procedure.

Graphic DPs designed by ATC to standardize traffic flows, ensure aircraft separation and enhance capacity are referred to as "Standard Instrument Departures (SIDs)". SIDs also provide obstacle clearance and are published under the appropriate airport section. ATC clearance must be received prior to flying a SID.

CIVIL USERS NOTE: Title 14 Code of Federal Regulations Part 91 prescribes standard takeoff rules and establishes takeoff minimums for certain operators as follows: (1) For aircraft, other than helicopters, having two engines or less – one statute mile visibility. (2) For aircraft having more than two engines – one-half statute mile visibility. (3) For helicopters – one-half statute mile visibility. These standard minima apply in the absence of any different minima listed below.

MILITARY USERS NOTE: Civil (nonstandard) takeoff minima are published below. For military takeoff minima, refer to appropriate service directives.

NAME	TAKEOFF MINIMUMS
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ALICE, TX

ALICE INTL (ALI)

TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
ORIG 04106 (FAA)

NOTE: **Rwy 17**, multiple poles beginning 601' from DER, 413' right to 340' left of centerline, up to 36' AGL/204' MSL. Multiple trees beginning 205' from DER, 348' left to 317' right of centerline, up to 26' AGL/194' MSL. **Rwy 26**, building 797' from DER, 366' left of centerline, 30' AGL/208' MSL. Tree 812' from DER, 301' left of centerline, 27' AGL/205' MSL. Rod on OL DME, 715' from DER, 258' right of centerline, 21' AGL/ 199' MSL. Steel post 83' from DER, 344' right of centerline, 4' AGL/181' MSL. **Rwy 31**, rod on OL DME 388' from DER, 256' left of centerline, 21' AGL/199' MSL. Tree 439' from DER, 608' left of centerline, 16' AGL/194' MSL. Steel post 2' from DER, 251' right of centerline, 164' AGL/181' MSL. Tree 1067' from DER, 359' right of centerline, 28' AGL/206' MSL. **Rwy 35**, windmill 1461' from DER, 164' left of centerline, 140' AGL/214' MSL. Bush 330' from DER, 287' right of runway, 14' AGL/185' MSL.

NAME	TAKEOFF MINIMUMS
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ALPINE, TX

ALPINE-CASPARIS MUNI (E38)

TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 5 12208 (FAA)

TAKEOFF MINIMUMS: **Rwy 23**, NA - obstacles. **Rwy 19**, std. w/ min. climb of 432' per NM to 6900 or 1800-2½ for climb in visual conditions.
DEPARTURE PROCEDURE: **Rwy 1**, climb heading 029° to 5300 then climbing left turn direct BWR NDB, continue climb in BWR NDB holding pattern (hold N, LT, 194° inbound) to 8600 before proceeding on course. (ADF required) **Rwy 5**, climbing left turn direct BWR NDB, continue climb in BWR NDB holding pattern (hold N, LT, 194° inbound) to 8600 before proceeding on course. (ADF required) **Rwy 19**, climbing left turn direct BWR NDB, continue climb in BWR NDB holding pattern (hold N, LT, 194° inbound) to 8600 before proceeding on course. For climb in visual conditions, cross Alpine-Casparis Muni airport northeast bound at or above 6200 MSL then direct BWR NDB, continue climb in BWR NDB holding pattern (hold N, LT, 194° inbound) to 8600 before proceeding on course. Do not exceed 200 KIAS until established direct BWR NDB. When executing VCOA, notify ATC prior to departure. (ADF required)

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TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

16315

ALPINE, TX (CON'T)

ALPINE-CASPARIS MUNI (E38) (CON'T)

NOTE: **Rwy 1**, Poles, sign and tree beginning 13' from DER, 228' right of centerline, up to 33' AGL/4472' MSL. Vehicles on road and fence beginning 10' from DER, 274' left of centerline, up to 15' AGL/4463' MSL. **Rwy 5**, vehicles on road, poles, tree, sign and antenna beginning 18' from DER, 165' right of centerline, up to 38' AGL/4477' MSL. Poles, trees and sign beginning 13' from DER, 240' left of centerline, up to 37' AGL/4476' MSL. **Rwy 19**, Vehicles on road, poles and terrain beginning 32' from DER, 60' right of centerline, up to 43' AGL/4562' MSL. Vehicles on road, poles, trees, sign and windmill beginning 2' from DER, 153' left of centerline, up to 37' AGL/4556' MSL.

AUSTIN, TX

AUSTIN-BERGSTROM INTL (AUS)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

AMDT 1 06327 (FAA)

DEPARTURE PROCEDURE: **Rwys 35L, 35R**, climb via heading 353° to 1800 before turning left on course.

NOTE: **Rwy 17L**, trees beginning 498' from DER, 576' left of centerline, up to 80' AGL/517' MSL. Tree 617' from DER, 585' right of centerline, 55' AGL/498' MSL. **Rwy 17R**, trees 1007' from DER, 739' right of centerline, up to 61' AGL/523' MSL. **Rwy 35R**, tree 817' from DER, 664' right of centerline, 55' AGL/528' MSL.

AUSTIN EXECUTIVE (EDC)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

ORIG 10210 (FAA)

TAKEOFF MINIMUMS: **Rwys 16, 34**, NA-Environmental. NOTE: **Rwy 31**, trees beginning 901' from DER, 258' left of centerline, up to 50' AGL/669' MSL. Utility poles beginning 929' from DER, 370' left of centerline, up to 135' AGL/749' MSL. Utility poles beginning 2326' from DER, 878' right of centerline, up to 105' AGL/704' MSL.

SAN MARCOS RGNL (HYI)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

AMDT 2A 16175 (FAA)

DEPARTURE PROCEDURE: **Rwy 31**, climb heading 306° to 1500 before turning right. **Rwy 35**, climb heading 006° to 2500 before turning left.

NOTE: **Rwy 8**, sign 1' from DER, 250' left of centerline, 3' AGL/583' MSL. Tree 942' from DER, 259' left of centerline, 34' AGL/612' MSL. **Rwy 13**, trees beginning 2505' from DER, 90' right of centerline, up to 80' AGL/646' MSL. **Rwy 17**, bush 27' from DER, 74' left of centerline, 2' AGL/576' MSL. **Rwy 26**, runway end identifier light 8' from DER, 91' right of centerline, 4' AGL/589' MSL. Trees beginning 1072' from DER, 394' right of centerline, up to 50' AGL/638' MSL. Pole 1216' from DER, 552' right of centerline, 43' AGL/638' MSL. **Rwy 31**, trees beginning 911' from DER, left and right of centerline, up to 34' AGL/631' MSL. Pole 1056' from DER, 630' right of centerline, 33' AGL/621' MSL. **Rwy 35**, sign 24' from DER, 199' left of centerline, 3' AGL/597' MSL. Vehicles on road beginning 410' from DER, 719' right of centerline, up to 15' AGL/614' MSL. Trees beginning 3226' from DER, left and right of centerline, up to 49' AGL/738' MSL. Telephone line 4571' from DER, 107' right of centerline, 47' AGL/719' MSL.

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TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

BALLINGER, TX

BRUCE FIELD (E30)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

ORIG 11265 (FAA)

NOTE: **Rwy 17**, trees beginning 1902' from DER, 661' right of centerline, up to 100' AGL/1859' MSL. **Rwy 35**, trees, building, and road beginning 29' from DER, 210' left of centerline, up to 100' AGL/1839' MSL. Tree and poles beginning 887' from DER, 429' right of centerline, up to 37' AGL/1772' MSL.

BEEVILLE, TX

BEEVILLE MUNI (BEA)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

ORIG-A 16147 (FAA)

TAKEOFF MINIMUMS: **Rwys 18, 36**, NA-environmental.

Rwy 30, 300-2 or std. w/ min. climb of 239' per NM to 700.

NOTE: **Rwy 12**, pole, and trees beginning 64' from DER, 290' right of centerline, up to 29' AGL/272' MSL. Tree, rd (n), and pole beginning 153' from DER, 9' right of centerline, up to 33' AGL/275' MSL. Trees beginning 756' from DER, 50' left of centerline, up to 279' MSL. Trees and pole beginning 933' from DER, 30' right of centerline, up to 282' MSL. **Rwy 30**, pole, tree, and building beginning 117' from DER, 290' left of centerline, up to 32' AGL/301' MSL. Tree 1054' from DER, 574' left of centerline, 307' MSL. Tree 1835' from DER, 452' right of centerline, 319' MSL. Pole and trees beginning 1875' from DER, 287' left of centerline, up to 323' MSL. Tree beginning 1907' from DER, 246' right of centerline, up to 53' AGL/339' MSL. Trees and poles beginning 1934' from DER, 100' left of centerline, up to 336' MSL. Tower 1.4 NM from DER, 2568' right of centerline, 230' AGL/542' MSL.

BIG LAKE, TX

REAGAN COUNTY (E41)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

AMDT 1 06327 (FAA)

TAKEOFF MINIMUMS: **Rwys 9,27**, NA-environmental.

NOTE: **Rwy 16**, road 384' from DER, 603' right of centerline, 17' AGL/2716' MSL.

BIGGS AAF (KBIF)

FORT BLISS, TX

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

07130

Rwy 21: Left turn direct to ELP VORTAC, continue climb via R-130 to airway MEA or as directed by ATC. **Rwy 3**: Right turn direct to ELP VORTAC, continue climb via R-130 to airway MEA or as directed by ATC.

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**TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND
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BRADY, TX

CURTIS FIELD (BBD)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

ORIG 08045 (FAA)

TAKEOFF MINIMUMS: **Rwys 8, 26**, NA-Environmental.

NOTES: **Rwy 17**, Light poles, trees, fence, terrain, and vehicle on road beginning 50' from DER, 362' left of centerline, up to 30' AGL/1827' MSL. Trees beginning 17' from DER, 216' right of centerline, up to 30' AGL/1818' MSL.

BROWNSVILLE, TXBROWNSVILLE/SOUTH PADRE ISLAND
INTL (BRO)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

ORIG-A 16287 (FAA)

NOTE: **Rwy 13**, trees and bushes beginning 32' from DER, 399' left of centerline, up to 30' AGL/50' MSL. Trees, bushes, pole and building beginning 751' from DER, 191' right of centerline, up to 44' AGL/64' MSL. **Rwy 18**, trees and pole beginning 56' from DER, 61' left of centerline, up to 53' AGL/78' MSL. Trees and poles beginning 1011' from DER, 96' right of centerline, up to 44' AGL/69' MSL. **Rwy 31**, airplanes on taxiway beginning 371' from DER, 563' right of centerline, up to 45' AGL/64' MSL. Trees beginning 1141' from DER, 567' right of centerline, up to 37' AGL/52' MSL. **Rwy 36**, pole and trees beginning 695' from DER, 140' right of centerline, up to 56' AGL/71' MSL. Trees beginning 719' from DER, 84' left of centerline, up to 63' AGL/78' MSL.

BROWNWOOD, TX

BROWNWOOD RGNL (BWD)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

ORIG 11293 (FAA)

NOTE: **Rwy 13**, trees beginning 1523' from DER, 844' right of centerline, up to 47' AGL/1412' MSL. **Rwy 17**, trees beginning 797' from DER, 649' left of centerline, up to 33' AGL/1398' MSL. Trees beginning 691' from DER, 640' right of centerline, up to 31' AGL/1393' MSL. Building 737' from DER, 253' right of centerline, 29' AGL/1391' MSL. **Rwy 35**, trees beginning 77' from DER, 272' left of centerline, up to 49' AGL/1411' MSL. Trees beginning 771' from DER, 282' right of centerline, up to 46' AGL/1418' MSL.

BURNET, TXBURNET MUNI KATE CRADDOCK FIELD
(BMQ)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

AMDT 1 09351 (FAA)

NOTE: **Rwy 1**, trees and cars beginning 362' from DER, 488' right of centerline, up to 100' AGL/1379' MSL. Trees and cars beginning 274' from DER, 86' left of centerline, up to 100' AGL/1419' MSL. **Rwy 19**, trees beginning 32' from DER, 103' right of centerline, up to 100' AGL/1379' MSL. Trees beginning 188' from DER, 332' left of centerline, up to 100' AGL/1369' MSL.

CARRIZO SPRINGS, TX

DIMMIT COUNTY (CZT)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

ORIG 87267 (FAA)

DEPARTURE PROCEDURE: **Rwy 31**, climb runway heading to 1200 prior to left turn to avoid 1114' antenna west of airport.

CASTROVILLE, TX

CASTROVILLE MUNI (CVB)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

ORIG 15288 (FAA)

NOTE: **Rwy 16**, trees beginning 103' from DER, 361' left of centerline, up to 50' AGL/787' MSL. Trees beginning 221' from DER, 347' right of centerline, up to 50' AGL/794' MSL. **Rwy 34**, agriculture equipment beginning 1' from DER, 55' left of centerline, up to 15' AGL/790' MSL. Road beginning 107' from DER, left and right of centerline, 15' AGL/789' MSL. Trees beginning 1928' from DER, 5' right of centerline, up to 50' AGL/838' MSL. Trees beginning 2322' from DER, 685' left of centerline, up to 50' AGL/851' MSL. Pole 1483' from DER, 834' right of centerline, 37' AGL/816' MSL. Pole 2255' from DER, 247' right of centerline, 52' AGL/831' MSL. Antenna on silo 2239' from DER, 911' left of centerline, 88' AGL/870' MSL.

COLEMAN, TX

COLEMAN MUNI (COM)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

ORIG 11069 (FAA)

NOTE: **Rwy 15**, trees beginning 792' from DER, 67' right of centerline, up to 100' AGL/1774' MSL. **Rwy 33**, cranes beginning 1010' from DER, 28' left of centerline, up to 65' AGL/1774' MSL. Cranes beginning 2285' from DER, 13' right of centerline, up to 65' AGL/1774' MSL.

COMANCHE, TX

COMANCHE COUNTY-CITY (MKN)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

ORIG 06047 (FAA)

TAKEOFF MINIMUMS: **Rwys 13, 31**, NA-Environmental. NOTE: **Rwy 17**, road at DER, 134' right of centerline, 15' AGL/1394' MSL. Road 784' from DER, 324' right of centerline, 15' AGL/1404' MSL. **Rwy 35**, trees beginning 464' from DER, across centerline, up to 50' AGL/1429' MSL.

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**TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND
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**TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND
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CORPUS CHRISTI, TX

CORPUS CHRISTI INTL (CRP)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

AMDT 3 16147 (FAA)

TAKEOFF MINIMUMS: **Rwy 36**, 400-2¾ or std. w/ min. climb of 235' per NM to 600.

DEPARTURE PROCEDURE: **Rwy 31**, Climb heading 312° to 600 before turning left.

NOTE: **Rwy 13**, vehicles on road and wind cone beginning 2' from DER, 260' right of centerline, up to 53' MSL. Vehicles on road 69' from DER, 337' right of centerline, 54' MSL. **Rwy 18**, vehicles on road beginning 301' from DER, 103' left of centerline, up to 53' MSL. **Rwy 31**, vehicles on road 22' from DER, 65' right of centerline, 58' MSL. Poles beginning 765' from DER, 616' right of centerline, up to 36' AGL/75' MSL. **Rwy 36**, vehicles on road beginning 261' from DER, 444' right of centerline, up to 52' MSL. Vehicles on road 490' from DER, 604' left of centerline, 54' MSL. Light poles beginning 1217' from DER, 648' right of centerline, up to 31' AGL/74' MSL. Light poles beginning 1241' from DER, 665' left of centerline, up to 31' AGL/74' MSL. Light pole 1294' from DER, 799' right of centerline, 31' AGL/75' MSL. Light pole 1330' from DER, 850' left of centerline, 32' AGL/75' MSL. Refinery 1.9 NM from DER, 180' right of centerline, 318' AGL/344' MSL. Tower 2.1 NM from DER, 3773' left of centerline, 401' AGL/423' MSL.

CORPUS CHRISTI NAS (TRUAX FLD)

(KNGP)

CORPUS CHRISTI, TX

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

ORIG 15232

TAKEOFF OBSTACLES: **Rwy 13L**, pylon 3366' from DER, 452' left of centerline, 91' AGL/102' MSL. Pylon 4193' from DER, 36' left of centerline, 79' AGL/104' MSL. Pylon 3997' from DER, 688' left of centerline, 60' AGL/87' MSL. Terrain 570' from DER, 653' right of centerline, 33' MSL. Terrain 551' from DER, 644' right of centerline, 33' MSL. Terrain 413' from DER, 547' left of centerline, 33' MSL. Terrain 47' from DER, 500' left of centerline, 35' MSL. Terrain 46' from DER, 512' left of centerline, 35' MSL. Pylon 4518' from DER, 1117' right of centerline, 79' AGL/107' MSL. Pylon 4675' from DER, 1696' right of centerline, 79' AGL/103' MSL. Pylon 4346' from DER, 542' right of centerline, 79' AGL/101' MSL. **Rwy 13R**, pylon 4743' from DER, 786' left of centerline, 79' AGL/104' MSL. Terrain 443' from DER, 550' right of centerline, 33' MSL. Terrain 380' from DER, 602' right of centerline, 33' MSL. Terrain 247' from DER, 550' right of centerline, 33' MSL. Terrain 190' from DER, 551' right of centerline, 33' MSL. Terrain 427' from DER, 614' left of centerline, 34' MSL. Terrain 384' from DER, 600' left of centerline, 34' MSL. Pylon 5067' from DER, 368' right of centerline, 79' AGL/107' MSL. Pylon 5224' from DER, 946' right of centerline, 79' AGL/103' MSL. **Rwy 17**, pylon 4925' from DER, 381' left of centerline, 124' AGL/142' MSL. Terrain 472' from DER, 584' left of centerline, 30' MSL. Terrain 63' from DER, 517' right of centerline, 32' MSL. Terrain 17' from DER, 500' right of centerline, 33' MSL. **Rwy 31L**, terrain 47' from DER, 512' left of centerline, 29' MSL. Terrain 50' from DER, 500' left of centerline, 30' MSL. Terrain 173' from DER, 546' left of centerline, 30' MSL. Terrain 181' from DER, 500' left of centerline, 31' MSL. Terrain 684' from DER, 652' right of centerline, 30' MSL. **Rwy 31R**, terrain 31' from DER, 500' right of centerline, 33' MSL. Terrain 63' from DER, 517' right of centerline, 33' MSL. Terrain 294' from DER, 500' right of centerline, 33' MSL. Terrain 380' from DER, 602' right of centerline, 33' MSL. **Rwy 35**, terrain 46' from DER, 512' left of centerline, 36' MSL. Terrain 50' from DER, 500' left of centerline, 36' MSL. Terrain 300' from DER, 580' left of centerline, 36' MSL. Terrain 313' from DER, 500' left of centerline, 36' MSL.

COTULLA, TX

COTULLA-LA SALLE COUNTY (COT)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

AMDT 1 14261 (FAA)

NOTE: **Rwy 13**, trees beginning 4' from DER, left and right of centerline, up to 20' AGL/465' MSL. Vehicles on unlit roadway, beginning 55' from DER, 507' left of centerline, up to 15' AGL/482' MSL. Trees beginning 142' from DER, left and right of centerline, up to 20' AGL/482' MSL. Trees beginning 622' from DER, left and right of centerline, up to 24' AGL/480' MSL. Pole 1002' from DER, 548' left of centerline, 33' AGL/488' MSL. **Rwy 31**, fence .08' from DER, 310' right of centerline, 3' AGL/476' MSL. Trees beginning 19' from DER, left and right of centerline, up to 13' AGL/485' MSL. Trees beginning 178' from DER, 311' right of centerline, up to 16' AGL/490' MSL. Trees beginning 380' from DER, 386' right of centerline, up to 21' AGL/493' MSL.

16315

**TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND
DIVERSE VECTOR AREA (RADAR VECTORS)**

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

16315

DEL RIO, TX

DEL RIO INTL (DRT)

TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES

ORIG 99252 (FAA)

DEPARTURE PROCEDURE: **Rwy 13**, climb to 1500 prior to left turn.

DEVINE, TX

DEVINE MUNI (23R)

TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES

AMDT 1 11349 (FAA)

TAKEOFF MINIMUMS: **Rwy 35**, 300-1 or std. w/min. climb of 265' per NM to 900.NOTE: **Rwy 17**, trees beginning 281' from DER, 383' left of centerline, up to 50' AGL/759' MSL. Trees beginning 1145' from DER, 233' left of centerline, up to 50' AGL/779' MSL. **Rwy 35**, trees beginning 4761' from DER, 128' right of centerline, up to 50' AGL/839' MSL.

EAGLE PASS, TX

MAVERICK COUNTY MEMORIAL INTL (5T9)

TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES

ORIG 08269 (FAA)

NOTE: **Rwy 13**, vehicle on road 171' from DER, 393' right of centerline, 15' AGL/894' MSL.

EDINBURG, TX

SOUTH TEXAS INTL AT EDINBURG (EBG)

TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES

ORIG 06271 (FAA)

TAKEOFF MINIMUMS: CAUTION: Unmarked balloon and cable to 15000' MSL in R-6317. **Rwy 14**, 276/37.9 NM, **Rwy 32**, 276/38.5 NM.NOTE: **Rwy 14**, tree 1109' from DER, 525' right of centerline, 19' AGL/108' MSL. Terrain 20' from DER, 312' right of centerline, 0' AGL/74' MSL. **Rwy 32**, multiple poles beginning 831' from DER, 53' right of centerline, up to 32' AGL/111' MSL. Road 640' from DER, 671' right of centerline, 17' AGL/96' MSL.

EL PASO, TX

EL PASO INTL (ELP)

TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES

AMDT 8 15232 (FAA)

TAKEOFF MINIMUMS: **Rwys 8L, 26R**, NA - Environmental. **Rwy 26L**, std. w/min. climb of 490' per NM to 6300.DEPARTURE PROCEDURE: **Rwy 4, 8R**, climbing right turn heading 120° and ELP R-150 to 9000, then proceed on course. **Rwy 22, 26L**, climbing left turn heading 120° and ELP R-150 to 9000, then proceed on course.NOTE: **Rwy 4**, light poles beginning 1053' from DER, 746' left of centerline, 39' AGL/3986' MSL. **Rwy 26L**, light poles beginning 1248' from DER, 614' left of centerline, up to 60' AGL/3983' MSL. Windsock 113' from DER, 295' right of centerline, 20' AGL/3943' MSL. **Rwy 22**, utility pedestal 30' from DER, 205' right of centerline, 4' AGL/3918' MSL.

FALFURRIAS, TX

BROOKS COUNTY (BKS)

TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES

AMDT 1 09127 (FAA)

TAKEOFF MINIMUMS: **Rwy 32**, 400-2¼ or std. w/ min. climb of 249' per NM to 600. **Rwy 35**, std. w/ min. climb of 250' per NM to 800, or 500-3 w/ min. climb of 242' per NM to 800, or 900-2½ for climb in visual conditions. DEPARTURE PROCEDURE: **Rwy 35**, for climb in visual conditions: cross Brooks County Airport at or above 900 MSL before proceeding on course.NOTE: **Rwy 14**, vehicle on road, 29' from DER, 499' left of centerline, 15' AGL/129' MSL. Trees beginning 149' from DER, 523' left of centerline, up to 40' AGL/154' MSL. Trees beginning at DER, 415' right of centerline, up to 40' AGL/149' MSL. **Rwy 17**, vehicle on road, at DER, 364' left of centerline, 15' AGL/119' MSL. Trees beginning 15' from DER, 331' right of centerline, up to 40' AGL/149' MSL. Trees beginning 165' from DER, 126' left of centerline, up to 17' AGL/129' MSL. **Rwy 32**, road and trees beginning 587' from DER, 35' right of centerline, up to 40' AGL/149' MSL. Tower 1.9 NM from DER, 987' left of centerline, 298' AGL/418' MSL. **Rwy 35**, vehicle on road, at DER, 360' right of centerline, 15' AGL/118' MSL. Tree 1010' from DER, 278' right of centerline, 29' AGL/138' MSL. Tower 2.6 NM from DER, 426' right of centerline, 414' AGL/539' MSL.

FORT HOOD, TX

ROBERT GRAY AAF (GRK)

TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURESNOTE: **Rwy 33**, pole 974' from DER, 746' left of centerline, 35' AGL/1050' MSL. Pole 1121' from DER, 746' left of centerline, 33' AGL/1048' MSL.

FORT STOCKTON, TX

FORT STOCKTON-PECOS COUNTY (FST)

TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES

ORIG 09239 (FAA)

TAKEOFF MINIMUMS: **Rwys 7, 11, 16, 25, 29, 34**, NA - Environmental. **Rwy 21**, 300-1 or std. w/ min. climb of 280' per NM to 3600.DEPARTURE PROCEDURE: **Rwy 21**, climb heading 208° to 3600 before turning left.NOTE: **Rwy 12**, tree 899' from DER, 310' right of centerline, 39' AGL/3049' MSL. **Rwy 21**, brush beginning 110' from DER, 222' right of centerline, up to 20' AGL/3159' MSL. Terrain beginning 124' from DER, 77' right of centerline, up to 3173' MSL. Terrain beginning 56' from DER, 132' left of centerline, up to 3111' MSL. Bush 236' from DER, 30' left of centerline, 6' AGL/3013' MSL. Vehicle on road, 2017' from DER, 973' left of centerline, 17' AGL/3066' MSL. **Rwy 30**, trees beginning 64' from DER, 354' left of centerline, up to 6' AGL/2995' MSL.

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TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)


TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND


DIVERSE VECTOR AREA (RADAR VECTORS)

16315

FREDERICKSBURG, TX

GILLESPIE COUNTY (T82)

TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES

AMDT 1 05020 (FAA)

DEPARTURE PROCEDURE: **Rwy 14**, climb via
heading 139° to 2400 before proceeding on course.**Rwy 32**, climb via heading 319° to 2400 before
proceeding on course.**GEORGE WEST, TX**

LIVE OAK COUNTY (8T6)

TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES

ORIG-A 16175 (FAA)

TAKEOFF MINIMUMS: **Rwy 31**, 700-3 or std. with a
min. climb of 230' per NM to 1000.DEPARTURE PROCEDURE: **Rwy 13**, climb runway
heading to 600 before turning right.NOTE: **Rwy 13**, Trees and poles beginning 20' from
DER, left and right of centerline, up to 37' AGL/157'
MSL. Vehicles on road starting 200' from DER, 431'
left of centerline, up to 15' AGL/138' MSL. Trees 815'
from DER, 613' right of centerline, 48' AGL/168' MSL.
Rwy 31, Building, trees and poles beginning 57' from
DER, 484' right of centerline, up to 40' AGL/163' MSL.
Vehicles on road starting 85' from DER, left and right of
centerline, up to 15' AGL/143' MSL. Trees and poles
beginning 365' from DER, 401' left of centerline, 50'
AGL/180' MSL.**GEORGETOWN, TX**

GEORGETOWN MUNI (GTU)

TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES

AMDT 1 15064 (FAA)

TAKEOFF MINIMUMS: **Rwy 18**, 200-1¼ or std. w/min.
climb of 244' per NM to 1000.NOTE: **Rwy 11**, trees beginning 11' from DER, 136' right
of centerline, up to 39' AGL/796' MSL. Trees beginning
489' from DER, 226' left of centerline, up to 42' AGL/791'
MSL. Buildings and poles beginning 183' from DER, 424'
left of centerline, 30' AGL/789' MSL. Transmission
towers, telephone lines with catenary balls 2019' from
DER, crossing centerline, up to 97' AGL/837' MSL. **Rwy 18**,
trees beginning 31' from DER, 38' left of centerline,
up to 33' AGL/792' MSL. Trees beginning 176' from
DER, 19' right of centerline, up to 43' AGL/792' MSL.
Antenna 6012' from DER, 1158' right of centerline, 163'
AGL/932' MSL. Transmission tower 3137' from DER,
1036' left of centerline, 90' AGL/835' MSL. Poles
beginning 1194' from DER, crossing centerline, up to 48'
AGL/785' MSL. Terrain 73' from DER, 246' left of
centerline, 751' MSL. REIL 36' from DER, 124' left of
centerline, 1' AGL/750' MSL. **Rwy 29**, trees beginning
204' from DER, 78' left of centerline, up to 37' AGL/789'
MSL. Trees beginning 103' from DER, 22' right of
centerline, up to 35' AGL/844' MSL. Poles beginning 765'
from DER, crossing centerline, up to 45' AGL/844' MSL.
Bushes beginning 9' from DER, 117' left of centerline, up
to 3' AGL/792' MSL. Bush 216' from DER, 350' right of
centerline, 3' AGL/796' MSL. **Rwy 36**, trees beginning
144' from DER, 301' left of centerline, up to 38' AGL/837'
MSL. Trees beginning 284' from DER, 423' right of
centerline, up to 45' AGL/823' MSL. Bush 73' from DER,
67' left of centerline, 4' AGL/791' MSL. Bush 68' from
DER, 135' right of centerline, 4' AGL/788' MSL. Building
71' from DER, 513' right of centerline, 18' AGL/789' MSL.
Antenna 104' from DER, 492' right of centerline, 21'
AGL/810' MSL. Pole 269' from DER, 565' left of
centerline, 35' AGL/828' MSL. Poles beginning 929' from
DER, 440' left of centerline, up to 47' AGL/820' MSL.**HAMILTON, TX**

HAMILTON MUNI (MNZ)

TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES

ORIG 09351 (FAA)

NOTE: **Rwy 18**, tree 689' from DER, 211' left of
centerline, 40' AGL/1346' MSL. Vehicle on North-South
road 849' from DER, on extended centerline, 15'
AGL/1321' MSL. **Rwy 36**, trees beginning 621' from
DER, 186' left of centerline, 40' AGL/1359' MSL. Trees
879' from DER, 87' right of centerline, 40' AGL/1359'
MSL.

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

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TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND


DIVERSE VECTOR AREA (RADAR VECTORS)

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

16315

HARLINGEN, TX

VALLEY INTL (HRL)

TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES

ORIG 03303 (FAA)

NOTE: **Rwy 13**, pole 1031' from DER, 465' left of centerline, 38' AGL/68' MSL. Pole 1055' from DER, 475' left of centerline, 38' AGL/68' MSL. **Rwy 17R**, fence 24' from DER, 499' right of centerline, 8' AGL/41' MSL. **Rwy 17L**, road (non-interstate) 416' from DER, on runway centerline, 20' AGL/51' MSL. Road (non-interstate) 410' from DER, 520' left of centerline, 20' AGL/50' MSL. **Rwy 31**, tree 983' from DER, 462' left of centerline, 42' AGL/69' MSL.

HEBBRONVILLE, TX

JIM HOGG COUNTY (HBV)

TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES

ORIG 10210 (FAA)

NOTE: **Rwy 13**, trees beginning 7' from DER, 59' left of centerline, up to 25' AGL/694' MSL. **Rwy 31**, trees beginning 112' from DER, 274' right of centerline to 438' left of centerline, up to 12' AGL/681' MSL. Pole 801' from DER, 374' right of centerline, up to 26' AGL/685' MSL. NDB 275' from DER, 495' left of centerline, up to 33' AGL/692' MSL. Vehicle on road 399' from DER, left and right of centerline, up to 15' AGL/674' MSL.

HONDO, TX

SOUTH TEXAS RGNL AT HONDO (HDO)

TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES

ORIG-A 11209 (FAA)

TAKEOFF MINIMUMS: **Rwys 4, 22**, NA-Environmental. NOTE: **Rwy 8**, trees 407' from DER, 243' left of centerline, 30' AGL/959' MSL. **Rwy 17L**, vehicles on road 488' from DER, 131' right of centerline, 15' AGL/925' MSL. **Rwy 17R**, sand storage domes beginning 3653' from DER, 838' right of centerline, up to 115' AGL/1023' MSL. **Rwy 35R**, vehicles on road 161' from DER, 172' left of centerline, 15' AGL/943' MSL. Multiple trees beginning 636' from DER, 354' right of centerline, up to 26' AGL/955' MSL. Vehicles on road beginning 490' from DER, 122' right of centerline, 15' AGL/943' MSL. **Rwy 26**, trees 1022' from DER, 241' right of centerline, 30' AGL/959' MSL. **Rwy 13**, trees 726' from DER, 250' left of centerline, 30' AGL/939' MSL.

HOOD AAF (KHLR)

FORT HOOD (KILLEEN), TX

TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES

AMDT 2, 09351

TAKEOFF MINIMUMS: **Rwy 16, 34** Standard*
* For Copter use only.

JUNCTION, TX

KIMBLE COUNTY (JCT)

TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES

AMDT 2 11125 (FAA)

TAKEOFF MINIMUMS: **Rwys 8, 26**, NA - Environmental. **Rwy17**, std. w/min. climb of 340' per NM to 2300 or 1300 -3 for climb in visual conditions. **Rwy 35**, std. w/min. climb of 565' per NM to 2200 or 400-3 with minimum climb of 230' per NM to 2500, or 1300-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 17**, climb heading 172° to 2800 before proceeding on course, for climb in visual conditions cross Kimble County Airport at or above 2900 before proceeding on course. **Rwy 35**, for climb in visual conditions cross Kimble County Airport at or above 2900 before proceeding on course.

NOTE: **Rwy 17**, trees beginning abeam DER, 297' right of centerline, up to 50' AGL/1749' MSL. Power lines beginning 229' from DER, 370' right of centerline, up to 75' AGL/1744' MSL. Vehicles on road beginning 390' from DER, left and right of centerline, up to 17' AGL/1716' MSL. Trees beginning 1548' from DER, left and right of centerline, up to 50' AGL/2049' MSL. Radio towers beginning 4568' from DER, 736' left of centerline, up to 169' AGL/1854' MSL. **Rwy 35**, power lines beginning abeam DER, 545' left of centerline, up to 75' AGL/1854' MSL. Power lines abeam DER, 561' right of centerline, up to 75' AGL/1854' MSL. Vehicles on road beginning 1121' from DER, left and right of centerline, up to 15' AGL/1794' MSL. Trees beginning 1254' from DER, left and right of centerline, up to 50' AGL/2129' MSL.

KELLY FLD (KSKF)

SAN ANTONIO, TX

TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES

ORIG, 15288

TAKEOFF OBSTACLES: **Rwy 33**, trees 50' AGL/743' MSL, 1763' from DER, 919' left of centerline.

KENEDY, TX

KARNES COUNTY (2R9)

TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES

AMDT 1 11293 (FAA)

TAKEOFF MINIMUMS: **Rwy 34**, 400-2 or std. w/min. climb of 359' per NM to 900.

DEPARTURE PROCEDURE: **Rwy 34**, climb heading 344° to 900 before turning left.

NOTE: **Rwy 16**, trees beginning 85' from DER, 245' left of centerline, up to 35' AGL/304' MSL. Trees beginning 98' from DER, 206' right of centerline, up to 35' AGL/304' MSL. **Rwy 34**, trees beginning 321' from DER, 245' right of centerline, up to 35' AGL/318' MSL. Tower 1.4 NM from DER, 2809' left of centerline, 238' AGL/628' MSL.

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

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TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

**TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND
DIVERSE VECTOR AREA (RADAR VECTORS)**

16315

KERRVILLE, TX

KERRVILLE MUNI /LOUIS SCHREINER
FIELD (ERV)

TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 1 11013 (FAA)

TAKEOFF MINIMUMS: **Rwy 3**, std. w/ min. climb of 377' per NM to 2800 or 1000-3 for climb in visual conditions. **Rwy 30**, std. w/ min. climb of 216' per NM to 2500 or 1000-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 3, 30**, for climb in visual conditions: cross Kerrville Muni/Louis Schreiner Field at or above 2600' MSL before proceeding on course.

NOTE: **Rwy 3**, trees and pole beginning 203' from DER, 46' left of centerline, up to 31' AGL/1692' MSL. Trees, poles, T-L towers beginning 136' from DER, 11' right of centerline, up to 30' AGL/1927' MSL. **Rwy 12**, terrain 62' from DER, 79' right of centerline, 1592' MSL. Terrain 66' from DER, 322' left of centerline, 1602' MSL. Tree 94' from DER, 321' right of centerline, 24' AGL/1597' MSL. Vehicle on road 211' from DER, 430' left of centerline, up to 15' AGL/1608' MSL. Terrain 267' from DER, 494' left of centerline, 1605' MSL. Tree 340' from DER, 472' right of centerline, 37' AGL/1609' MSL. Terrain 1065' from DER, 778' left of centerline, 1618' MSL. Tree 1663' from DER, 718' left of centerline, 41' AGL/1644' MSL. **Rwy 21**, trees, fence, and poles beginning 4' from DER, 239' right of centerline, up to 46' AGL/1608' MSL. Terrain 58' from DER, 18' right of centerline, 1588' MSL. Terrain 169' from DER, 368' left of centerline, 1588' MSL. Terrain 202' from DER, 239' right of centerline, 1585' MSL. Terrain 423' from DER, 533' left of centerline, 1595' MSL. Tree 1082' from DER, 166' left of centerline, 42' AGL/1610' MSL. **Rwy 30**, trees and poles beginning 248' from DER, 121' left of centerline, up to 61' AGL/1611' MSL. Trees, antennas, and poles beginning 275' from DER, 266' right of centerline, up to 42' AGL/1615' MSL.

KILLEEN, TX

SKYLARK FIELD (ILE)

TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 2 09015 (FAA)

DEPARTURE PROCEDURE: **Rwy 19**, climb heading 190° to 1900 before turning east.

NOTE: **Rwy 1**, multiple poles beginning 317' from DER, 384' left of centerline, up to 27' AGL/868' MSL. Tree, 973' from DER, 100' left of centerline, 28' AGL/876' MSL. Building, 486' from DER, 9' right of centerline, 13' AGL/854' MSL. Antenna, 351' from DER, 277' right of centerline, 11' AGL/852' MSL. **Rwy 19**, pole, 288' from DER, 588' right of centerline, 32' AGL/880' MSL. Building, 102' from DER, 411' right of centerline, 8' AGL/856' MSL. Vehicle on road, 232' from DER, 499' right of centerline, 15' AGL/867' MSL. Pole, 256' from DER, 497' left of centerline, 32' AGL/873' MSL. Building, 276' from DER, 342' left of centerline, 11' AGL/859' MSL. Building, 298' from DER, 83' left of centerline, 9' AGL/857' MSL.

KINGSVILLE, TX

KLEBERG COUNTY (IKG)

TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
ORIG 10210 (FAA)

NOTE: **Rwy 13**, trees beginning 528' from DER, 515' right of centerline, up to 35' AGL/154' MSL. Trees beginning 775' from DER, 554' left of centerline, up to 35' AGL/159' MSL. **Rwy 31**, trees beginning 184' from DER, 358' right of centerline, up to 28' AGL/153' MSL.

LAGO VISTA, TX

LAGO VISTA TX-RUSTY ALLEN (RYW)

TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 1 15064 (FAA)

NOTE: **Rwy 15**, trees beginning 18' from DER, 468' left of centerline, up to 33' AGL/1232' MSL. Buildings beginning 5' from DER, 157' right of centerline, 25' AGL/1225' MSL. Building 160' from DER, 248' left of centerline, 20' AGL/1224' MSL. **Rwy 33**, trees beginning 44' from DER, 132' left of centerline, up to 27' AGL/1266' MSL. Trees beginning 604' from DER, 148' left of centerline, up to 33' AGL/1272' MSL. Trees beginning 14' from DER 159' right of centerline, up to 20' AGL/1259' MSL. Trees beginning 494' from DER, 395' right of centerline, up to 31' AGL/1270' MSL. Vertical structures beginning 272' from DER, 66' left of centerline, up to 5' AGL/1240' MSL.

LAKEWAY, TX

LAKEWAY AIRPARK (3R9)

TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 3 15064 (FAA)

TAKEOFF MINIMUMS: **Rwy 16**, 500-2¾ or std. w/min. climb of 265' per NM to 1500.

DEPARTURE PROCEDURE: **Rwy 16**, climb heading 165° to 1700 before proceeding on course.

NOTE: **Rwy 16**, trees on rising terrain beginning 26' from DER, 161' right of centerline, up to 50' AGL/975' MSL. Building 38' from DER, 229' right of centerline, 50' AGL/989' MSL. Tree 194' from DER, 221' left of centerline, 50' AGL/943' MSL. Building and trees beginning 534' from DER, 165' left of centerline, 40' AGL/941' MSL. Power lines with catenary markers beginning 776' from DER, crossing centerline, up to 80' AGL/999' MSL. Tower 2.1 NM from DER, 1314' right of centerline, 195' AGL/1326' MSL. **Rwy 34**, trees beginning abeam DER, right of centerline, up to 50' AGL/931' MSL. Trees and buildings beginning abeam DER, 161' left of centerline, up to 50' AGL/965' MSL. Trees and buildings on rising terrain beginning 3405' from DER, crossing centerline, up to 50' AGL/1009' MSL.

LAMPASAS, TX

LAMPASAS (LZZ)

TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
ORIG 09351 (FAA)

NOTE: **Rwy 16**, building 39' from DER, 374' left of centerline, 20' AGL/1189' MSL. Trees beginning 795' from DER, 217' right of centerline, up to 30' AGL/1189' MSL. **Rwy 34**, trees beginning 657' from DER, 147' left of centerline, up to 30' AGL/1249' MSL.

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**TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND
DIVERSE VECTOR AREA (RADAR VECTORS)**


TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND


DIVERSE VECTOR AREA (RADAR VECTORS)

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LAREDO, TX**LAREDO INTL (LRD)**
**TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES**

AMDT 4 11293 (FAA)

DEPARTURE PROCEDURE: **Rwy 14**, climb heading 139° to 1000 before turning right. **Rwy 17L**, climb heading 160° to 1200 before turning right. **Rwy 17R**, climb heading 160° to 1300 before turning right. **Rwy 32**, climb heading 319° to 1200 before turning left. **Rwys 35L, 35R**, climb heading 355° to 1000 before turning left.

NOTE: **Rwy 14**, trees beginning 135' from DER, 298' left of centerline, up to 59' AGL/ 519' MSL. Sign 226' from DER, 244' left of centerline, 14' AGL/ 474' MSL. **Rwy 17L**, terrain beginning 48' from DER, 333' right of centerline, up to 478' MSL. **Rwy 17R**, terrain beginning 4' from DER, 219' right of centerline, up to 489' MSL. Light poles beginning 894' from DER, 344' right of centerline, up to 41' AGL/ 511' MSL. **Rwy 32**, aircraft on taxiway beginning 50' from DER, 367' left of centerline, up to 75' AGL/ 584' MSL. Trees beginning 768' from DER, 584' left of centerline, up to 59' AGL/ 559' MSL. Trees beginning 88' from DER, 275' right of centerline, up to 59' AGL/ 559' MSL. **Rwy 35L, MALSR** 5' from DER, on centerline, 5' AGL/ 505' MSL. Navaid 10' from DER, on centerline, 5' AGL/ 505' MSL. Antenna on building 81' from DER, 404' left of centerline, 30' AGL/ 520' MSL. **Rwy 35R**, terrain beginning 19' from DER, 191' left of centerline, up to 500' MSL. Terrain beginning 176' from DER, 489' right of centerline, up to 512' MSL.

LAUGHLIN AFB (KDLF),**DEL RIO, TX**
**TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES**

12348

TAKE-OFF OBSTACLES: **Rwy 13C**, Taxiing aircraft 14' AGL/1079' MSL, 197' from DER, 222' right of centerline. **Rwy 13L**, Taxiing aircraft 14' AGL/1076' MSL, 9' from DER, 204' right of centerline. **Rwy 13R**, Taxiing aircraft 38' AGL/1108' MSL, 1159' from DER, 175' left of centerline. Taxiing aircraft 14' AGL/1090' MSL, 14' from DER, 202' left of centerline. Taxiing aircraft 14' AGL/1090' MSL, 65' from DER, 301' left of centerline. Taxiing aircraft 14' AGL/1093' MSL, 524' from DER, 605' right of centerline. Taxiing aircraft 14' AGL/1093' MSL, 1163' from DER, 599' right of centerline. **Rwy 31C**, Vehicular traffic 10' AGL/1092' MSL, 16' from DER, 466' right of centerline. **Rwy 31L**, Taxiing aircraft 14' AGL/1091' MSL, 196' from DER, 174' right of centerline. Vehicular traffic 10' AGL/1088' MSL, 861' from DER, 549' left of centerline. Taxiing aircraft 14' AGL/1094' MSL, 329' from DER, 329' right of centerline. Taxiing aircraft 14' AGL/1089' MSL, 177' from DER, 170' left of centerline. Pole 8' AGL/1084' MSL, 228' from DER, 567' left of centerline. Pole 8' AGL/1083' MSL, 397' from DER, 625' left of centerline. Pole 8' AGL/1084' MSL, 344' from DER, 682' left of centerline. **Rwy 31R**, Terrain 1082' MSL, 0' from DER, 500' left of centerline. Terrain 1083' MSL, 141' from DER, 516' left of centerline. Terrain 1083' MSL, 173' from DER, 546' left of centerline. Vehicular traffic 10' AGL/1092' MSL, 609' from DER, 534' left of centerline. Terrain 1085' MSL, 115' from DER, 521' right of centerline. Terrain 1083' MSL, 72' from DER, 449' right of centerline. Taxiing aircraft 14' AGL/ 1090' MSL, 6' from DER, 174' left of centerline. Railroad 23' AGL/1102' MSL, 1423' from DER, 469' right of centerline. Windsock 26' AGL/1101' MSL, 19' from DER, 496' left of centerline. Railroad 23' AGL/1102' MSL, 1239' from DER, 869' left of centerline.

LLANO, TX**LLANO MUNI (AQO)**
**TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES**

ORIG 09351 (FAA)

TAKEOFF MINIMUMS: **Rwys 13, 31**, NA-Environmental. DEPARTURE PROCEDURE: **Rwy 35**, climb heading 354° to 1900 before proceeding on course.

NOTE: **Rwy 17**, tree 11' from DER, 364' left of centerline, 25' AGL/1144' MSL. Trees 811' from DER, 242' left of centerline, 25' AGL/1124' MSL. **Rwy 35**, hangar 209' from DER, 497' right of centerline, 30' AGL/1149' MSL. Tree 485' from DER, 265' right of centerline, 25' AGL/1144' MSL. Vehicles on North-South road, 270' left of centerline, 15' AGL/1114' MSL. Vehicles on road 390' from DER, crosses centerline East-West, 15' AGL/1134' MSL.

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TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

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LOCKHART, TX

LOCKHART MUNI (50R)

TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
ORIG 11237 (FAA)

TAKEOFF MINIMUMS: **Rwy 36**, 400-3 or std. w/min.
climb of 275' per NM to 1200.

DEPARTURE PROCEDURE: **Rwy 36**, climb heading
355° to 1200 before turning.

NOTE: **Rwy 18**, trees beginning 47' from DER, 267' left
of centerline, up to 65' AGL/555' MSL. Trees beginning
245' from DER, 13' right of centerline, up to 42'
AGL/541' MSL. **Rwy 36**, bush 51' from DER, 305' right
of centerline, 8' AGL/568' MSL. Pole 1298' from DER,
561' right of centerline, 38' AGL/568' MSL. Tower 2.2
NM from DER, 2536' right of centerline, 378' AGL/918'
MSL.

MARFA, TX

MARFA MUNI (MRF)

TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 1 11013 (FAA)

TAKEOFF MINIMUMS: CAUTION: Unmarked balloon
and cable to 14000' MSL in R-6318. **Rwys 8, 26**, NA-
Environmental.

DEPARTURE PROCEDURE: **Rwy 4**, climbing right turn
direct MRF VOR/DME, thence...

Rwy 13, climb direct MRF VOR/DME, thence...

Rwys 22, 31, climbing left turn direct MRF VOR/DME,
thence... ..All aircraft climb in MRF holding pattern
(Hold SE, left turns, 313° inbound) to cross MRF VOR/
DME at or above MEA for direction of flight.

NOTE: **Rwy 4**, trees beginning 899' from DER, 310' left
of centerline, up to 50' AGL/4929' MSL. Vehicles on
road beginning 176' from DER, 175' left of centerline,
up to 15' AGL/4874' MSL. **Rwy 13**, vehicles on road
beginning 544' from DER, left and right of centerline,
up to 15' AGL/4854' MSL. **Rwy 22**, building and
greenhouses beginning 28' from DER, 493' left of
centerline, up to 35' AGL/4864' MSL.

MASON, TX

MASON COUNTY (T92)

TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 1A 15092 (FAA)

TAKEOFF MINIMUMS: **Rwys 13, 31**, NA. **Rwy 36**, 300
-1 or std. w/ min. climb of 299' per NM to 1800.

DEPARTURE PROCEDURE: **Rwy 18**, climb heading
181° to 2100' before turning right.

NOTE: **Rwy 18**, terrain beginning 163' from DER, 185'
right of centerline, up to 1520' MSL. **Rwy 36**, terrain
beginning 361' from DER, 6' left of centerline, up to
1533' MSL. TL tower 3061' from DER, 1185' left of
centerline, 95' AGL/ 1628' MSL. Multiple TL towers
beginning 3940' from DER, 194' left of centerline, 85'
AGL/ 1636' MSL. Multiple TL towers beginning 4427'
from DER, 304' right of centerline, 90' AGL/ 1667'
MSL.

MC ALLEN, TX

MC ALLEN MILLER INTL (MFE)

TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 2 15344 (FAA)

TAKEOFF MINIMUMS: **Rwy 36**, 300-1½, or std. w/min.
climb of 296' per NM to 500'.

NOTE: **Rwy 14**, trees beginning 792' from DER, 593' left
of centerline, up to 44' AGL/139' MSL. **Rwy 32**, trees
and poles beginning 709' from DER, 362' left of
centerline, up to 52' AGL/157' MSL. Tree 1019' from
DER, 627' right of centerline, 42' AGL/142' MSL.

Rwy 36, pole 581' from DER, on centerline, 19' AGL/122'
MSL. Tower 198' from DER, 335' left of centerline, 38'
AGL/140' MSL. Buildings and trees beginning 652' from
DER, 36' left of centerline, up to 50' AGL/155' MSL.
Towers, poles and buildings beginning 635' from DER,
25' right of centerline, up to 62' AGL/166' MSL. Buildings
2016' from DER, 860' right of centerline, 89' AGL/197'
MSL. Buildings 1.29 NM from DER, 243' right of
centerline, 263' AGL/394' MSL.

MIDLAND, TX

MIDLAND AIRPARK (MDD)

TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 3 10294 (FAA)

TAKEOFF MINIMUMS: **Rwy 16**, 400-2½ or std. w/ min.
climb of 211' per NM to 3300, or alternatively,
with standard takeoff minimums and a normal 200' per NM
climb gradient, takeoff must occur no later than 1700'
prior to DER. **Rwy 25**, 300-2 or standard with minimum
climb of 208' per NM to 3100, or alternatively,
with standard takeoff minimums and a normal 200' per NM
climb gradient, takeoff must occur no later than 1300'
prior to DER.

NOTE: **Rwy 7**, multiple light poles beginning 317' from
DER, 245' left of centerline, up to 52' AGL/2863' MSL.
Vehicle on road 88' from DER, 444' left of centerline, 17'
AGL/2820' MSL. Tree 174' from DER, 360' left of
centerline 60' AGL/2801' MSL. Bush 218' from DER, 442'
right of centerline, up to 12' AGL/2797' MSL. **Rwy 16**,
multiple trees and poles beginning 196' from DER, 291'
right of centerline, up to 52' AGL/2842' MSL. Trees
beginning 857' from DER, 228' left of centerline, up to 60'
AGL/2842' MSL. Building 2.1 NM from DER, 3680' left of
centerline, 354' AGL/3134' MSL. Bush 37' from DER,
491' right of centerline, up to 12' AGL/2803' MSL.

Rwy 25, multiple light poles beginning 151' from DER,
12' right of centerline up to 52' AGL/2876' MSL. Trees
beginning 1192' from DER, 41' right of centerline up to
60' AGL/2846' MSL. Multiple buildings beginning 1417'
from DER, 433' left of centerline, 40' AGL/2851' MSL.
Vehicle on road 203' from DER, 347' right of centerline,
17' AGL/2835' MSL. Sign 1202' from DER, 206' left of
centerline 35' AGL/2835' MSL. **Rwy 34**, Trees
beginning 839' from DER, 329' right of centerline, up to
60' AGL/2850' MSL. Light pole 635' from DER, 611' right
of centerline 52' AGL/2843' MSL. Vehicle on road 572'
from DER, 424' left of centerline 17' AGL/2833' MSL.

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TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

61315

MIDLAND, TX (CON'T)

MIDLAND INTL (MAF)

TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 1 12264 (FAA)

TAKEOFF MINIMUMS: **Rwy 34L**, 300-1½ or std. w/min. climb of 400' per NM to 3200. **Rwy 34R**, 300-1¼ or std. w/min. climb of 320' per NM to 3200.

NOTE: **Rwy 4**, trees beginning 24' from DER, 34' right of centerline, up to 40' AGL/2903' MSL. Rods, towers, and domes beginning 1231' from DER, 442' left of centerline, up to 108' AGL/2963' MSL. **Rwy 10**, rods, antennas, and lights beginning 72' from DER, 40' right of centerline, up to 20' AGL/2874' MSL. Trees, poles, and signs beginning 1296' from DER, 457' left of centerline, up to 40' AGL/2913' MSL. **Rwy 16L**, signs and poles beginning 94' from DER, 20' left of centerline, up to 30' AGL/2877' MSL. Railroad beginning 530' from DER, 17' left of centerline, 23' AGL/2869' MSL. Vehicles on road beginning 301' from DER, 268' left of centerline, 17' AGL/2862' MSL. **Rwy 16R**, pole 1794' from DER, 975' right of centerline, 55' AGL/2906' MSL. **Rwy 22**, tower, poles, lights, and antenna beginning 111' from DER, 66' right of centerline, up to 102' AGL/2986' MSL. Hangars 1112' from DER, 600' right of centerline, 55' AGL/2906' MSL. Tower, poles, and sign beginning 83' from DER, 62' left of centerline, up to 120' AGL/2971' MSL. **Rwy 34L**, drilling rigs beginning 201' from DER, 178' right of centerline, up to 165' AGL/3037' MSL. Drilling rigs beginning 3228' from DER, 769' left of centerline, 165' AGL/3056' MSL. **Rwy 34R**, vehicles on road beginning 256' from DER, 10' right of centerline, up to 17' AGL/2881' MSL. Trees and bushes beginning 171' from DER, 80' right of centerline, up to 40' AGL/2878' MSL. Poles and fence beginning 28' from DER, 109' right of centerline, up to 38' AGL/2903' MSL. Fence beginning 83' from DER, 271' left of centerline, 8' AGL/2872' MSL. Windmill, poles and trees beginning 1239' from DER, 116' left of centerline, up to 66' AGL/2913' MSL. Drilling rig 5540' from DER, 267' left of centerline, 165' AGL/3025' MSL.

MONAHANS, TX

ROY HURD MEMORIAL (E01)

TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 1 12152 (FAA)

TAKEOFF MINIMUMS: **Rwy 1**, 400-1½ or std. w/min. climb of 434' per NM to 3100. **Rwy 12**, 300-1 or std. w/min. climb of 552' per NM to 2900.

NOTE: **Rwy 1**, vehicles on road, trees, and power line and poles beginning 185' from DER, left and right of centerline, up to 40' AGL/2649' MSL. Tower 1.2 NM from DER, 211' right of centerline, 303' AGL/2928' MSL. **Rwy 12**, bush 75' from DER, 479' left of centerline, 12' AGL/2617' MSL. Trees and a pole beginning 778' from DER, 23' right of centerline, up to 31' AGL/2641' MSL. Trees beginning 1041' from DER, 29' left of centerline, up to 42' AGL/2652' MSL. Tower 2283' from DER, 909' left of centerline, 130' AGL/2744' MSL. **Rwy 19**, vehicle on road 215' from DER, 457' right of centerline, 15' AGL/2624' MSL. **Rwy 30**, fence, railroad, poles, and trees beginning 56' from DER, 106' right of centerline, up to 44' AGL/2649' MSL. Vehicle on road, light pole, building, and poles beginning 294' from DER, 41' left of centerline, up to 50' AGL/2655' MSL.

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TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

NEW BRAUNFELS, TX

NEW BRAUNFELS RGNL (BAZ)

TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 1 15176 (FAA)

NOTE: **Rwy 13**, poles beginning 1236' from DER, 277' right of centerline, up to 40' AGL/678' MSL. Poles beginning 1238' from DER, 557' left of centerline, up to 41' AGL/677' MSL. Trees beginning 1339' from DER, 211' right of centerline, up to 55' AGL/690' MSL. **Rwy 35**, airport visual aid 56' from DER, 25' right of centerline, 3' AGL/649' MSL.

ODESSA, TX

ODESSA-SCHLEMEYER FIELD (ODO)

TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 3 12208 (FAA)

TAKEOFF MINIMUMS: **Rwy 20**, 300-2½ or std. w/min. climb of 225' per NM to 3400, or alternatively, with standard takeoff minimum and a normal 200' per NM climb gradient, takeoff must occur no later than 2100' prior to DER.

NOTE: **Rwy 2**, Vehicles on roadway 184' from DER left and right of centerline, up to 13' AGL/3013' MSL. **Rwy 16**, Building 466' from DER, 487' left of centerline, 50' AGL/3029' MSL. Power lines 960' from DER left and right of centerline, 30' AGL/2988' MSL. **Rwy 20**, Tower 2 NM from DER, 1311' left of centerline, 340' AGL/3287' MSL. **Rwy 29**, Rising terrain, trees and poles beginning 8' from DER, 495' right of centerline, up to 27' AGL/3012' MSL. **Rwy 34**, Vehicles on roadway beginning 48' from DER, left and right of centerline, up to 16' AGL/3001' MSL. Hangars 739' from DER, 628' left of centerline, 25' AGL/3012' MSL. Antenna 1104' from DER, 185' right of centerline, 45' AGL/3032' MSL.

OZONA, TX

OZONA MUNI (OZA)

TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 1 03191 (FAA)

TAKEOFF MINIMUMS: **Rwy 16**, 300-1 or std. with a min. climb of 445' per NM to 2700. **Rwy 34**, 200-1½ or std. with a min. climb of 380' per NM to 2600.

NOTE: **Rwy 16**, trees 3686' from DER, 354' left of centerline, 100' AGL/2560' MSL. Trees 4436' from DER, 355' left of centerline, 100' AGL/2574' MSL. **Rwy 34**, trees 1363' from DER, 638' left of centerline, 100' AGL/2529' MSL. Trees 3479' from DER, 791' left of centerline, 100' AGL/2535' MSL. Trees 7679' from DER, 932' left of centerline, 100' AGL/2593' MSL.

PEARSALL, TX

MC KINLEY FIELD (T30)

TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
ORIG 11321 (FAA)

NOTE: **Rwy 13**, trees beginning abeam DER, 300' left of centerline, up to 40' AGL/605' MSL. Transmission lines beginning 1777' from DER, across centerline, up to 80' AGL/642' MSL. **Rwy 31**, train on track 496' from DER, across centerline, 23' AGL/610' MSL. Vehicle on road 291' from DER, across centerline, 15' AGL/602' MSL.

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PECOS, TX

PECOS MUNI (PEQ)

TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
ORIG 12264 (FAA)

NOTE: **Rwy 14**, bush 170' from DER, 252' right of centerline, up to 7' AGL/2607' MSL. **Rwy 32**, bush 129' from DER, 348' left of centerline, up to 9' AGL/2614' MSL.

PLEASANTON, TX

PLEASANTON MUNI (PEZ)

TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 1 08325 (FAA)

NOTE: **Rwy 16**, vehicle on road 108' from DER, 285' left of centerline, 15' AGL/424' MSL. Fence 135' from DER, 194' left of centerline, 3' AGL/412' MSL. Fence 235' from DER, 38' right of centerline, 3' AGL/412' MSL. Trees beginning 246' from DER, 56' left of centerline, up to 100' AGL/529' MSL. Trees beginning 173' from DER, 154' right of centerline, up to 100' AGL/529' MSL. **Rwy 34**, vehicle on road 136' from DER, left to right of centerline, up to 15' AGL/444' MSL. Fence 191' from DER, 251' left of centerline, 3' AGL/442' MSL. Trees beginning 210' from DER, 51' left of centerline, up to 100' AGL/539' MSL. Tree 172' from DER, 74' right of centerline, 100' AGL/529' MSL.

PORT ARANSAS, TX

MUSTANG BEACH (RAS)

TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 1 09015 (FAA)

NOTE: **Rwy 12**, transmission towers and poles beginning 43' from DER, 28' right of centerline, up to 81' AGL/86' MSL. Building 2435' from DER, 967' right of centerline, 130' AGL/135' MSL. Transmission towers and poles beginning 1141' from DER, 13' left of centerline, up to 83' AGL/88' MSL. **Rwy 30**, boat 1657' from DER, 915' left of centerline, 50' AGL/50' MSL.

PORT ISABEL, TX

PORT ISABEL-CAMERON COUNTY (PIL)

TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 2A 16231 (FAA)

TAKEOFF MINIMUMS: **Rwy 17**, 400-2 or std. with a min. climb of 260' per NM to 500.

NOTE: **Rwy 3**, trees beginning 178' from DER, 27' left of centerline, up to 100' AGL/114' MSL. **Rwy 8**, trees beginning 2046' from DER, 511' right of centerline, up to 100' AGL/119' MSL. Trees beginning 1981' from DER, 118' right of centerline, up to 100' AGL/119' MSL. **Rwy 13**, trees beginning 530' from DER, 32' left of centerline, up to 100' AGL/119' MSL. **Rwy 17**, trees beginning 911' from DER, 84' left of centerline, up to 100' AGL/119' MSL. Tower 1.7 NM from DER, 470' right of centerline, 277' AGL/292' MSL. **Rwy 35**, trees beginning 15' from DER, 4' left of centerline, up to 100' AGL/114' MSL.

PRESIDIO, TX

PRESIDIO LELY INTL (PRS)

TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
ORIG 14093 (FAA)

TAKEOFF MINIMUMS: **Rwy 17**, std. w/min. climb of 230' per NM to 5600, or 1900-3 for climb in visual conditions.

Rwy 35, std. w/min. climb of 280' per NM to 5700, or 1900-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 17**, climbing left turn to 9000 on heading 045° and MRF VOR/DME R-185 to MRF VOR/DME, or for climb in visual conditions, cross Presidio Lely Intl airport at or above 4700, then climb to 9000 on heading 021° and MRF VOR/DME R-197 to MRF VOR/DME. When executing VCOA, notify ATC prior to departure. **Rwy 35**, climbing right turn to 9000 on heading 065° and MRF VOR/DME R-190 to MRF VOR/DME, or for climb in visual conditions, cross Presidio Lely Intl airport at or above 4700, then climb to 9000 on heading 021° and MRF VOR/DME R-197 to MRF VOR/DME. When executing VCOA, notify ATC prior to departure.

NOTE: **Rwy 17**, brush abeam DER, left and right of centerline, up to 10' AGL/2929' MSL. Power line 990' from DER, 762' left of centerline, 86' AGL/3005' MSL. Vehicles on road, 990' from DER, 762' left of centerline, 17' AGL/2936' MSL. **Rwy 35**, brush abeam DER, left and right of centerline, up to 10' AGL/3089' MSL. Powerlines beginning 2978' from DER, 749' right of centerline, up to 86' AGL/3205' MSL. Vehicles on road, 2978' from DER, 1291' right of centerline, up to 17' AGL/3016' MSL.

ROBSTOWN, TX

NUCES COUNTY (RBO)

TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 1 12264 (FAA)

TAKEOFF MINIMUMS: **Rwy 13**, std. w/min. climb of 264' per NM to 1400 or 1400-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 13**, climb heading 129° to 1400 before turning eastbound or northbound. For climb in visual conditions, cross Nueces County airport at or above 1300' MSL before proceeding on course. When executing VCOA, notify ATC prior to departure. **Rwy 31**, climb heading 309° to 700 before turning southeast bound.

NOTE: **Rwy 13**, tower 4.8 NM from DER, 5070' right of centerline, 989' AGL/1049' MSL. Poles beginning 1005' from DER, 347' right of centerline, up to 42' AGL/116' MSL. Poles, vehicles on road, post, transmission tower and grain bin/silo beginning at DER, 69' left of centerline, up to 62' AGL/136' MSL. **Rwy 31**, vehicles on road and pole beginning 2' from DER, 250' right of centerline, 15' AGL/93' MSL.

ROCKPORT, TX

ARANSAS COUNTY (RKP)

TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
ORIG 07074 (FAA)

NOTE: **Rwy 14**, road plus vehicle 500' from DER, 593' left of centerline, 17' AGL/40' MSL. **Rwy 18**, antenna 5599' from DER, 602' left of centerline, 160' AGL/171' MSL.

Rwy 32, road plus vehicle 291' from DER, 533' left of centerline, 17' AGL/40' MSL. **Rwy 36**, road plus vehicle 576' from DER, 597' left of centerline, 17' AGL/40' MSL.

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TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

ROCKSPRINGS, TX

EDWARDS COUNTY (ECU)

TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
ORIG 06271 (FAA)

NOTE: **Rwy 14**, multiple trees beginning 1076' from DER, 22' right of centerline, up to 100' AGL/2459' MSL. **Rwy 32**, fence 101' from DER, 35' left of centerline, 5' AGL/2374' MSL. Multiple trees beginning 318' from DER, 71' left of centerline, up to 100' AGL/2479' MSL. Multiple trees beginning 992' from DER, 532' right of centerline, up to 100' AGL/2479' MSL.

SAN ANGELO, TX

SAN ANGELO RGNL/MATHIS FIELD (SJT)

TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 1 10238 (FAA)

DEPARTURE PROCEDURE: **Rwy 27**, climb to 2500 before turning right. **Rwy 36**, climb to 2600 before turning left.

NOTE: **Rwy 3**, fence 8' from DER, 490' right of centerline, 3' AGL/1896' MSL. **Rwy 18**, multiple trees and poles beginning 112' from DER, 183' left of centerline, up to 43' AGL/1962' MSL. Multiple trees and poles beginning 1076' from DER, 114' right of centerline, up to 47' AGL/1966' MSL. Catenary 1779' from DER, 457' right of centerline, 45' AGL/1964' MSL. **Rwy 27**, multiple trees beginning 482' from DER, 74' left of centerline, up to 24' AGL/1933' MSL. Light pole 1040' from DER, 252' left of centerline, 22' AGL/1931' MSL. Tree 538' from DER, 226' right of centerline, 21' AGL/1930' MSL.

SAN ANTONIO, TX

BOERNE STAGE FIELD (5C1)

TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
ORIG 07018 (FAA)

DEPARTURE PROCEDURE: **Rwy 35**, climb heading 346° to 2800 before turning westbound.

NOTE: **Rwy 17**, multiple trees and light poles along tree line beginning 6' from DER, 128' right of centerline, up to 50' AGL/1427' MSL. Multiple trees and light poles along tree line beginning 81' from DER, 144' left of centerline, up to 50' AGL/1409' MSL. **Rwy 35**, multiple trees and poles beginning 204' from DER, 7' left of centerline, up to 50' AGL/1422' MSL. Multiple trees and poles beginning 205' from DER, 24' right of centerline, up to 50' AGL/1423' MSL. Hangar 80' from DER, 222' right of centerline, up to 50' AGL/1397' MSL.

SAN ANTONIO, TX (CON'T)

SAN ANTONIO INTL (SAT)

TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 1 12320 (FAA)

NOTE: **Rwy 12R**, antenna on RTR tower, 1034' from DER, 723' right of centerline, 42' AGL/820' MSL. Building 3801' from DER, 1488' right of centerline, 177' AGL/881' MSL. **Rwy 22**, antenna on hanger and flagpole, 1198' from DER, 700' right of centerline, 39' AGL/825' MSL. Poles beginning 2209' from DER, 1041' right of centerline, up to 23' AGL/869' MSL. Sign 2713' from DER, 1034' right of centerline, 71' AGL/857' MSL. **Rwy 30L**, pole 1931' from DER, 911' left of centerline, 42' AGL/867' MSL. Poles beginning 2356' from DER, 913' left of centerline, up to 42' AGL/892' MSL. Sign 2435' from DER, 1032' right of centerline, 42' AGL/873' MSL. Tower 2766' from DER, 834' left of centerline, 54' AGL/891' MSL. **Rwy 30R**, rod on OL GS 1261' from DER, 591' left of centerline, 57' AGL/854' MSL.

STINSON MUNI (SSF)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

AMDT 2 08045 (FAA)

TAKEOFF MINIMUMS: **Rwy 9**, Std. w/ min climb of 225' per NM to 1900 or 1000-2% for climb in visual conditions. **Rwy 27**, 300-1¼ or std. w/ min. climb of 221' per NM to 900, or alternatively, with standard takeoff minimums and normal 200' per NM climb gradient, takeoff must occur no later than 1700' prior to DER.

DEPARTURE PROCEDURE: **Rwy 9**, For climb in visual conditions, cross Stinson Muni Airport at or above 1400 MSL before proceeding on course. **Rwy 14**, Climb heading 137° to 1200 before turning left. **Rwy 32**, Climb heading 317° to 1500 before turning right.

NOTES: **Rwy 9**, Vehicle on road 285' from DER, 380' left of centerline, 15' AGL/584' MSL. Trees beginning 1653' from DER, 435' right of centerline, up to 70' AGL/629' MSL. **Rwy 14**, Vehicle on road 114' from DER, on centerline extending 373' left of centerline, up to 15' AGL/564' MSL. Trees beginning 72' from DER, 79' right of centerline, up to 70' AGL/607' MSL. Trees beginning 232' from DER, 54' left of centerline, up to 70' AGL/618' MSL. Transmission line tower 4205' from DER, 133' right of centerline, 119' AGL/663' MSL. **Rwy 27**, Fence 41' from DER, 30' right of centerline, 8' AGL/584' MSL. Vehicle on road 108' from DER, 202' right of centerline, 15' AGL/584' MSL. Vehicle on road 123' from DER, 113' right of centerline, 15' AGL/596' MSL. Trees and poles beginning 229' from DER, 117' right of centerline, up to 70' AGL/645' MSL. Trees and poles beginning 599' from DER, 6' left of centerline, up to 70' AGL/634' MSL. Tank beginning 1.32 NM from DER, 1338' right of centerline, 179' AGL/799' MSL. Building 1422' from DER, 432' right of centerline, 40' AGL/627' MSL. Building 2133' from DER, 36' left of centerline, 55' AGL/635' MSL. **Rwy 32**, Fence 17' from DER, 80' left of centerline, 8' AGL/578' MSL. Vehicle on road 54' from DER, 199' left of centerline, 15' AGL/586' MSL. Trees beginning 164' from DER, 125' right of centerline, up to 70' AGL/639' MSL. Trees and poles beginning 43' from DER, 41' left of centerline, up to 75' AGL/668' MSL.

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**TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND
DIVERSE VECTOR AREA (RADAR VECTORS)**

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SINTON, TX

ALFRED C. BUBBA THOMAS (T69)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES

ORIG-A 14317 (FAA)

TAKEOFF MINIMUMS: **Rwys 3, 21**, NA-Environmental.

DEPARTURE PROCEDURE: **Rwy 14**, climb runway heading to 800 prior to turning east.

NOTE: **Rwy 32**, vehicle on road 29' from DER, 308' right of centerline, 15' AGL/64' MSL.

SONORA, TX

SONORA MUNI (SOA)

TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES

AMDT 2 15232 (FAA)

TAKEOFF MINIMUMS: **Rwy 18**, 300-1 or std. w/min. climb gradient of 553' per NM to 2400.

DEPARTURE PROCEDURE: **Rwy 18**, climb heading 182° to 2900 before turning left.

NOTE: **Rwy 18**, buildings beginning 683' from DER, left and right of centerline, up to 27' AGL/2163' MSL.

Trees and terrain beginning 2233' from DER, 686' right of centerline, up to 50' AGL/2309' MSL. Tower 4860' from DER, 1458' right of centerline, 75' AGL/2287' MSL.

Rwy 36, fence beginning 2' from DER, left and right of centerline, up to 5' AGL/2144' MSL. Vehicles on road beginning 8' from DER, left and right of centerline, up to 10' AGL/2149' MSL. Tree 65' from DER, 462' right of centerline, 48' AGL/2178' MSL. Tree 247' from DER, 337' left of centerline, 47' AGL/2187' MSL. Trees beginning 278' from DER, 439' right of centerline, up to 27' AGL/2157' MSL. Tree 759' from DER, 508' left of centerline, 15' AGL/2195' MSL. Trees and terrain beginning 981' from DER, 258' left of centerline, up to 39' AGL/2269' MSL.

TAYLOR, TX

TAYLOR MUNI (T74)

TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES

AMDT 1 15064 (FAA)

NOTE: **Rwy 17**, Transmission line towers beginning 2213' from DER, crossing centerline, up to 110' AGL/661' MSL. **Rwy 35**, vehicle on road 773' from DER, crossing centerline, 15' AGL/645' MSL. Pole 829' from DER, 448' left of centerline, 28' AGL/642' MSL. Tree 1129' from DER, 415' right of centerline, 20' AGL/639' MSL. Poles beginning 1150' from DER, 475' right of centerline, up to 30' AGL/644' MSL.

TEMPLE, TX

DRAUGHON-MILLER CENTRAL TEXAS
RGNL (TPL)

TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES

AMDT 4 10266 (FAA)

DEPARTURE PROCEDURE: **Rwy 2**, climb on heading between 085° CW to 200° from DER, or climb on heading between 200° CW to 345° from DER to 3600 before proceeding on course or minimum climb of 250' per NM to 3200 for all other courses. **Rwy 33**, climb on heading between 070° CW to 155° from DER, or climb on heading between 155° CW to 330° from DER to 3600 before proceeding on course or minimum climb of 240' per NM to 3200 for all other courses.

NOTE: **Rwy 2**, tree 279' from DER, 362' right of centerline, 11' AGL/680' MSL. Bushes and tree beginning 176' from DER, 416' left of centerline, up to 30' AGL/699' MSL. **Rwy 15**, bush 60' from DER, 210' left of centerline, 11' AGL/680' MSL. **Rwy 20**, hangars beginning 548' from DER, 571' right of centerline, up to 18' AGL/697' MSL. **Rwy 33**, trees beginning 307' from DER, 474' right of centerline, up to 32' AGL/701' MSL.

UVALDE, TX

GARNER FIELD (UVA)

TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES

ORIG 11125 (FAA)

NOTE: **Rwy 15**, trees and poles beginning 70' from DER, 374' left of centerline, up to 100' AGL/1039' MSL. Trees and poles beginning 208' from DER, 359' right of centerline, up to 100' AGL/1059' MSL. **Rwy 33**, vehicle on roadway 622' from DER, left and right of centerline, up to 15' AGL/966' MSL. Trees beginning 744' from DER, 636' left of centerline, up to 100' AGL/1059' MSL. Trees beginning 861' from DER, 269' right of centerline, up to 100' AGL/1049' MSL.

VAN HORN, TX

CULBERSON COUNTY (VHN)

TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES

TAKEOFF MINIMUMS: **Rwys 17, 21**, 2100-2 or std. with a min. climb of 500' per NM to 5000. **Rwy 25**, NA.

DEPARTURE PROCEDURE: **Rwys 3, 17, 21, 35**, climb runway heading to 5000 then climbing right turn direct VHN NDB and climb in VHN NDB holding pattern to MEA, before proceeding on course. **Rwy 7**, climb runway heading to 5000 then climbing left turn direct VHN NDB and climb in VHN NDB holding pattern to MEA, before proceeding on course.

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**TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND
DIVERSE VECTOR AREA (RADAR VECTORS)**

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

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WACO, TX

MC GREGOR EXECUTIVE (PWG)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES

AMDT 2 90347 (FAA)

TAKEOFF MINIMUMS: **Rwys 4, 17, 22, 35**, 2000-3 or std. with a min. climb of 280' per NM to 3000.

DEPARTURE PROCEDURE: **Rwys 17, 22**, climb via ACT R-195 to 3000 before proceeding on course.

Rwys 4, 35, climb runway heading to 3000 before proceeding on course.

TSTC-WACO (CNW)

TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES

ORIG 08269 (FAA)

NOTE: **Rwy 17L**, terrain 198' from DER, 467' right of centerline, 464' MSL. **Rwy 17R**, vehicle on road 137' from DER, 487' right of centerline, 15' AGL/474' MSL. Trees beginning 872' from DER, 238' right of centerline, up to 100' AGL/529' MSL. Trees beginning 1239' from DER, 74' left of centerline, up to 100' AGL/512' MSL. **Rwy 35L**, trees beginning 3386' from DER, 529' left of centerline, up to 100' AGL/579' MSL. **Rwy 35R**, trees beginning 2606' from DER, 1042' right of centerline, up to 100' AGL/579' MSL. Tree 2094' from DER, 910' left of centerline, 45' AGL/524' MSL.

WACO RGNL (ACT)

TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES

ORIG 10266 (FAA)

NOTE: **Rwy 1**, rising terrain beginning 11' from DER, 34' right of centerline, up to 504' MSL. Pole 1170' from DER, 593' left of centerline, 34' AGL/534' MSL. Tree 1674' from DER, 794' right of centerline, 80' AGL/581' MSL. **Rwy 19**, rod 590' from DER, 257' right of centerline, 40' AGL/524' MSL. **Rwy 32**, trees beginning 501' from DER, 17' left of centerline, up to 70' AGL/562' MSL. Trees beginning 836' from DER, 30' right of centerline, up to 80' AGL/609' MSL.

WESLACO, TX

MID VALLEY (T65)

TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES

ORIG 12068 (FAA)

DEPARTURE PROCEDURE: **Rwy 13**, climbing left turn heading 006° to intercept MFE R-075 to 1800 before proceeding on course.

NOTE: **Rwy 13**, vehicles on roadway beginning 7' from DER, left and right of centerline, up to 15' AGL/89' MSL. Flaggpole 107' from DER, 424' left of centerline, 21' AGL/89' MSL. Multiple trees, poles and buildings beginning 200' from DER, 261' left of centerline, up to 44' AGL/111' MSL. Multiple trees and poles beginning 490' from DER, 269' right of centerline, up to 39' AGL/108' MSL. Tower 511' from DER, 635' left of centerline, 60' AGL/131' MSL. Catenaries beginning 1260' from DER, 337' right of centerline, up to 38' AGL/107' MSL. Trees beginning 3649' from DER, 1278' left of centerline, up to 100' AGL/169' MSL. **Rwy 31**, Vehicles on roadway beginning 335' from DER, 233' right of centerline, up to 15' AGL/84' MSL. Catenary 381' from DER, 527' right of centerline, 25' AGL/92' MSL. Poles beginning 420' from DER, 388' right of centerline, up to 26' AGL/93' MSL. Pole 1114' from DER, 525' left of centerline, 33' AGL/100' MSL. Catenary 1211' from DER, 651' left of centerline, 36' AGL/102' MSL. Trees beginning 1350' from DER, 440' right of centerline, up to 100' AGL/169' MSL. Trees beginning 1078' from DER, 448' left of centerline, up to 36' AGL/100' MSL.

WINK, TX

WINKLER COUNTY (INK)

TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES

ORIG-A 11069 (FAA)

DEPARTURE PROCEDURE: **Rwy 13**, climb heading 147° to 3400 before proceeding on course.

NOTE: **Rwy 4**, power lines beginning 524' from DER, right and left of centerline, up to 30' AGL/2829' MSL. Trees beginning 742' from DER, right and left of centerline, up to 50' AGL/2859' MSL. **Rwy 13**, trees beginning 133' from DER, 307' right of centerline, up to 50' AGL/2822' MSL. Vehicles on road beginning 535' from DER, right and left of centerline, up to 15' AGL/2829' MSL. **Rwy 31**, trees beginning 49' from DER, 396' left of centerline, up to 50' AGL/2832' MSL. Trees beginning 1563' from DER, 585' right of centerline, up to 50' AGL/2874' MSL.

WINTERS, TX

WINTERS MUNI (77F)

TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES

ORIG 11237 (FAA)

NOTE: **Rwy 17**, multiple trees and fence beginning 428' from DER, 45' left of centerline, up to 25' AGL/1914' MSL. Multiple trees and terrain beginning 110' from DER, 188' right of centerline, up to 12' AGL/1895' MSL.

YOAKUM, TX

YOAKUM MUNI (T85)

TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES

ORIG 11069 (FAA)

NOTE: **Rwy 13**, vehicle on road, 179' from DER, 237' left of centerline, up to 15' AGL/364' MSL. **Rwy 31**, vehicle on road, 77' from DER, 257' right of centerline, up to 15' AGL/384' MSL.

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TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)



INSTRUMENT APPROACH PROCEDURE CHARTS



IFR ALTERNATE AIRPORT MINIMUMS

Standard alternate minimums for non-precision approaches and approaches with vertical guidance [NDB, VOR, LOC, TACAN, LDA, SDF, VOR/DME, ASR, RNAV (GPS) or RNAV (RNP)] are 800-2. Standard alternate minimums for precision approaches (ILS, PAR, or GLS) are 600-2. Airports within this geographical area that require alternate minimums other than standard or alternate minimums with restrictions are listed below. NA - means alternate minimums are not authorized due to unmonitored facility, absence of weather reporting service, or lack of adequate navigation coverage. Civil pilots see FAR 91. IFR Alternate Minimums: Ceiling and Visibility Minimums not applicable to USA/USN/USAF. Pilots must review the IFR Alternate Minimums Notes for alternate airfield suitability.

NAME ALTERNATE MINIMUMS

ALICE, TX

ALICE INTL (ALI)LOC/DME Rwy 31¹
RNAV (GPS) Rwy 13¹
RNAV (GPS) Rwy 31¹
VOR-A²

¹NA when local weather not available.
²Categories A, B, 900-2; Category C, 900-2½, Category D, 900-3.

ALPINE, TX

ALPINE-CASPARIS
RGNL (E38)..... RNAV (GPS) Rwy 19
NA when local weather not available.
Category C, 1500-3

AUSTIN, TX

AUSTIN
EXECUTIVE (EDC) RNAV (GPS) Rwy 13
RNAV (GPS) Rwy 31
NA when local weather not available.

AUSTIN-BERGSTROM

INTL (AUS)..... ILS or LOC Rwy 17L¹
ILS or LOC Rwy 17R¹
ILS or LOC Rwy 35L¹
ILS or LOC Rwy 35R¹
RNAV (GPS) Y Rwy 17L²
RNAV (GPS) Y Rwy 17R²
RNAV (GPS) Y Rwy 35L²
RNAV (GPS) Y Rwy 35R²

¹ILS, Category E, 700-2½. LOC, Category E, 800-2½.
²Category E, 1000-3.

NAME ALTERNATE MINIMUMS

AUSTIN, TX (CON'T)

SAN MARCOS
REGIONAL (HYI)RNAV (GPS) Rwy 8
RNAV (GPS) Rwy 13
RNAV (GPS) Rwy 17
RNAV (GPS) Rwy 26
RNAV (GPS) Rwy 31
RNAV (GPS) Rwy 35

NA when local weather not available.
Category D, 800-2¼; Category E, 800-2¾.

BRADY, TX

CURTIS FIELD (BBD).....RNAV (GPS) Rwy 17
RNAV (GPS) Rwy 35
NA when local weather not available.

BROWNSVILLE, TX

BROWNSVILLE/SOUTH PADRE ISLAND
INTL (BRO)..... ILS or LOC Rwy 13¹²
LOC BC Rwy 31¹
RNAV (GPS) Rwy 13
RNAV (GPS) Rwy 18

NA when local weather not available.
¹NA when control tower closed.
²ILS, Category D, 700-2.

BROWNWOOD, TX

BROWNWOOD
RGNL (BWD)RNAV (GPS) Rwy 17
RNAV (GPS) Rwy 35
NA when local weather not available.

BURNET, TX

BURNET MUNI/KATE CRADDOCK
FIELD (BMQ)RNAV (GPS) Rwy 1
RNAV (GPS) Rwy 19
NA when local weather not available.
Category C, 800-2¼.

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ALTERNATE MINS

M5



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NAME	ALTERNATE MINIMUMS	NAME	ALTERNATE MINIMUMS
WACO, TX (CON'T)			
TSTC WACO (CNW)	NDB Rwy 35R¹		
	RNAV (GPS) Rwy 17L		
	RNAV (GPS) Rwy 35R		
	NA when local weather not available.		
	¹ NA when control tower closed.		
WACO RGNL (ACT)	ILS or LOC Rwy 19¹		
	RNAV (GPS) Rwy 1		
	RNAV (GPS) Rwy 14		
	RNAV (GPS) Rwy 19		
	RNAV (GPS) Rwy 32		
	VOR/DME Rwy 32		
	NA when local weather not available.		
	¹ NA when control tower closed.		
WINK, TX			
WINKLER			
COUNTY (INK)	RNAV (GPS) Rwy 13¹		
	RNAV (GPS) Rwy 31¹		
	VOR Rwy 13		
	NA when local weather not available.		
	¹ Category C, 800-2¼.		

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ALTERNATE MINS

M5

SC-3



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RADAR MINS

16315

RADAR INSTRUMENT APPROACH MINIMUMS

BIGGS AAF (KBIF), TX (Fort Bliss) (Amdt 6A, 15288 USA)

ELEV 3948

RADAR - 124.15 307.0 ▾ ▲ NA

	<u>RWY</u>	<u>GS/TCH/RPI</u>	<u>CAT</u>	<u>DH/</u>	<u>HAT/</u>	<u>CEIL-VIS</u>
				<u>MDA-VIS</u>	<u>HAA</u>	
ASR ¹	21		AB	4360 -½	412	(500-½)
			CD	4360 -¾	412	(500-¾)
			E	4360 -1	412	(500-1)
CIR ²	21		AB	4400 -1	452	(500-1)
			C	4400 -1½	452	(500-1½)
			DE	4500 -2	552	(600-2)

CAUTION: Steeply rising terrain exceeding 7100 ft 4 miles W of airport.

¹When ALSF inop, increase CAT E visibility to 1½.²CAT E circling W of Rwy 3-21 not authorized.**CORPUS CHRISTI NAS (KNGP)**, (TRUAX FIELD) TX (16315 USN)

ELEV 19

RADAR - (E) 6835 124.65 270.8 284.6 337.2 354.8 ▾

	<u>RWY</u>	<u>GS/TCH/RPI</u>	<u>CAT</u>	<u>DH/</u>	<u>HAT/</u>	<u>CEIL-VIS</u>
				<u>MDA-VIS</u>	<u>HAA</u>	
PAR ¹	13R ²	3.0°/41/781	ABCDE	110 -¼	100	(100-¼)
	31L	3.0°/43/820	ABCDE	117 -½	100	(100-½)
	35	3.0°/45/835	ABCDE	117 -½	105	(100-½)
	17	3.0°/39/700	ABCDE	131 -½	118	(200-½)
PAR W/O GS ¹	17		ABCDE	300 -1¼	287	(300-1¼)
	13R ³		ABCDE	360 -1	350	(400-1)
	31L		ABCDE	420 -1¼	403	(500-1¼)
	35		ABCDE	440 -1¼	423	(500-1¼)
PAR W/O GS SIDESTEP ^{1 5}	13L		ABCDE	360 -1¾	347	(400-1¾)
	31R		ABCDE	400 -1¼	382	(400-1¼)
ASR	13L		ABCDE	380 -1	367	(400-1)
	13R ⁴		AB	440 -¾	430	(500-¾)
			CDE	440 -1	430	(500-1)
	17		ABCDE	360 -1	347	(400-1)
	31R		AB	500 -1	482	(500-1)
			CDE	500 -1¾	482	(500-1¾)
	31L		AB	500 -1	483	(500-1)
			CDE	500 -1¾	483	(500-1¾)
	35		AB	500 -1	483	(500-1)
			CDE	500 -1¾	483	(500-1¾)
	4		AB	500 -1	483	(500-1)
			CDE	500 -1¾	483	(500-1¾)
	CIR ⁶	ALL RWYS		A	500 -1	481	(500-1)
B				500 -1¼	481	(500-1¼)
C				540 -1½	521	(600-1½)
D				620 -2	601	(700-2)
E				620 -2¼	601	(700-2¼)

(CONTINUED ON NEXT PAGE)

SC-3

RADAR INSTRUMENT APPROACH MINIMUMS

RADAR MINS

16315

RADAR MINS

16315

RADAR INSTRUMENT APPROACH MINIMUMS

CORPUS CHRISTI NAS (KNGP) (CON'T) (TRUAX FIELD) TX

¹No-NOTAM MP: PAR Mon 1300-1800Z++.

²When ALS inop, increase vis CAT ABCDE to ½ mile.

³When ALS inop, increase vis CAT ABCDE to 1¼ miles.

⁴When ALS inop, increase vis CAT AB to 1 mile, CAT CDE to 1¼ miles.

⁵Circling fr Sidestep NA. Sidestep NA prior to 2 miles fr touchdown.

⁶Circling authorized only from ASR and PAR W/O GS. When circling from PAR W/O GS increase CAT A vis to 1¼ miles.

EL PASO, TX

Amdt 15A, 03APR14 (14317) (FAA)

ELEV 3962

EL PASO INTL (ELP)

RADAR-1 124.25 298.85

	<u>RWY</u>	<u>GP/TCH/RPI</u>	<u>CAT</u>	<u>DA/</u> <u>MDA-VIS</u>	<u>HAT/</u> <u>HATH/</u> <u>HAA</u>	<u>CEIL-VIS</u>	<u>CAT</u>	<u>DA/</u> <u>MDA-VIS</u>	<u>HAT/</u> <u>HATH/</u> <u>HAA</u>	<u>CEIL-VIS</u>
ASR	22		AB	4320/24	371	(400-½)	CDE	4320/35	371	(400-¾)
	26L		ABCDE	4400-¾	438	(500-¾)				
	4		AB	4400/55	483	(500-1¼)	CDE	4400-1%	483	(500-1¾)
CIRCLING ALL RWY			A	4420-1	458	(500-1)	B	4460-1	498	(500-1)
			C	4460-1½	498	(500-1½)	D	4540-2	578	(600-2)
			E	4660-2½	698	(700-2½)				

Circling NA for CATS D and E west of Rwy 4-22.

For inoperative MALSR, increase S-22 CAT C/D/E visibility to RVR 5500; increase S-26L CAT A/B visibility to 1 mile and CAT E visibility to 1¼ miles.

CAUTION: Steeply rising terrain 4.5 NM west of airport.

FORT HOOD/KILLEEN, TX

Orig, 12JAN12 (14317) (FAA)

ELEV 1015

ROBERT GRAY AAF (GRK)

RADAR-1 - 120.075 323.15 NA

	<u>RWY</u>	<u>GP/TCH/RPI</u>	<u>CAT</u>	<u>DA/</u> <u>MDA-VIS</u>	<u>HAT/</u> <u>HATH/</u> <u>HAA</u>	<u>CEIL-VIS</u>	<u>CAT</u>	<u>DA/</u> <u>MDA-VIS</u>	<u>HAT/</u> <u>HATH/</u> <u>HAA</u>	<u>CEIL-VIS</u>
ASR	33		AB	1460-½	486	(500-½)	CDE	1460-1	486	(500-1)
	15		AB	1520/24	505	(600-½)	CDE	1520/55	505	(600-1¼)
CIRCLING ALL RWY			AB	1520-1	505	(600-1)	C	1560-1½	545	(600-1½)
			D	1580-2	565	(600-2)	E	1740-2½	725	(800-2½)

Circling NA west of Rwy 15-33.

For inoperative MALSR, increase ASR 15 and ASR 33 CATS C,D, and E visibility to 1% mile.

SC-3

RADAR INSTRUMENT APPROACH MINIMUMS

RADAR MINS

16315

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

RADAR MINS

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RADAR INSTRUMENT APPROACH MINIMUMS

FORT HOOD/KILLEEN, TX Orig, 12JAN12 (14317) (FAA)
ROBERT GRAY AAF (GRK)

ELEV 1015

RADAR-2 - 120.075 323.15 NA

PAR	<u>RWY</u>	<u>GS/TCH/RPI</u>	<u>CAT</u>	<u>DA/</u> <u>MDA-VIS</u>	<u>HAT/</u> <u>HATh/</u> <u>HAA</u>	<u>CEIL-VIS</u>
	15	3.00°/51/1062	ABCDE	1215 /24	200	(200-½)
33	3.00°/53/973	ABCDE	1187 -½	213	(300-½)	

PAR 15-VGSI and PAR glidepath not coincident.

For inoperative MALSR, increase PAR 15 CAT E visibility to RVR 4000 and PAR 33 CAT E visibility to ¼ mile.

KINGSVILLE NAS (KNQI), TX (14317 USN)

ELEV 50

RADAR¹ - (E) 128.45x 300.4x 305.2x 310.8x 322.0x 325.2x 358.0x 363.6x 384.4x

PAR ⁶	<u>RWY</u>	<u>GS/TCH/RPI</u>	<u>CAT</u>	<u>DH/</u> <u>MDA-VIS</u>	<u>HAT/</u> <u>HATh/</u> <u>HAA</u>	<u>CEIL-VIS</u>
	35R ²	3.0°/32/614	ABCDE	147 -¼	100	(100-¼)
13L	3.0°/34/631	ABCDE	148 -½	100	(100-½)	
13R	3.0°/31/610	ABCDE	150 -½	100	(100-½)	
17L	3.0°/32/596	ABCDE	148 -½	100	(100-½)	
17R	3.0°/34/640	ABCDE	148 -½	100	(100-½)	
31L	3.0°/32/583	ABCDE	141 -½	100	(100-½)	
31R	3.0°/36/671	ABCDE	137 -½	100	(100-½)	
PAR W/O GS ⁶	35R ³		ABCDE	340 -¾	293	(300-¾)
17L		ABCDE	320 -1¼	272	(300-1¼)	
17R		ABCDE	320 -1¼	272	(300-1¼)	
31L		ABCDE	320 -1¼	279	(300-1¼)	
31R		ABCDE	320 -1¼	283	(300-1¼)	
13L		ABCDE	460 -1¼	412	(500-1¼)	
13R		ABCDE	460 -1¼	410	(500-1¼)	
ASR	35R ⁴		AB	420 -½	373	(400-½)
			CDE	420 -¾	373	(400-¾)
17L		ABCDE	340 -1	292	(300-1)	
17R		ABCDE	400 -1	352	(400-1)	
31L		ABCDE	360 -1	319	(400-1)	
31R		ABCDE	360 -1	323	(400-1)	
35L		ABCDE	420 -1	372	(400-1)	
13L		AB	500 -1	452	(500-1)	
		CDE	500 -1¾	452	(500-1¾)	
13R		AB	460 -1	410	(500-1)	
		CDE	460 -1½	410	(500-1½)	
CIR ⁵	ALL RWYS	AB	520 -1¼	470	(500-1¼)	
		C	780 -2	730	(800-2)	
		D	780 -2¼	730	(800-2¼)	
		E	780 -2½	730	(800-2½)	

(CONTINUED ON NEXT PAGE)

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SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3

RADAR INSTRUMENT APPROACH MINIMUMS

RADAR MINS

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RADAR MINS

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RADAR INSTRUMENT APPROACH MINIMUMS

KINGSVILLE NAS (KNQI) (CON'T) TX

¹Use landing/taxi lights when conducting apch during VMC.

²When ALS inop, increase vis CAT ABCDE to ½ mile.

³When ALS inop, increase vis CAT ABCDE to 1¼ mile.

⁴When ALS inop, increase vis CAT ABCDE to 1 mile.

⁵Circling authorized only from PAR W/O GS and ASR.

⁶No NOTAM MP: PAR 1300-1700Z++Mon. Maint conducted next bus day if clsd on Mon.

MIDLAND, TX

Amdt 6, 20SEP12 (14317) (FAA)

ELEV 2872

MIDLAND INTL (MAF)

RADAR-1 124.6 290.4

	<u>RWY</u>	<u>GP/TCH/RPI</u>	<u>CAT</u>	<u>HAT/</u>		<u>DA/</u>		<u>HAT/</u>	
				<u>MDA-VIS</u>	<u>HAA</u>	<u>MDA-VIS</u>	<u>HAA</u>	<u>CEIL-VIS</u>	<u>CEIL-VIS</u>
ASR	28		AB	3280-¾	425 (500-¾)	CDE	3280-1	425 (500-1)	
	34L		AB	3320-1	469 (500-1)	CDE	3320-1½	469 (500-1½)	
	4		AB	3360-1	509 (500-1)	CDE	3360-1½	509 (500-1½)	
	16R		AB	3400-1	528 (600-1)	CDE	3400-1½	528 (600-1½)	
	10		AB	3480/24	611 (700-½)	CDE	3480-1½	611 (700-1½)	
	22		AB	3540-1	685 (700-1)	CDE	3540-2	685 (700-2)	
CIRCLING ALL RWY			AB	3540-1	668 (700-1)	CD	3540-2	668 (700-2)	
			E	3600-2½	728 (800-2½)				

For inoperative MALS, increase S-10 Cat C/D/E visibility to 1¼ mile.

For inoperative MALS, increase S-28 Cat E visibility to 1¼ mile.

Circling to Rwy 16L NA at night.

SAN ANGELO, TX

Amdt 1A, 29JUL10 (10210) (FAA)

ELEV 1917

SAN ANGELO RGNL/MATHIS FIELD (SJT)

RADAR-1 125.35 354.1

	<u>RWY</u>	<u>GP/TCH/RPI</u>	<u>CAT</u>	<u>HAT/</u>		<u>DA/</u>		<u>HAT/</u>	
				<u>MDA-VIS</u>	<u>HAA</u>	<u>MDA-VIS</u>	<u>HAA</u>	<u>CEIL-VIS</u>	<u>CEIL-VIS</u>
ASR	36		AB	2460-1	543 (600-1)	C	2460-1½	543 (600-1½)	
			D	2460-1¼	543 (600-1¼)	E	2460-2	543 (600-2)	
	18		AB	2480-1	573 (600-1)	C	2480-1½	573 (600-1½)	
			D	2480-1¼	573 (600-1¼)	E	2480-2	573 (600-2)	
CIRCLING ALL RWY			AB	2480-1	563 (600-1)	C	2480-1½	563 (600-1½)	
			D	2480-2	563 (600-2)	E	2640-2½	721 (800-2½)	

Category E circling NA west of runway 18-36.

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RADAR INSTRUMENT APPROACH MINIMUMS

RADAR MINS

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SC-3, 10 NOV 2016 to 05 JAN 2017

RADAR MINS

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RADAR INSTRUMENT APPROACH MINIMUMS

WACO, TX

Amdt 1A, 11FEB10 (10042) (FAA)

ELEV 592

MC GREGOR EXECUTIVE (PWG)

RADAR-1 127.65 352.0 ▽

	<u>RWY</u>	<u>GP/TCH/RPI</u>	<u>CAT</u>	<u>DA/</u> <u>MDA-VIS</u>	<u>HAT/</u> <u>HATH/</u> <u>HAA</u>	<u>CEIL-VIS</u>	<u>CAT</u>	<u>DA/</u> <u>MDA-VIS</u>	<u>HAT/</u> <u>HATH/</u> <u>HAA</u>	<u>CEIL-VIS</u>
ASR	17		AB	1020-1	430	(500-1)	C	1020-1¼	430	(500-1¼)
			D	NA						
CIRCLING ALL RWY			A	1040-1	448	(500-1)	B	1060-1	468	(500-1)
			C	1060-1½	468	(500-1½)	D	NA		

WACO, TX

Amdt 4, 11FEB10 (10042) (FAA)

ELEV 470

TSTC WACO (CNW)

RADAR-1 127.65 227.125 ▲

	<u>RWY</u>	<u>GP/TCH/RPI</u>	<u>CAT</u>	<u>DA/</u> <u>MDA-VIS</u>	<u>HAT/</u> <u>HATH/</u> <u>HAA</u>	<u>CEIL-VIS</u>	<u>CAT</u>	<u>DA/</u> <u>MDA-VIS</u>	<u>HAT/</u> <u>HATH/</u> <u>HAA</u>	<u>CEIL-VIS</u>
ASR	17L		AB	1080-½	611	(700-½)	C	1080-1¼	611	(700-1¼)
			D	1080-1½	611	(700-1½)				
CIRCLING ALL RWY			AB	1080-1	610	(700-1)	C	1080-1¾	610	(700-1¾)
			D	1080-2	610	(700-2)				

When Waco Regional approach control closed, ASR not authorized.

WACO, TX

Amdt 4, 23SEP10 (14317) (FAA)

ELEV 516

WACO RGNL (ACT)

RADAR-1 127.65 227.125 ▽

	<u>RWY</u>	<u>GP/TCH/RPI</u>	<u>CAT</u>	<u>DA/</u> <u>MDA-VIS</u>	<u>HAT/</u> <u>HATH/</u> <u>HAA</u>	<u>CEIL-VIS</u>	<u>CAT</u>	<u>DA/</u> <u>MDA-VIS</u>	<u>HAT/</u> <u>HATH/</u> <u>HAA</u>	<u>CEIL-VIS</u>
ASR	19		ABC	880/24	376	(400-½)	D	880/50	376	(400-1)
	1		ABC	860-1	351	(400-1)	D	860-1¼	351	(400-1¼)
	14		AB	920-1	407	(500-1)	CD	920-1¼	407	(500-1¼)
	32		AB	1020-1	504	(600-1)	CD	1020-1½	504	(600-1½)
CIRCLING ALL RWY			AB	1020-1	504	(600-1)	C	1020-1½	504	(600-1½)
			D	1080-2	564	(600-2)				

For inoperative MALSRL increase S-19 CAT D visibility to RVR 6000.

When control tower closed, ASR NA.

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RADAR INSTRUMENT APPROACH MINIMUMS

RADAR MINS

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LAND AND HOLD-SHORT OPERATIONS (LAHSO)

THERE ARE NO LAND AND HOLD
SHORT OPERATIONS (LAHSO)
FOR SC-3 VOLUME

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

14261

16147

HOT SPOTS

An "airport surface hot spot" is a location on an aerodrome movement area with a history or potential risk of collision or runway incursion, and where heightened attention by pilots/drivers is necessary.

A "hot spot" is a runway safety related problem area on an airport that presents increased risk during surface operations. Typically it is a complex or confusing taxiway/taxiway or taxiway/runway intersection. The area of increased risk has either a history of or potential for runway incursions or surface incidents, due to a variety of causes, such as but not limited to: airport layout, traffic flow, airport marking, signage and lighting, situational awareness, and training. Hot spots are depicted on airport diagrams as open circles or polygons designated as "HS 1", "HS 2", etc. and tabulated in the list below with a brief description of each hot spot. Hot spots will remain charted on airport diagrams until such time the increased risk has been reduced or eliminated.

CITY/AIRPORT	HOT SPOT	DESCRIPTION*
AUSTIN, TX AUSTIN-BERGSTROM INTL (AUS)	HS 1	E service road, Traffic on crossing Twy G and Twy H.
HARLINGEN, TX VALLEY INTL (HRL)	HS 1	Rwy 31 and Rwy 35R apch ends are closely aligned.
MIDLAND, TX MIDLAND INTL (MAF)	HS 1 HS 2 HS 3	Twy B and Twy P merge. Area not visible from twr. Area not visible from twr.
SAN ANTONIO, TX LACKLAND AFB (KELLY FLD ANNEX) (KSKF)	HS 1 HS 2	The unpaved portion of the north overrun. Int of Rwy 15-33, Twy D, and Twy G.
SAN ANTONIO INTL (SAT)	HS 1 HS 2 HS 3	Rwy 30L hold short line on Rwy 04. Twy G and Twy N in close proximity of Rwy 30L. Rwy 12R hold short line on Twy G.
SAN ANTONIO, TX STINSON MUNI (SSF)	HS 1	Area not visible from the twr.

*See appropriate Chart Supplement HOT SPOT table for additional information.

16147

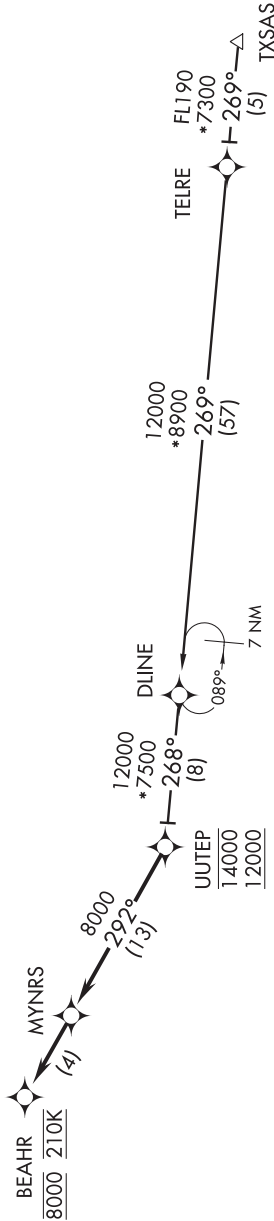
BEAHR THREE ARRIVAL (RNAV)

ST-134 (FAA)

EL PASO INTL (ELP)
EL PASO, TEXAS

EL PASO ATIS
120.0 254.3
EL PASO APP CON
124.25 298.85
ALBUQUERQUE CENTER
135.2 292.15

- NOTE: RADAR required.
- NOTE: RNAV 1.
- NOTE: DME/DME/IRU or GPS required.
- NOTE: Turbojet aircraft only.
- NOTE: Expect RNP approach or RADAR vectors to final approach course prior to BEAHR.



NOTE: Chart not to scale.

ARRIVAL ROUTE DESCRIPTION

TXSAS TRANSITION (TXSAS:BEAHR3)

From UUTEF on track 292° to MYNRS, then on track 292° to BEAHR, cross BEAHR at 8000 at 210K, expect RNAV (RNP) approach or RADAR vectors to final approach course.

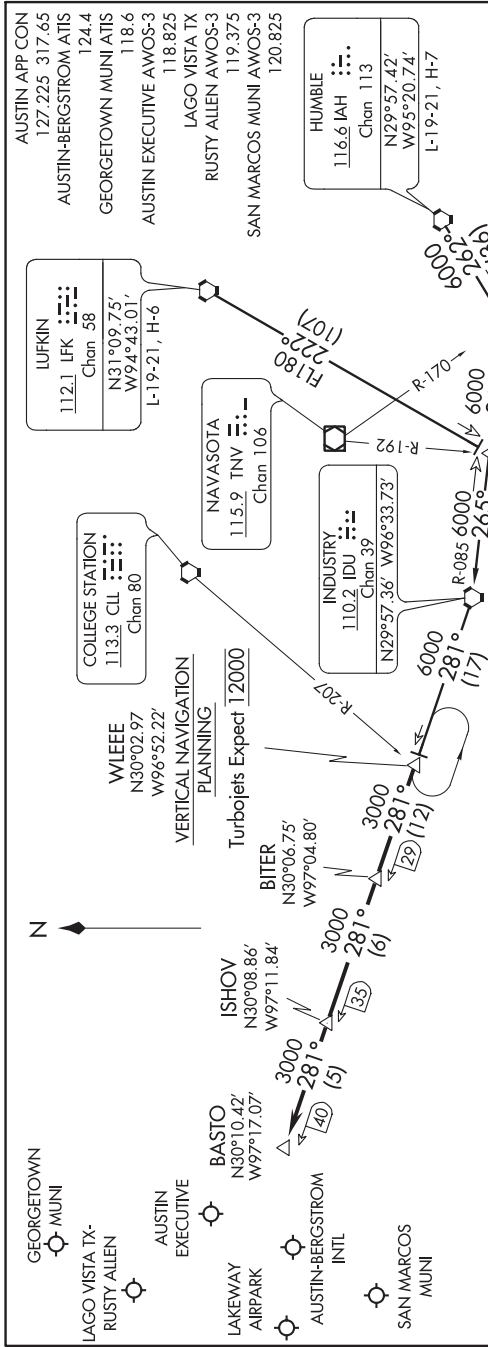
BEAHR THREE ARRIVAL (RNAV)

(BEAHR.BEAHR3) 14093

EL PASO, TEXAS
EL PASO INTL (ELP)

BITER SIX ARRIVAL

SC-3, 10 NOV 2016 to 05 JAN 2017



ARRIVAL ROUTE DESCRIPTION

HOBBY TRANSITION (HUB.BITER6): From over HUB VOR/DME on HUB R-284 to BOCCK INT, then on IDU R-085 to IDU VORTAC, then on IDU R-281 to WILEEE INT. Thence . . .

HUMBLE TRANSITION (IAH.BITER6): From over IAH VORTAC on IAH R-262 to SHYNR INT, then on IDU R-085 to IDU VORTAC, then on IDU R-281 to WILEEE INT. Thence . . .

LUFKIN TRANSITION (LKF.BITER6): From over LKF VORTAC on LKF R-223 to BOCCK INT, then on IDU R-085 to IDU VORTAC, then on IDU R-281 to WILEEE INT. Thence . . .

. . . . From WILEEE INT/IDU 17 DME on IDU R-281 to BASTO INT/IDU 40 DME. Expect RADAR vectors to the final approach course.

NOTE: RADAR Required.
 NOTE: DME Required.
 NOTE: For conventional navigation equipped aircraft only. DME/DME/IRU or GPS equipped aircraft file via the WILEEE (RNAV) STAR.

NOTE: Chart not to scale.

BITER SIX ARRIVAL

(BITER.BITER6) 10JAN13


SC-3, 10 NOV 2016 to 05 JAN 2017


(BLEWE.BLEWE3) 13010
BLEWE THREE ARRIVAL


Z3
 ST-556 (FAA)

AUSTIN, TEXAS

AUSTIN-BERGSTROM INTL ATIS
 124.4
 AUSTIN APP CON
 127.225 317.65

WACO
 115.3 ACT 
 Chan 100
 N31°39.74'-W97°16.14'
 L-19, H-6

MAVERICK
 113.1 TTT 
 Chan 78


GOOCH SPRINGS
 112.5 AGJ 
 Chan 72

WINDU
 N31°31.83'
 W97°04.95'
 L-19, H-6-7

BLEWE
 N31°12.46'
 W97°12.54'

SEWZY
 N30°48.80'
 W97°21.74'
 Expect 13000

NOTE: RADAR Required.
 NOTE: DME Required.

CENTEX
 112.8 CWK 
 Chan 75
 N30°22.71'-W97°31.79'

LAKEWAY AIRPARK

AUSTIN-BERGSTROM INTL

SAN MARCOS MUNI

NOTE: Chart not to scale.

ARRIVAL ROUTE DESCRIPTION

WACO TRANSITION (ACT.BLEWE3): From over ACT VORTAC on ACT R-165 to BLEWE INT. Thence . . .

WINDU TRANSITION (WINDU.BLEWE3): From over WINDU INT on CWK R-012 to BLEWE INT. Thence. . .

. . . From over BLEWE INT/CWK 52 DME on CWK R-012 to CWK VORTAC. Expect radar vectors to final approach.

BLEWE THREE ARRIVAL
(BLEWE.BLEWE3) 13010

AUSTIN, TEXAS

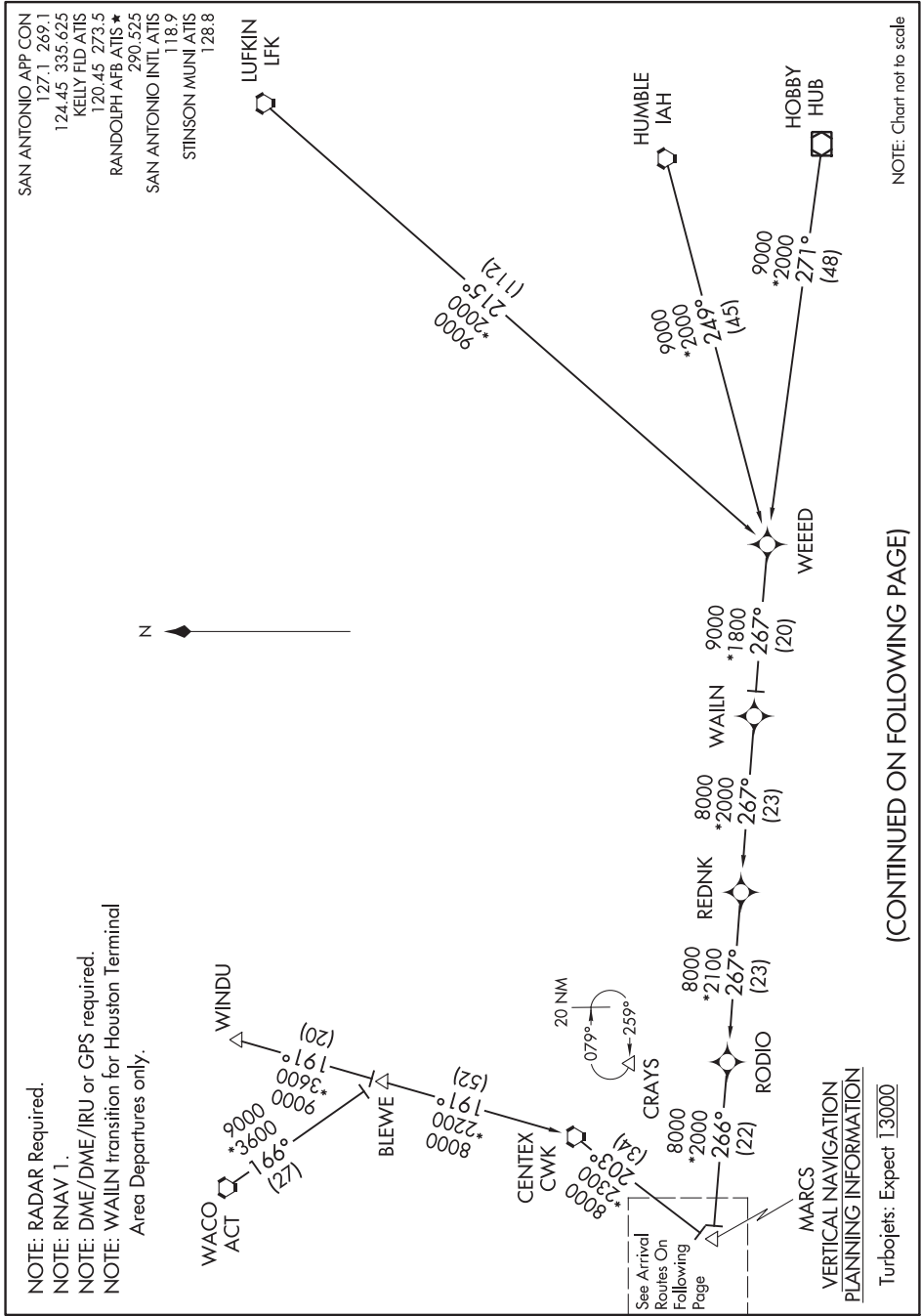
SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

BRAUN ONE ARRIVAL (RNAV) Transition Routes

SAN ANTONIO, TEXAS

SC-3, 10 NOV 2016 to 05 JAN 2017



BRAUN ONE ARRIVAL (RNAV) Transition Routes

SAN ANTONIO, TEXAS

(CONTINUED ON FOLLOWING PAGE)

SC-3, 10 NOV 2016 to 05 JAN 2017

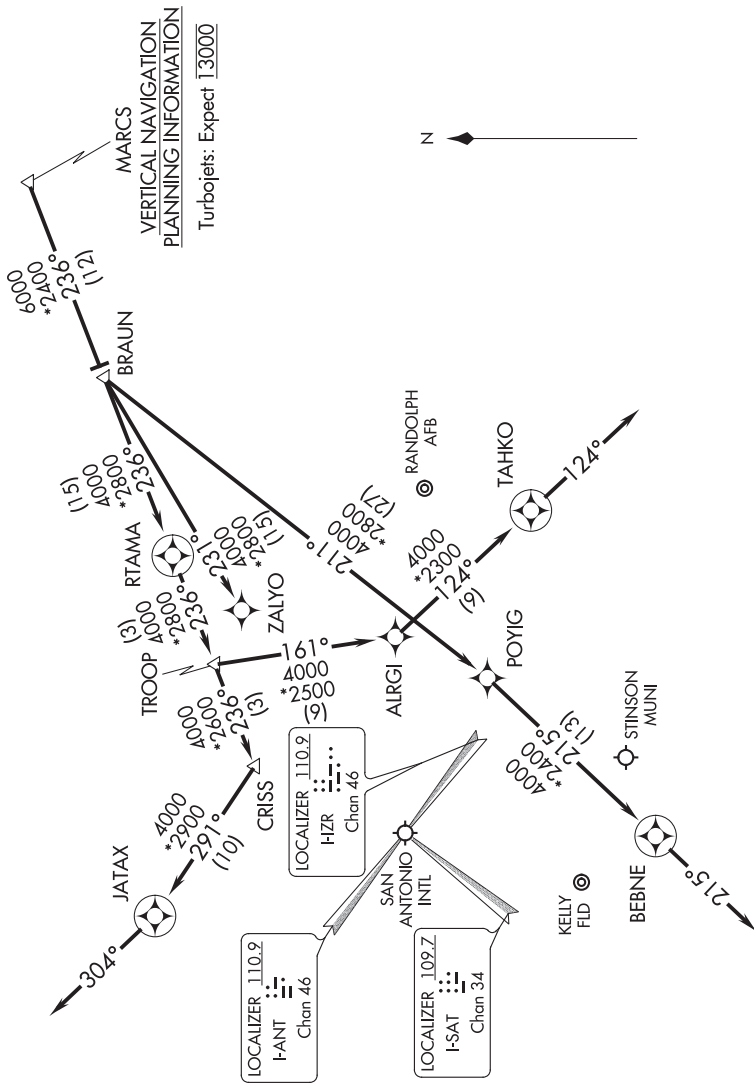
BRAUN ONE ARRIVAL (RNAV) Arrival Routes

SAN ANTONIO, TEXAS

SC-3, 10 NOV 2016 to 05 JAN 2017

NOTE: RADAR Required.
NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: WAILN Transition for Houston Terminal Area Departures only.

SAN ANTONIO APP CON
127.1 269.1
124.45 335.625
KELLY FLD ATIS
120.45 273.5
RANDOLPH AFB ATIS ★
290.525
SAN ANTONIO INTL ATIS
118.9
STINSON MUNI ATIS
128.8



(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale

SC-3, 10 NOV 2016 to 05 JAN 2017

SAN ANTONIO, TEXAS

ARRIVAL ROUTE DESCRIPTION

HOBBY TRANSITION (HUB.BRAUN1):

HUMBLE TRANSITION (IAH.BRAUN1):

LUFKIN TRANSITION (LFK.BRAUN1):

WACO TRANSITION (ACT.BRAUN1):

WAILN TRANSITION (WAILN.BRAUN1):

WINDU TRANSITION (WINDU.BRAUN1):

SAN ANTONIO INTL (SAT):

From MARCS on 236° track to BRAUN.

LANDING RWY 4:

From BRAUN on track 211° to POYIG, then on track 215° to BEBNE, then on track 215°. Expect vectors to final approach course.

LANDING RWYS 12L/R:

From BRAUN on track 236° to TROOP, then on track 236° to CRISS, then on track 291° to JATAX, then on track 304°. Expect vectors to final approach course.

LANDING RWY 22:

From BRAUN on track 231° to ZALYO. Expect RNAV (RNP) Rwy 22, or expect vectors to final approach course.

LANDING RWYS 30L/R:

From BRAUN on track 236° to TROOP, then on track 161° to ALRGI, then on track 124° to TAHKO, then on track 124°. Expect vectors to final approach course.

ALL OTHER AIRPORTS:

From MARCS on track 236° to BRAUN, then on track 236° to RTAMA, then on track 236°. Expect vectors to final approach course.

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

CENTERPOINT ONE ARRIVAL

SAN ANTONIO, TEXAS

SAN ANTONIO APP CON
 125.1 307.0 (Rwys 12R and 21)
 125.7 290.225 (Rwys 3 and 30)
 KELLY FLD ATIS
 120.45 273.5
 RANDOLPH AFB ATIS*
 290.525
 SAN ANTONIO INTL ATIS
 118.9
 STINSON MUNI ATIS*
 128.8

JUNCTION
 116.0 JCT
 Chan 107
 N30°35.88' -W99°49.05'
 L-19, H-7

STONEWALL
 113.8 STV
 Chan 85

BENEY
 N29°50.33'
 W98°59.43'
 TURBOJET VERTICAL
 NAVIGATION PLANNING
 INFORMATION
 Expect clearance
 to cross at 10000

When SAT is landing
 RWY 12, all aircraft cross
 MEDIN intersection
 at 250 KIAS or less.

FL180
 096°
 (205)

FORT STOCKTON
 116.9 FST
 Chan 116
 N30°57.13'
 W102°58.54'
 L-19, H-6

CENTER POINT
 117.5 CSI
 Chan 122
 N29°55.34'
 W99°12.87'

REUBE
 N29°45.30'
 W98°45.59'

SAN ANTONIO
 116.8 SAT
 Chan 115

MEDIN
 N29°48.42'
 W98°54.02'

LOCALIZER 110.9
 I-ANT
 Chan 46

SAN ANTONIO
 INTL
 RANDOLPH
 AFB

LOCALIZER 109.7
 I-SAT

KELLY
 FLD
 STINSON
 MUNI

LOCALIZER 110.9
 I-HZ
 Chan 46

NOTE: Chart not to scale.

ARRIVAL ROUTE DESCRIPTION

FORT STOCKTON TRANSITION (FST.CS11): From over FST VORTAC via FST R-096 and CSI R-280 to CSI VORTAC. Thence

JUNCTION TRANSITION (JCT.CS11): From over JCT VORTAC via JCT R-134 and CSI R-314 to CSI VORTAC. Thence

. . . . From over CSI VORTAC via CSI R-105 to REUBE INT. Expect vector to final approach course.

SATELLITE AIRPORTS: Conform to SAT routing and frequency assignment.

CENTERPOINT ONE ARRIVAL

SAN ANTONIO, TEXAS

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

HSKNS ONE ARRIVAL (RNAV)

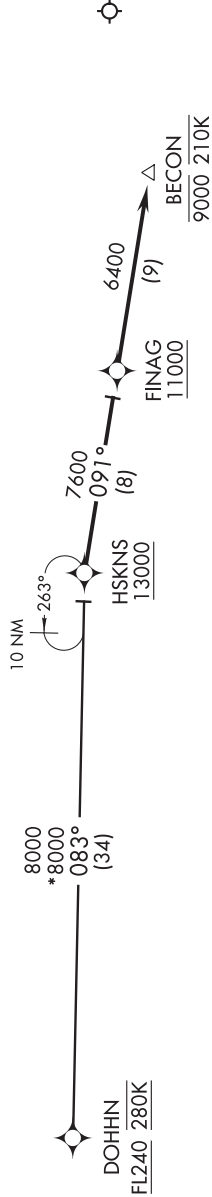
SC-3, 10 NOV 2016 to 05 JAN 2017

ARRIVAL ROUTE DESCRIPTION

DOHHN TRANSITION (DOHHN.HSKNS1)

LANDING RWY 4: From HSKNS on track 091° to FINAG, cross FINAG at or above 11000, then on track 091° to BECON, cross BECON at 9000 or 210K, expect RNAV (RNP) approach or RADAR vectors to final approach course.

EL PASO ATIS
120.0 254.3
EL PASO APP CON
124.25 298.85
ALBUQUERQUE CENTER
135.875 292.15



- NOTE: RADAR required.
- NOTE: RNAV 1.
- NOTE: DME/DME/IRU or GPS required.
- NOTE: Turbojet aircraft only.
- NOTE: For Non-RNP aircraft, expect RADAR vectors to final approach course.
- NOTE: Expect RNP approach clearance or RADAR vectors to final approach prior to BECON.

NOTE: Chart not to scale.

HSKNS ONE ARRIVAL (RNAV)

SC-3, 10 NOV 2016 to 05 JAN 2017

(KALLA.KALLA3) 13066

Z9
ST-556 (FAA)

KALLA THREE ARRIVAL

AUSTIN, TEXAS

AUSTIN-BERGSTROM INTL ATIS
124.4
AUSTIN APP CON
119.0 370.85

TEMPLE
110.4 TPL
Chan 41

GOOCH SPRINGS
112.5 AGJ
Chan 72

LLANO
108.2 LLO
Chan 19
N30°47.78'-W98°47.24'
L-19, H-6-7

MAA FL180
4100
089°
(37)

KALLA
N30°43.26'
W98°04.64'
Expect 10000

GEORGETOWN MUNI

4100
120°
(35)

NOTE: RADAR Required.

LAKEWAY AIRPARK

CENTEX
112.8 CWK
Chan 75
N30°22.71'-W97°31.79'

AUSTIN-BERGSTROM INTL

NOTE: Chart not to scale.

ARRIVAL ROUTE DESCRIPTION

LLANO TRANSITION (LLO.KALLA3): From over LLO VORTAC on LLO R-089 to KALLA INT/LLO 37 DME. Thence

. . . . From over KALLA INT/CWK 35 DME on CWK R-300 to CWK VORTAC. Expect RADAR vectors to final approach.

KALLA THREE ARRIVAL
(KALLA.KALLA3) 13066

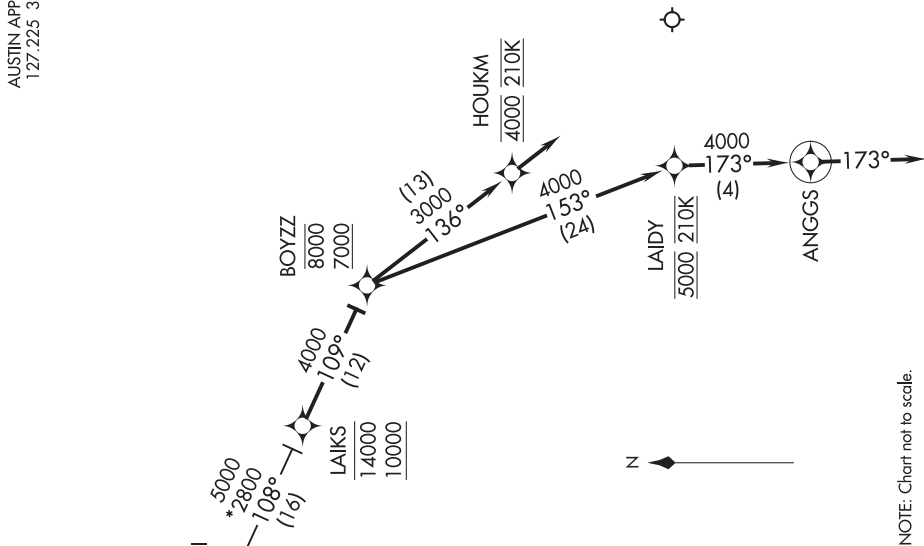
AUSTIN, TEXAS

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

LAIKS ONE ARRIVAL (RNAV)

AUSTIN APP CON
127.225 317.65
ATIS
124.4



SC-3, 10 NOV 2016 to 05 JAN 2017

NOTE: RADAR required.

NOTE: RNAV 1.

NOTE: DME/DME/IRU or GPS required.

NOTE: Turbojet and turboprop aircraft only.

NOTE: Non-RNP aircraft landing Rwy 17L/R expect RADAR vectors at HOUKM.

NOTE: Expect Rwy assignment from Austin TRACON upon initial contact.

ARRIVAL ROUTE DESCRIPTION

DILLO TRANSITION (DILLO.LAIKS1)
UCOKA TRANSITION (UCOKA.LAIKS1)

From LAIKS on track 109° to cross BOYZZ between 7000 and 8000.

LANDING RWY 17L/R: From BOYZZ on track 136° to cross HOUKM at 4000 and at 210K. Expect RNAV (RNP) RWY 17L/R or RADAR vectors to final approach course.

LANDING RWY 35L/R: From BOYZZ on track 153° to cross LAIDY at 5000 and at 210K, then on track 173° to ANGGS, then on track 173°. Expect RADAR vectors to final approach course.

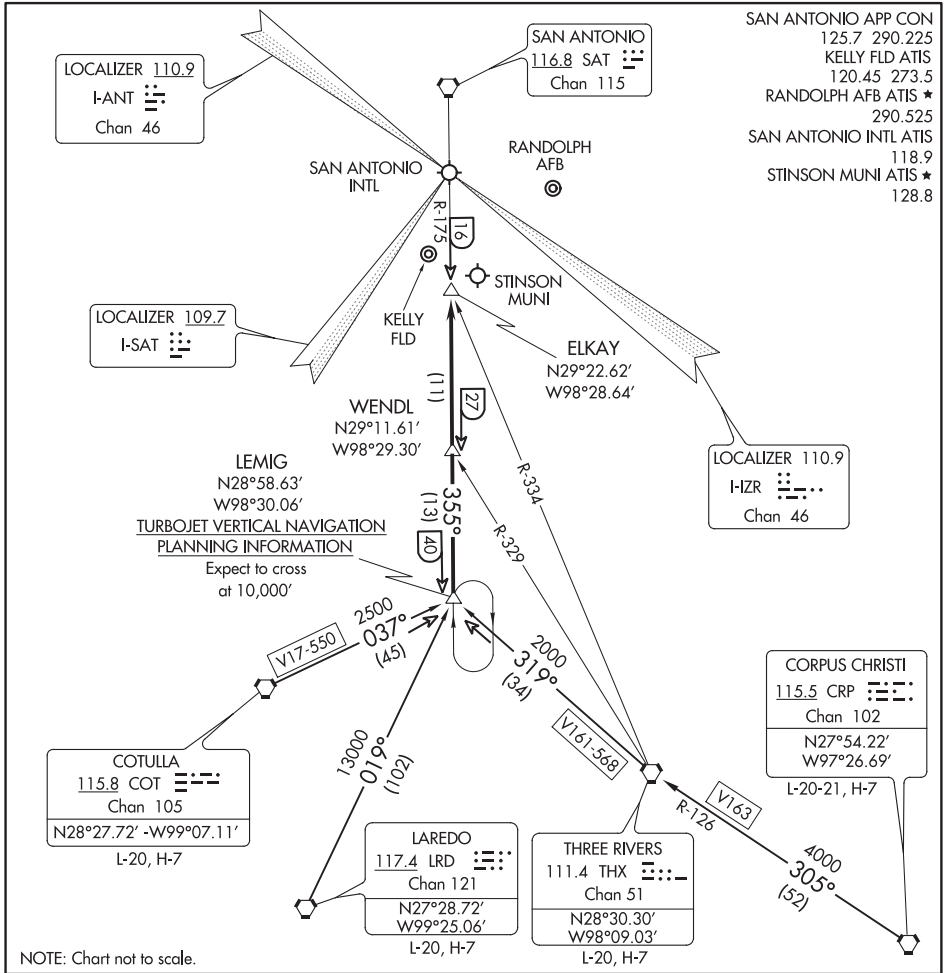
NOTE: Chart not to scale.

SC-3, 10 NOV 2016 to 05 JAN 2017

LAIKS ONE ARRIVAL (RNAV)

LEMIG ONE ARRIVAL

SAN ANTONIO, TEXAS



SAN ANTONIO APP CON
125.7 290.225
KELLY FLD ATIS
120.45 273.5
RANDOLPH AFB ATIS ★
290.525
SAN ANTONIO INTL ATIS
118.9
STINSON MUNI ATIS ★
128.8

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

ARRIVAL ROUTE DESCRIPTION

CORPUS CHRISTI TRANSITION (CRP.LEMIG1): From over CRP VORTAC via CRP R-305 and THX R-126 to THX VORTAC, then via THX R-319 to LEMIG INT.

Thence . . .

COTULLA TRANSITION (COT.LEMIG1): From over COT VORTAC via COT R-037 to LEMIG INT. Thence . . .

LAREDO TRANSITION (LRD.LEMIG1): From over LRD VORTAC via LRD R-019 to LEMIG INT. Thence . . .

THREE RIVERS TRANSITION (THX.LEMIG1): From over THX VORTAC via THX R-319 to LEMIG INT. Thence . . .

. . . **ALL AIRPORTS:** From over LEMIG INT via SAT R-175 to ELKAY INT. Expect radar vectors to final approach course.

LEMIG ONE ARRIVAL

SAN ANTONIO, TEXAS

MARCS NINE ARRIVAL

SAN ANTONIO, TEXAS

ARRIVAL ROUTE DESCRIPTION

CENTEX TRANSITION (CWK.MARCS9): From over CWK VORTAC via CWK R-205 to MARCS INT. Thence. . . .

INDUSTRY TRANSITION (IDU.MARCS9): From over IDU VORTAC via IDU R-259 to MARCS INT. Thence. . . .

LUFKIN TRANSITION (LFK.MARCS9): From over LFK VORTAC via LFK R-228 and IDU R-044 to IDU VORTAC, then via IDU R-259 to MARCS INT. Thence. . . .

WACO TRANSITION (ACT.MARCS9): From over ACT VORTAC via ACT R-165 to BLEWE INT, then via CWK R-012 to CWK VORTAC, then via CWK R-205 to MARCS INT. Thence. . . .

WINDU TRANSITION (WINDU.MARCS9): From over WINDU INT via CWK R-012 to CWK VORTAC, then via CWK R-205 to MARCS INT. Thence. . . .

. . . . From over MARCS INT via SAT R-056 to CRISS INT. Expect radar vectors to final approach course. Landing other than SAT Rwy 12R/30L expect radar vectors to final approach course after CRISS INT.

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

MARCS NINE ARRIVAL

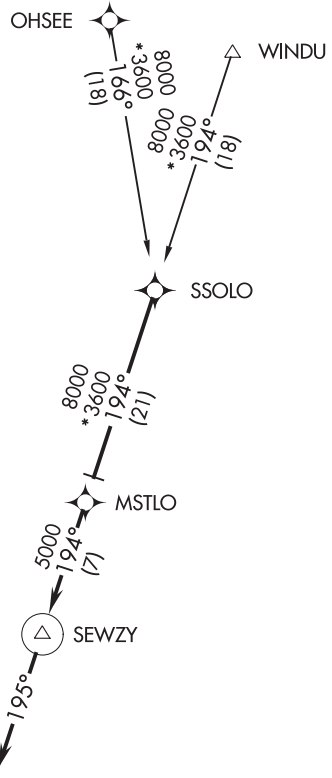
SAN ANTONIO, TEXAS

(MSTLO.MSTLO1) 15064

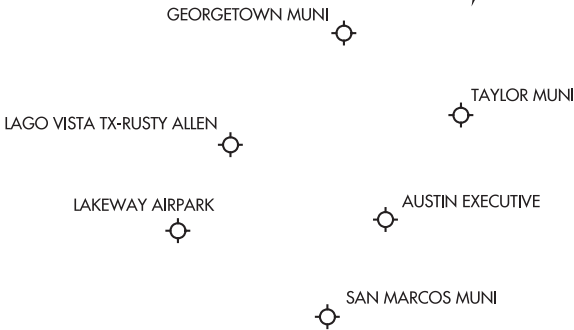
MSTLO ONE ARRIVAL (RNAV)

AUSTIN, TEXAS

AUSTIN APP CON
 127.225 317.65
 GEORGETOWN MUNI ATIS
 118.6
 SAN MARCOS MUNI AWOS-3
 120.825



NOTE: RADAR Required.
 NOTE: RNAV 1.
 NOTE: DME/DME/IRU or GPS Required.
 NOTE: Turbojet and turboprop aircraft only.



NOTE: Chart not to scale.

ARRIVAL ROUTE DESCRIPTION

OHSEE TRANSITION (OHSEE.MSTLO1):

WINDU TRANSITION (WINDU.MSTLO1):

From MSTLO on track 194° to SEWZY, then on track 195°. Expect RADAR vectors.

MSTLO ONE ARRIVAL (RNAV)

(MSTLO.MSTLO1) 15064

AUSTIN, TEXAS

SAMMR THREE ARRIVAL (RNAV)

SC-3, 10 NOV 2016 to 05 JAN 2017

ARRIVAL ROUTE DESCRIPTION

CHISUM TRANSITION (CME.SAMMR3)

LIFFT TRANSITION (LIFFT.SAMMR3)

From SAMMR on track 260° to SARRT, cross SARRT at 8000 at 210K, expect RNAV (RNP) approach or RADAR vectors to final approach course.

EL PASO ATIS
120.0 254.3
EL PASO APP CON
124.25 298.85
ALBUQUERQUE CENTER
135.87 292.15

CHISUM
CME

13000
*8100
207°
(45)

RIICK

13000
*8900
203°
(18)

ZIPPI

13000
*8200
(21)

BLYSS
14000
13000

BGBND

9000
*8900
212°
(13)

SARRT
8000
210K

9000
*8000
231°
(12)

SAMMR
10000
9000

SAMMR

8000
260°
(11)

10 NM
075°

9000
*8000
262°
(22)

SKIIR
FL200
15000

9000
*8000
(23)

ZATSA
FL200

15000
*11000
(27)

CABOL

FL200
*6300
255°
(5)

LIFFT

NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: Turbojet aircraft only.
NOTE: Expect RNP approach or radar vectors to final approach course prior to SARRT.

N



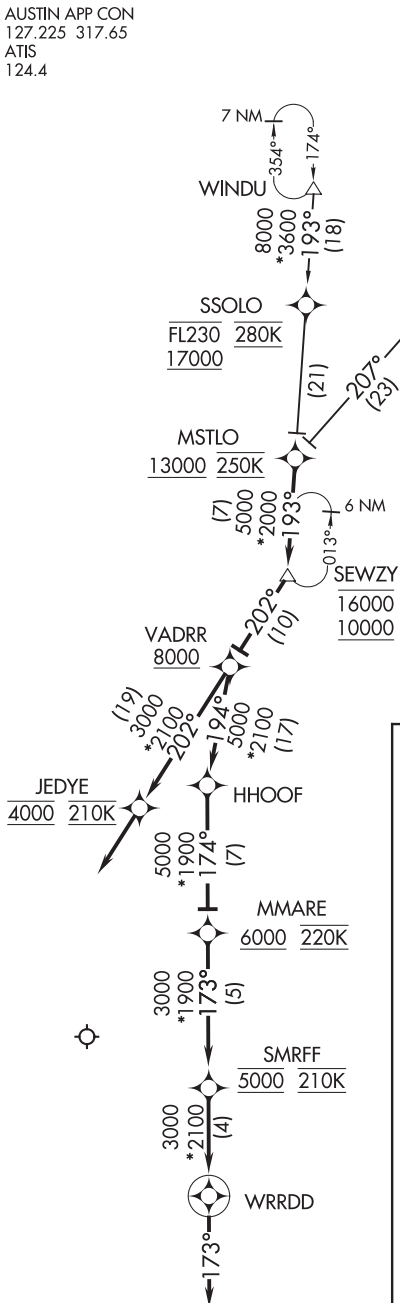
NOTE: Chart not to scale.

SC-3, 10 NOV 2016 to 05 JAN 2017

SAMMR THREE ARRIVAL (RNAV)

SEWZY THREE ARRIVAL (RNAV)

AUSTIN APP CON
127.225 317.65
ATIS
124.4



- NOTE: RADAR required.
- NOTE: RNAV 1.
- NOTE: DME/DME/IRU or GPS required.
- NOTE: Turbojet and turboprop aircraft only.
- NOTE: Expect "descend via" clearance and landing direction assignment by ARTCC. Austin approach will assign landing runway.
- NOTE: Landing south indicates Rwy 17L/17R, landing north indicates Rwy 35L/35R.
- NOTE: Turbojet aircraft descend via mach number until intercepting 280K.
- Maintain 280K until slowed by the STAR.

ARRIVAL ROUTE DESCRIPTION

STEVEY TRANSITION (STEVEY.SEWZY3) WINDU TRANSITION (WINDU.SEWZY3)

From MSTLO on track 193° to cross SEWZY between 10000 and 16000, then on track 202° to cross VADRR at or above 8000.

LANDING RUNWAYS 17L/R: From VADRR on track 202° to cross JEDYE at 4000 and at 210K. Expect RNAV (RNP) approach or vectors to final approach course.

LANDING RUNWAYS 35L/R: From VADRR on track 194° to HHOOF, then on track 174° to MMARE at or above 6000 and at 220K, then on track 173° to cross SMRFF at 5000 and at 210K, then on track 173° to WRRDD, then on track 173°. Expect RNAV (RNP) approach or vectors to final approach course.

NOTE: Chart not to scale.

STONEWALL ONE ARRIVAL

SAN ANTONIO, TEXAS

SAN ANTONIO APP CON
 125.1 307.0
 KELLY FLD ATIS
 120.45 273.5
 RANDOLPH AFB ATIS ★
 290.525
 SAN ANTONIO INTL ATIS
 118.9
 STINSON MUNI ATIS ★
 128.8

ABILENE
 113.7 ABI
 Chan 84
 N32°28.88'
 W99°51.81'
 L-17, H-6

LLANO
 108.2 LLO
 Chan 19
 N30°47.78'
 W98°47.24'
 L-19, H-6-7

JUNCTION
 116.0 JCT
 Chan 107
 N30°35.88'
 W99°49.05'
 L-19, H-7

STONEWALL
 113.8 STV
 Chan 85
 N30°12.41'
 W98°42.35'
 L-19, H-7

TURBOJET VERTICAL NAVIGATION PLANNING INFORMATION
 Expect clearance to cross at 10,000'

LOCALIZER 110.9
 I-ANT
 Chan 46

REUBE
 N29°45.30'
 W98°45.59'

SAN ANTONIO
 116.8 SAT
 Chan 115

RANDOLPH
 112.3 RND
 Chan 70

SAN ANTONIO INTL

KELLY FLD

RANDOLPH AFB

STINSON MUNI

LOCALIZER 109.7
 I-SAT

LOCALIZER 110.9
 HZR
 Chan 46

NOTE: Chart not to scale.

ARRIVAL ROUTE DESCRIPTION

ABILENE TRANSITION (ABI.STV1): From over ABI VORTAC via ABI R-146 and STV R-329 to STV VORTAC. Thence

JUNCTION TRANSITION (JCT.STV1): From over JCT VORTAC via JCT R-104 and STV R-284 to STV VORTAC. Thence

LLANO TRANSITION (LLO.STV1): From over LLO VORTAC via LLO R-165 and STV R-345 to STV VORTAC. Thence

ALL AIRPORTS EXCEPT RANDOLPH AIR FORCE BASE: From over STV VORTAC via STV R-177 to REUBE INT. Expect radar vectors to final approach course.

RANDOLPH AIR FORCE BASE: From over STV VORTAC via direct RND VORTAC.

STONEWALL ONE ARRIVAL

SAN ANTONIO, TEXAS

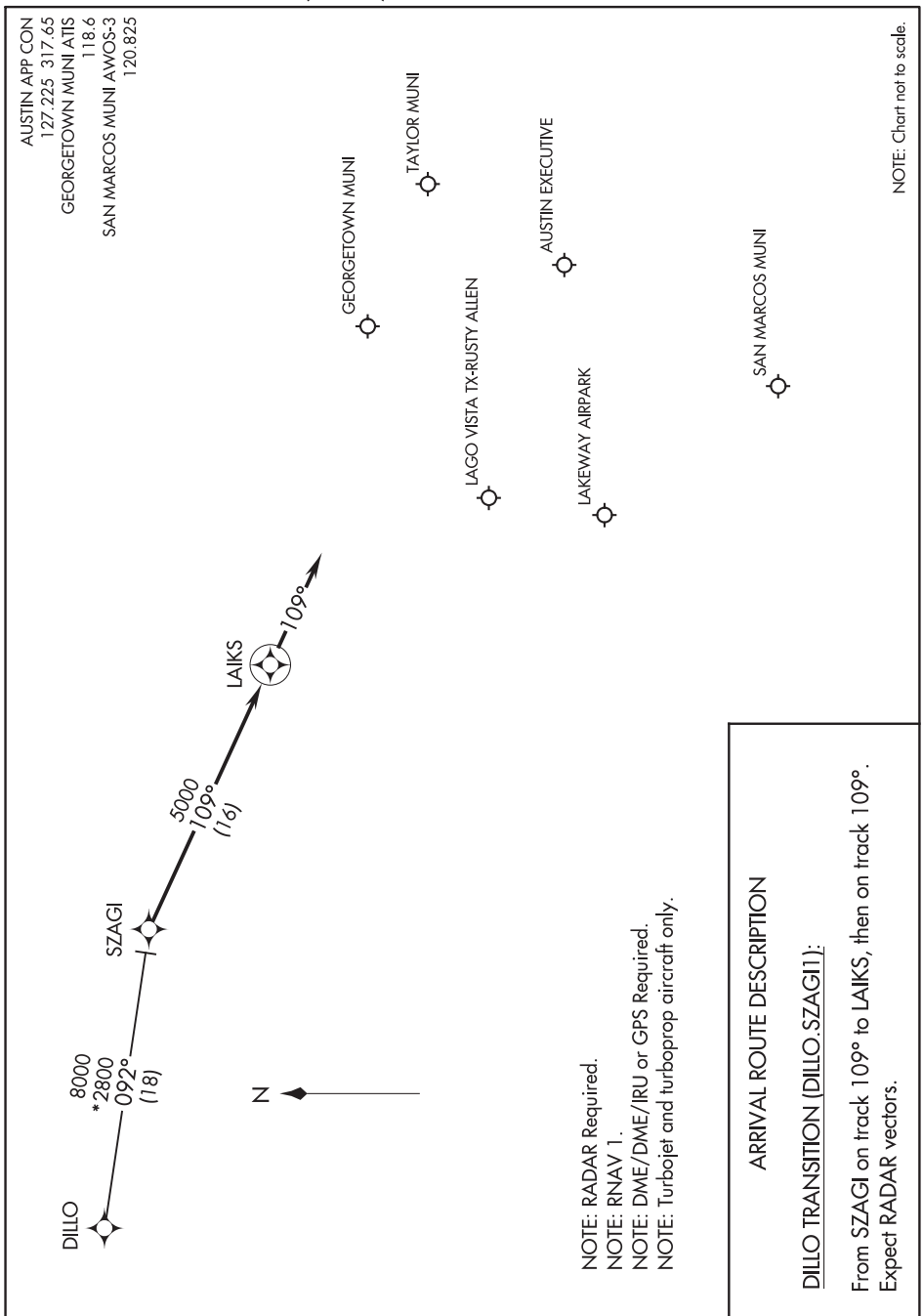
SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

SZAGI ONE ARRIVAL (RNAV)

AUSTIN, TEXAS

SC-3, 10 NOV 2016 to 05 JAN 2017



SC-3, 10 NOV 2016 to 05 JAN 2017

SZAGI ONE ARRIVAL (RNAV)

AUSTIN, TEXAS

WAILN ONE ARRIVAL (RNAV)

AUSTIN, TEXAS

SC-3, 10 NOV 2016 to 05 JAN 2017

AUSTIN APP CON
127.225 317.65
GEORGETOWN MUNI ATIS
118.6
SAN MARCOS MUNI AWOS-3
120.825

GEORGETOWN MUNI
TAYLOR MUNI

LAGO VISTA TX-RUSTY ALLEN
LAKEWAY AIRPARK
AUSTIN EXECUTIVE

SAN MARCOS MUNI



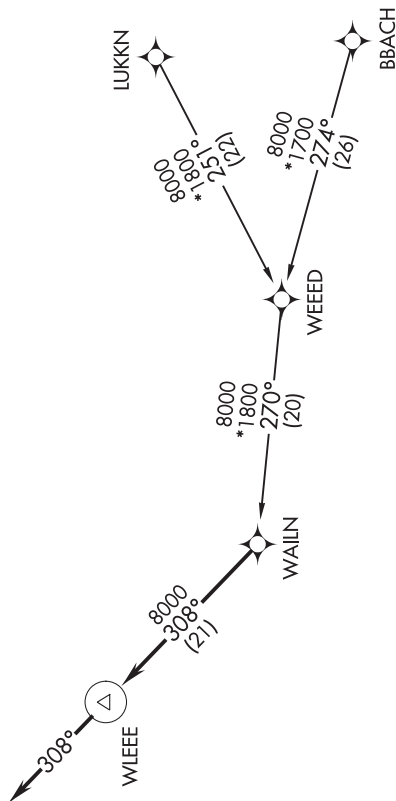
NOTE: Chart not to scale.

ARRIVAL ROUTE DESCRIPTION

BBACH TRANSITION (BBACH.WAILN1):
LUKKN TRANSITION (LUKKN.WAILN1):
WEEED TRANSITION (WEEED.WAILN1):

From WAILN on track 308° to WLEEE, then on track 308°. Expect RADAR vectors.

NOTE: RADAR Required.
NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS Required.
NOTE: Turbojet and turboprop aircraft only.



WAILN ONE ARRIVAL (RNAV)

(WAILN.WAILN1) 15064

AUSTIN, TEXAS

SC-3, 10 NOV 2016 to 05 JAN 2017

(WAZKO.WAZKO1) 14093 WAZKO ONE ARRIVAL (RNAV)

ST-134 (FAA)

EL PASO INTL (ELP)
EL PASO, TEXAS

EL PASO ATIS
120.0 254.3
EL PASO APP CON
124.25 298.85
ALBUQUERQUE CENTER
128.2 285.5

SLNNK

14000
*9800
184°
(23)

BOATY

12000
*9800
135°
(30)

SEKBE
280K FL190

11000
*8100
137°
(31)

WAZKO
13000
11000

9000
150°
(9)

JESBU
10000

WIKKR
210K 9000

098°
(8)

6500
167°
(17)

KOACH
210K 8000

NOTE: RADAR required.

NOTE: RNAV 1.

NOTE: DME/DME/IRU or GPS required.

NOTE: TURBOJET Aircraft only.

NOTE: Landing Rwy 04 : Expect RNP approach or RADAR vectors to final approach course prior to KOACH.

NOTE: Landing Rwy 22,26L : Expect RNP approach or RADAR vectors to final approach course prior to WIKKR.

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.



WAZKO ONE ARRIVAL (RNAV) (WAZKO.WAZKO1) 14093

EL PASO, TEXAS
EL PASO INTL (ELP)

ARRIVAL ROUTE DESCRIPTION

SLNNK TRANSITION (SLNNK.WAZKO1):

LANDING RWY 4: From WAZKO on track 167° to KOACH at 8000 and at 210K. Expect RNAV (RNP) approach or RADAR vectors to final approach course.

LANDING RWY 8R: From WAZKO on track 167° to KOACH at 8000 and at 210K. Expect RADAR vectors to final approach course.

LANDING RWY 22/26L: From WAZKO on track 150° to cross JEBSU at or above 10000, then on track 098° to cross WIKKR at 9000 and at 210K. Expect RNAV (RNP) approach or RADAR vectors to final approach course.

LANDING RWY 26R: From WAZKO on track 150° to cross JEBSU at or above 10000, then on track 098° to cross WIKKR at 9000 and at 210K. Expect RADAR vectors to final approach course.

SC-3, 10 NOV 2016 to 05 JAN 2017

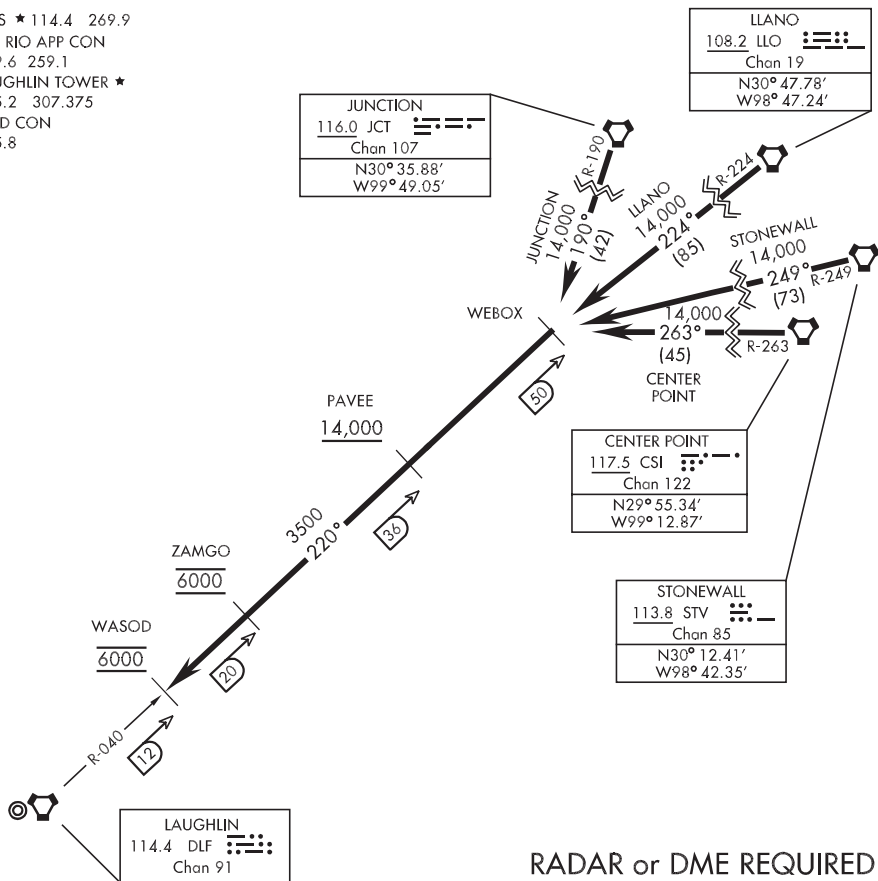
SC-3, 10 NOV 2016 to 05 JAN 2017

(WEBOX • WEBOX4)
WEBOX FOUR ARRIVAL

LAUGHLIN AFB
 DEL RIO, TEXAS

ST-111 [USAF]

ATIS ★ 114.4 269.9
 DEL RIO APP CON
 119.6 259.1
 LAUGHLIN TOWER ★
 125.2 307.375
 GND CON
 275.8



RADAR or DME REQUIRED

ARRIVAL ROUTE DESCRIPTION

JUNCTION Transition (JCT.WEBOX4): From over JCT VORTAC via JCT R-190 to WEBOX. Thence...

LLANO Transition (LLO.WEBOX4): From over LLO VORTAC via LLO R-224 to WEBOX. Thence...

STONEWALL Transition (STV.WEBOX4): From over STV VORTAC via STV R-249 to WEBOX. Thence...

CENTER POINT Transition (CSI.WEBOX4): From over CSI VORTAC via CSI R-263 to WEBOX. Thence...

...From over DLF R-040/50 (WEBOX) via DLF R-040 to DLF R-040/12 (WASOD).
 Expect vectors for an instrument approach to runway in use.

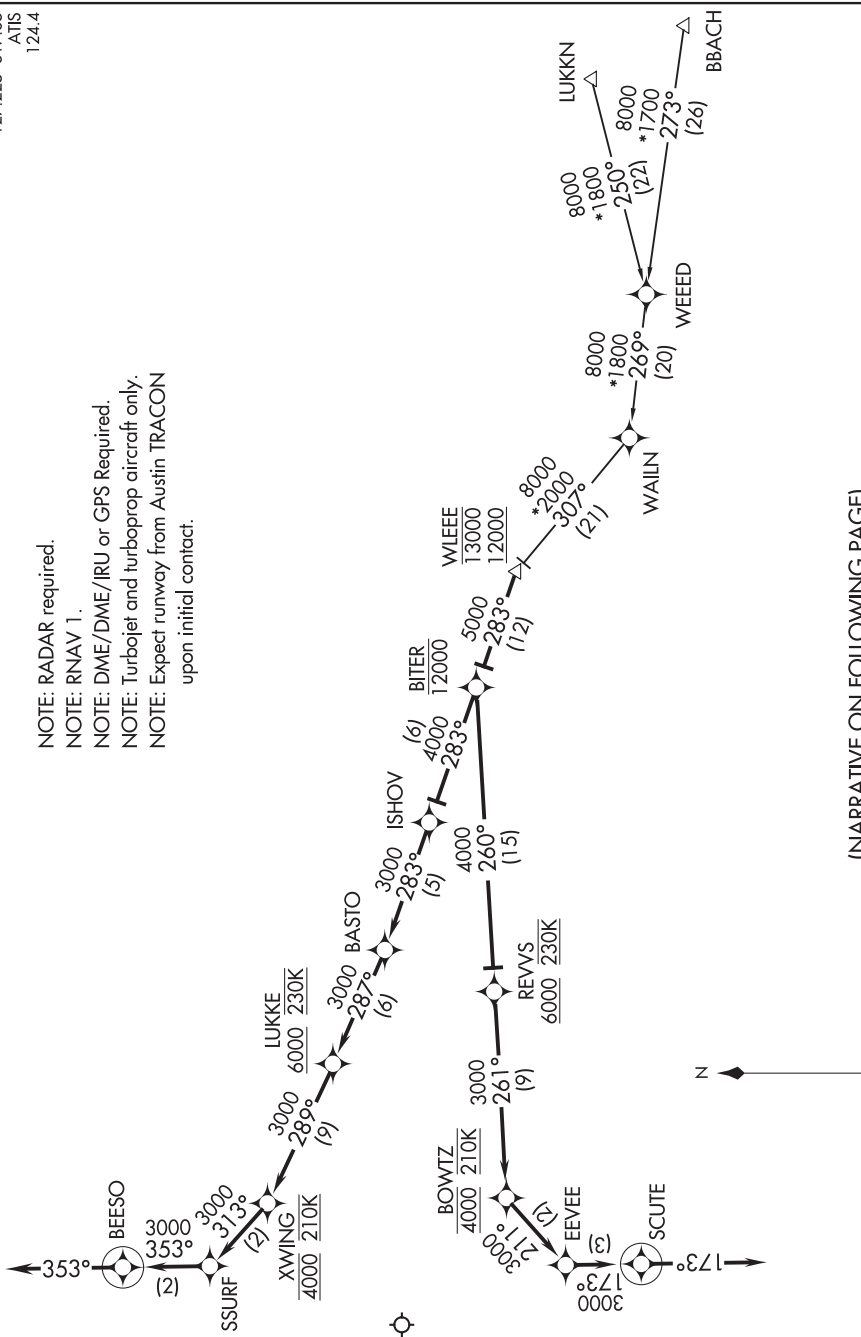
WEBOX FOUR ARRIVAL (WEBOX • WEBOX4)

DEL RIO, TEXAS
 LAUGHLIN AFB

WLEEE THREE ARRIVAL (RNAV)

AUSTIN APP CON
127.225 317.65
ATIS
124.4

- NOTE: RADAR required.
- NOTE: RNAV 1.
- NOTE: DME/DME/IRU or GPS Required.
- NOTE: Turbojet and turboprop aircraft only.
- NOTE: Expect runway from Austin TRACON upon initial contact.



NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

WLEEE THREE ARRIVAL (RNAV)

ARRIVAL ROUTE DESCRIPTION

BBACH TRANSITION (BBACH.WLEEE3)

LUKKN TRANSITION (LUKKN.WLEEE3)

WAILN TRANSITION (WAILN.WLEEE3)

WEEED TRANSITION (WEEED.WLEEE3)

From WLEEE on track 283° to cross BITER at or below 12000.

LANDING RWY 17L/R: From BITER on track 283° to ISHOV, then on track 283° to BASTO, then on track 287° to cross LUKKE at or above 6000 and at 230K, then on track 289° to cross XWING at 4000 and at 210K, then on track 313° to SSURF, then on track 353° to BEESO, then on track 353°. Expect RADAR vectors to final approach course.

LANDING RWY 35L/R: From BITER on track 260° to cross REVVS at or above 6000 and at 230K, then on track 261° to cross BOWTZ at 4000 and at 210K, then on track 211° to EEVVEE, then on track 173° to SCUTE, then on track 173°. Expect RADAR vectors to final approach course.

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

INTENTIONALLY

LEFT

BLANK

WAAS CH 42629 W13A	APP CRS 128°	Rwy Idg TDZE Apt Elev	5997 178 178
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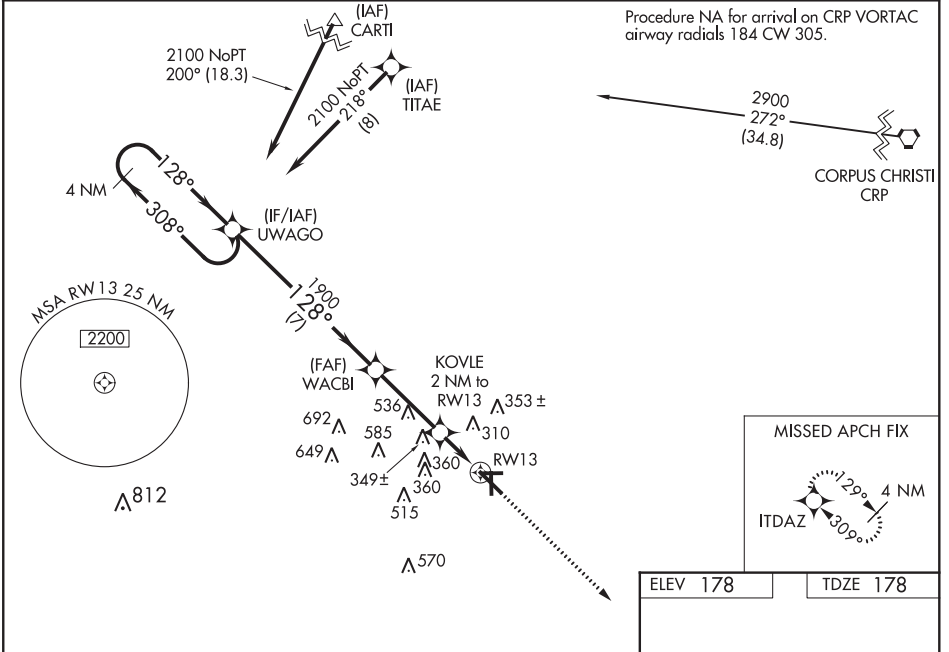
RNAV (GPS) RWY 13

ALICE INTL (ALI)

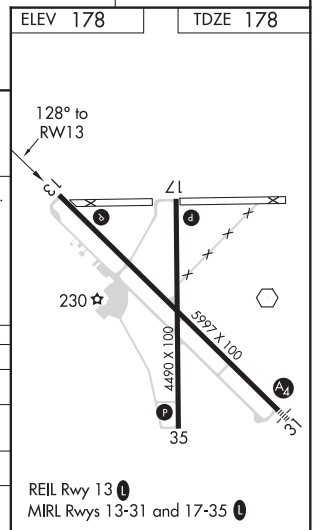
⚠ Circling to Rwy 35 NA at night. Baro-VNAV NA when using Nueces County altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -3°C (27°F) or above 42°C (107°F). When local altimeter setting not received, use Nueces County altimeter setting and increase all DA 56 feet and all MDA 60 feet, increase LPV and LNAV/VNAV visibility all Cats ¼ mile and LNAV Cat C and D ½ mile. DME/DME RNP-0.3 NA. Helicopter visibility reduction below ¾ SM NA. VDP NA with Nueces County altimeter setting.

⚠ MISSED APPROACH: Climb to 2600 direct ITDAZ and hold.

ASOS 119.225	KINGSVILLE APP CON * 119.9 290.45	UNICOM 123.0 (CTAF) 0
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4 NM Holding Pattern	UWAGO	2600	ITDAZ
2100 ← 308°	128° →	1900	*LNAV only.
GP 3.00° TCH 50	1900	*860	*1 NM to RW13
	7 NM	3.3 NM	1 NM
CATEGORY	A	B	C
LPV DA		428-¾	250 (300-¾)
LNAV/VNAV DA		428-¾	250 (300-¾)
LNAV MDA	560-1	382 (400-1)	560-1½ 382 (400-1½)
CIRCLING	600-1 422 (500-1)	640-1 462 (500-1)	660-1½ 482 (500-1½) 740-2 562 (600-2)



SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

ALICE, TEXAS

AL-481 (FAA)

16203

WAAS CH 81813 W31A	APP CRS 309°	Rwy Idg TDZE Apt Elev	5997 174 178
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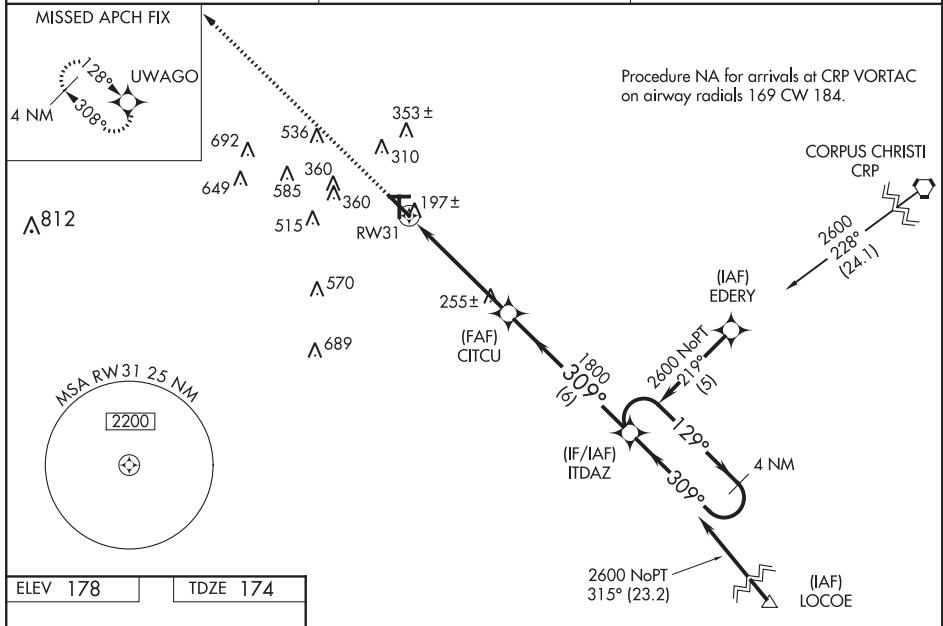
RNAV (GPS) RWY 31

ALICE INTL (ALI)

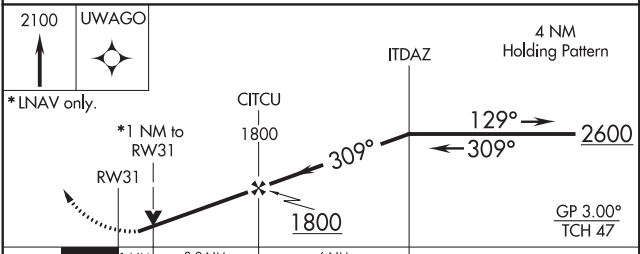
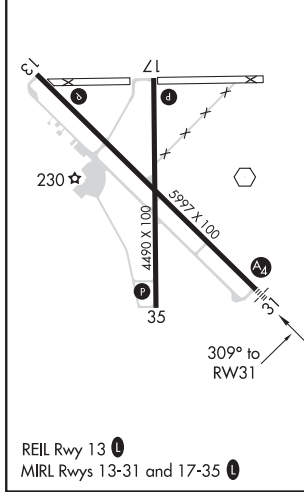
⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F). DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Nueces County altimeter setting: increase DA by 56 feet and visibility LNAV/VNAV all Cats to ¾ mile; increase all MDA 60 feet and LNAV visibility Cat C, D to 1 mile. For inop MALS, increase LPV all Cats visibility to ¾ mile. For inop MALS with Nueces County altimeter setting, increase LNAV/VNAV all Cats and LNAV Cats C, D visibility to 1 ½ mile. VDP NA when using Nueces County altimeter setting.

MALS
⦿ **MISSED APPROACH:**
Climb to 2100 direct
UWAGO and hold.

ASOS 119.225	KINGSVILLE APP CON * 119.9 290.45	UNICOM 123.0 (CTAF) ①
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ELEV 178	TDZE 174
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CATEGORY	A	B	C	D
LPV DA		437-¾	263 (300-¾)	
LNAV/VNAV DA		467-¾	293 (300-¾)	
LNAV MDA		520-¾	346 (400-¾)	
CIRCLING	600-1 422 (500-1)	640-1 462 (500-1)	660-1½ 482 (500-1½)	740-2 562 (600-2)

ALICE, TEXAS
Amdt 1E 02APR15

27°44'N-98°02'W

ALICE INTL (ALI) RNAV (GPS) RWY 31

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

LOC/DME I-ALI 109.3 Chan 30	APP CRS 308°	Rwy Idg TDZE Apt Elev	5997 174 178
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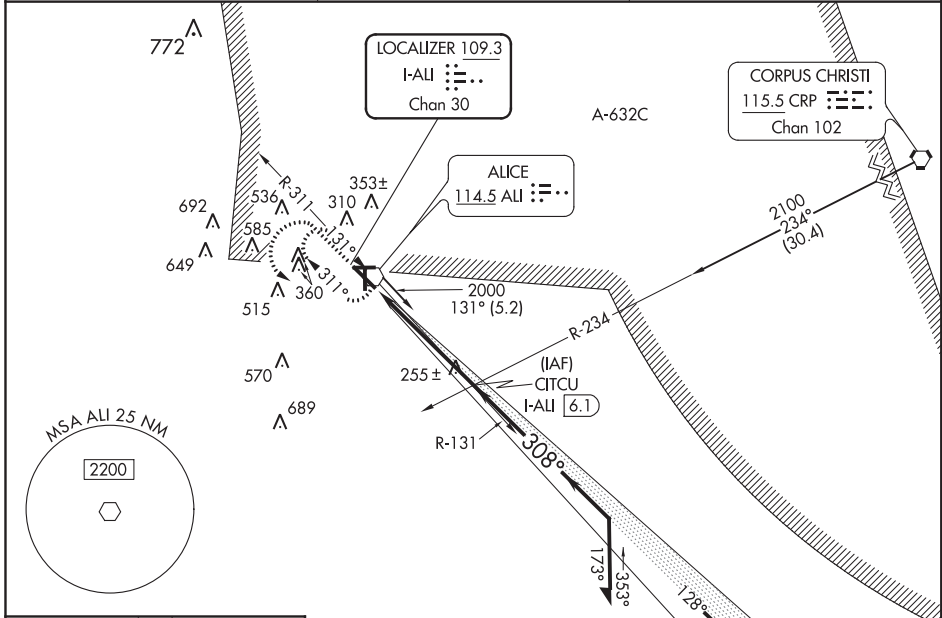
LOC/DME RWY 31

ALICE INTL (ALI)

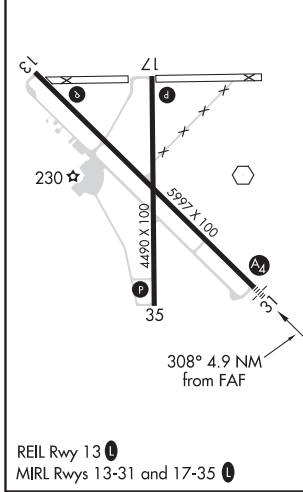
⚠ When local altimeter setting not received, use Nueces County altimeter setting; increase all MDAs 60 feet and visibility Cats C and D 1/4 mile. VDP NA when using Nueces County altimeter setting. For inop MALS increase S-31 Cats C, D visibility to 1 mile. For inop MALS with Nueces County altimeter setting increase S-31 Cats C, D visibility to 1/2 mile.

MALS
 MISSED APPROACH: Climb to 1500 then climbing left turn to 2000 direct ALI VOR and hold.

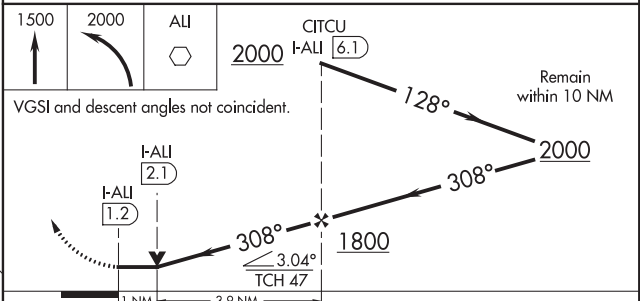
ASOS 119.225	KINGSVILLE APP CON * 119.9 290.45	UNICOM 123.0 (CTAF)
------------------------	---	-------------------------------



ELEV 178	TDZE 174
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RADAR required for procedure entry from Corpus Christi CRP VORTAC.



CATEGORY	A	B	C	D
S-31		520-3/4	346 (400-3/4)	
CIRCLING	600-1 422 (500-1)	640-1 462 (500-1)	660-1 1/2 482 (500-1 1/2)	740-2 562 (600-2)

ALICE, TEXAS
Orig-D 02APR15

27°44'N-98°02'W

ALICE INTL (ALI)
LOC/DME RWY 31

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

ALICE, TEXAS

AL-481 (FAA)


16203

VOR ALI 114.5	APP CRS 325°	Rwy Idg 5997
		TDZE 174
		Apt Elev 178

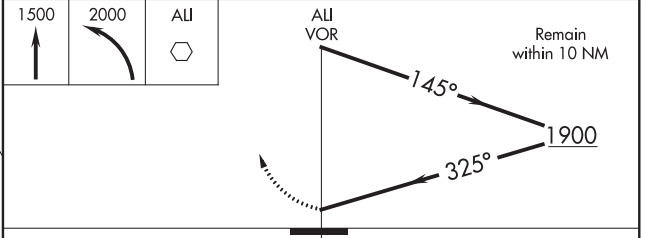
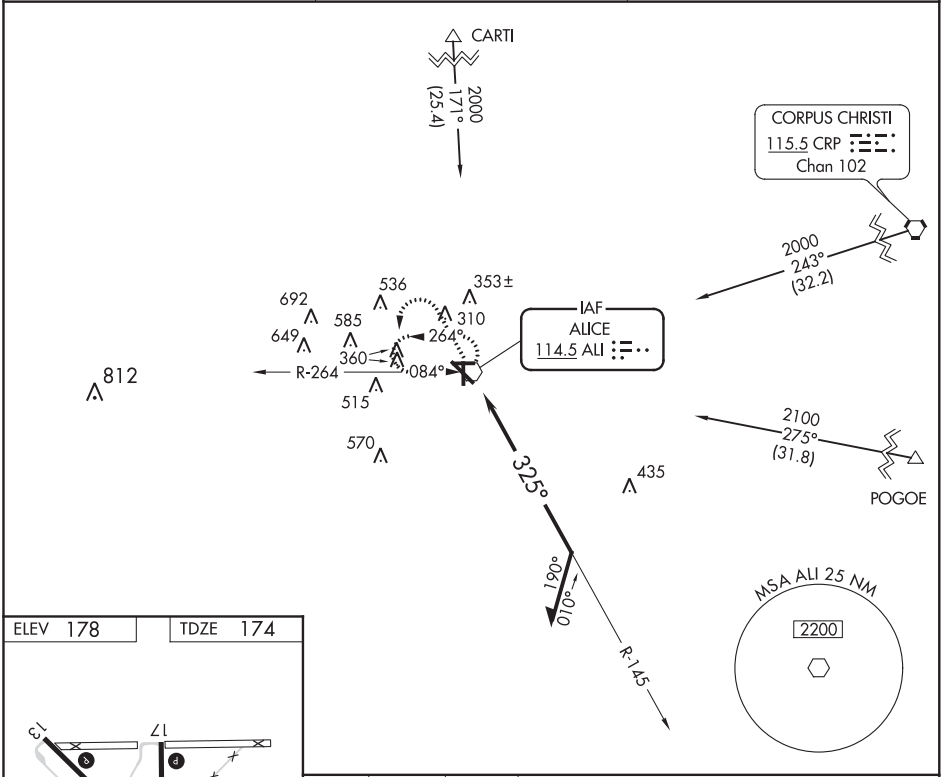
VOR RWY 31


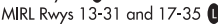
ALICE INTL (ALI)

When local altimeter setting not received, use Nueces County altimeter setting; increase all MDAs 60 feet and visibility S-31 Cats C and D ¼ mile. Visibility reduction by helicopters NA. For inop MALS increase S-31 Cats C, D visibility to 1 3/8 mile. For inop MALS with Nueces County altimeter setting increase S-31 Cats C, D visibility to 1 3/8 mile.

MALS
 MISSED APPROACH: Climb to 1500 then climbing left turn to 2000 direct ALI VOR and hold.

ASOS 119.225	KINGSVILLE APP CON ★ 119.9 290.45	UNICOM 123.0 (CTAF) ①
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ELEV 178	TDZE 174										
 REIL Rwy 13 ①  MIRL Rwy 13-31 and 17-35 ①		<table border="1"> <tr> <td>1500</td> <td>2000</td> <td>ALI</td> </tr> <tr> <td>↑</td> <td>↶</td> <td>①</td> </tr> </table>	1500	2000	ALI	↑	↶	①			
1500	2000	ALI									
↑	↶	①									
CATEGORY	A	B	C	D							
S-31	620-3/4	446 (500-3/4)	620-1	446 (500-1)							
CIRCLING	620-1 442 (500-1)	640-1 462 (500-1)	660-1 1/2 482 (500-1 1/2)	740-2 562 (600-2)							

ALICE, TEXAS
Amdt 13D 02APR15

27°44'N-98°02'W

ALICE INTL (ALI) VOR RWY 31

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

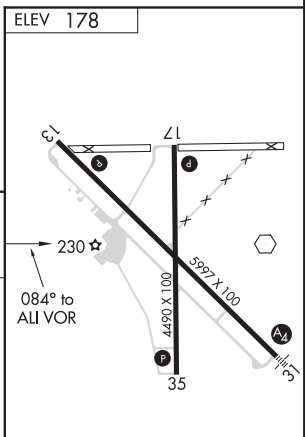
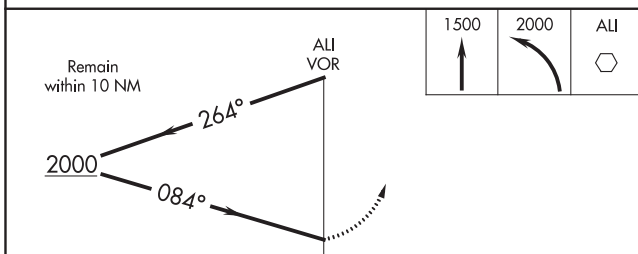
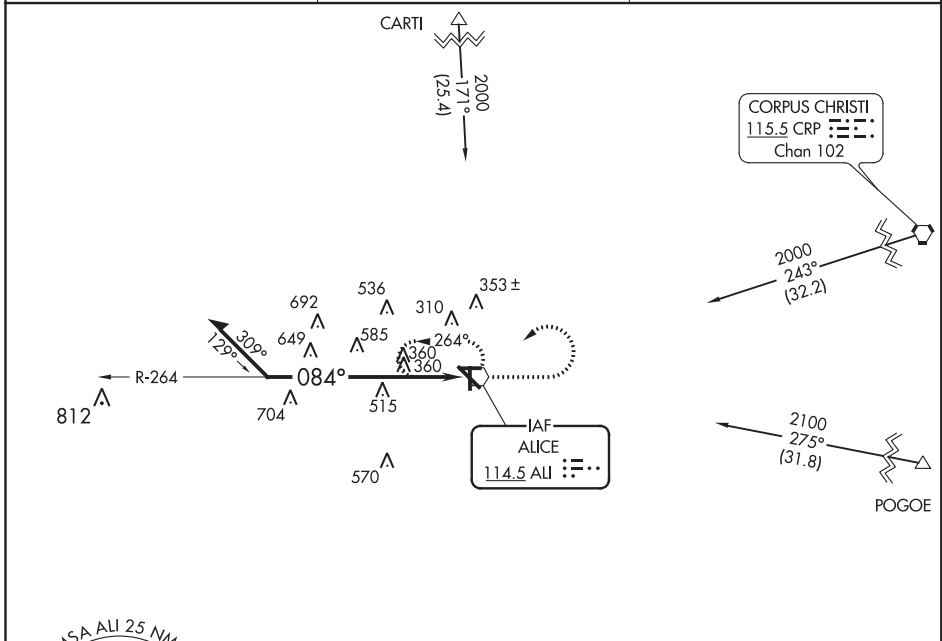
VOR ALI 114.5	APP CRS 084°	Rwy Idg TDZE Apt Elev	N/A N/A 178
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VOR-A
ALICE INTL (ALI)

⚠ When local altimeter setting not received, use Nueces County altimeter setting and increase all MDAs 60 feet.

MISSED APPROACH: Climb to 1500 then climbing left turn to 2000 direct ALI VOR and hold.

ASOS 119.225	KINGSVILLE APP CON * 119.9 290.45	UNICOM 123.0 (CTAF) ①
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CATEGORY	A	B	C	D
CIRCLING	1060-1¼	882 (900-1¼)	1060-2¾ 882 (900-2¾)	1060-3 882 (900-3)

REIL Rwy 13 ①
MIRL Rwy 13-31 and 17-35 ①

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

ALPINE, TEXAS

AL-6295 (FAA)

16035

WAAS CH 77923 W19A	APP CRS 194°	Rwy Idg TDZE Apt Elev	6002 4482 4515
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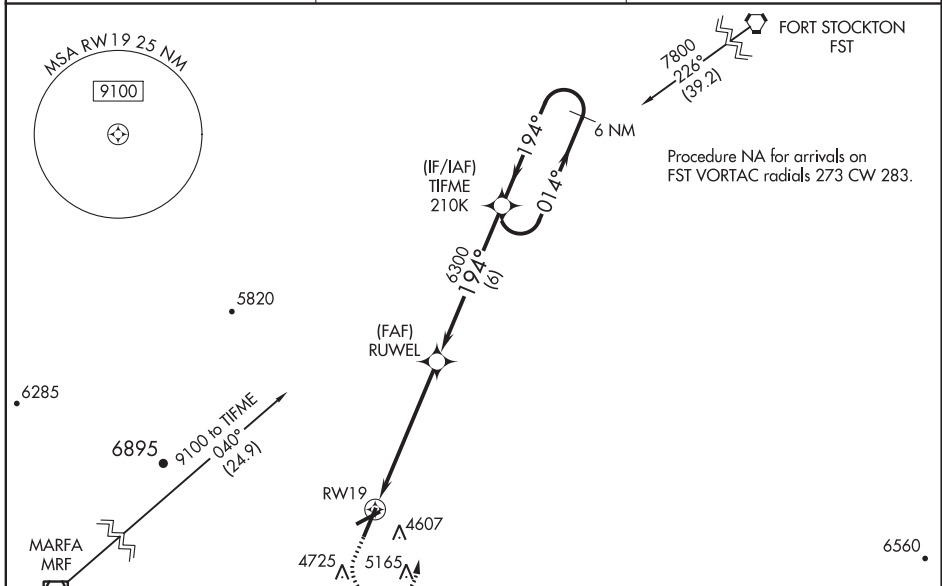
RNAV (GPS) RWY 19

ALPINE-CASPARIS MUNI (E38)

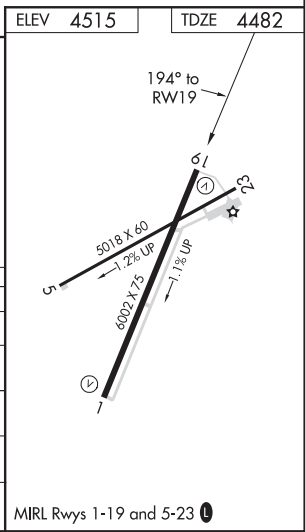
▼ # Missed approach requires a minimum climb of 425 feet per NM to 6800.
▲ * Missed approach requires a minimum climb of 400 feet per NM to 6400.
 DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. When VGS1 inop procedure NA at night. When local altimeter setting not received, use MARFA altimeter setting and increase all MDA 100 feet, increase *LP Cat C visibility to 1 3/8, increase **LNAV Cat C visibility to 2 1/2, increase LNAV and Circling Cat B visibility to 1 1/4.

MISSED APPROACH:
 Climb to 4920 then climbing left turn to 7900 direct TIFME and hold, continue climb-in-hold to 7900.

AWOS-3 119.025	ALBUQUERQUE CENTER 135.875 292.15	UNICOM 122.8 (CTAF) 0
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ELEV 4515		TDZE 4482	
4920		7900	
↑		↺	
TIFME		6 NM Holding Pattern	
RWY 19		RWY 19	
3.00° TCH 40		194°	
5.7 NM		6 NM	
6300		7000	
RWY 19		TIFME	
194°		014°	
194°		194°	
VGS1 and descent angles not coincident (VGS1 Angle 3.00/TCH 22).			
CATEGORY	A	B	C
*LP MDA	4820-1	338 (400-1)	NA
LP MDA	5020-1	538 (600-1)	5600-3 1118 (1100-3)
#LNAV MDA	4880-1	398 (400-1)	5120-1 7/8 638 (700-1 7/8)
LNAV MDA	5160-1	678 (700-1)	5960-3 1478 (1500-3)
CIRCLING	5160-1	645 (700-1)	5960-3 1445 (1500-3)



ALPINE, TEXAS
 Orig-A 18SEP14

30°23'N-103°41'W

ALPINE-CASPARIS MUNI (E38)

RNAV (GPS) RWY 19

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

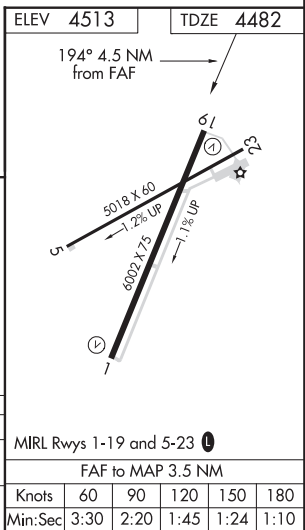
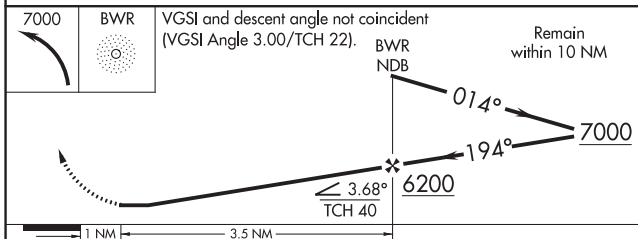
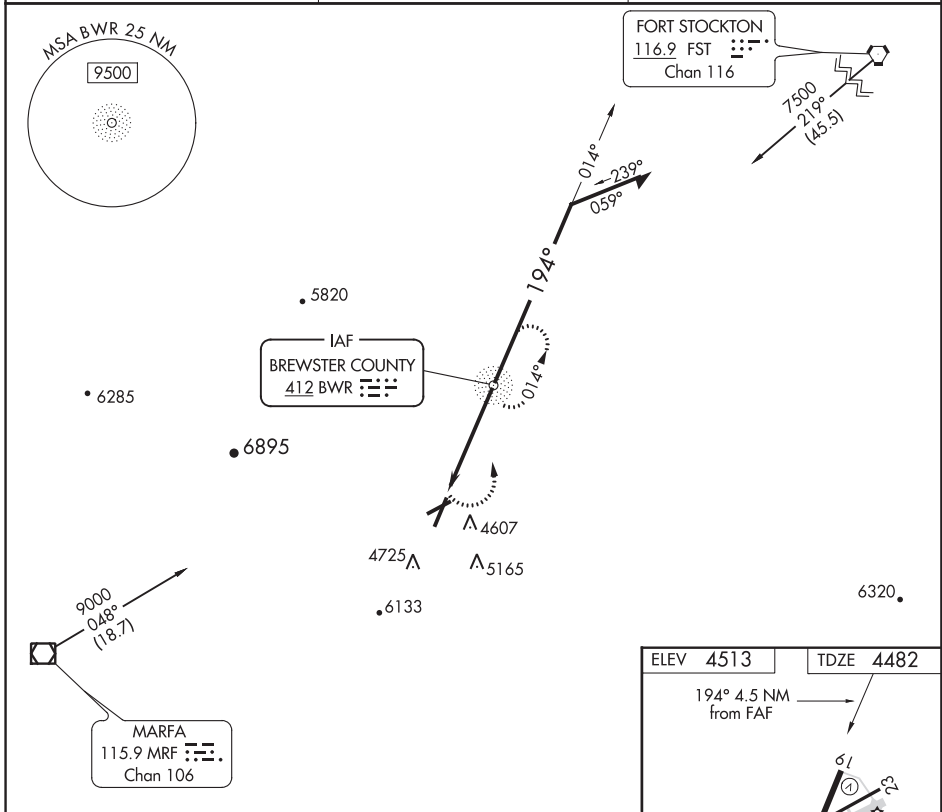
MIRL Rwy's 1-19 and 5-23 0

NBD BWR 412	APP CRS 194°	Rwy ldg TDZE Apt Elev	6002 4482 4513
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NDB RWY 19
ALPINE-CASPARIS MUNI (E38)

NA Circling not authorized west of runway 1-19. MISSED APPROACH: Immediate climbing left turn to 7000 direct BWR NDB and hold.

AWOS-3 119.025	ALBUQUERQUE CENTER 135.875 292.15	UNICOM 122.8 (CTAF)
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CATEGORY	A	B	C	D
S-19	5100-1¼	618 (600-1¼)	5100-1¾ 618 (600-1¾)	NA
CIRCLING	5100-1¼ 587 (600-1¼)	5120-1¼ 607 (700-1¼)	5280-2¼ 767 (800-2¼)	NA

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

AUSTIN, TEXAS

AL-5891 (FAA)

16315

WAAS CH 63116 W13A	APP CRS 126°	Rwy Idg 5425 TDZE 620 Apt Elev 620
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RNAV (GPS) RWY 13

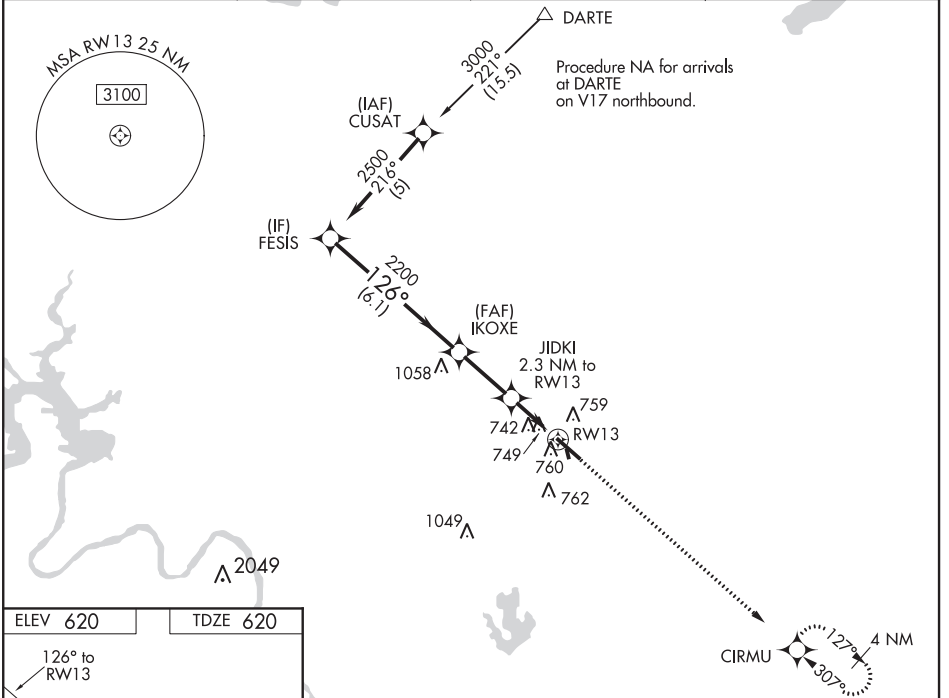
AUSTIN EXECUTIVE (E.D.C.)

Baro-VNAV NA when using Austin-Bergstrom Intl altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 47°C (116°F). DME/DME RNP-0.3 NA.

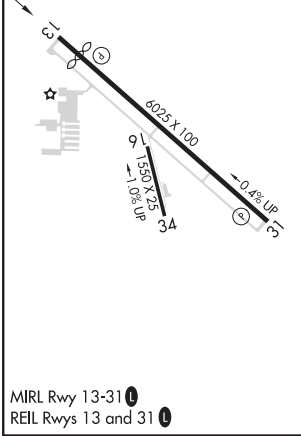
Visibility reduction by helicopters NA. When local altimeter setting not received, use Austin-Bergstrom Intl altimeter setting and increase all DA 42 feet; increase all MDA 60 feet. VDP NA with Austin-Bergstrom Intl altimeter setting. Circling NA to Rwy 16 and 34.

MISSED APPROACH: Climb to 2100 direct CIRMU and hold.

AWOS-3 118.825	APP CON 127.225 317.65	CLNC DEL 126.025	UNICOM 122.975 (CTAF)
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ELEV 620	TDZE 620
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	FESIS	IKOXE	JIDKI	CIRMU
	2500	2200	2200	2100
Procedure Turn NA				
GP 3.00° TCH 40				
	6.1 NM	2.5 NM	1 NM	1.3 NM
CATEGORY	A	B	C	D
LPV DA		870-1	250 (300-1)	
LNAV/VNAV DA		1090-1¾	470 (500-1¾)	
LNAV MDA	1060-1	440 (500-1)	1060-1¼ 440 (500-1¼)	1060-1½ 440 (500-1½)
CIRCLING	1100-1	480 (500-1)	1100-1½ 480 (500-1½)	1180-2 560 (600-2)

AUSTIN, TEXAS
Orig 29JUL10

30°24'N-97°34'W

AUSTIN EXECUTIVE (E.D.C.) RNAV (GPS) RWY 13

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

WAAS CH 45916 W31A	APP CRS 306°	Rwy Idg 6025 TDZE 612 Apt Elev 620
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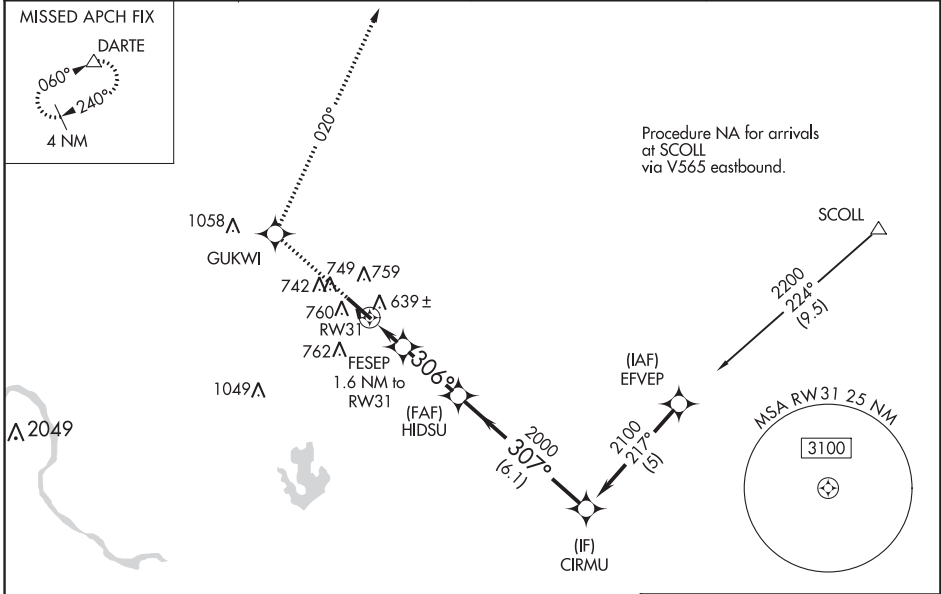
RNAV (GPS) RWY 31

AUSTIN EXECUTIVE (EDC)

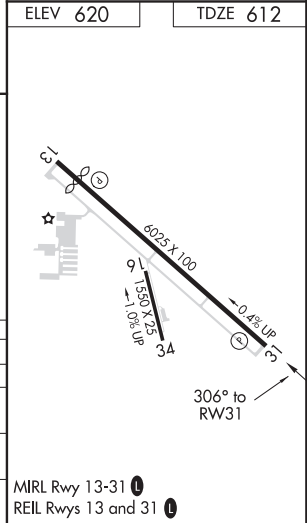
T Baro-VNAV NA when using Austin-Bergstrom Intl altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 47°C (116°F).
A DME/DME RNP-0.3 NA. When local altimeter setting not received, use Austin-Bergstrom Intl altimeter setting and increase all DA 42 feet; increase all MDA 60 feet, increase LNAV/VNAV all Cats and LNAV Cat D visibility ¼ mile. VDP NA with Austin-Bergstrom Intl altimeter setting. Circling NA to Rwy 16 and 34.

MISSED APPROACH: Climb to 3500 direct GUKWI and via track 020° to DARTE and hold.

AWOS-3 118.825	APP CON 127.225 317.65	CLNC DEL 126.025	UNICOM 122.975 (CTAF)
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3500	GUKWI	tr 020°	DARTE	CIRMU
*LNAV only.				
FESEP 1.6 NM to RW31				
*0.8 NM to RW31				
*1140				
2000				
306°				
307°				
2100				
Procedure Turn NA				
GP 3.00°				
TCH 40				
CATEGORY	A	B	C	D
LPV DA		812-3/4	200 (200-3/4)	
LNAV/VNAV DA		909-1	297 (300-1)	
LNAV MDA		900-1	288 (300-1)	
CIRCLING	1100-1	480 (500-1)	1100-1½ 480 (500-1½)	1180-2 560 (600-2)



SC-3, 10 NOV 2016 to 05 JAN 2017

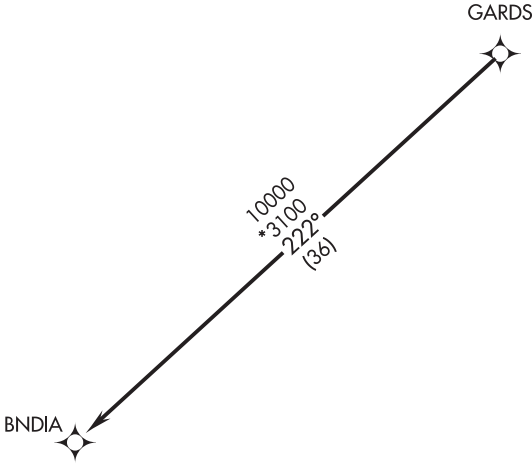
SC-3, 10 NOV 2016 to 05 JAN 2017

BNDIA ONE DEPARTURE (RNAV)

AWOS-3
118.825
AUSTIN DEP CON
127.225 317.65

TAKEOFF MINIMUMS:

Rwys 13, 31: Standard.



SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

- NOTE: RADAR required.
- NOTE: DME/DME/IRU or GPS required.
- NOTE: RNAV-1

TAKEOFF OBSTACLES:

- Rwy 31: Trees beginning 901' from DER, 258' left of centerline, up to 50' AGL/669' MSL.
- Utility poles beginning 929' from DER, 370' left of centerline, up to 135' AGL/749' MSL.
- Utility poles beginning 2326' from DER, 878' right of centerline, up to 105' AGL/704' MSL

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 13, 31: Climb on assigned heading for radar vectors to GARDS, then on depicted route to BNDIA, thence

. . . . maintain 3000 or as assigned by ATC. Expect filed altitude 10 minutes after departure.

(DILLO1.DILLO) 15064

DILLO ONE DEPARTURE (RNAV) SL-5891 (FAA)

AUSTIN EXECUTIVE (EDC)

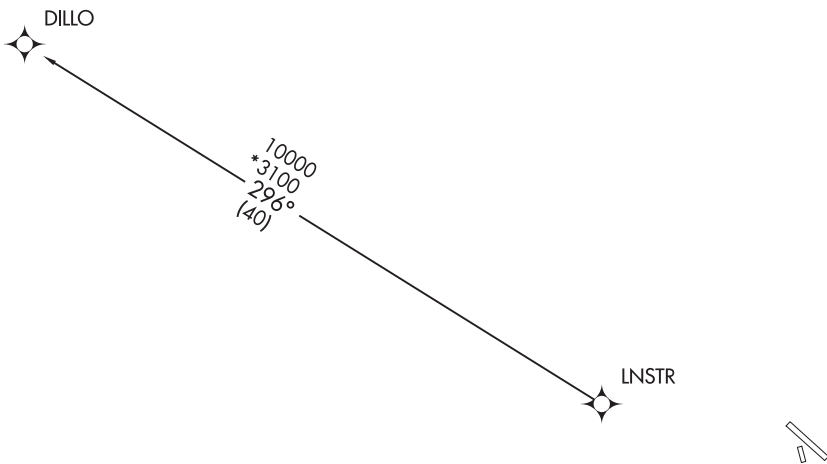
AUSTIN, TEXAS

AWOS-3
118.825
AUSTIN DEP CON
127.225 317.65

TAKEOFF MINIMUMS:

Rwys 13, 31: Standard.

NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV-1



TAKEOFF OBSTACLES:

Rwy 31: Trees beginning 901' from DER, 258' left of centerline, up to 50' AGL/669' MSL.
Utility poles beginning 929' from DER, 370' left of centerline, up to 135' AGL/749' MSL.
Utility poles beginning 2326' from DER, 878' right of centerline, up to 105' AGL/704' MSL

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 13, 31: Climb on assigned heading for radar vectors to LNSTR, then on depicted route to DILLO, thence

. . . . maintain 3000 or as assigned by ATC. Expect filed altitude 10 minutes after departure.

DILLO ONE DEPARTURE (RNAV)

(DILLO1.DILLO) 15064

AUSTIN, TEXAS

AUSTIN EXECUTIVE(EDC)

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

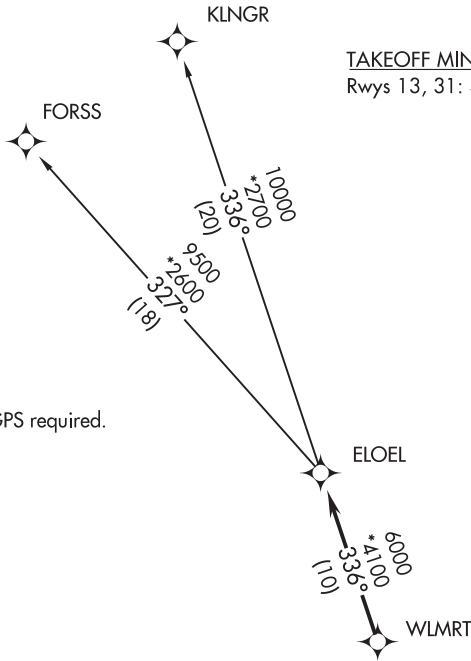
ELOEL ONE DEPARTURE

SL-5891 (FAA)

AUSTIN, TEXAS

AWOS-3
118.825
AUSTIN DEP CON
127.225 317.65

TAKEOFF MINIMUMS:
Rwys 13, 31: Standard.



NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV-1

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

TAKEOFF OBSTACLES:

Rwy 31: Trees beginning 901' from DER, 258' left of centerline, up to 50' AGL/669' MSL.
Utility poles beginning 929' from DER, 370' left of centerline, up to 135' AGL/749' MSL.
Utility poles beginning 2326' from DER, 878' right of centerline, up to 105' AGL/704' MSL

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 13, 31: Climb on assigned heading for radar vectors to WLMRT, then on depicted route to ELOEL, thence . . .

. . . On transition. Maintain 3000 or as assigned by ATC. Expect filed altitude 10 minutes after departure.

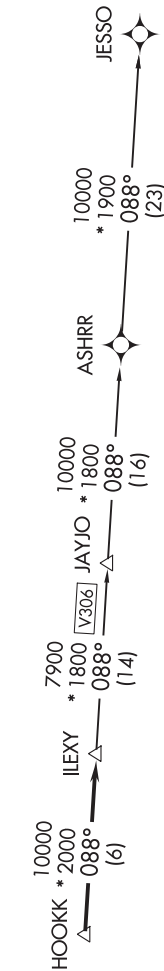
FORSS TRANSITION (ELOEL .FORSS):

KLNGR TRANSITION (ELOEL .KLNGR):

ELOEL ONE DEPARTURE

SC-3, 10 NOV 2016 to 05 JAN 2017

AWOS-3
118.825
AUSTIN DEP CON
127.225 317.65



TAKEOFF MINIMUMS:
Rwys 13, 31: Standard.

TAKEOFF OBSTACLE NOTES:

Rwy 31: Trees beginning 901' from DER, 258' left of centerline, up to 50' AGL/669' MSL.
Utility poles beginning 929' from DER, 370' left of centerline, up to 135' AGL/749' MSL.
Utility poles beginning 2326' from DER, 878' right of centerline, up to 105' AGL/704' MSL.

NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV-1.
NOTE: Houston terminal area arrivals expect routing from ILEXY.
NOTE: JAYJO transition to join Y306 only.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWYS 13, 31: Climb on assigned heading for radar vectors to HOOKK, then on depicted route to ILEXY, thence

. . . . on (transition). Maintain 3000 or as assigned by ATC. Expect filed altitude 10 minutes after departure.

JAYJO TRANSITION (ILEXY1 .JAYJO):
JESSO TRANSITION (ILEXY1 .JESSO):

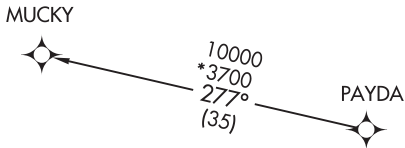
SC-3, 10 NOV 2016 to 05 JAN 2017

MUCKY ONE DEPARTURE (RNAV)

AWOS-3
118.825
AUSTIN DEP CON
127.225 317.65

TAKEOFF MINIMUMS:

Rwys 13, 31: Standard.



- NOTE: RADAR required.
- NOTE: DME/DME/IRU or GPS required.
- NOTE: RNAV-1

TAKEOFF OBSTACLE NOTES:

- Rwy 31: Trees beginning 901' from DER, 258' left of centerline, up to 50' AGL/669' MSL.
- Utility poles beginning 929' from DER, 370' left of centerline, up to 135' AGL/749' MSL.
- Utility poles beginning 2326' from DER, 878' right of centerline, up to 105' AGL/704' MSL

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWYS 13, 31: Climb on assigned heading for radar vectors to PAYDA, then on depicted route to MUCKY, thence

. . . . Maintain 3000 or as assigned by ATC. Expect filed altitude 10 minutes after departure.

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

(SAYBR1.SAYBR) 15176

SAYBR ONE DEPARTURE (RNAV)

SL-5891 (FAA)

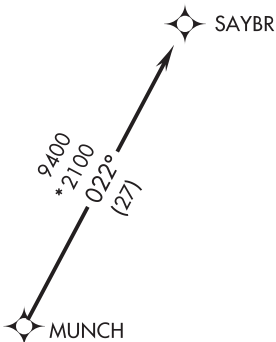
AUSTIN EXECUTIVE(EDC)

AUSTIN, TEXAS

AWOS-3
118.825
AUSTIN DEP CON
127.225 317.65

TAKEOFF MINIMUMS:

Rwys 13, 31: Standard.



- NOTE: RADAR required.
- NOTE: DME/DME/IRU or GPS required.
- NOTE: RNAV-1
- NOTE: For DFW Terminal Area Arrivals at FL230 or below only.

TAKEOFF OBSTACLE NOTES:

- Rwy 31: Trees beginning 901' from DER, 258' left of centerline, up to 50' AGL/669' MSL.
- Utility poles beginning 929' from DER, 370' left of centerline, up to 135' AGL/749' MSL.
- Utility poles beginning 2326' from DER, 878' right of centerline, up to 105' AGL/704' MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 13, 31: Climb on assigned heading for radar vectors to MUNCH, then on depicted route to SAYBR, thence

. . . . Maintain 3000 or as assigned by ATC. Expect filed altitude 10 minutes after departure.

SAYBR ONE DEPARTURE (RNAV)

(SAYBR1.SAYBR) 15176

AUSTIN, TEXAS

AUSTIN EXECUTIVE(EDC)

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

AUSTIN, TEXAS

AL-556 (FAA)

16091

LOC/DME I-VNKG 110.5 Chan 42	APP CRS 175°	Rwy Idg TDZE Apt Elev	9000 492 542
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ILS or LOC RWY 17L

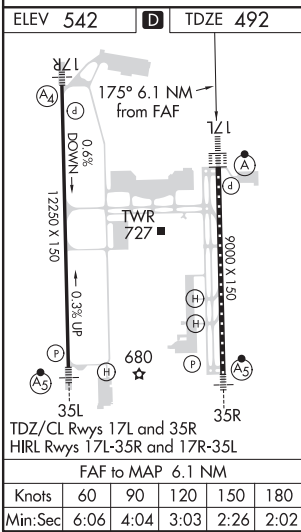
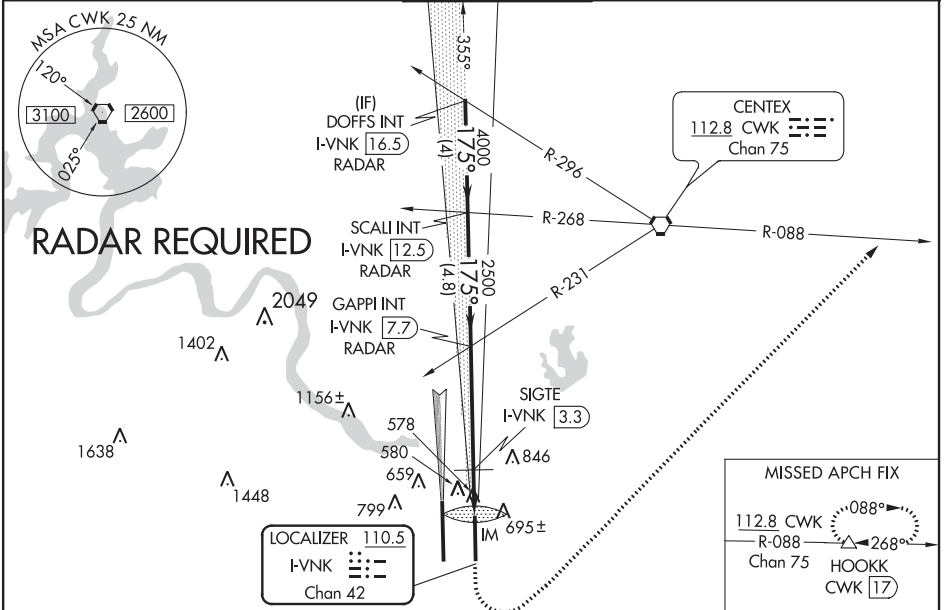
AUSTIN-BERGSTROM INTL (AUS)

⚠ For inoperative ALSF, increase S-ILS 17L Cat E visibility to RVR 4000 and S-LOC 17L Cat E visibility to 1/4 mile. Simultaneous approach authorized with Rwy 17R. DME Required. SIGTE FIX Minimums: For inoperative ALSF, increase S-LOC 17L Cat E visibility to RVR 6000.

ALSF-2
A

MISSED APPROACH: Climb to 1000, then climbing left turn to 3000 heading 040° and CWK VORTAC R-088 to HOOKK/CWK 17 DME and hold.

ATIS 124.4	AUSTIN APP CON 127.225 317.65 (EAST) 120.875 270.25 (SOUTH) 119.0 370.85 (WEST)	AUSTIN TOWER 121.0 281.5	GND CON 121.9 348.6	CLNC DEL 125.5 263.0	CPDLC
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VGSI and ILS glidepath not coincident (VGSI Angle 3.00/TCH 74).

DOFFS INT I-VNKG 16.5 RADAR	SCALI INT I-VNKG 12.5 RADAR	GAPPI INT I-VNKG 7.7 RADAR	SIGTE I-VNKG 3.3 * I-VNKG 2.5	I-VNKG 1.6	
5000	4000	2500	1080	IM	
GS 3.00° TCH 59		1000 3000			
4 NM		4.8 NM	4.4 NM	0.8 NM 0.7 NM 0.1 NM	
CATEGORY	A	B	C	D	E
S-ILS 17L	692/18 200 (200-1/2)				
S-LOC 17L	1080/24	588 (600-1/2)	1080-1 1/4	588 (600-1 1/4)	
CIRCLING	1080-1	538 (600-1)	1080-1 3/4	1100-2	1240-2 1/2
			538 (600-1 3/4)	558 (600-2)	698 (700-2 1/2)
SIGTE FIX MINIMUMS					
S-LOC 17L	840/24	348 (300-1/2)	840/30	348 (300-5/8)	
CIRCLING	1040-1	498 (500-1)	1040-1 1/2	1100-2	1240-2 1/2
			498 (500-1 1/2)	558 (600-2)	698 (700-2 1/2)

* LOC only

AUSTIN, TEXAS

Amdt 2B 13NOV14

30°12'N-97°40'W

AUSTIN-BERGSTROM INTL (AUS)

ILS or LOC RWY 17L

SC-3, 10 NOV 2016 to 05 JAN 2017

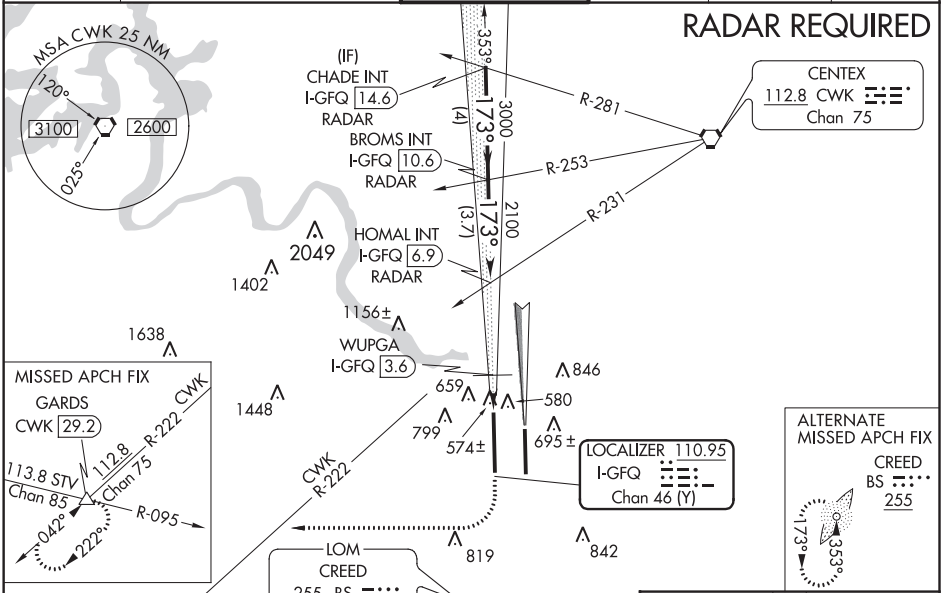
SC-3, 10 NOV 2016 to 05 JAN 2017

LOC/DME I-GFQ 110.95 Chan 46(Y)	APP CRS 173°	Rwy Idg 12250 TDZE 542 Apt Elev 542
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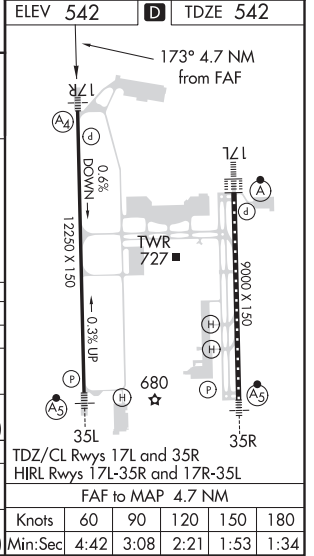
ILS or LOC RWY 17R

AUSTIN-BERGSTROM INTL (AUS)

<p>▼ For inoperative MALS, increase S-ILS 17R visibility to RVR 4000 all Cats, and S-LOC 17R Cat D, E visibility to 1 3/8 mile. Simultaneous approach authorized with Rwy 17L. WUPGA FIX minimums: For inoperative MALS, increase S-LOC 17R Cat D, E visibility to RVR 4500.</p>	<p>MALS (A4) =</p>	<p>MISSED APPROACH: Climb to 1000, then climbing right turn to 3500 on CWK VORTAC R-222 to GARDS INT/ CWK 29.2 DME and hold.</p>			
<p>ATIS 124.4</p>	<p>AUSTIN APP CON 127.225 317.65 (EAST) 120.875 270.25 (SOUTH) 119.0 370.85 (WEST)</p>	<p>AUSTIN TOWER 121.0 281.5</p>	<p>GND CON 121.9 348.6</p>	<p>CLNC DEL 125.5 263.0</p>	<p>CPDLC</p>



	CHADE INT I-GFQ 14.6 RADAR	BROMS INT I-GFQ 10.6 RADAR	HOMAL INT I-GFQ 6.9 RADAR	WUPGA I-GFQ 3.6	1000	3500	GARDS △
	* I-GFQ 2.9				* I-GFQ 2.2		* LOC only
	4 NM		3.7 NM		3.3 NM		
CATEGORY	A	B	C	D	E		
S-ILS 17R	742/26 200 (200-3/4)						
S-LOC 17R	1040/40	498 (500-3/4)	1040/60		498 (500-1 1/2)		
CIRCLING	1040-1	498 (500-1)	1040-1 1/2 498 (500-1 1/2)	1100-2 558 (600-2)	1240-2 1/2 698 (700-2 1/2)		
WUPGA FIX MINIMUMS							
S-LOC 17R	840/40	298 (300-3/4)	840/30		298 (300-3/4)		
CIRCLING	1040-1	498 (500-1)	1040-1 1/2 498 (500-1 1/2)	1100-2 558 (600-2)	1240-2 1/2 698 (700-2 1/2)		



SC-3, 10 NOV 2016 to 05 JAN 2017

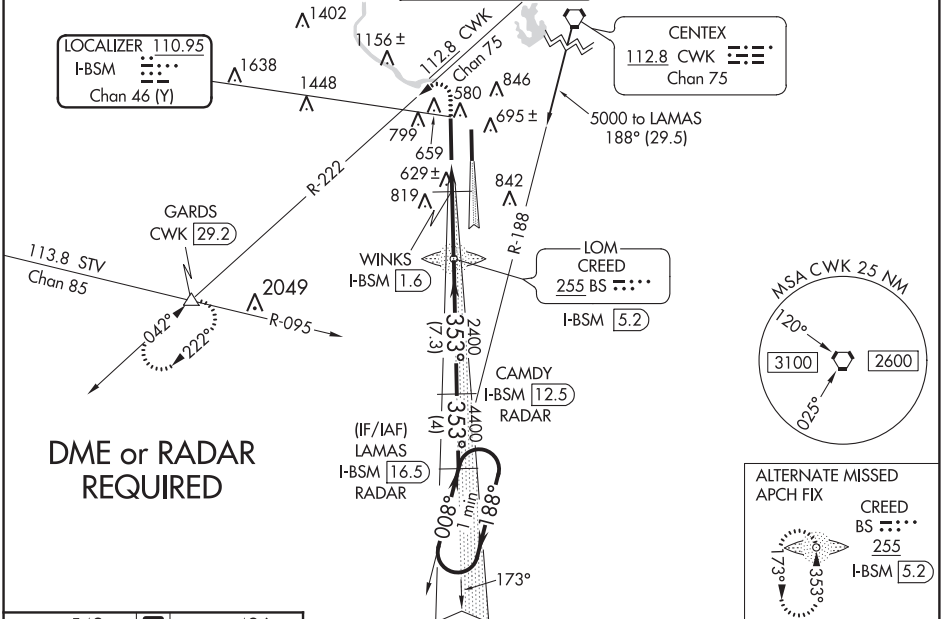
SC-3, 10 NOV 2016 to 05 JAN 2017

LOC/DME I-BSM 110.95 Chan 46 (Y)	APP CRS 353°	Rwy Idg TDZE 496 Apt Elev 542	12250
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ILS or LOC RWY 35L

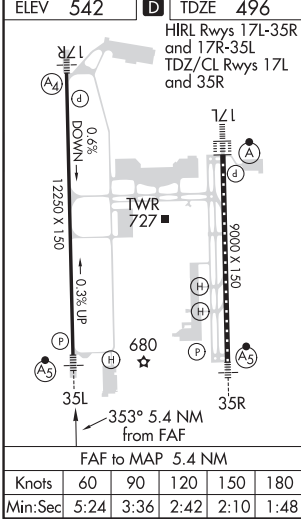
AUSTIN-BERGSTROM INTL (AUS)

<p>⚠ Simultaneous approach authorized with Rwy 35R. For inoperative MALSR, increase S-ILS 35L Cat E visibility to RVR 4000, S-LOC 35L and WINKS DME fix S-LOC 35L Cats C/D/E visibility 3/5 mile. # RVR 1800 authorized with use of FD or AP or HUD to DA.</p>		<p>MALSR </p>	<p>MISSED APPROACH: Climb to 1000 then climbing left turn to 3500 on CWK VORTAC R-222 to GARDS INT/CWK 29.2 DME and hold.</p>		
<p>ATIS 124.4</p>	<p>AUSTIN APP CON 127.225 317.65 (EAST) 120.875 270.25 (SOUTH) 119.0 370.85 (WEST)</p>	<p>AUSTIN TOWER 121.0 281.5</p>	<p>GND CON 121.9 348.6</p>	<p>CLNC DEL 125.5 263.0</p>	<p>CPDLC</p>



SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017



1000	3500	GARDS	VGSI and ILS glidepath not coincident (VGSI Angle 3.00/TCH 60).		One Minute Holding Pattern
CWK R-222		△	CAMDY I-BSM 12.5 RADAR	LAMAS I-BSM 16.5 RADAR	
*LOC only					
WINKS I-BSM 1.6		LOM I-BSM 5.2	CAMDY I-BSM 12.5 RADAR	LAMAS I-BSM 16.5 RADAR	
*I-BSM 0.8		2288	353°	188°	5000
1100		2400	4400	008°	
1.0		0.8	3.6 NM	7.3 NM	4 NM
Use I-BSM DME when on the LOC course. GS 3.00° TCH 54					
CATEGORY	A	B	C	D	E
S-ILS 35L	#696/24 200 (200-1/2)				
S-LOC 35L	1100/24	604 (600-1/2)	1100-1 3/8	604 (600-1 3/8)	
CIRCLING	1100-1	558 (600-1)	1100-1 3/4	1100-2	1240-2 1/2
			558 (600-1 3/4)	558 (600-2)	698 (700-2 1/2)
WINKS FIX MINIMUMS					
S-LOC 35L	860/24	364 (400-1/2)	860/35	364 (400-3/4)	
CIRCLING	1040-1	498 (500-1)	1040-1 1/2	1100-2	1240-2 1/2
			498 (500-1 1/2)	558 (600-2)	698 (700-2 1/2)

AUSTIN, TEXAS
Amdt 5B 16OCT14

30°12'N-97°40'W

AUSTIN-BERGSTROM INTL (AUS)

ILS or LOC RWY 35L

LOC/DME I-HCE 110.5 Chan 42	APP CRS 353°	Rwy Idg 9000 TDZE 480 Apt Elev 542
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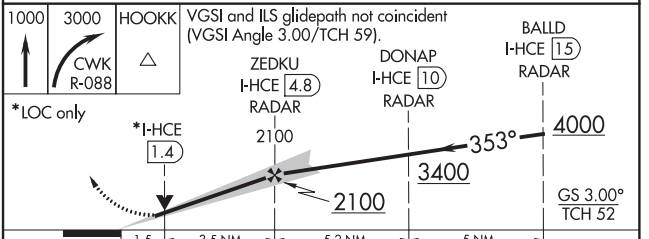
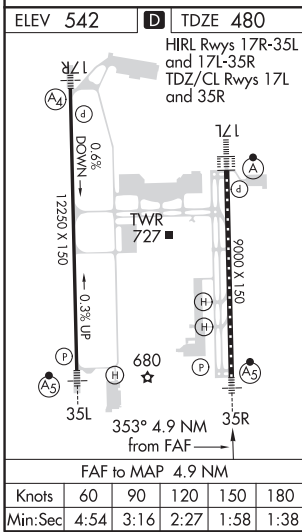
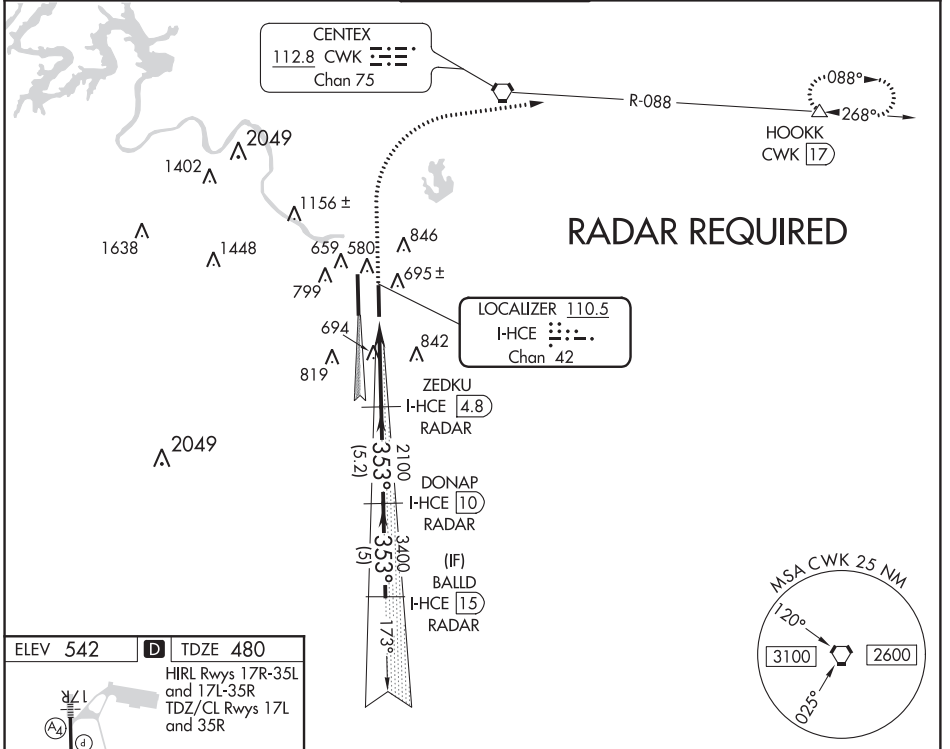
ILS or LOC RWY 35R

AUSTIN-BERGSTROM INTL (AUS)

Simultaneous approach authorized with Rwy 35L.
DME required. For inoperative MALS/R, increase S-ILS all Cats visibility to RVR 4000.

MALS/R MISSED APPROACH: Climb to 1000 then climbing right turn to 3000 on CWK VORTAC R-088 to HOOKK/17 DME and hold.

ATIS 124.4	AUSTIN APP CON 127.225 317.65 (EAST) 120.875 270.25 (SOUTH) 119.0 370.85 (WEST)	AUSTIN TOWER 121.0 281.5	GND CON 121.9 348.6	CLNC DEL 125.5 263.0	CPDLC
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1000	3000	HOOKK	VGSi and ILS glidepath not coincident (VGSi Angle 3.00/TCH 59).			
			ZEDKU I-HCE [4.8] RADAR	DONAP I-HCE [10] RADAR	BALLD I-HCE [15] RADAR	
*LOC only			*I-HCE [1.4]	2100	353°	4000
			1.5	3.5 NM	5.2 NM	5 NM
CATEGORY	A	B	C	D	E	
S-ILS 35R	680/18			200 (200-1/2)		
S-LOC 35R	1000/24	520 (500-1/2)	1000/55		520 (500-1/4)	
CIRCLING	1040-1	498 (500-1)	1040-1 5/8 498 (500-1 5/8)	1100-2 558 (600-2)	1240-2 1/2 698 (700-2 1/2)	

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

AUSTIN, TEXAS

AL-556 (FAA)

16091

LOC/DME I-VNK 110.5 Chan 42	APP CRS 175°	Rwy Idg 9000 TDZE 492 Apt Elev 542
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ILS RWY 17L (SA CAT I)

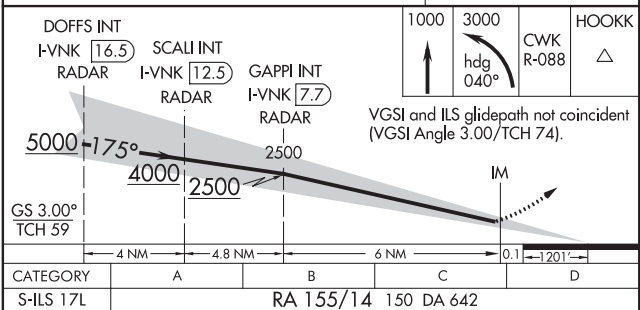
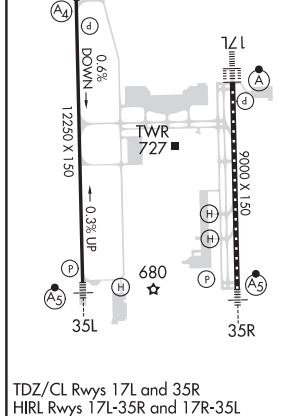
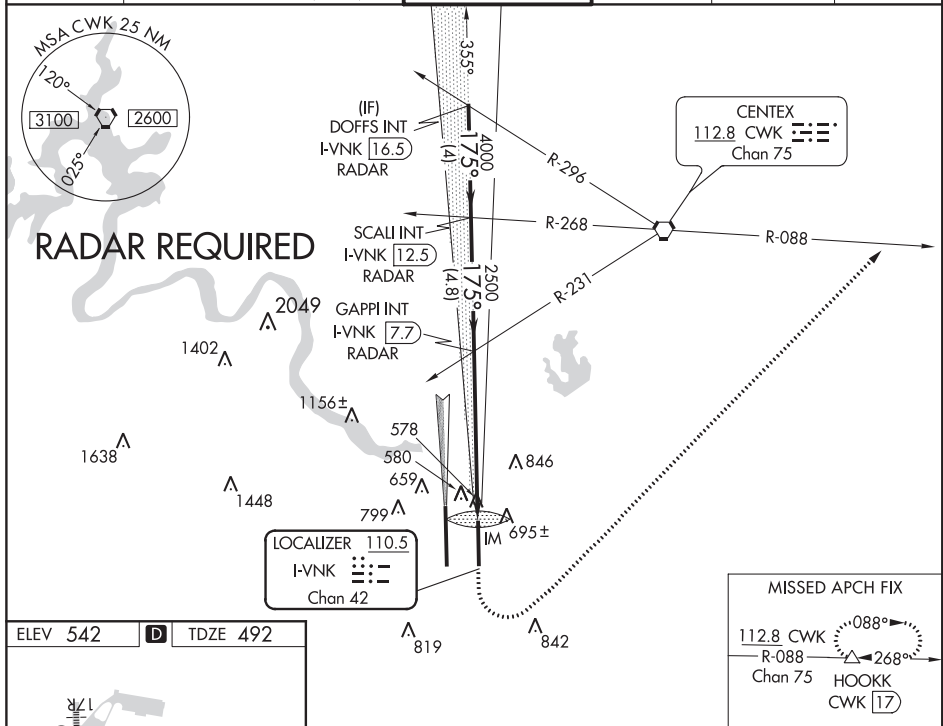
AUSTIN-BERGSTROM INTL (AUS)

⚠ Simultaneous approach authorized with Rwy 17R. DME Required. Requires specific OPSPEC, MSPEC or LOA approval and use of HUD to DH.

ALSF-2

MISSED APPROACH: Climb to 1000, then climbing left turn to 3000 heading 040° and CWK VORTAC R-088 to HOOKK/CWK 17 DME and hold.

ATIS 124.4	AUSTIN APP CON 127.225 317.65 (EAST) 120.875 270.25 (SOUTH) 119.0 370.85 (WEST)	AUSTIN TOWER 121.0 281.5	GND CON 121.9 348.6	CLNC DEL 125.5 263.0	CPDLC
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SA CATEGORY I - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

AUSTIN, TEXAS
Amdt 2B 13NOV14

30°12'N-97°40'W

AUSTIN-BERGSTROM INTL (AUS)
ILS RWY 17L (SA CAT I)

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

LOC/DME I-VNK 110.5 Chan 42	APP CRS 175°	Rwy Idg TDZE Apt Elev	9000 492 542
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ILS RWY 17L (CAT II & III)

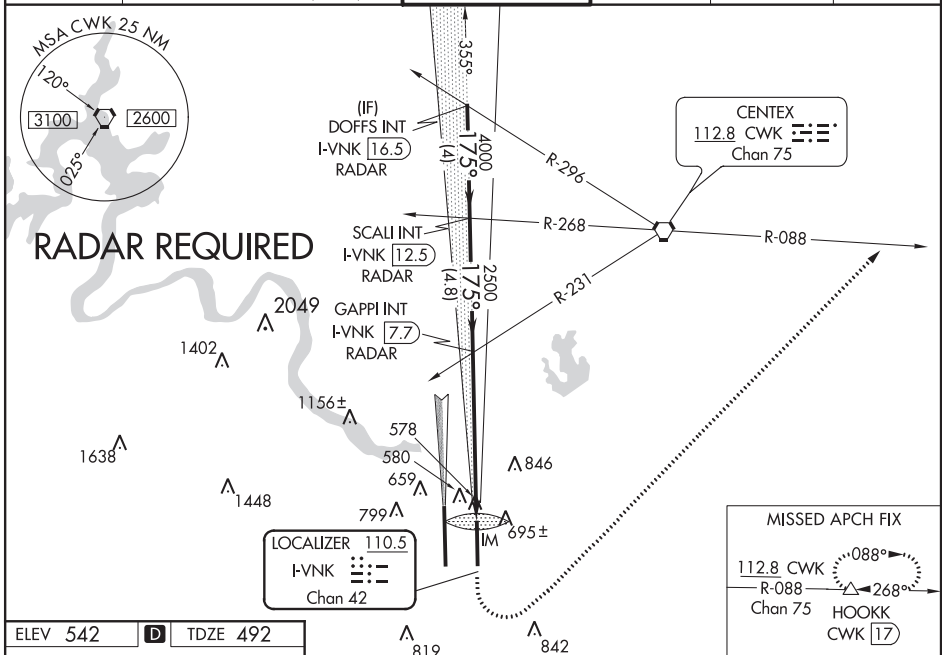
AUSTIN-BERGSTROM INTL (AUS)

Simultaneous approach authorized with Rwy 17R.
DME Required.

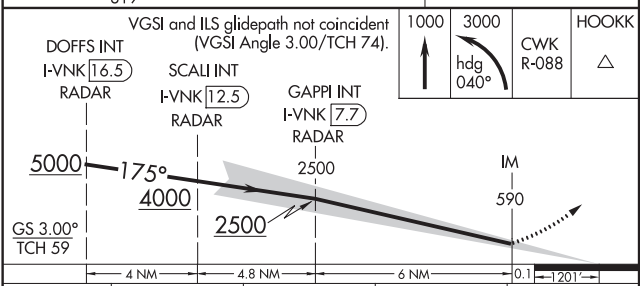
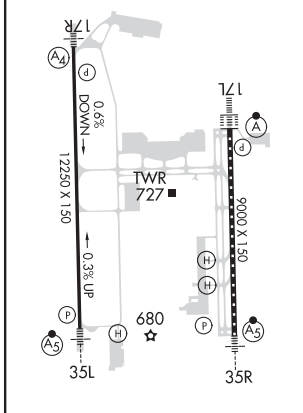
ALSF-2

MISSED APPROACH: Climb to 1000, then climbing left turn to 3000 heading 040° and CWK VORTAC R-088 to HOOKK/CWK 17 DME and hold.

ATIS 124.4	AUSTIN APP CON 127.225 317.65 (EAST) 120.875 270.25 (SOUTH) 119.0 370.85 (WEST)	AUSTIN TOWER 121.0 281.5	GND CON 121.9 348.6	CLNC DEL 125.5 263.0	CPDLC
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ELEV 542	D	TDZE 492
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CATEGORY	A	B	C	D
S-ILS 17L	CAT II RA 105/12		100 DA 592	
S-ILS 17L	CAT IIIa		RVR 07	
S-ILS 17L	CAT IIIb		RVR 06	
S-ILS 17L	CAT IIIc		NA	

CATEGORY II & III ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

TDZ/CL Rwy 17L and 35R
HIRL Rwy 17L-35R and 17R-35L

AUSTIN, TEXAS
Amdt 2B 13NOV14

30°12'N-97°40'W

AUSTIN-BERGSTROM INTL (AUS)
ILS RWY 17L (CAT II & III)

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

APP CRS 173°	Rwy Idg 12250 TDZE 542 Apt Elev 542
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RNAV (RNP) Z RWY 17R

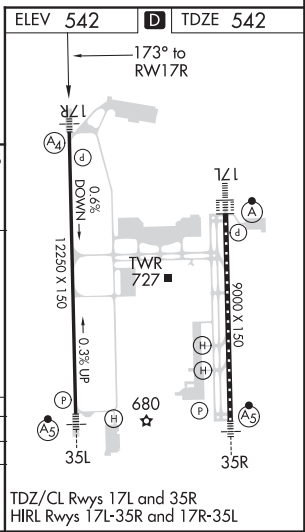
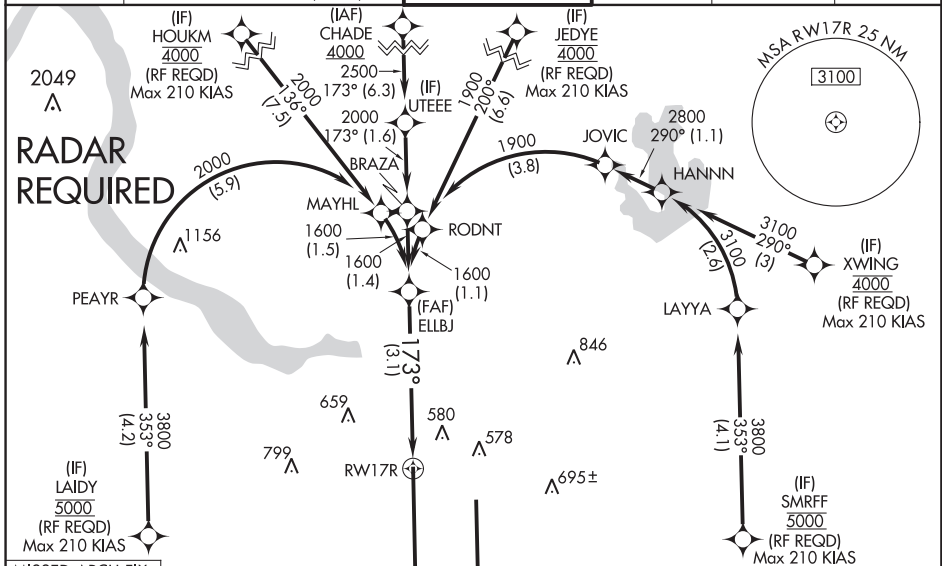
AUSTIN-BERGSTROM INTL (AUS)

▽ For uncompensated Baro-VNAV systems, procedure NA below -8°C (18°F) or above 54°C (130°F). GPS required. For inop MALS, increase RNP 0.30 Cat D visibility to RVR 5000. Use of FD or AP providing RNAV track guidance required during simultaneous operations. Simultaneous approach authorized with Rwy 17L.




MALS

 MISSED APPROACH: Climb to 1000 then climbing right turn to 3500 direct GARDS and hold.

ATIS 124.4	AUSTIN APP CON 127.225 317.65 (EAST) 120.875 270.25 (SOUTH) 119.0 370.85 (WEST)	AUSTIN TOWER 121.0 281.5	GND CON 121.9 348.6	CLNC DEL 125.5 263.0	CPDLC
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See planview for multiple IF locations.

1000	3500	GARDS
		

CATEGORY	A	B	C	D
RNP 0.30 DA		861/40	319 (400-¾)	

AUTHORIZATION REQUIRED

TDZ/CL Rwsy 17L and 35R
 HIRL Rwsy 17L-35R and 17R-35L

SC-3, 10 NOV 2016 to 05 JAN 2017


SC-3, 10 NOV 2016 to 05 JAN 2017

APP CRS	Rwy Idg	12250
353°	TDZE	496
	Apt Elev	542

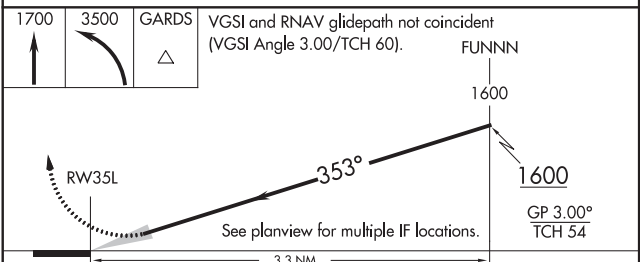
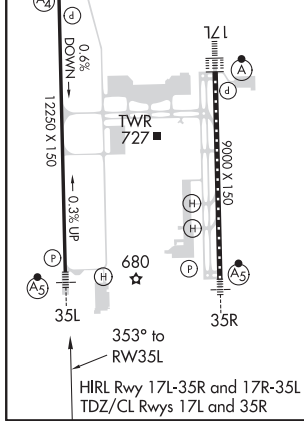
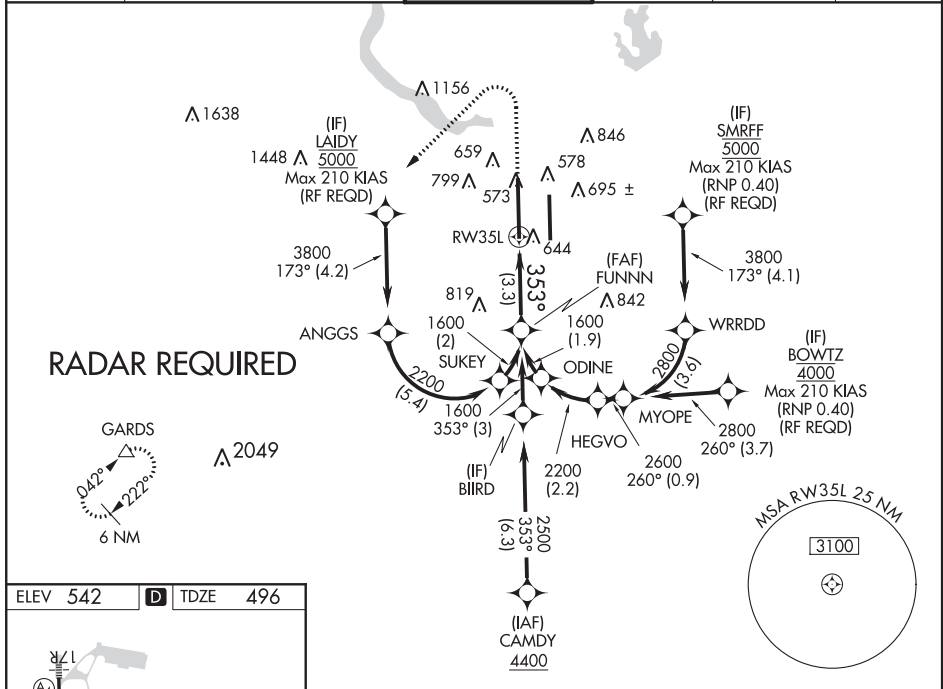
RNAV (RNP) Z RWY 35L

AUSTIN-BERGSTROM INTL (AUS)

▽ For uncompensated Baro-VNAV systems, procedure NA below -8°C (18°F) or above 54°C (130°F). GPS required. For inop MALS, increase RNP 0.11 all Cats visibility to RVR 4500 and RNP 0.30 all Cats visibility to 1½ mile. Use of FD or AP providing RNAV track guidance required during simultaneous operations. Simultaneous approach authorized with Rwy 35R.

MALS  MISSED APPROACH: Climb to 1700 then climbing left turn to 3500 direct GARDS and hold.

ATIS	AUSTIN APP CON	AUSTIN TOWER	GND CON	CLNC DEL	CPDLC
124.4	127.225 317.65 (EAST) 120.875 270.25 (SOUTH) 119.0 370.85 (WEST)	121.0 281.5	121.9 348.6	125.5 263.0	



CATEGORY	A	B	C	D
RNP 0.11 DA		765/24	269 (300-½)	
RNP 0.30 DA		952/60	456 (500-1½)	

AUTHORIZATION REQUIRED

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

RNAV (RNP) Z RWY 35R

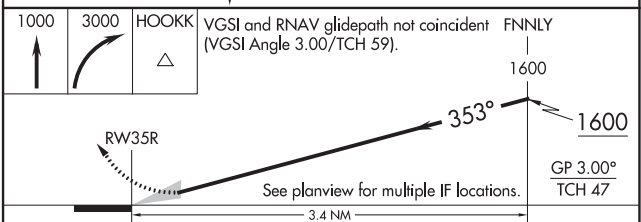
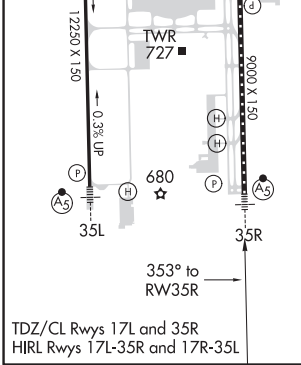
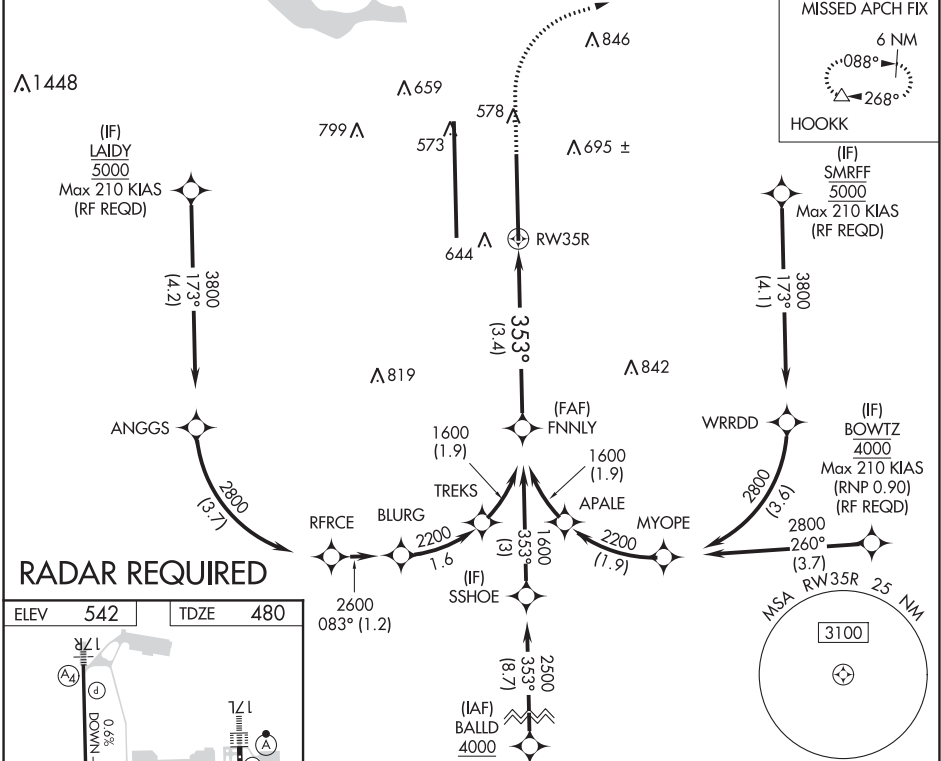
AUSTIN-BERGSTROM INTL (A US)

APP CRS	Rwy Idg	9000
353°	TDZE	480
	Apt Elev	542

▼ For uncompensated Baro-VNAV systems, procedure NA below -8°C (18°F) or above 54°C (130°F). GPS required. For inop MALSR, increase RNP 0.11 all Cats visibility to RVR 4500. Use of FD or AP providing RNAV track guidance required during simultaneous operations. Simultaneous approach authorized with Rwy 35L.

MISSED APPROACH: Climb to 1000 then climbing right turn to 3000 direct HOOKK and hold.

ATIS	AUSTIN APP CON	AUSTIN TOWER	GND CON	CLNC DEL	CPDLC
124.4	127.225 317.65 (EAST) 120.875 270.25 (SOUTH) 119.0 370.85 (WEST)	121.0 281.5	121.9 348.6	125.5 263.0	



CATEGORY	A	B	C	D
RNP 0.11 DA		750/24	270 (300-1/2)	
RNP 0.16 DA		873/45	393 (400-7/8)	
RNP 0.30 DA		951/60	471 (500-1/4)	

AUTHORIZATION REQUIRED

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

WAAS CH 62829 W17A	APP CRS 173°	Rwy Idg TDZE Apt Elev	9000 492 542
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RNAV (GPS) Y RWY 17L

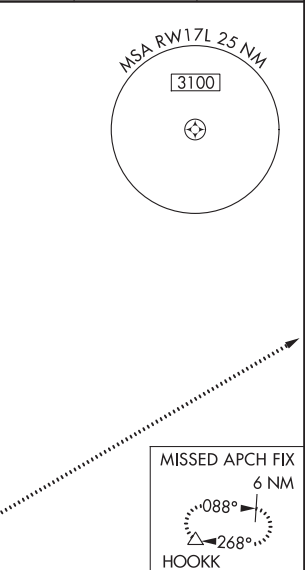
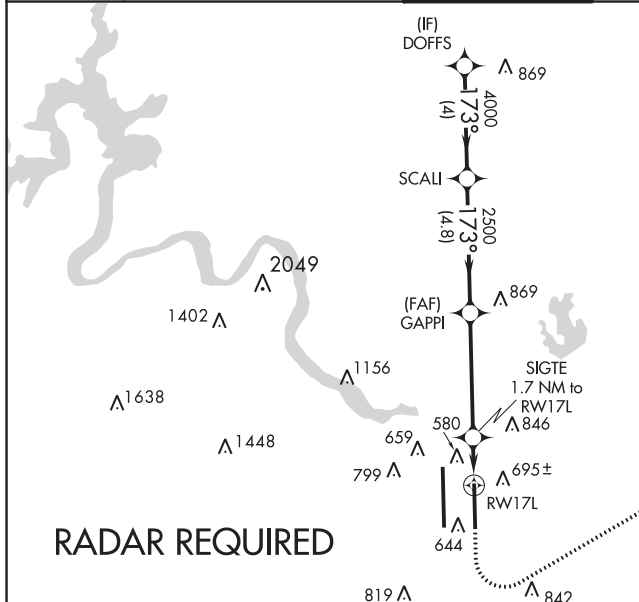
AUSTIN-BERGSTROM INTL (AUS)

⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -8°C (18°F) or above 54°C (130°F). DME/DME RNP -0.3 NA. LNAV procedure NA during simultaneous operations. Simultaneous approach authorized with Rwy 17R. Use of FD or AP providing RNAV track guidance required during simultaneous operations. For inop ALSF-2, increase LPV Cat E visibility to RVR 4000, increase LNAV/VNAV Cat E visibility to 1½ mile and increase LNAV Cat E visibility to RVR 6000.

ALSF-2
ⓐ

MISSED APPROACH:
Climb to 1000 then climbing left turn to 3000 direct HOOKK and hold.

ATIS 124.4	AUSTIN APP CON 127.225 317.65 (EAST) 120.875 270.25 (SOUTH) 119.0 370.85 (WEST)	AUSTIN TOWER 121.0 281.5	GND CON 121.9 348.6	CLNC DEL 125.5 263.0	CPDLC
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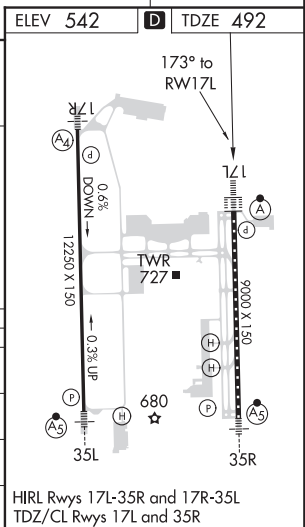


RADAR REQUIRED

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 74).				
DOFFS	SCALI	GAPPI	SIGTE	HOOKK
5000	4000	2500	1.7 NM to RWY 17L	1000 3000
*1080			*1 NM to RWY 17L	△
GP 3.00° TCH 59	4 NM	4.8 NM	4.4 NM	0.7 NM
CATEGORY	A	B	C	D E
LPV DA	692/24		200 (200-½)	
LNAV/VNAV DA	906/45		414 (400-¾)	
LNAV MDA	880/24	388 (400-½)	880/35	388 (400-¾)
CIRCLING	1040-1 498 (500-1)	1100-1 558 (600-1)	1200-1¾ 658 (700-1¾)	1200-2 658 (700-2) 1520-3 978 (1000-3)



WAAS CH 77530 W17B	APP CRS 173°	Rwy Idg 12250 TDZE 542 Apt Elev 542
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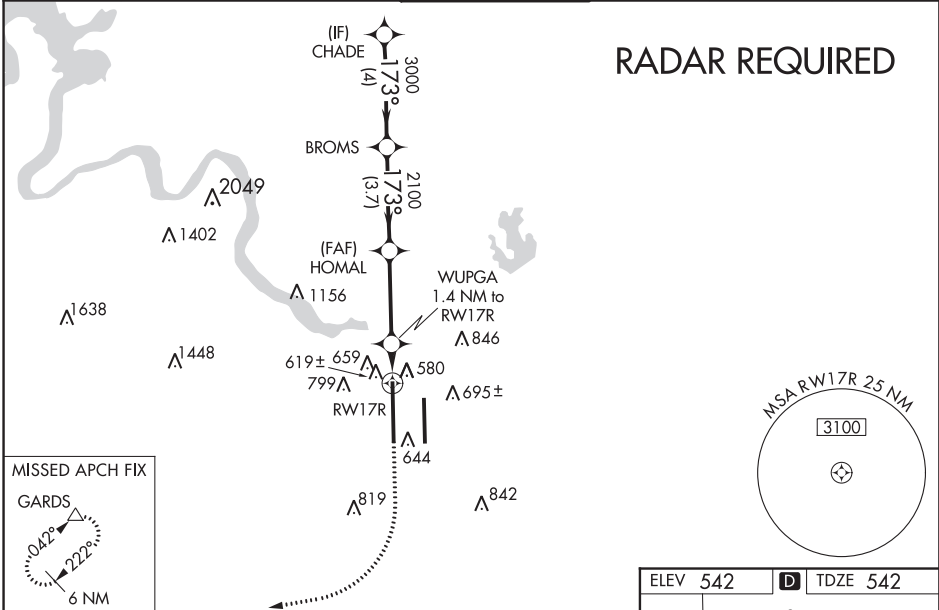
RNAV (GPS) Y RWY 17R

AUSTIN-BERGSTROM INTL (AUS)

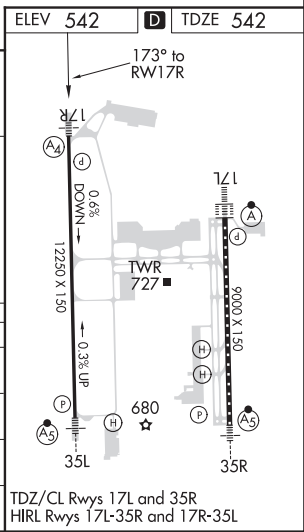
T For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -8°C (18°F) or above 54°C (130°F). Simultaneous approach authorized with Rwy 17L. LNAV procedure NA during simultaneous operations. DME/DME RNP-0.3 NA. Use of FD or AP providing RNAV track guidance required during simultaneous operations. For inop MALS, increase LNAV/VNAV all Cats visibility to RVR 4500. Increase LNAV Cats D and E visibility to RVR 5000.

MALS
MISSED APPROACH: Climb to 1000 then climbing right turn to 3500 direct GARDS and hold.

ATIS 124.4	AUSTIN APP CON 127.225 317.65 (EAST) 120.875 270.25 (SOUTH) 119.0 370.85 (WEST)	AUSTIN TOWER 121.0 281.5	GND CON 121.9 348.6	CLNC DEL 125.5 263.0	CPDLC
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	CHADE	BROMS	HOMAL	WUPGA 1.4 NM to RWY17R	GARDS
	4000	3000	2100	*1040	3500
	GP 3.00° TCH 59			*0.9 NM to RWY17R	
	4 NM	3.7 NM	3.3 NM	0.5 NM	0.9 NM
CATEGORY	A	B	C	D	E
LPV DA		742/40	200 (200-¾)		
LNAV/VNAV DA		833/40	291 (300-¾)		
LNAV MDA		880/40	338 (400-¾)		
CIRCLING	1040-1 498 (500-1)	1100-1 558 (600-1)	1200-1¾ 658 (700-1¾)	1200-2 658 (700-2)	1520-3 978 (1000-3)



SC-3, 10 NOV 2016 to 05 JAN 2017


SC-3, 10 NOV 2016 to 05 JAN 2017

WAAS CH 90229 W35A	APP CRS 353°	Rwy Idg 12250 TDZE 496 Apt Elev 542
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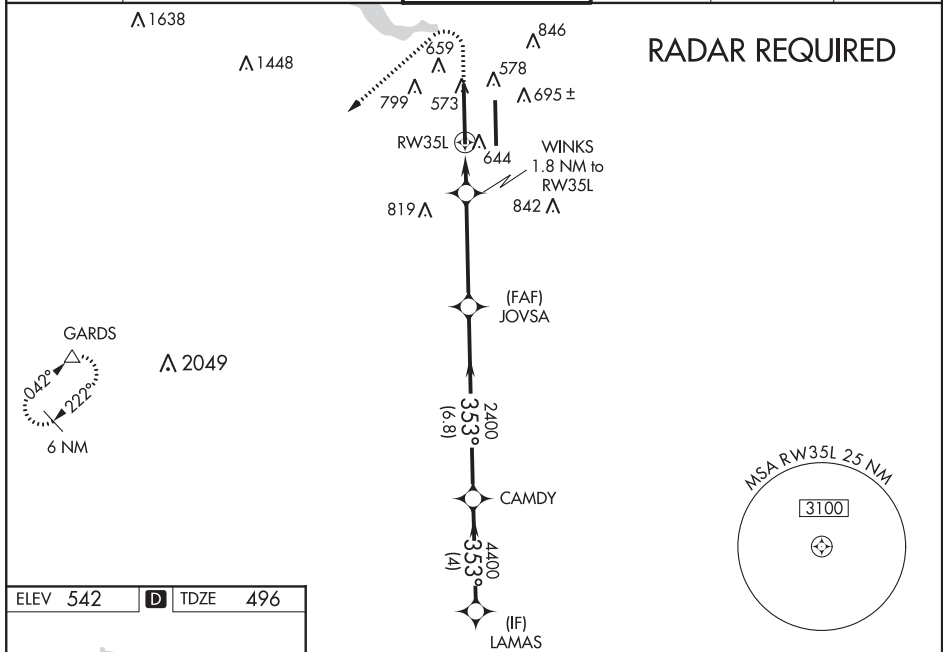
RNAV (GPS) Y RWY 35L

AUSTIN-BERGSTROM INTL (AUS)

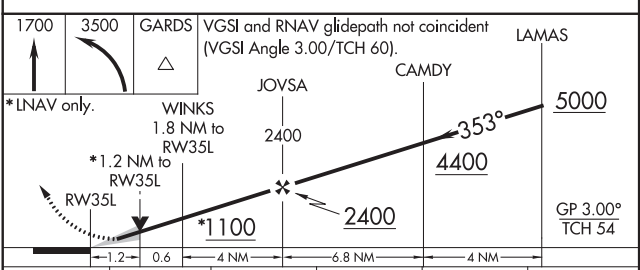
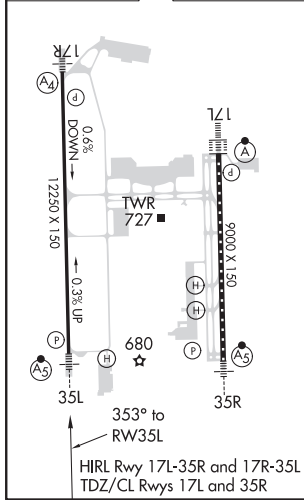
⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -8°C (18°F) or above 54°C (130°F). Simultaneous approach authorized with Rwy 35R. DME/DME RNP-0.3 NA. LNAV procedure NA during simultaneous operations. Use of FD or AP providing RNAV track guidance required during simultaneous operations. For inop MALSRS increase LPV Cat E visibility to RVR 4000, LNAV/VNAV and LNAV Cat E visibility to 1/4 mile.

MALSRS  MISSED APPROACH: Climb to 1700 then climbing left turn to 3500 direct GARDS and hold.

ATIS 124.4	AUSTIN APP CON 127.225 317.65 (EAST) 120.875 270.25 (SOUTH) 119.0 370.85 (WEST)	AUSTIN TOWER 121.0 281.5	GND CON 121.9 348.6	CLNC DEL 125.5 263.0	CPDLC
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ELEV 542	D	TDZE 496
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CATEGORY	A	B	C	D	E
LPV DA		696/24	200 (200-1/2)		
LNAV/VNAV DA		850/40	354 (400-3/4)		
LNAV MDA	920/24	424 (400-1/2)	920/40	424 (400-3/4)	
CIRCLING	1040-1 498 (500-1)	1100-1 558 (600-1)	1200-1 3/4 658 (700-1 3/4)	1200-2 658 (700-2)	1520-3 978 (1000-3)

WAAS CH 99429 W35B	APP CRS 353°	Rwy Idg TDZE 480 Apt Elev 542	9000
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RNAV (GPS) Y RWY 35R

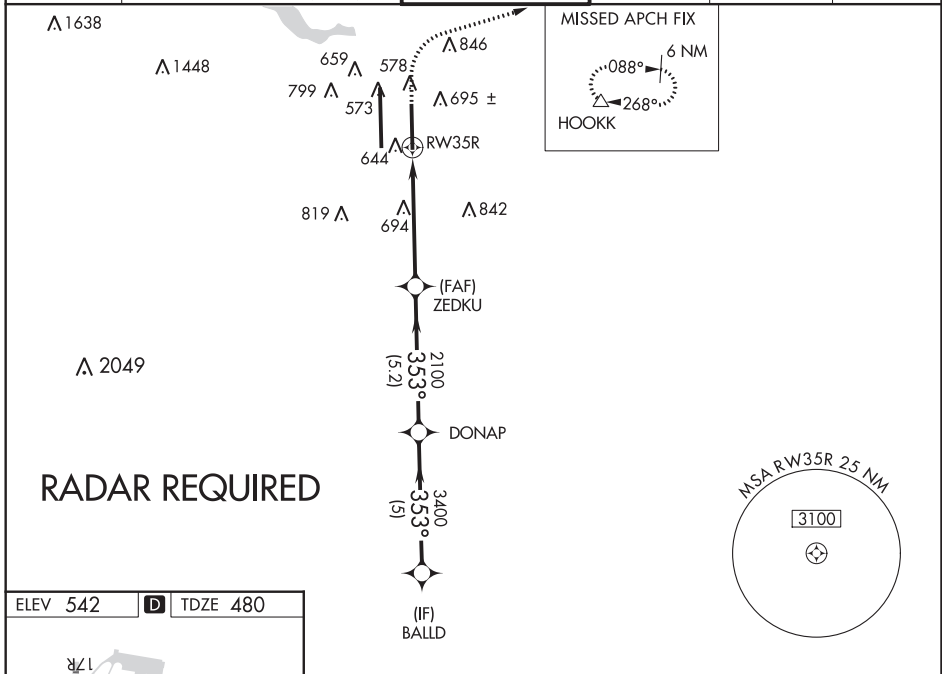
AUSTIN-BERGSTROM INTL (AUS)

▼ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -8°C (18°F) or above 54°C (130°F). Simultaneous approach authorized with Rwy 35L. DME/DME RNP-0.3 NA. LNAV procedure NA during simultaneous operations. Use of FD or AP providing RNAV track guidance required during simultaneous operations. For inop MALSR increase LPV Cat E visibility to RVR 4000, LNAV/VNAV Cat E visibility to 1 3/8 mile and LNAV Cats C/D/E visibility to 1 3/8 mile.

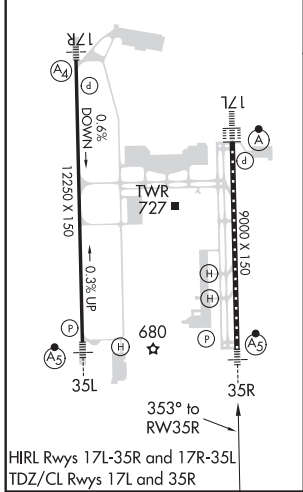
▲ MALSR

MISSED APPROACH: Climb to 1000 then climbing right turn to 3000 direct HOOKK and hold.

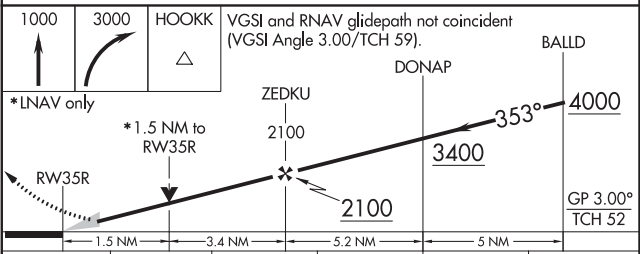
ATIS 124.4	AUSTIN APP CON 127.225 317.65 (EAST) 120.875 270.25 (SOUTH) 119.0 370.85 (WEST)	AUSTIN TOWER 121.0 281.5	GND CON 121.9 348.6	CLNC DEL 125.5 263.0	CPDLC
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ELEV 542	D	TDZE 480
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HIRL Rwy 17L-35R and 17R-35L
TDZ/CL Rwy 17L and 35R



CATEGORY	A	B	C	D	E
LPV DA	680/24		200 (200-1/2)		
LNAV/VNAV DA	880/45		400 (400-7/8)		
LNAV MDA	1000/24	520 (500-1/2)	1000/55		520 (500-1 1/4)
C CIRCLING	1040-1 498 (500-1)	1100-1 558 (600-1)	1200-1 3/4 658 (700-1 1/4)	1200-2 658 (700-2)	1520-3 978 (1000-3)

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

AIRPORT DIAGRAM

AUSTIN-BERGSTROM INTL (AUS)
AUSTIN, TEXAS

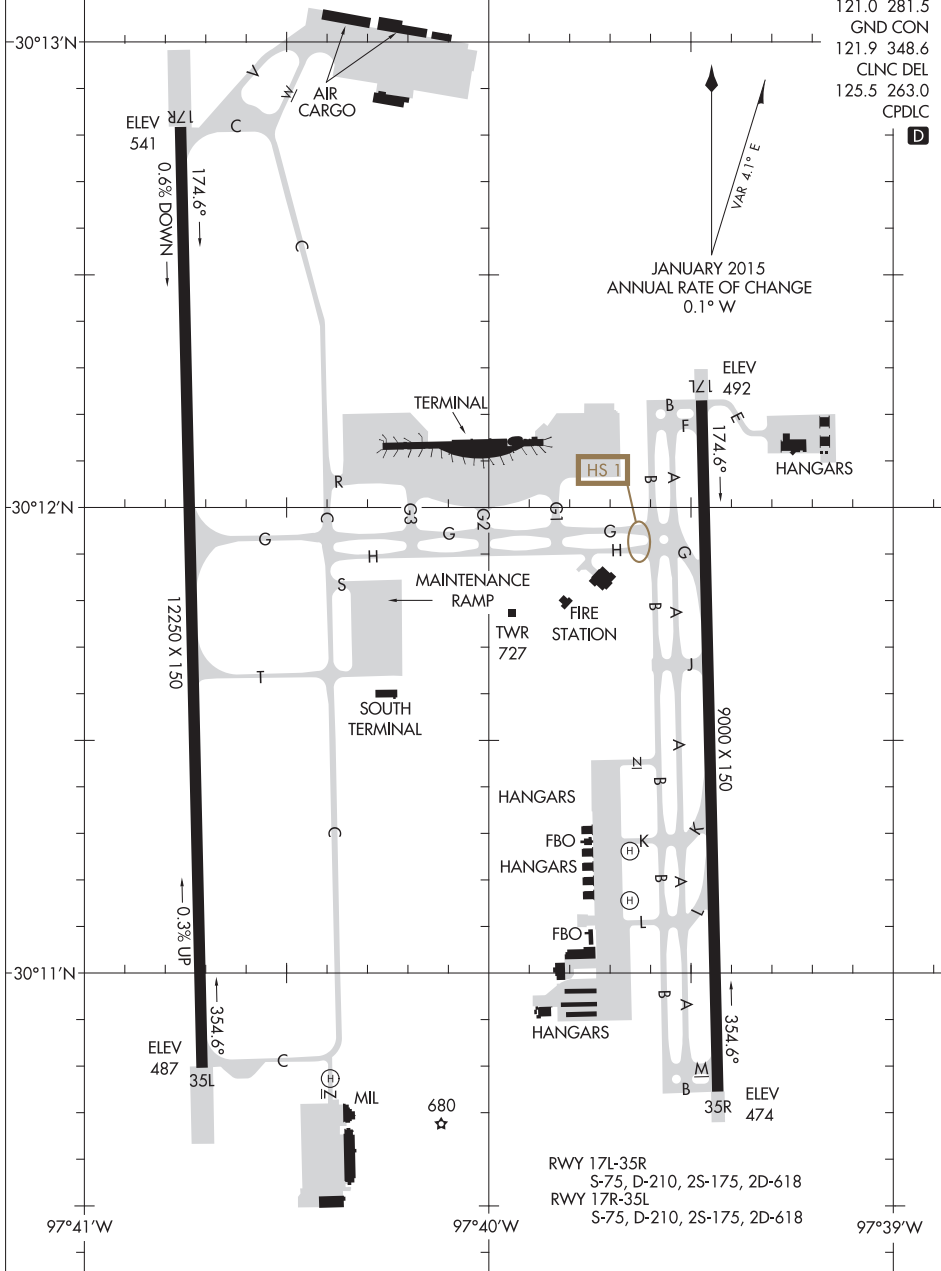
AL-556 (FAA)

FIELD
ELEV
542

CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

ATIS 124.4
 AUSTIN TOWER 121.0 281.5
 GND CON 121.9 348.6
 CLNC DEL 125.5 263.0
 CPDLC

D



SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

AIRPORT DIAGRAM

16091

AUSTIN, TEXAS
AUSTIN-BERGSTROM INTL (AUS)



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 17L/R, 35L/R: Climb on assigned heading for vectors, maintain 4000, thence via assigned transition, expect filed altitude 10 minutes after departure.

ABILENE TRANSITION (AUS4.ABI): From over CWK VORTAC via CWK R-285 and LLO R-103 to LLO VORTAC, then via LLO R-324 and ABI R-141 to ABI VORTAC.

GOOCH SPRINGS TRANSITION (AUS4.AGJ): From over CWK VORTAC via CWK R-321 and AGJ R-142 to AGJ VORTAC.

JUNCTION TRANSITION (AUS4.JCT): From over CWK VORTAC via CWK R-271 and JCT R-088 to JCT VORTAC.

LLANO TRANSITION (AUS4.LLO): From over CWK VORTAC via CWK R-285 and LLO R-103 to LLO VORTAC.

SAN ANGELO TRANSITION (AUS4.SJT): From over CWK VORTAC via CWK R-285 and LLO R-103 to LLO VORTAC, then via LLO R-284 and SJT R-102 to SJT VORTAC.

SAN ANTONIO TRANSITION (AUS4.SAT): From over CWK VORTAC via CWK R-222 and SAT R-040 to SAT VORTAC.

STONEWALL TRANSITION (AUS4.STV): From over CWK VORTAC via CWK R-271 to AMUSE INT, then via STV R-047 to STV VORTAC.

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

BNDIA ONE DEPARTURE (RNAV)

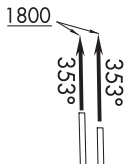
TAKEOFF MINIMUMS:

Rwys 17L/R, 35L/R: Standard.

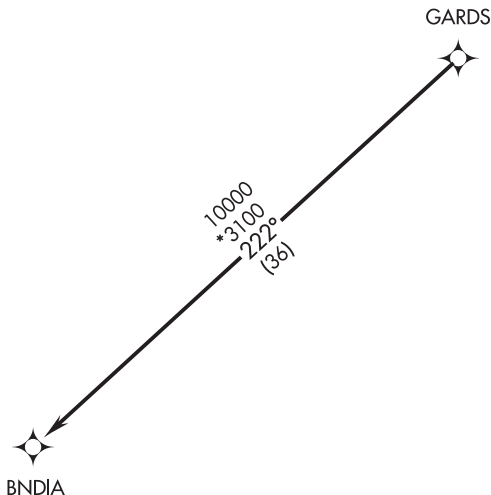
NOTE: RADAR required.

NOTE: DME/DME/IRU or GPS required.

NOTE: RNAV 1



ATIS	124.4
CLNC DEL	125.5 263.0
CPDLC	GND CON
AUSTIN TOWER	121.9 348.6
AUSTIN DEP CON	121.0 281.5
	119.0 370.85



TAKEOFF OBSTACLES:

- Rwy 17L: Trees beginning 498' from DER, 576' left of centerline, up to 80' AGL/517' MSL. Tree 617' from DER, 585' right of centerline, 55' AGL/498' MSL.
- Rwy 17R: Tree 1007' from DER, 739' right of centerline, 61' AGL/523' MSL.
- Rwy 35R: Tree 817' from DER, 664' right of centerline, 55' AGL/528' MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 17L/R: Climb on assigned heading for radar vectors to GARDS, then on depicted route to BNDIA, thence

TAKEOFF RUNWAY 35L/R: Climb heading 353° to 1800, then as assigned by ATC for radar vectors to GARDS, then on depicted route to BNDIA, thence

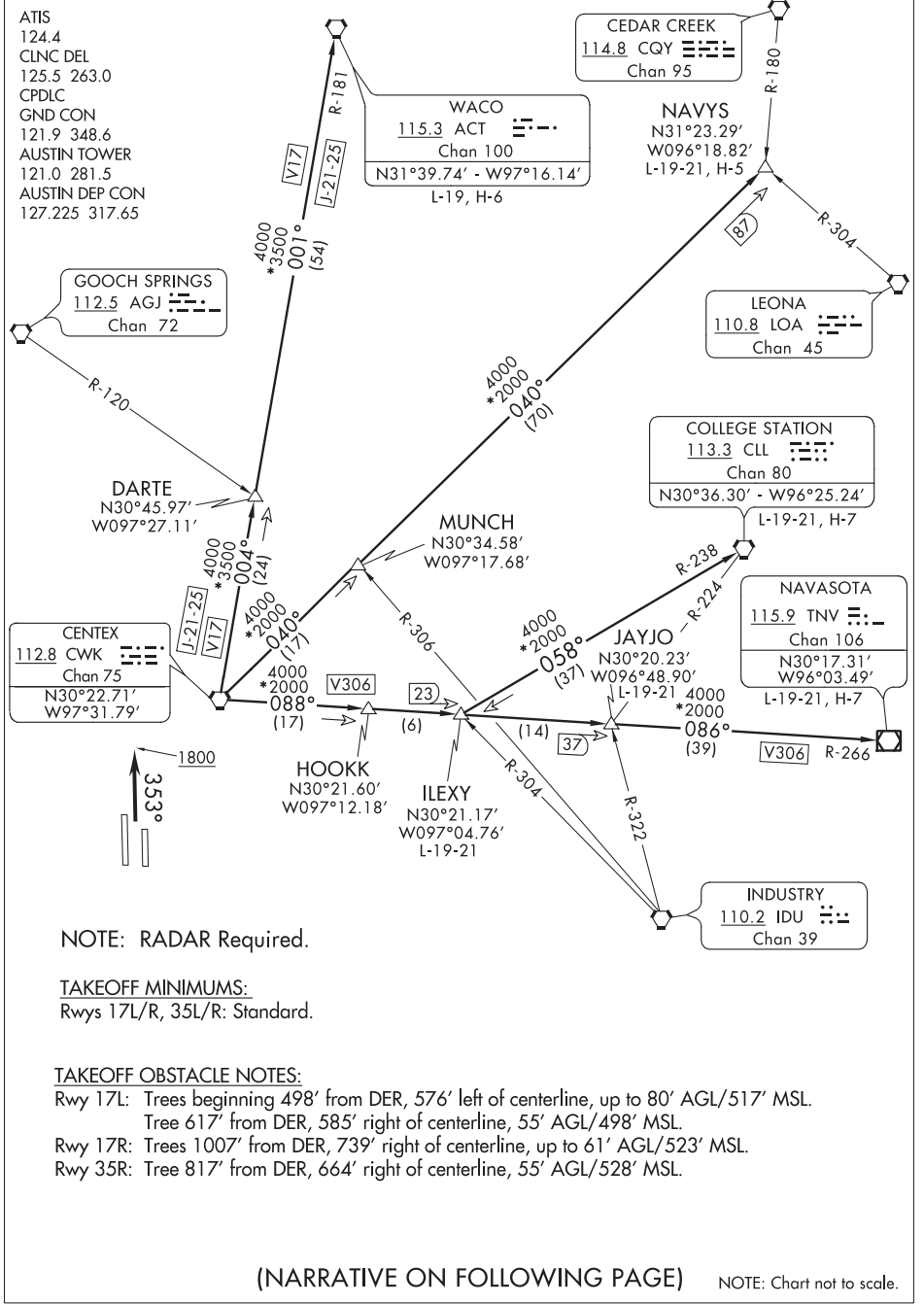
. . . . maintain 4000 or as assigned by ATC. Expect filed altitude 10 minutes after departure.

CENTEX FIVE DEPARTURE

SL-556 (FAA)

AUSTIN-BERGSTROM INTL (AUS)


AUSTIN, TEXAS




SC-3, 10 NOV 2016 to 05 JAN 2017


SC-3, 10 NOV 2016 to 05 JAN 2017

ATIS
124.4
CLNC DEL
125.5 263.0
CPDLC
GND CON
121.9 348.6
AUSTIN TOWER
121.0 281.5
AUSTIN DEP CON
127.225 317.65


CEDAR CREEK
114.8 CQY 
Chan 95

WACO
115.3 ACT 
Chan 100
N31°39.74' - W97°16.14'
L-19, H-6

NAVYS
N31°23.29'
W096°18.82'
L-19-21, H-5


GOOCH SPRINGS
112.5 AGJ 
Chan 72


LEONA
110.8 LOA 
Chan 45

COLLEGE STATION
113.3 CLL 
Chan 80
N30°36.30' - W96°25.24'
L-19-21, H-7

DARTE
N30°45.97'
W097°27.11'


MUNCH
N30°34.58'
W097°17.68'

CENTEX
112.8 CWK 
Chan 75
N30°22.71'
W97°31.79'

NAVASOTA
115.9 TNV 
Chan 106
N30°17.31'
W96°03.49'
L-19-21, H-7

HOOKK
N30°21.60'
W097°12.18'

IILEXY
N30°21.17'
W097°04.76'
L-19-21

INDUSTRY
110.2 IDU 
Chan 39

NOTE: RADAR Required.

TAKEOFF MINIMUMS:
Rwys 17L/R, 35L/R: Standard.

TAKEOFF OBSTACLE NOTES:
Rwy 17L: Trees beginning 498' from DER, 576' left of centerline, up to 80' AGL/517' MSL.
Tree 617' from DER, 585' right of centerline, 55' AGL/498' MSL.
Rwy 17R: Trees 1007' from DER, 739' right of centerline, up to 61' AGL/523' MSL.
Rwy 35R: Tree 817' from DER, 664' right of centerline, 55' AGL/528' MSL.

(NARRATIVE ON FOLLOWING PAGE) NOTE: Chart not to scale.

CENTEX FIVE DEPARTURE



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 35L: Climb via heading 353° to 1800, thence. . . .

TAKEOFF RWY 35R: Climb via heading 353° to 1800, thence. . . .

TAKEOFF RWY 17 L/R: Climb via assigned heading, thence. . . .

. . . . climb to 4000 via RADAR vectors to assigned transition. Expect filed altitude 10 minutes after departure.

COLLEGE STATION TRANSITION (CWK5.CLL): (For aircraft requesting 13,000' MSL to FL230.) From over CWK VORTAC via CWK R-088 to ILEXY INT, then via CLL R-238 to CLL VORTAC.

ILEXY TRANSITION (CWK5.ILEXY): (For Turboprop and Turbojet aircraft landing HOU; for Turbojet aircraft landing EFD, GLS or LBX; for all aircraft landing IAH.) From over CWK VORTAC via CWK R-088 to ILEXY INT.

JAYJO TRANSITION (CWK5.JAYJO): (For Piston aircraft landing HOU; for Piston and Turboprop aircraft landing EFD, GLS, or LBX; for all aircraft landing other West/South Houston Terminal Area airports.) From over CWK VORTAC via CWK R-088 to JAYJO INT.

NAVASOTA TRANSITION (CWK5.TNV): From over CWK VORTAC via CWK R-088 and TNV R-266 to TNV VOR/DME.

NAVYS TRANSITION (CWK5.NAVYS): (For aircraft landing DFW Terminal Area requesting FL230 and below.) From over CWK VORTAC via CWK R-040 to NAVYS INT.

WACO TRANSITION (CWK5.ACT): (For aircraft requesting 12,000' MSL and below.) From over CWK VORTAC via CWK R-004 and ACT R-181 to ACT VORTAC.

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SC-3, 10 NOV 2016 to 05 JAN 2017

(DILLO1.DILLO) 16091

AUSTIN-BERGSTROM INTL(AUS)

DILLO ONE DEPARTURE (RNAV)

SL-556 (FAA)

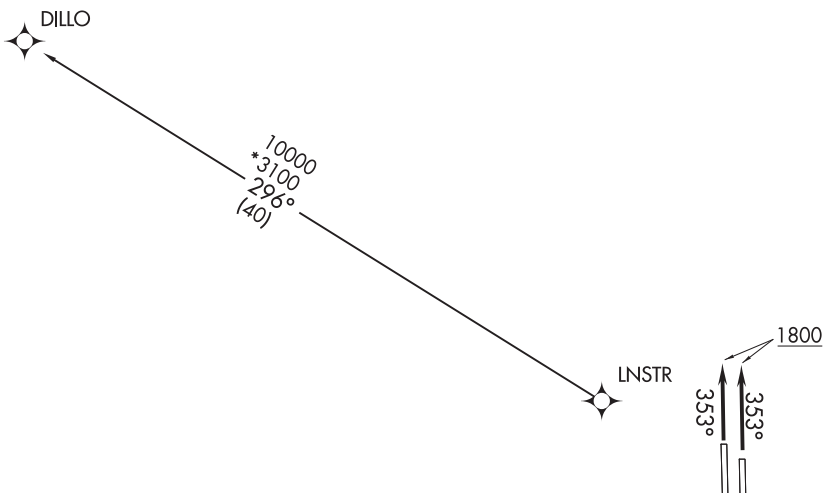
AUSTIN, TEXAS

ATIS
 124.4
 CLNC DEL
 125.5 263.0
 CPDLC
 GND CON
 121.9 348.6
 AUSTIN TOWER
 121.0 281.5
 AUSTIN DEP CON
 119.0 370.85

TAKEOFF MINIMUMS

Rwys 17L/R, 35L/R: Standard.

NOTE: RADAR required.
 NOTE: DME/DME/IRU or GPS required.
 NOTE: RNAV-1



TAKEOFF OBSTACLES

Rwy 17L: Trees beginning 498' from DER, 576' left of centerline, up to 80' AGL/517' MSL.
 Tree 617' from DER, 585' right of centerline, 55' AGL/498' MSL.
 Rwy 17R: Tree 1007' from DER, 739' right of centerline, 61' AGL/523' MSL.
 Rwy 35R: Tree 817' from DER, 664' right of centerline, 55' AGL/528' MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 17L/R: Climb on assigned heading for radar vectors to LNSTR, then on depicted route to DILLO, thence

TAKEOFF RUNWAY 35L/R: Climb heading 353° to 1800, then as assigned by ATC for radar vectors to LNSTR, then on depicted route to DILLO, thence

. . . . maintain 4000 or as assigned by ATC. Expect filed altitude 10 minutes after departure.

DILLO ONE DEPARTURE (RNAV)

(DILLO1.DILLO) 05MAR15

AUSTIN, TEXAS

AUSTIN-BERGSTROM INTL (AUS)

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

(ELOEL1 .ELOEL) 16091

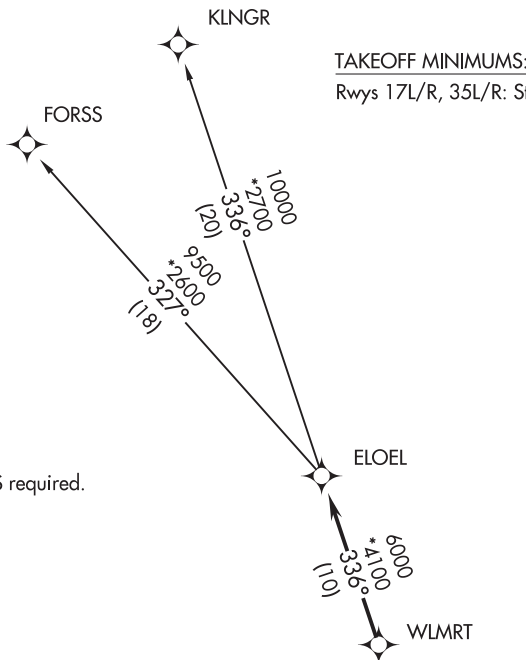
AUSTIN-BERGSTROM INTL (AUS)

ELOEL ONE DEPARTURE (RNAV)

SL-556 (FAA)

AUSTIN, TEXAS

ATIS
 124.4
 CLNC DEL
 125.5 263.0
 CPDLC
 GND CON
 121.9 348.6
 AUSTIN TOWER
 121.0 281.5
 AUSTIN DEP CON
 119.0 370.85



TAKEOFF MINIMUMS:

Rwys 17L/R, 35L/R: Standard.

NOTE: RADAR required.
 NOTE: DME/DME/IRU or GPS required.
 NOTE: RNAV-1

TAKEOFF OBSTACLES:

Rwy 17L: Trees beginning 498' from DER, 576' left of centerline, up to 80' AGL/517' MSL. Tree 617' from DER, 585' right of centerline, 55' AGL/498' MSL.
 Rwy 17R: Tree 1007' from DER, 739' right of centerline, 61' AGL/523' MSL.
 Rwy 35R: Tree 817' from DER, 664' right of centerline, 55' AGL/528' MSL.



NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 17L/R: Climb on assigned heading for radar vectors to WLMRT, then on depicted route to ELOEL, thence

TAKEOFF RUNWAY 35L/R: Climb heading 353° to 1800, then as assigned by ATC for radar vectors to WLMRT, then on depicted route to ELOEL, thence

. . . . On (transition). Maintain 4000 or as assigned by ATC. Expect filed altitude 10 minutes after departure.

FORSS TRANSITION (ELOEL1 .FORSS):

KLNGR TRANSITION (ELOEL1 .KLNGR):

ELOEL ONE DEPARTURE (RNAV)

(ELOEL1 .ELOEL) 05MAR15

AUSTIN, TEXAS

AUSTIN-BERGSTROM INTL (AUS)

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

(ILEXY1 .ILEXY) 16091

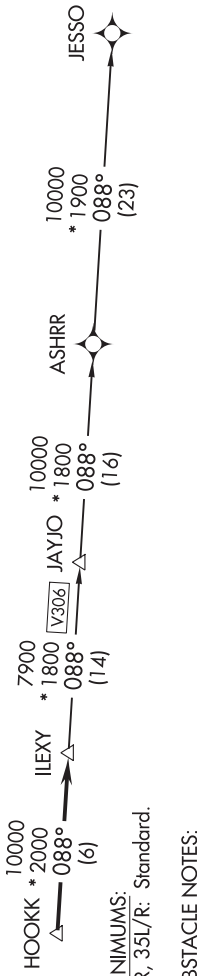
ILEXY ONE DEPARTURE (RNAV)

SL-556

AUSTIN-BERGSTROM INTL (AUS)
AUSTIN, TEXAS

Chart not to scale.

- ATIS 124.4
- CINCL DEL 125.5 263.0
- CPDLC
- GND CON 121.9 348.6
- AUSTIN TOWER 121.0 281.5
- AUSTIN DEP CON 127.225 317.65



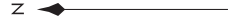
TAKEOFF MINIMUMS:
RWYS 17L/R, 35L/R: Standard.

TAKEOFF OBSTACLE NOTES:
Rwy 17L: Trees beginning 498' from DER, 576' left of centerline, up to 80' AGL/517' MSL.

Rwy 17R: Tree 617' from DER, 585' right of centerline, 55' AGL/498' MSL.

Rwy 35R: Tree 817' from DER, 664' right of centerline, 55' AGL/528' MSL.

- NOTE: RADAR required.
- NOTE: DME/DME/IRU or GPS required.
- NOTE: RNAV-1.
- NOTE: Houston terminal area arrivals expect routing from ILEXY.
- NOTE: JAYJO transition to join V306 only.



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWYS 17L/R: Climb on assigned heading for radar vectors to HOOKK, then on depicted route to ILEXY, thence

TAKEOFF RWYS 35L/R: Climb heading 353° to 1800, then as assigned by ATC, expect radar vectors to HOOKK, then on depicted route to ILEXY, thence

. . . . on (transition). Maintain 4000 or as assigned by ATC. Expect filed altitude 10 minutes after departure.

JAYJO TRANSITION (ILEXY1 .JAYJO):

JESSO TRANSITION (ILEXY1 .JESSO):

ILEXY ONE DEPARTURE (RNAV)

(ILEXY1 .ILEXY) 05MAR15

AUSTIN, TEXAS
AUSTIN-BERGSTROM INTL (AUS)

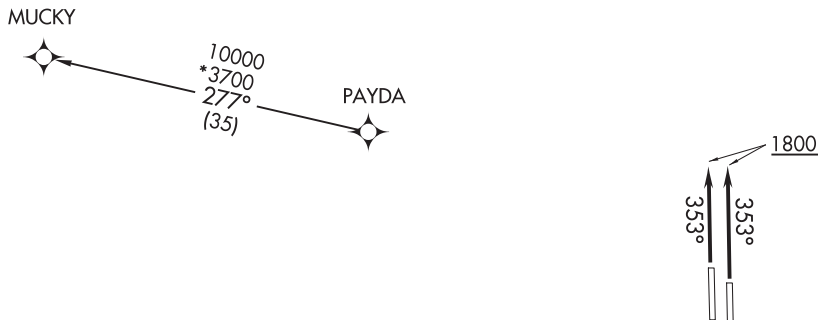
MUCKY ONE DEPARTURE (RNAV)

ATIS
 124.4
 CLNC DEL
 125.5 263.0
 CPDLC
 GND CON
 121.9 348.6
 AUSTIN TOWER
 121.0 281.5
 AUSTIN DEP CON
 119.0 370.85

TAKEOFF MINIMUMS:

Rwys 17L, 17R, 35L, 35R: Standard.

NOTE: RADAR required.
 NOTE: DME/DME/IRU or GPS required.
 NOTE: RNAV-1.



TAKEOFF OBSTACLE NOTES:

- Rwy 17L: Trees beginning 498' from DER, 576' left of centerline, up to 80' AGL/517' MSL. Tree 617' from DER, 585' right of centerline, 55' AGL/498' MSL.
- Rwy 17R: Tree 1007' from DER, 739' right of centerline, 61' AGL/523' MSL.
- Rwy 35R: Tree 817' from DER, 664' right of centerline, 55' AGL/528' MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWYS 17L/R: Climb on assigned heading for radar vectors to PAYDA, then on depicted route to MUCKY, thence. . . .

TAKEOFF RWYS 35L/R: Climb heading 353° to 1800, then as assigned by ATC for radar vectors to PAYDA, then on depicted route to MUCKY, thence. . . .

. . . .Maintain 4000 or as assigned by ATC. Expect filed altitude 10 minutes after departure.

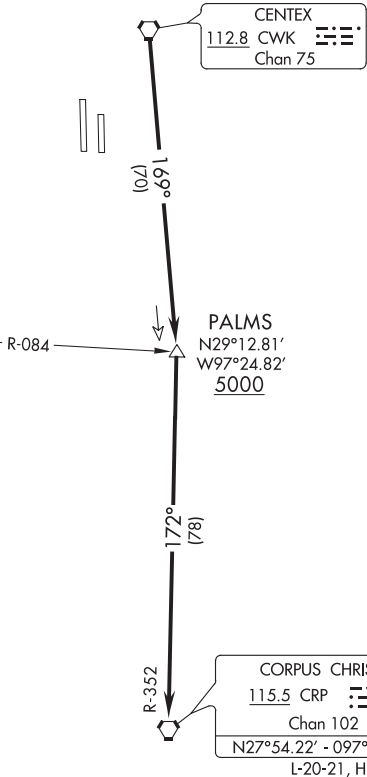
PALMS ONE DEPARTURE

SL-556 (FAA)

AUSTIN, TEXAS

ATIS
 124.4
 CLNC DEL
 125.5 263.0
 CPDLC
 GND CON
 121.9 348.6
 AUSTIN TOWER
 121.0 281.5
 AUSTIN DEP CON
 120.87 270.25

STINSON
 108.4 SSF



TAKE-OFF MINIMUMS:

- Rwys 17L/17R, standard.
- Rwy 35L, standard with an obstacle climb of 227' per NM to 2600.
- Rwy 35R, standard with an obstacle climb of 204' per NM to 2600.

- NOTE: Rwy 17L, multiple trees beginning 498' from departure end of runway, 576' left of centerline, up to 80' AGL/517' MSL.
 Tree 617' from departure end of runway, 584' right of centerline, 55' AGL/498' MSL.
- NOTE: Rwy 17R, multiple trees beginning 1007' from departure end of runway, 730' right of centerline to 603' left of centerline up to 61' AGL/540' MSL.
- NOTE: Rwy 35R, tree 816' from departure end of runway, 663' right of centerline, 55' AGL/528' MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 35L/R, 17L/R: Fly tower assigned heading for vectors to CWK VORTAC, maintain 4000, expect filed altitude 10 minutes after departure, then via CWK R-169 to PALMS INT, cross PALMS INT at or above 5000, then via CRP R-352 to CRP VORTAC.

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

(SAYBR1.SAYBR) 16091

SAYBR ONE DEPARTURE (RNAV)

AUSTIN-BERGSTROM INTL (AUS)

SL-556 (FAA)

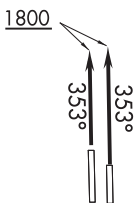
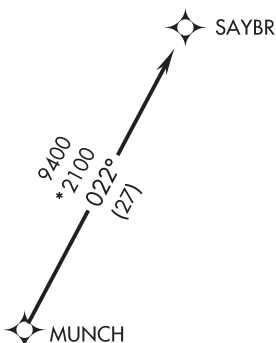
AUSTIN, TEXAS

ATIS
 124.4
 CLNC DEL
 125.5 263.0
 CPDLC
 GND CON
 121.9 348.6
 AUSTIN TOWER
 121.0 281.5
 AUSTIN DEP CON
 127.225 317.65

TAKEOFF MINIMUMS:

Rwys 17L, 17R, 35L, 35R: Standard.

- NOTE: RADAR required.
- NOTE: DME/DME/IRU or GPS required.
- NOTE: RNAV-1
- NOTE: For DFW Terminal Area Arrivals at FL230 or below only.



TAKEOFF OBSTACLE NOTES:

- Rwy 17L: Trees beginning 498' from DER, 576' left of centerline, up to 80' AGL/517' MSL.
Tree 617' from DER, 585' right of centerline, 55' AGL/498' MSL.
- Rwy 17R: Tree 1007' from DER, 739' right of centerline, 61' AGL/523' MSL.
- Rwy 35R: Tree 817' from DER, 664' right of centerline, 55' AGL/528' MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWYS 17L/R: Climb on assigned heading for radar vectors to MUNCH, then on depicted route to SAYBR, thence

TAKEOFF RWYS 35L/R: Climb heading 353° to 1800, then as assigned by ATC for radar vectors to MUNCH, then on depicted route to SAYBR, thence

. . . . Maintain 4000 or as assigned by ATC. Expect filed altitude 10 minutes after departure.

SAYBR ONE DEPARTURE (RNAV)

(SAYBR1.SAYBR) 05MAR15

AUSTIN, TEXAS

AUSTIN-BERGSTROM INTL (AUS)

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

WAAS CH 72932 W08A	APP CRS 081°	Rwy Idg 6330 TDZE 589 Apt Elev 595
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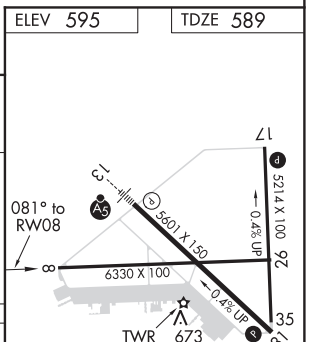
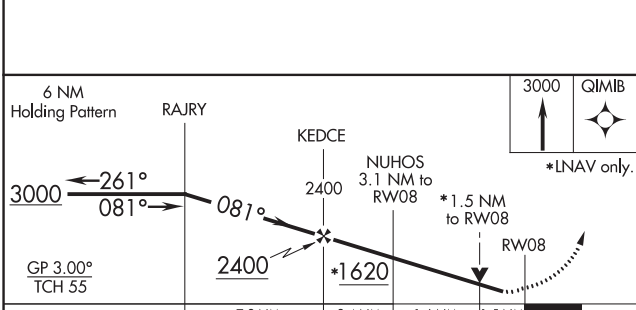
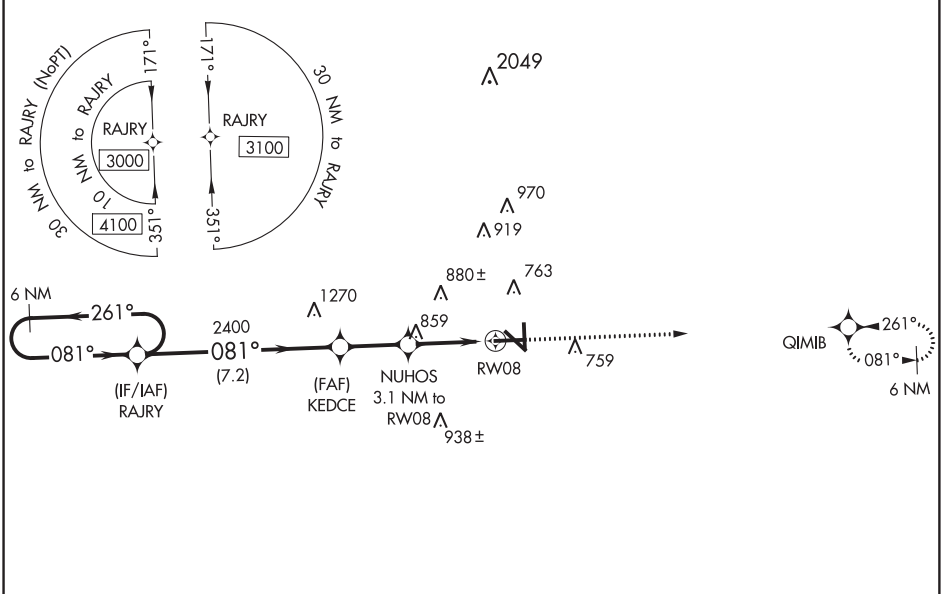
RNAV (GPS) RWY 8

SAN MARCOS RGNL (HYI)

⚠ Baro-VNAV NA when using New Braunfels altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (3°F) or above 54°C (130°F). When local altimeter setting not received, use New Braunfels altimeter setting and increase all DA 43 feet and all MDA 60 feet; increase LPV and LNAV/VNAV all Cats visibility 1/8 mile; and increase LNAV Cat C/D/E and Circling Cat C/D visibility 1/4 mile. Circling NA for Cat E SW of Rwy 13-31. DME/DME RNP-0.3 NA. VDP NA with New Braunfels altimeter setting. Helicopter visibility reduction below 3/4 SM NA.

MISSED APPROACH: Climb to 3000 direct QIMIB and hold.

AWOS-3 120.825	AUSTIN APP CON 119.0 370.85	SAN MARCOS TOWER ★ 126.825 (CTAF) 0	GND CON 120.125	CLNC DEL 121.35 (When ATCT closed)
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CATEGORY	A	B	C	D	E
LPV DA	839-3/4		250 (300-3/4)		
LNAV/VNAV DA	910-1		321 (400-1)		
LNAV MDA	1120-1	531 (600-1)	1120-1 1/2	531 (600-1 1/2)	
C CIRCLING	1120-1	525 (600-1)	1240-1 3/4 645 (700-1 3/4)	1320-2 1/4 725 (800-2 1/4)	1340-2 3/4 745 (800-2 3/4)

MIRL Rwy's 8-26, 13-31, and 17-35 **0**

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

WAAS CH 86232 W13A	APP CRS 126°	Rwy Idg TDZE Apt Elev	5601 593 595
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RNAV (GPS) RWY 13

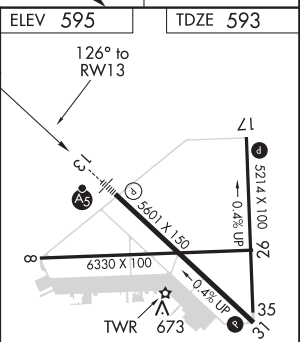
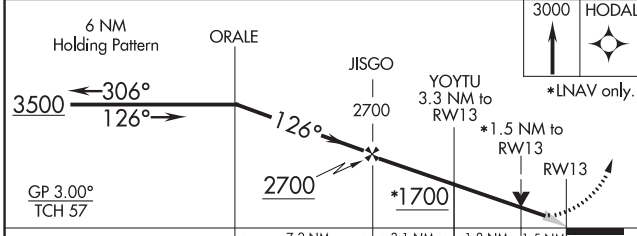
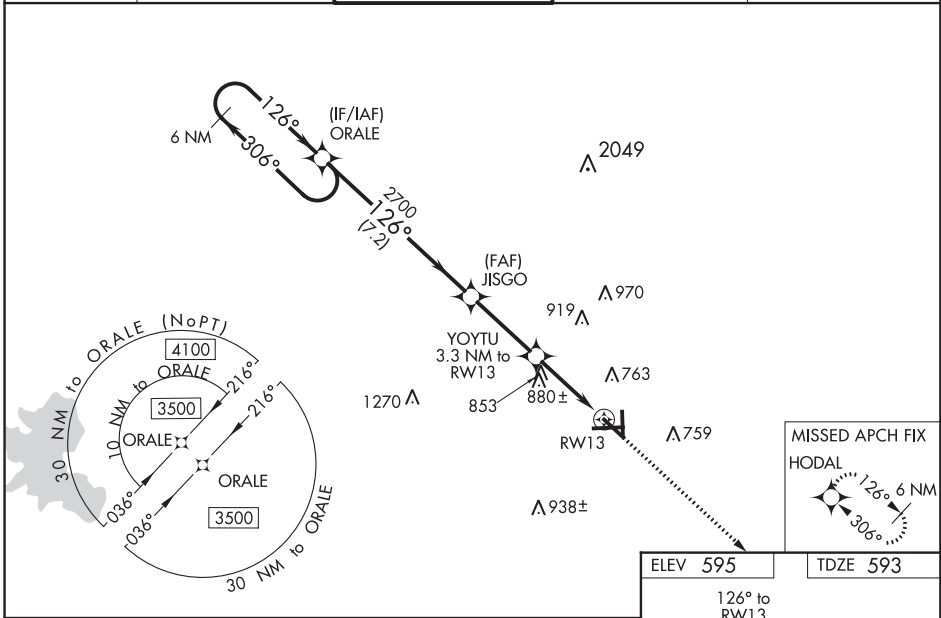
SAN MARCOS RGNL (HYI)

▼ Baro-VNAV NA when using New Braunfels altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -1.6°C (3°F) or above 54°C (130°F). When local altimeter setting not received, use New Braunfels altimeter setting and increase all DA 43 feet and all MDA 60 feet; increase LNAV/VNAV all Cats, LNAV Cat C/D/E and Circling Cat C/D visibility ¼ mile. For inoperative MALSR, increase LPV Cat E visibility to ¾, LNAV/VNAV Cat E visibility to 1½ and LNAV Cat E visibility to 1½. For inoperative MALSR when using New Braunfels altimeter setting, increase LPV Cat E visibility to ¾, LNAV/VNAV Cat E visibility to 1¼ and LNAV Cat E visibility to 1¾. Circling NA to Cat E SW of Rwy 13-31. DME/DME RNP-0.3 NA. VDP NA with New Braunfels altimeter setting.

MALSR

MISSED APPROACH:
Climb to 3000 direct HODAL and hold.

AWOS-3 120.825	AUSTIN APP CON 119.0 370.85	SAN MARCOS TOWER ★ 126.825 (CTAF)	GND CON 120.125	CLNC DEL 121.35 (When ATCT closed)
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CATEGORY	A	B	C	D	E
LPV DA		793-½	200 (200-½)		
LNAV/VNAV DA		946-5/8	353 (400-5/8)		
LNAV MDA	1120-½	527 (600-½)	1120-1	527 (600-1)	
CIRCLING	1120-1	525 (600-1)	1240-1¾ 645 (700-1¾)	1320-2¼ 725 (800-2¼)	1340-2¾ 745 (800-2¾)

MIRL Rwy's 8-26, 13-31, and 17-35

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

WAAS CH 77832 W17A	APP CRS 171°	Rwy Idg TDZE Apt Elev	5214 595 595
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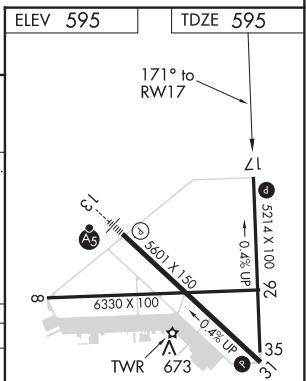
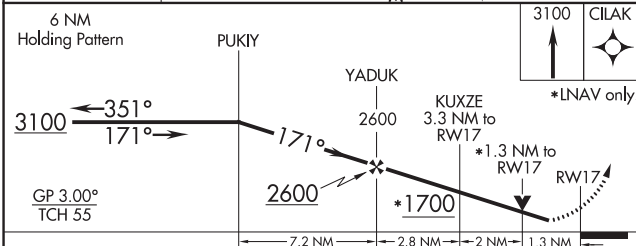
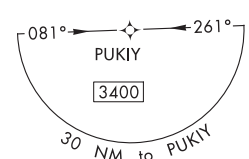
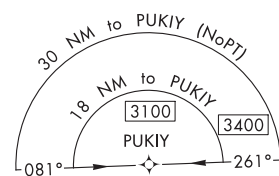
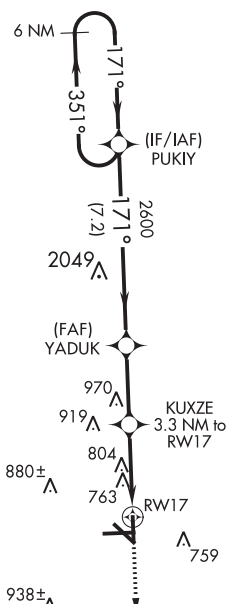
RNAV (GPS) RWY 17

SAN MARCOS RGNL (HYI)

⚠ Baro-VNAV NA when using New Braunfels altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (3°F) or above 54°C (130°F). When local altimeter setting not received, use New Braunfels altimeter setting and increase all DA 43 feet and all MDA 60 feet; increase LPV all Cats and Circling Cat C/D visibility ¼ mile, increase LNAV/VNAV all Cats and LNAV Cats C/D/E visibility ½ mile. Circling NA for Cat E SW of Rwy 13-31. DME/DME RNP-0.3 NA. VDP NA with New Braunfels altimeter setting. Helicopter visibility reduction below ¾ SM not authorized.

MISSED APPROACH:
Climb to 3100 direct CILAK and hold.

AWOS-3 120.825	AUSTIN APP CON 119.0 370.85	SAN MARCOS TOWER* 126.8250 (CTAF)	GND CON 120.125	CINC DEL 121.35 (when ATCT closed)
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CATEGORY	A	B	C	D	E
LPV DA		960-1½	365 (400-1½)		
LNAV/VNAV DA		1052-1½	457 (500-1½)		
LNAV MDA	1060-1	465 (500-1)	1060-1¾	465 (500-1¾)	
CIRCLING	1080-1 485 (500-1)	1120-1 525 (600-1)	1240-1¾ 645 (700-1¾)	1320-2¼ 725 (800-2¼)	1340-2¾ 745 (800-2¾)

MIRL Rwy's 8-26, 13-31, and 17-35

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

AUSTIN, TEXAS

AL-502 (FAA)

16175

WAAS CH 78332 W26A	APP CRS 261°	Rwy Idg 6330 TDZE 587 Apt Elev 595
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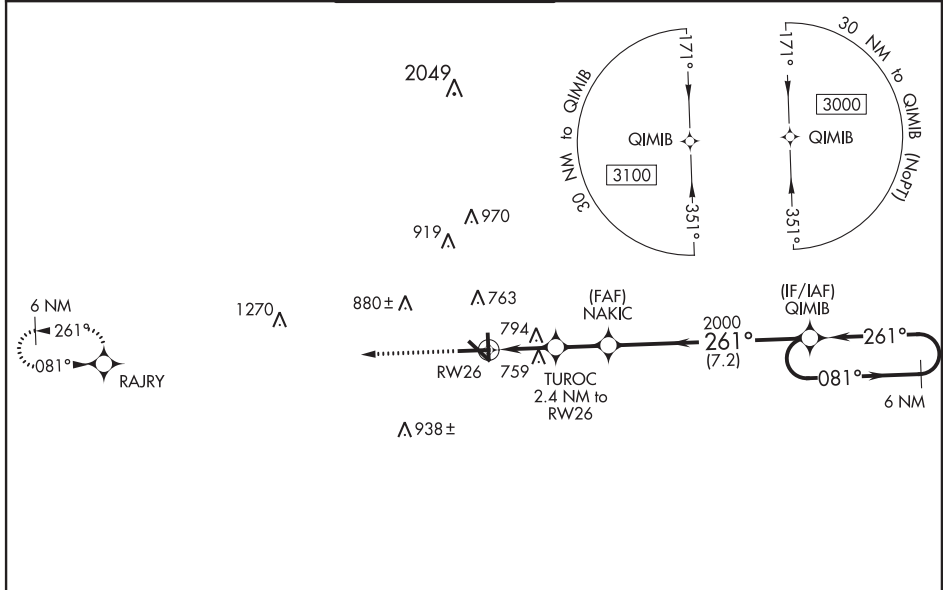
RNAV (GPS) RWY 26

SAN MARCOS RGNL (HYI)

⚠ Baro-VNAV NA when using New Braunfels altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (3°F) or above 54°C (130°F). When local altimeter setting not received, use New Braunfels altimeter setting and increase all DA 43 feet and all MDA 60 feet; increase LPV and LNAV/VNAV all Cats, and LNAV Cat C/D/E visibility 1/8 mile and Circling Cat C/D visibility 1/4 mile. Circling NA for Cat E SW of Rwy 13-31. DME/DME RNP-0.3 NA. VDP NA with New Braunfels altimeter setting. Helicopter visibility reduction below 3/4 SM NA.

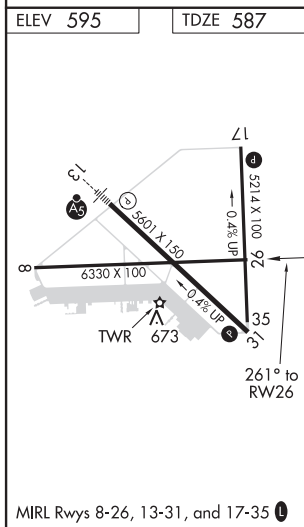
MISSED APPROACH:
Climb to 3000 direct RAJRY and hold.

AWOS-3 120.825	AUSTIN APP CON 119.0 370.85	SAN MARCOS TOWER ★ 126.825 (CTAF) 📻	GND CON 120.125	CLNC DEL 121.35 (When ATCT closed)
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SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017



3000	RAJRY	*LNAV only.	NAKIC	QIMIB	6 NM Holding Pattern
			TUROC 2.4 NM to RW26	2000	GP 3.00° TCH 55
		*1.3 NM to RW26	*1400	2000	
		1.3 NM	1.1 NM	1.9 NM	7.2 NM
CATEGORY	A	B	C	D	E
LPV DA		837-3/4	250 (300-3/4)		
LNAV/VNAV DA		866-7/8	279 (300-7/8)		
LNAV MDA	1060-1	473 (500-1)	1060-1 3/8	473 (500-1 3/8)	
📻 CIRCLING	1080-1 485 (500-1)	1120-1 525 (600-1)	1240-1 3/4 645 (700-1 3/4)	1320-2 1/4 725 (800-2 1/4)	1340-2 3/4 745 (800-2 3/4)

AUSTIN, TEXAS
Orig-B 23JUN16

29°54'N-97°52'W

SAN MARCOS RGNL (HYI)

RNAV (GPS) RWY 26

WAAS CH 90432 W31A	APP CRS 306°	Rwy Idg TDZE Apt Elev	5601 583 595
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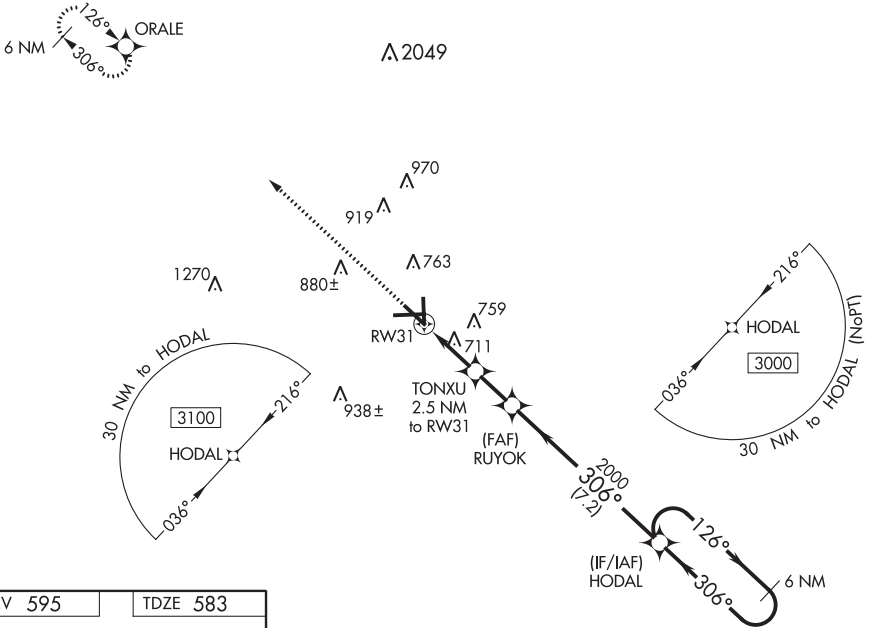
RNAV (GPS) RWY 31

SAN MARCOS RGNL (HYI)

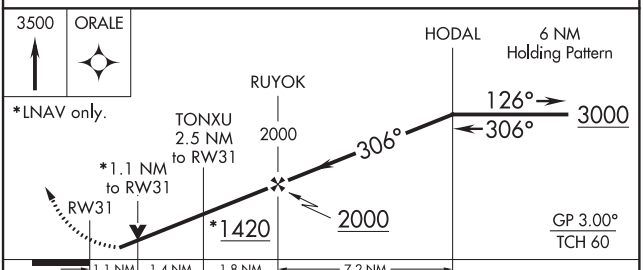
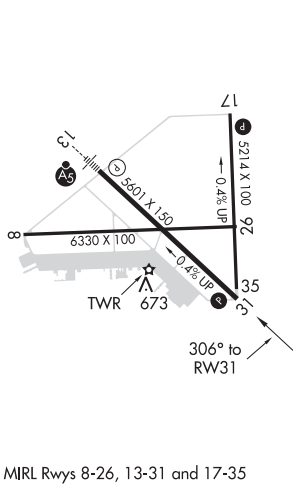
⚠ Baro-VNAV NA when using New Braunfels altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (3°F) or above 54°C (130°F). When local altimeter setting not received, use New Braunfels altimeter setting and increase all DA 43 feet and all MDA 60 feet; increase LPV all Cats and LNAV/VNAV all Cats visibility 1/8 mile and LNAV Cat C/D/E and Circling Cat C/D visibility 1/4. Circling NA for Cat E SW of Rwy 13-31. DME/DME RNP-0.3 NA. VDP NA with New Braunfels altimeter setting. Helicopter visibility reduction below 3/4 SM NA.

MISSED APPROACH:
Climb to 3500 direct
ORALE and hold.

AWOS-3 120.825	AUSTIN APP CON 119.0 370.85	SAN MARCOS TOWER * 126.825 (CTAF) 📻	GND CON 120.125	CLNC DEL 121.35 (When ATCT closed)
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ELEV 595	TDZE 583
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CATEGORY	A	B	C	D	E
LPV DA	860-7/8		277 (300-7/8)		
LNAV/VNAV DA	906-1		323 (400-1)		
LNAV MDA	980-1	397 (400-1)	980-1 1/8		397 (400-1 1/8)
CIRCLING	1080-1	1120-1	1240-1 3/4	1320-2 1/4	1340-2 3/4
	485 (500-1)	525 (600-1)	645 (700-1 3/4)	725 (800-2 1/4)	745 (800-2 3/4)

MIRL Rws 8-26, 13-31 and 17-35

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

AUSTIN, TEXAS

AL-502 (FAA)

16175

WAAS CH 70632 W35A	APP CRS 351°	Rwy Idg TDZE 583 Apt Elev 595	5214
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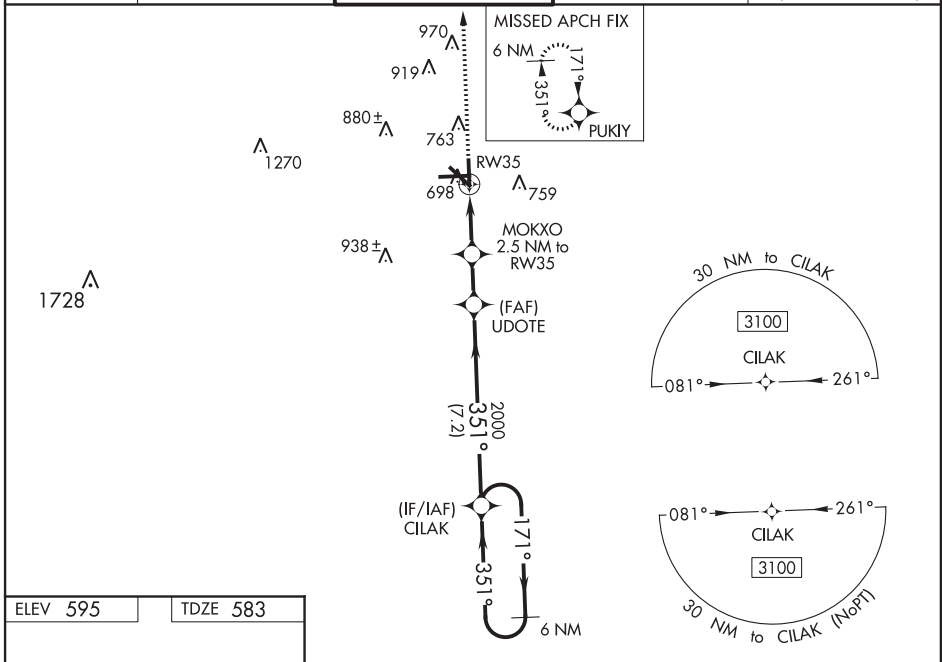
RNAV (GPS) RWY 35

SAN MARCOS RGNL (HYI)

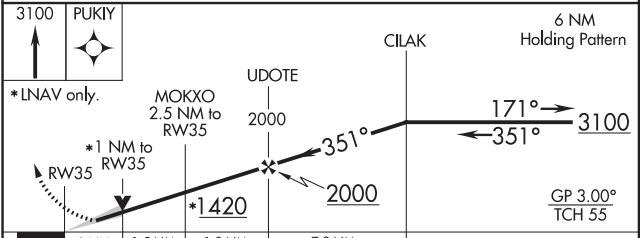
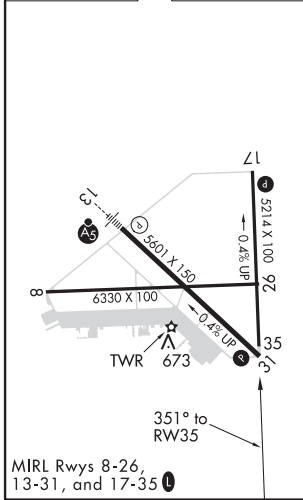
⚠ Baro-VNAV NA when using New Braunfels altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (3°F) or above 54°C (130°F). When local altimeter setting not received, use New Braunfels altimeter setting and increase all DA 43 feet and all MDA 60 feet; increase LPV all Cats and LNAV/VNAV all Cats visibility 1/8 mile; and increase LNAV Cat C/D/E visibility and Circling Cat C/D visibility 1/4. Circling NA for Cat E SW of Rwy 13-31. DME/DME RNP-0.3 NA. VDP NA with New Braunfels altimeter setting.

MISSED APPROACH:
Climb to 3100 direct PUKIY and hold.

AWOS-3 120.825	AUSTIN APP CON 119.0 370.85	SAN MARCOS TOWER ★ 126.825 (CTAF) 📻	GND CON 120.125	CLNC DEL 121.35 (When ATCT closed)
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ELEV 595	TDZE 583
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CATEGORY	A	B	C	D	E
LPV DA		833-3/4	250 (300-3/4)		
LNAV/VNAV DA		884-1	301 (300-1)		
LNAV MDA	960-1	377 (400-1)	960-1 1/8	377 (400-1 1/8)	
C CIRCLING	1080-1 485 (500-1)	1120-1 525 (600-1)	1240-1 3/4 645 (700-1 1/4)	1320-2 1/4 725 (800-2 1/4)	1340-2 3/4 745 (800-2 3/4)

AUSTIN, TEXAS
Orig-B 23JUN16

29°54'N-97°52'W

SAN MARCOS RGNL (HYI) RNAV (GPS) RWY 35

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

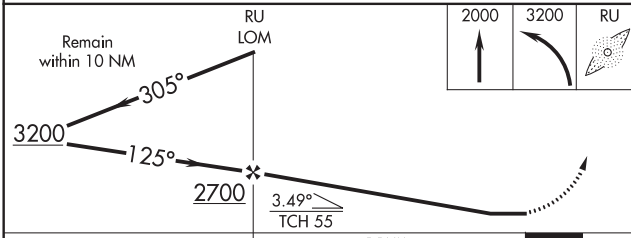
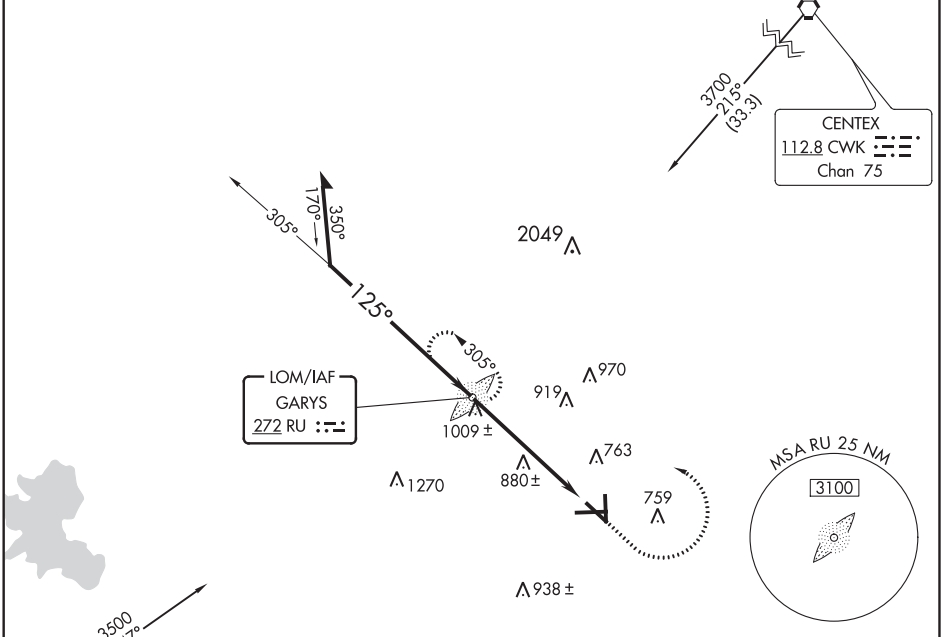
NDB RWY 13

SAN MARCOS RGNL (HYI)

LOM RU 272	APP CRS 125°	Rwy Idg TDZE Apt Elev	5601 593 597
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		MISSED APPROACH: Climb to 2000 then climbing left turn to 3200 direct RU LOM and hold.
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AWOS-3 120.825	AUSTIN APP CON 119.0 370.85	SAN MARCOS TOWER ★ 126.825 (CTAF)	GND CON 120.125	CLNC DEL 121.35 (When ATCT Closed)
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ELEV 597	TDZE 593
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MIRL Rwys 8-26, 13-31, and 17-35
FAF to MAP 5.5 NM
Knots: 60 90 120 150 180
Min:Sec: 5:30 3:40 2:45 2:12 1:50

CATEGORY	A	B	C	D
S-13	1240-3/4 647 (700-3/4)		1240-1 1/4 647 (700-1 1/4)	1240-1 3/4 647 (700-1 3/4)
CIRCLING	1240-1 643 (700-1)		1240-1 3/4 643 (700-1 3/4)	1240-2 643 (700-2)

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

AIRPORT DIAGRAM

AL-502 (FAA)

SAN MARCOS RGNL (HYI)
AUSTIN, TEXAS

AWOS-3
120.825
SAN MARCOS TOWER ★
126.825
GND CON
120.125
CLNC DEL
121.35 (When Tower Closed)

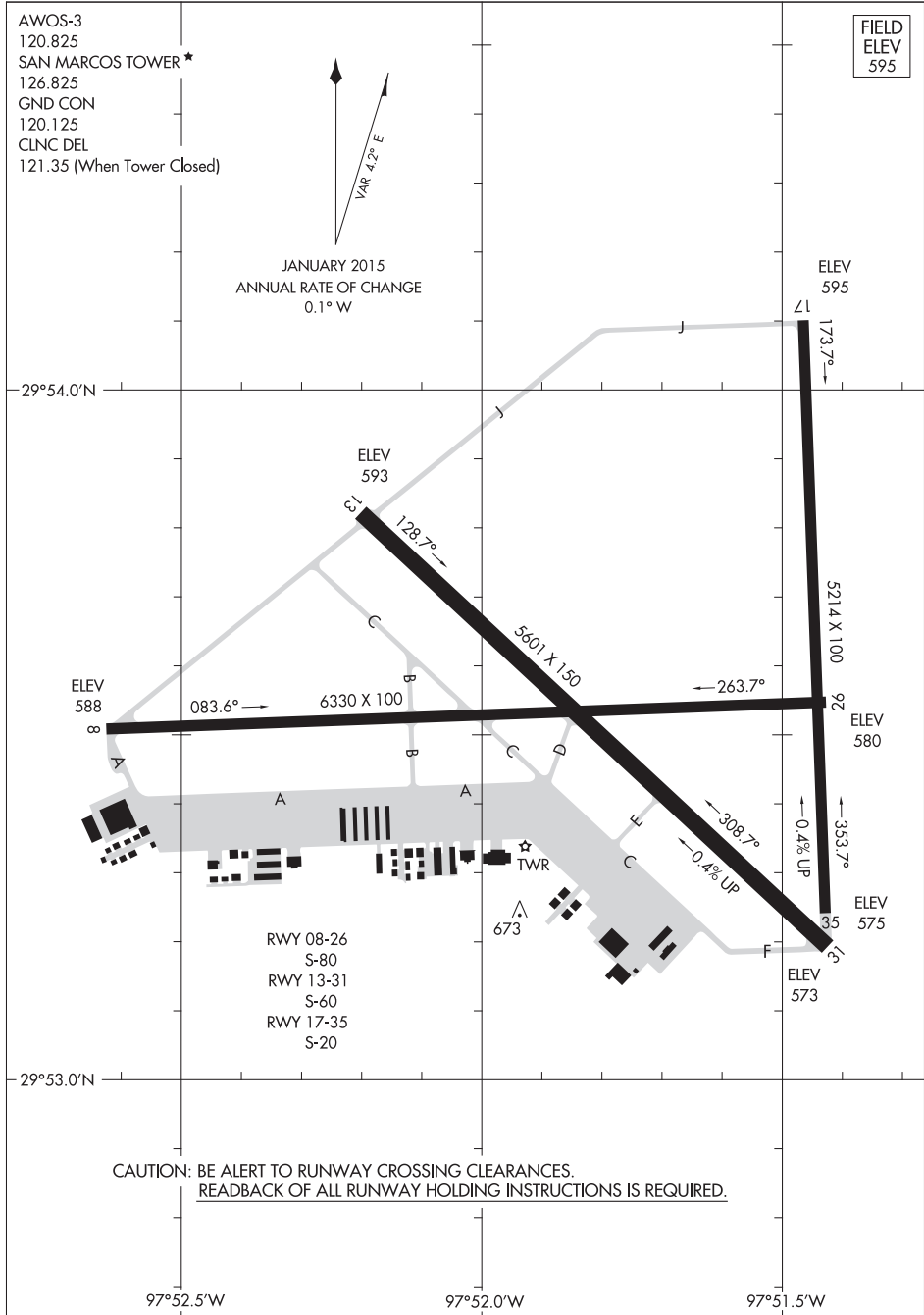
FIELD
ELEV
595



JANUARY 2015
ANNUAL RATE OF CHANGE
0.1° W

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017



CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

AIRPORT DIAGRAM

AUSTIN, TEXAS
SAN MARCOS RGNL (HYI)

BNDIA ONE DEPARTURE (RNAV)

AUSTIN, TEXAS

AWOS-3
 120.825
 CLNC DEL (when tower closed)
 121.35
 GND CON
 120.125
 SAN MARCOS TOWER ★
 126.825
 AUSTIN DEP CON
 119.0 370.85

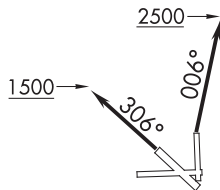
GARDS

BNDIA

10000
 *3100
 222°
 (30)

TAKEOFF MINIMUMS:

Rwys 8, 13, 17, 26, 31: Standard.
 Rwy 35: Standard with a minimum climb
 of 225' per NM to 2600.



NOTE: RADAR required.
 NOTE: DME/DME/IRU or GPS required.
 NOTE: RNAV-1

TAKEOFF OBSTACLES:

- Rwy 6: Sign 1' from DER, 250' left of centerline, 3' AGL/583' MSL.
 Tree 942' from DER, 259' left of centerline, 34' AGL/612' MSL.
- Rwy 13: Trees beginning 2505' from DER, 90' right of centerline, up to 80' AGL/646' MSL.
- Rwy 17: Bush 27' from DER, 74' left of centerline, 2' AGL/576' MSL.
- Rwy 26: Runway end identifier light 8' from DER, 91' right of centerline, 4' AGL/589' MSL.
 Trees beginning 1072' from DER, 394' right of centerline, up to 50' AGL/636' MSL.
 Pole 1216' from DER, 552' right of centerline, 43' AGL/638' MSL.
- Rwy 31: Trees beginning 911' from DER, left and right of centerline, up to 34' AGL/631' MSL.
 Pole 1056' from DER, 630' right of centerline, 33' AGL/621' MSL.
- Rwy 35: Sign 24' from DER, 199' left of centerline, 3' AGL/597' MSL.
 Vehicles on road beginning 410' from DER, 719' right of centerline,
 up to 15' AGL/614' MSL.
 Trees beginning 3226' from DER, left and right of centerline, up to 49' AGL/736' MSL.
 Telephone line 4571' from DER, 107' right of centerline, 47' AGL/719' MSL.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 8, 13, 17, 26: Climb on assigned heading for radar vectors to GARDS, then on depicted route to BNDIA, thence

TAKEOFF RUNWAY 31: Climb heading 306° to 1500, then as assigned by ATC for radar vectors to GARDS, then on depicted route to BNDIA, thence

TAKEOFF RUNWAY 35: Climb heading 006° to 2500, then as assigned by ATC for radar vectors to GARDS, then on depicted route to BNDIA, thence

. . . . maintain 3000 or as assigned by ATC. Expect filed altitude 10 minutes after departure.

BNDIA ONE DEPARTURE (RNAV)

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

(DILLO1.DILLO) 15344

DILLO ONE DEPARTURE (RNAV)

SL-502 (FAA)

SAN MARCOS RGNL (HYI)

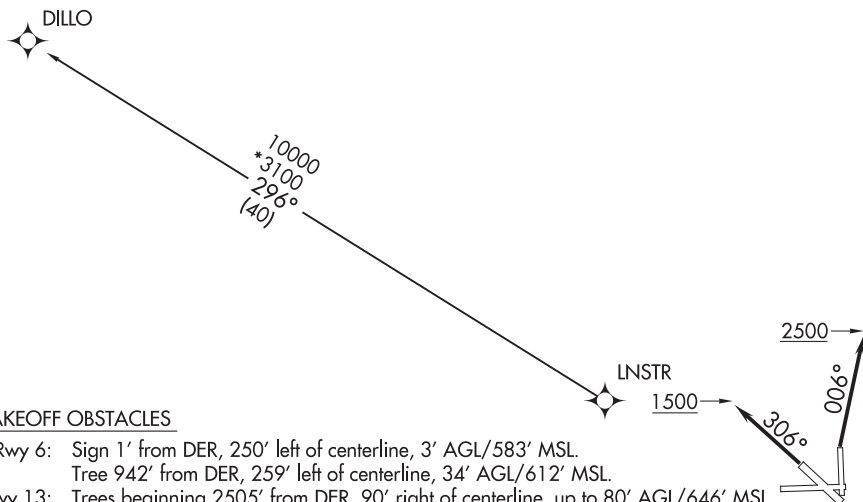
AUSTIN, TEXAS

AWOS-3
120.825
CLNC DEL (when tower closed)
121.35
GND CON
120.125
SAN MARCOS TOWER ★
126.825
AUSTIN DEP CON
119.0 370.85

TAKEOFF MINIMUMS:

Rwys 8, 13, 17, 26, 31, 35: Standard.

NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV-1

TAKEOFF OBSTACLES

- Rwy 6: Sign 1' from DER, 250' left of centerline, 3' AGL/583' MSL.
Tree 942' from DER, 259' left of centerline, 34' AGL/612' MSL.
- Rwy 13: Trees beginning 2505' from DER, 90' right of centerline, up to 80' AGL/646' MSL.
- Rwy 17: Bush 27' from DER, 74' left of centerline, 2' AGL/576' MSL.
- Rwy 26: Runway end identifier light 8' from DER, 91' right of centerline, 4' AGL/589' MSL.
Trees beginning 1072' from DER, 394' right of centerline, up to 50' AGL/636' MSL.
Pole 1216' from DER, 552' right of centerline, 43' AGL/638' MSL.
- Rwy 31: Trees beginning 911' from DER, left and right of centerline, up to 34' AGL/631' MSL.
Pole 1056' from DER, 630' right of centerline, 33' AGL/621' MSL.
- Rwy 35: Sign 24' from DER, 199' left of centerline, 3' AGL/597' MSL.
Vehicles on road beginning 410' from DER, 719' right of centerline, up to 15' AGL/614' MSL.
Trees beginning 3226' from DER, left and right of centerline, up to 49' AGL/736' MSL.
Telephone line 4571' from DER, 107' right of centerline, 47' AGL/719' MSL.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION



TAKEOFF RUNWAYS 8, 13, 17, 26: Climb on assigned heading for radar vectors to LNSTR, then on depicted route to DILLO, thence

TAKEOFF RUNWAY 31: Climb heading 306° to 1500, then as assigned by ATC for radar vectors to LNSTR, then on depicted route to DILLO, thence

TAKEOFF RUNWAY 35: Climb heading 006° to 2500, then as assigned by ATC for radar vectors to LNSTR, then on depicted route to DILLO, thence

. . . . maintain 3000 or as assigned by ATC. Expect filed altitude 10 minutes after departure.

DILLO ONE DEPARTURE (RNAV)

(DILLO1.DILLO) 15344

AUSTIN, TEXAS

SAN MARCOS RGNL (HYI)

AWOS-3
 120.825
 CLNC DEL
 121.35 (when tower closed)
 GND CON
 120.125
 SAN MARCOS TOWER ★
 126.825
 AUSTIN DEP CON
 119.0 370.85

TAKEOFF MINIMUMS:

Rwys 8, 13, 17, 26, 31, 35: Standard.

NOTE: RADAR required.

NOTE: DME/DME/IRU or GPS required.

NOTE: RNAV-1

TAKEOFF OBSTACLES:

Rwy 6: Sign 1' from DER, 250' left of centerline, 3' AGL/583' MSL. Tree 942' from DER, 259' left of centerline, 34' AGL/612' MSL.

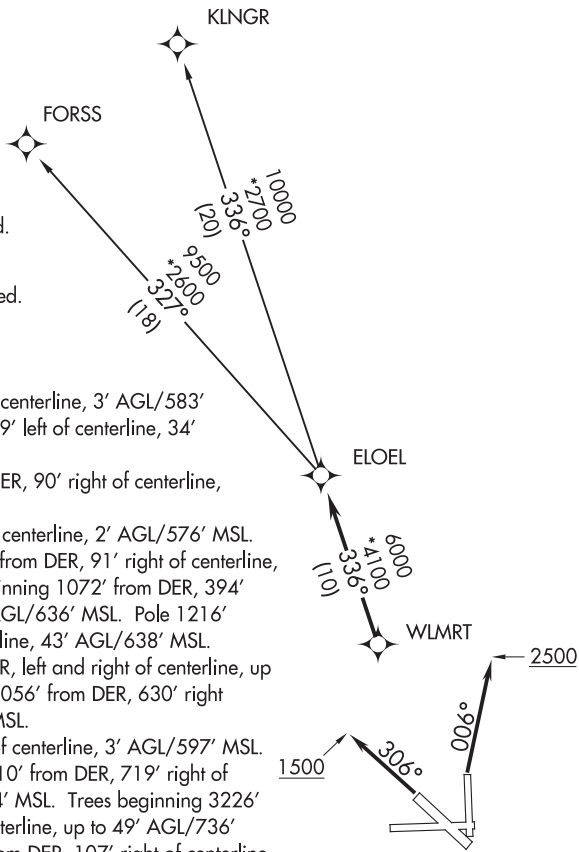
Rwy 13: Trees beginning 2505' from DER, 90' right of centerline, up to 80' AGL/646' MSL.

Rwy 17: Bush 27' from DER, 74' left of centerline, 2' AGL/576' MSL.

Rwy 26: Runway end identifier light 8' from DER, 91' right of centerline, 4' AGL/589' MSL. Trees beginning 1072' from DER, 394' right of centerline, up to 50' AGL/636' MSL. Pole 1216' from DER, 552' right of centerline, 43' AGL/638' MSL.

Rwy 31: Trees beginning 911' from DER, left and right of centerline, up to 34' AGL/631' MSL. Pole 1056' from DER, 630' right of centerline, 33' AGL/621' MSL.

Rwy 35: Sign 24' from DER, 199' left of centerline, 3' AGL/597' MSL. Vehicles on road beginning 410' from DER, 719' right of centerline, up to 15' AGL/614' MSL. Trees beginning 3226' from DER, left and right of centerline, up to 49' AGL/736' MSL. Telephone line 4571' from DER, 107' right of centerline, 47' AGL/719' MSL.



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 8, 13, 17, 26: Climb on assigned heading for radar vectors to WLMRT, then on depicted route to ELOEL, thence

TAKEOFF RUNWAY 31: Climb heading 306° to 1500, then as assigned by ATC for radar vectors to WLMRT, then on depicted route to ELOEL, thence

TAKEOFF RUNWAY 35: Climb heading 006° to 2500, then as assigned by ATC for radar vectors to WLMRT, then on depicted route to ELOEL, thence

. . . . On (transition). Maintain 3000 or as assigned by ATC. Expect filed altitude 10 minutes after departure.

FORSS TRANSITION (ELOEL1.FORSS):

KLNGR TRANSITION (ELOEL1.KLNGR):

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

(ILEXY1 .ILEXY) 15344

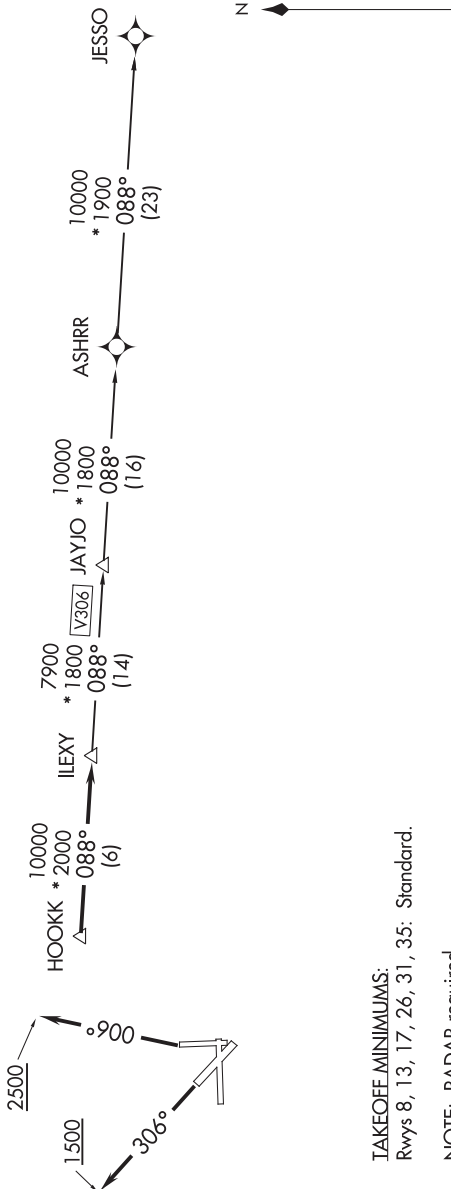
ILEXY ONE DEPARTURE (RNAV)

SL-502

SAN MARCOS RGNL (HYI)
AUSTIN, TEXAS

SC-3, 10 NOV 2016 to 05 JAN 2017

AWOS-3
120.825
CLNC DEL
121.35 (when tower closed)
GND CON
120.125
SAN MARCOS TOWER *
126.825
AUSTIN DEP CON
119.0 370.85



TAKEOFF MINIMUMS:

Rwys 8, 13, 17, 26, 31, 35: Standard.

NOTE: RADAR required.

NOTE: DME/DME/IRU or GPS required.

NOTE: RNAV-1.

NOTE: Houston terminal area arrivals expect routing from ILEXY.

NOTE: JAYJO transition to join V306 only.

(NARRATIVE ON FOLLOWING PAGE)
(NOTES CONTINUED ON FOLLOWING PAGE)

NOTE: Chart not to scale.

ILEXY ONE DEPARTURE (RNAV)

(ILEXY1 .ILEXY) 15344

AUSTIN, TEXAS
SAN MARCOS RGNL (HYI)

SC-3, 10 NOV 2016 to 05 JAN 2017



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWYS 8, 13, 17, 26: Climb on assigned heading for radar vectors to HOOKK, then on depicted route to ILEXY, thence

TAKEOFF RWY 31: Climb on heading 306° to 1500, then as assigned by ATC for radar vectors to HOOKK, then on depicted route to ILEXY, thence

TAKEOFF RWY 35: Climb on heading 006° to 2500, then as assigned by ATC for radar vectors to HOOKK, then on depicted route to ILEXY, thence

. . . . on (transition). Maintain 3000 or as assigned by ATC. Expect filed altitude 10 minutes after departure.

JAYJO TRANSITION (ILEXY1 .JAYJO):

JESSO TRANSITION (ILEXY1 .JESSO):

TAKEOFF OBSTACLE NOTES:

- Rwy 6: Sign 1' from DER, 250' left of centerline, 3' AGL/583' MSL.
Tree 942' from DER, 259' left of centerline, 34' AGL/612' MSL.
- Rwy 13: Trees beginning 2505' from DER, 90' right of centerline, up to 80' AGL/646' MSL.
- Rwy 17: Bush 27' from DER, 74' left of centerline, 2' AGL/576' MSL.
- Rwy 26: Runway end identifier light 8' from DER, 91' right of centerline, 4' AGL/589' MSL.
Trees beginning 1072' from DER, 394' right of centerline, up to 50' AGL/636' MSL.
Pole 1216' from DER, 552' right of centerline, 43' AGL/638' MSL.
- Rwy 31: Trees beginning 911' from DER, left and right of centerline, up to 34' AGL/631' MSL.
Pole 1056' from DER, 630' right of centerline, 33' AGL/621' MSL.
- Rwy 35: Sign 24' from DER, 199' left of centerline, 3' AGL/597' MSL.
Vehicles on road beginning 410' from DER, 719' right of centerline, up to 15' AGL/614' MSL.
Trees beginning 3226' from DER, left and right of centerline, up to 49' AGL/736' MSL.
Telephone line 4571' from DER, 107' right of centerline, 47' AGL/719' MSL.

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SC-3, 10 NOV 2016 to 05 JAN 2017

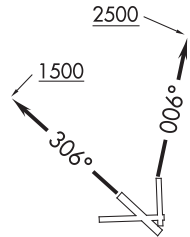
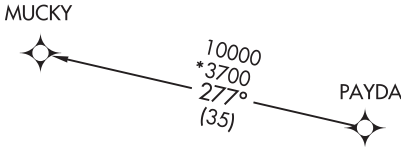
MUCKY ONE DEPARTURE (RNAV)

AUSTIN DEP CON
119.0 370.85
AWOS-3
120.825
CLNC DEL
121.35 (when tower closed)
GND CON
120.125
SAN MARCOS TOWER★
126.825

TAKEOFF MINIMUMS:

Rwys 8, 13, 17, 26, 31, 35: Standard.

NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV-1



TAKEOFF OBSTACLE NOTES:

- Rwy 6: Sign 1' from DER, 250' left of centerline, 3' AGL/583' MSL.
Tree 942' from DER, 259' left of centerline, 34' AGL/612' MSL.
- Rwy 13: Trees beginning 2505' from DER, 90' right of centerline, up to 80' AGL/646' MSL.
- Rwy 17: Bush 27' from DER, 74' left of centerline, 2' AGL/576' MSL.
- Rwy 26: Runway end identifier light 8' from DER, 91' right of centerline, 4' AGL/589' MSL.
Trees beginning 1072' from DER, 394' right of centerline, up to 50' AGL/636' MSL.
Pole 1216' from DER, 552' right of centerline, 43' AGL/638' MSL.
- Rwy 31: Trees beginning 911' from DER, left and right of centerline, up to 34' AGL/631' MSL.
Pole 1056' from DER, 630' right of centerline, 33' AGL/621' MSL.
- Rwy 35: Sign 24' from DER, 199' left of centerline, 3' AGL/597' MSL.
Vehicles on road beginning 410' from DER, 719' right of centerline, up to 15' AGL/614' MSL.
Trees beginning 3226' from DER, left and right of centerline, up to 49' AGL/736' MSL.
Telephone line 4571' from DER, 107' right of centerline, 47' AGL/719' MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWYS 8, 13, 17, 26: Climb on assigned heading for radar vectors to PAYDA, then on depicted route to MUCKY, thence. . .

TAKEOFF RWY 31: Climb on heading 306° to 1500, then as assigned by ATC for radar vectors to PAYDA, then on depicted route to MUCKY, thence. . . .

TAKEOFF RWY 35: Climb on heading 006° to 2500, then as assigned by ATC for radar vectors to PAYDA, then on depicted route to MUCKY, thence. . . .

. . . .Maintain 3000 or as assigned by ATC. Expect filed altitude 10 minutes after departure.

SC-3, 10 NOV 2016 to 05 JAN 2017

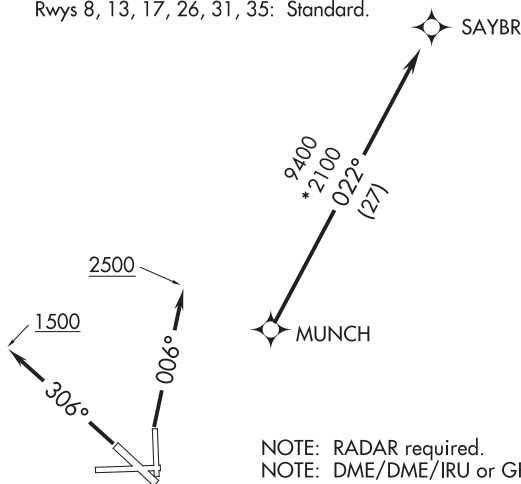
SC-3, 10 NOV 2016 to 05 JAN 2017

SAYBR ONE DEPARTURE (RNAV)

AWOS-3
 120.825
 CLNC DEL
 121.35 (when tower closed)
 GND CON
 120.125
 SAN MARCOS TOWER ★
 126.825
 AUSTIN DEP CON
 119.0 370.85

TAKEOFF MINIMUMS:

Rwys 8, 13, 17, 26, 31, 35: Standard.



- NOTE: RADAR required.
- NOTE: DME/DME/IRU or GPS required.
- NOTE: RNAV-1
- NOTE: For DFW Terminal Area Arrivals at FL230 or below only.

TAKEOFF OBSTACLE NOTES:

- Rwy 6: Sign 1' from DER, 250' left of centerline, 3' AGL/583' MSL.
Tree 942' from DER, 259' left of centerline, 34' AGL/612' MSL.
- Rwy 13: Trees beginning 2505' from DER, 90' right of centerline, up to 80' AGL/646' MSL.
- Rwy 17: Bush 27' from DER, 74' left of centerline, 2' AGL/576' MSL.
- Rwy 26: Runway end identifier light 8' from DER, 91' right of centerline, 4' AGL/589' MSL.
Trees beginning 1072' from DER, 394' right of centerline, up to 50' AGL/636' MSL.
Pole 1216' from DER, 552' right of centerline, 43' AGL/638' MSL.
- Rwy 31: Trees beginning 911' from DER, left and right of centerline, up to 34' AGL/631' MSL.
Pole 1056' from DER, 630' right of centerline, 33' AGL/621' MSL.
- Rwy 35: Sign 24' from DER, 199' left of centerline, 3' AGL/597' MSL.
Vehicles on road beginning 410' from DER, 719' right of centerline, up to 15' AGL/614' MSL.
Trees beginning 3226' from DER, left and right of centerline, up to 49' AGL/736' MSL.
Telephone line 4571' from DER, 107' right of centerline, 47' AGL/719' MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWYS 8, 13, 17, 26: Climb on assigned heading for radar vectors to MUNCH, then on depicted route to SAYBR, thence

TAKEOFF RWY 31: Climb on heading 306° to 1500, then as assigned by ATC for radar vectors to MUNCH, then on depicted route to SAYBR, thence

TAKEOFF RWY 35: Climb on heading 006° to 2500, then as assigned by ATC for radar vectors to MUNCH, then on depicted route to SAYBR, thence

. . . . Maintain 3000 or as assigned by ATC. Expect filed altitude 10 minutes after departure.

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SC-3, 10 NOV 2016 to 05 JAN 2017

WAAS CH 53730 W17A	APP CRS 172°	Rwy Idg TDZE Apt Elev	3909 1738 1739
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RNAV (GPS) RWY 17

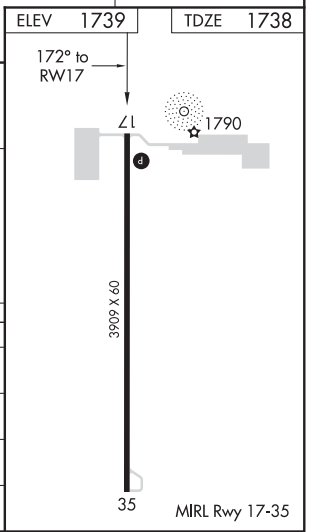
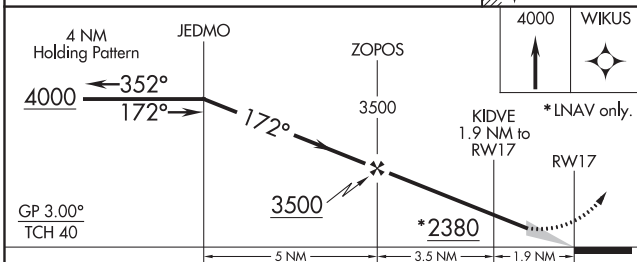
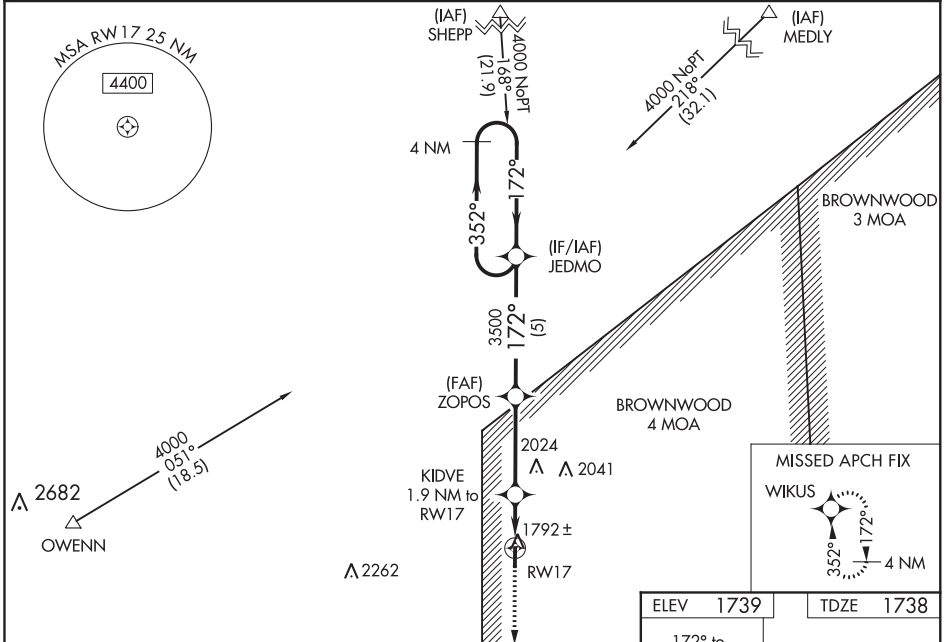
BALLINGER/BRUCE FIELD (E30)

Baro-VNAV NA.
DME/DME RNP-0.3 NA.
NA
 Use San Angelo altimeter setting, when not received use Brady altimeter setting and increase all DA 15 feet and all MDA 20 feet, and increase LPV and LNAV/VNAV all Cats visibility 1/8 mile.

MISSED APPROACH:
 Climb to 4000 direct WIKUS and hold.

SAN ANGELO APP CON *
125.35 354.1

CTAF
122.9 0



CATEGORY		A	B	C	D
LPV	DA	2089-1 1/8	351 (400-1 1/8)		NA
LNAV/VNAV	DA	2089-1 1/8	351 (400-1 1/8)		NA
LNAV	MDA	2160-1	422 (500-1)		NA
CIRCLING		2220-1	481 (500-1)		NA

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SC-3, 10 NOV 2016 to 05 JAN 2017

WAAS CH 86228 W35A	APP CRS 352°	Rwy Idg 3909 TDZE 1738 Apt Elev 1738
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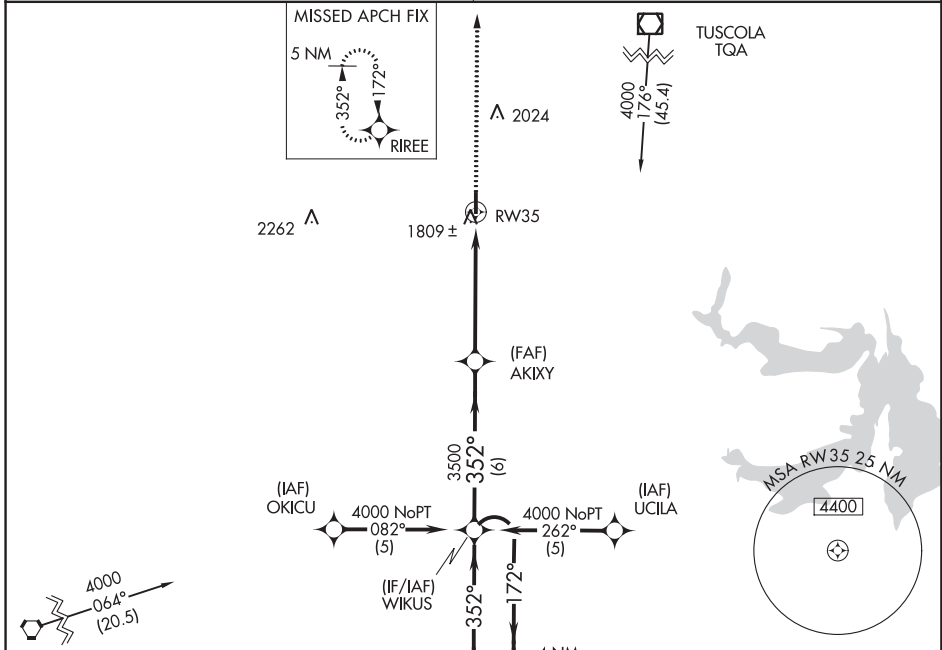
RNAV (GPS) RWY 35

BALLINGER/BRUCE FIELD (E30)

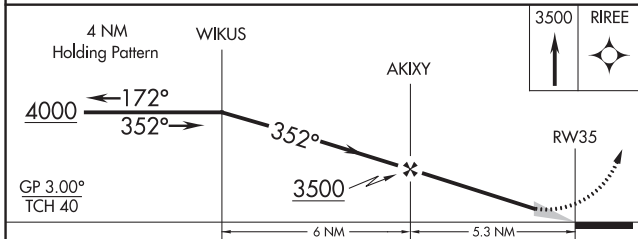
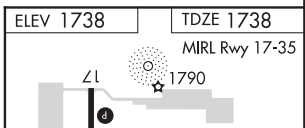
NA DME/DME RNP-0.3 NA. Use San Angelo Rgnl/Mathis Field altimeter setting, if not received use Curtis Field altimeter setting and increase all DA/MDAs 20 feet.

MISSED APPROACH: Climb to 3500 direct RIREE and hold.

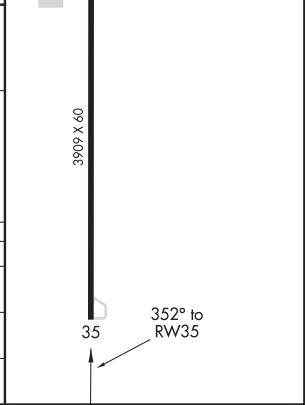
SAN ANGELO APP CON* **125.35 354.1** CTAF **122.9**



SAN ANGELO SJT Procedure NA for arrivals at SJT VORTAC via airway radials 014 CW 102.



CATEGORY	A	B	C	D
LPV DA	2089-1¼ 351 (400-1¼)			NA
LNVA MDA	2160-1	422 (500-1)	2160-1¼ 422 (500-1¼)	NA
CIRCLING	2220-1	482 (500-1)	2220-1½ 482 (500-1½)	NA



SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

BEEVILLE, TEXAS

AL-5899 (FAA)

16231

RNAV (GPS) RWY 12

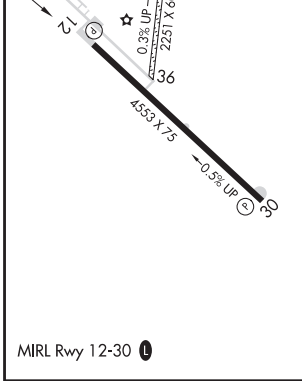
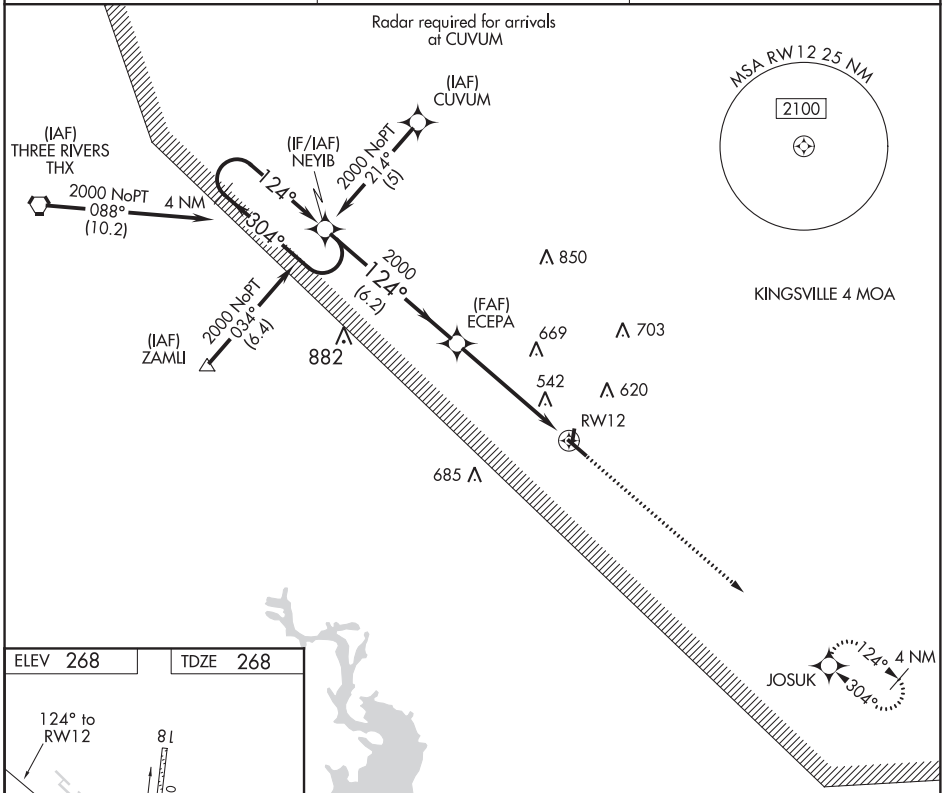
BEEVILLE MUNI (B.E.A.)

APP CRS	Rwy Idg	4553
124°	TDZE	268
	Apt Elev	268

▼ Use Corpus Christi Intl altimeter setting.
 ▲ NA DME/DME RNP-0.3 NA.
 ▲ NA Circling NA to Rwys 18 and 36.

MISSED APPROACH: Climb to 2000 direct JOSUK and hold.

AWOS-3 118.675	HOUSTON CENTER 134.6 322.5	UNICOM 122.8 (CTAF)
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4 NM Holding Pattern

2000 ← 304° NEYIB 124° ECEPA → 2000

VGSI and descent angles not coincident (VGSI Angle 3.00/TCH 20).

3.05% TCH 40

	6.2 NM		5.2 NM	
CATEGORY	A	B	C	D
LNAV MDA	1000-1	732 (800-1)	1000-2 732 (800-2)	NA
CIRCLING	1000-1 732 (800-1)	1020-1¼ 752 (800-1¼)	1120-2½ 852 (900-2½)	NA

BEEVILLE, TEXAS
 Orig-A 18AUG16

28°22'N-97°47'W

BEEVILLE MUNI (B.E.A.)
RNAV (GPS) RWY 12

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

APP CRS 304°	Rwy Idg 4553
	TDZE 262
	Apt Elev 268

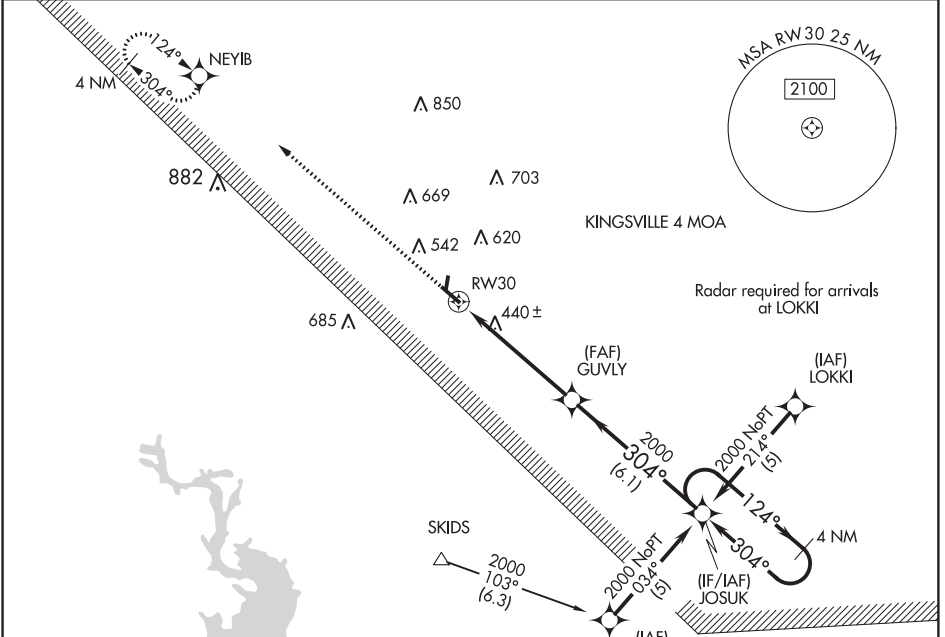
RNAV (GPS) RWY 30

BEEVILLE MUNI (B.E.A)

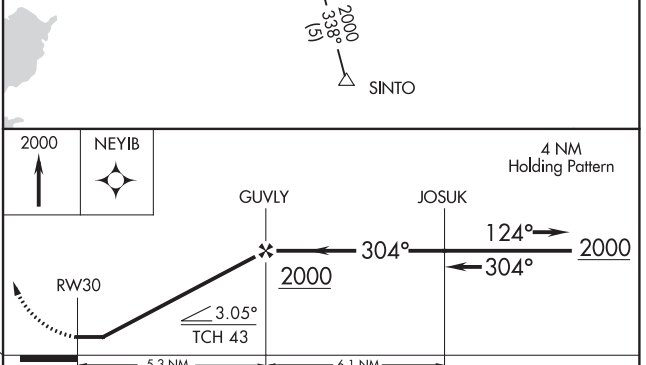
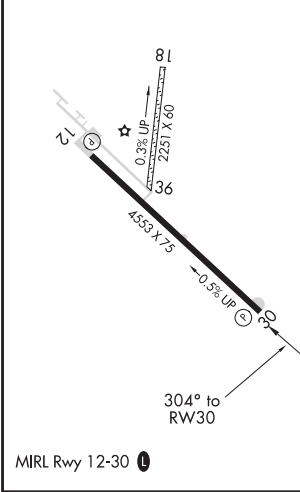
▼ Use Corpus Christi Intl altimeter setting. DME/DME RNP-0.3 NA.
▲ NA Circling NA to Rwy's 18 and 36. Rwy 30 Helicopter visibility reduction below 3/4 SM NA.

MISSED APPROACH: Climb to 2000 direct NEYIB and hold.

AWOS-3 118.675	HOUSTON CENTER 134.6 322.5	UNICOM 122.8 (CTAF)
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ELEV 268	TDZE 262
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CATEGORY	A	B	C	D
LNAV MDA	1060-1 798 (800-1)	1060-1 1/4 798 (800-1 1/4)	1060-2 1/4 798 (800-2 1/4)	NA
CIRCLING	1060-1 792 (800-1)	1060-1 1/4 792 (800-1 1/4)	1120-2 1/2 852 (900-2 1/2)	NA

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

BEEVILLE, TEXAS

AL-5899 (FAA)

16231

VORTAC THX 111.4 Chan 51	APP CRS 106°	Rwy Idg TDZE Apt Elev	4553 268 268
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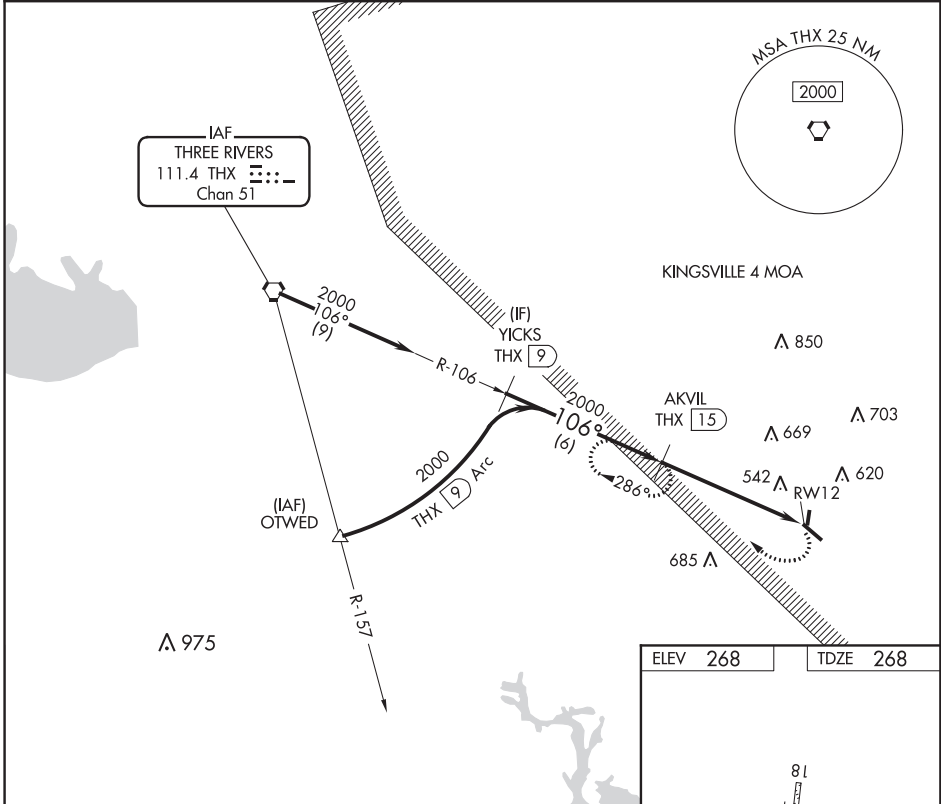
VOR/DME RWY 12

BEEVILLE MUNI (B.E.A)

▽ Use Corpus Christi Intl altimeter setting.
▲ NA Circling NA to Rwy 18 and 36.

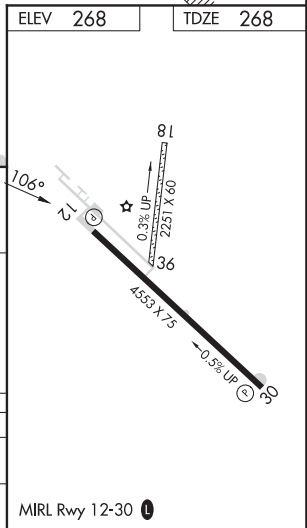
MISSED APPROACH: Climbing right turn to 2000 via THX VORTAC R-106 to AKVIL THX VORTAC 1.5 DME and hold. Continue climb-in-hold to 2000.

AWOS-3 118.675	HOUSTON CENTER 134.6 322.5	UNICOM 122.8 (CTAF)
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SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017



Procedure Turn NA	YICKS THX 9	AKVIL THX 15	2000 THX R-106	AKVIL THX 15
	2000	2000	2000	RW12 THX 20.5
VGSIs and descent angles not coincident (VGSi Angle 3.00/TCH 20).				
	6 NM		5.5 NM	
CATEGORY	A	B	C	D
S-12	1000-1 732 (800-1)	1000-1¼ 732 (800-1¼)	1000-2 732 (800-2)	NA
CIRCLING	1000-1 732 (800-1)	1020-1¼ 752 (800-1¼)	1120-2½ 852 (900-2½)	NA

BEEVILLE, TEXAS
Amdt 6A 18AUG16

28°22'N-97°47'W

BEEVILLE MUNI (B.E.A)

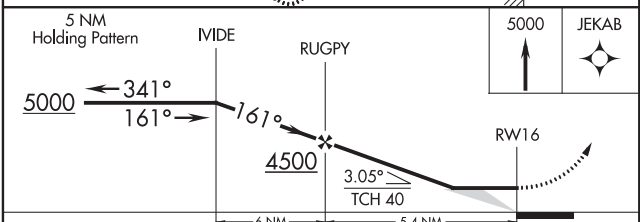
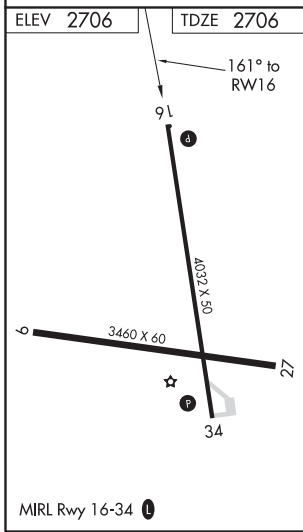
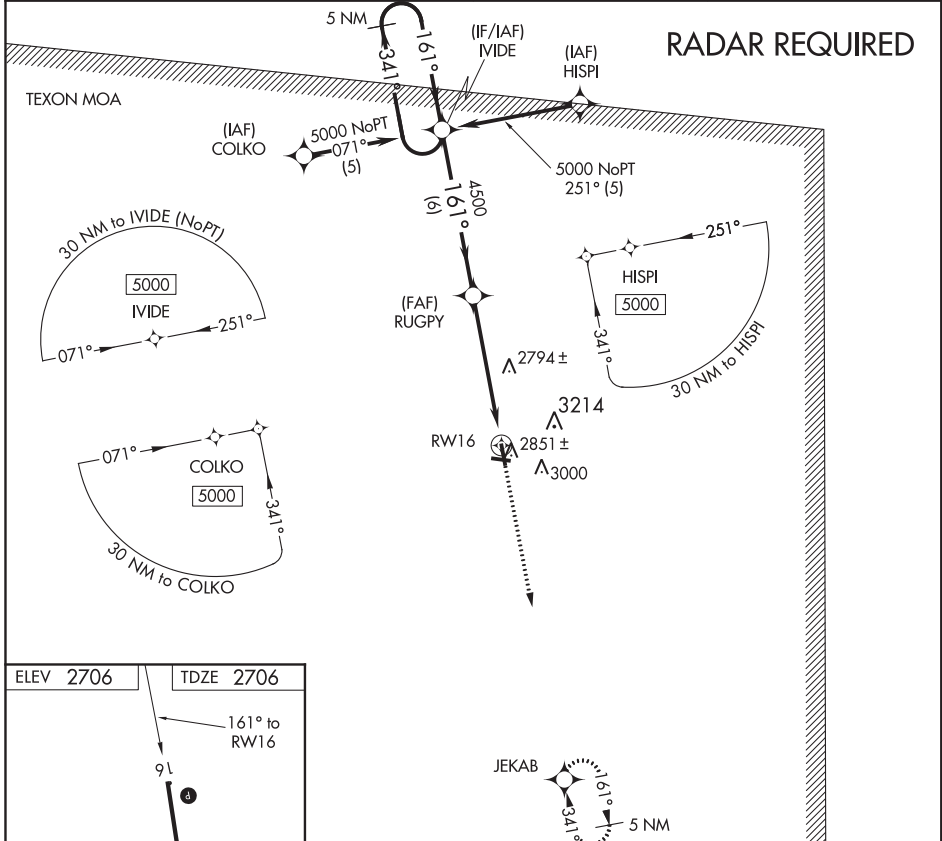
VOR/DME RWY 12

APP CRS	Rwy Idg	4032
161°	TDZE	2706
	Apt Elev	2706

RNAV (GPS) RWY 16

REAGAN COUNTY (E41)

▽ Use San Angelo altimeter setting; If not received, procedure NA.	MISSED APPROACH: Climb to 5000 direct JEKAB and hold.		
▲ NA Circling NA east of Rwy 16-34. DME/DME RNP-0.3 NA.			
SAN ANGELO ASOS 128.45	FORT WORTH CENTER 126.15 322.55	CTAF 122.9	123.5 ①



CATEGORY	A	B	C	D
LNAV MDA	3460-1 754 (800-1)	3460-1¼ 754 (800-1¼)	3460-2¼ 754 (800-2¼)	NA
CIRCLING	3460-1 754 (800-1)	3460-1¼ 754 (800-1¼)	3460-2¼ 754 (800-2¼)	NA

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

FORT BLISS, TEXAS

RNAV (GPS) RWY 21

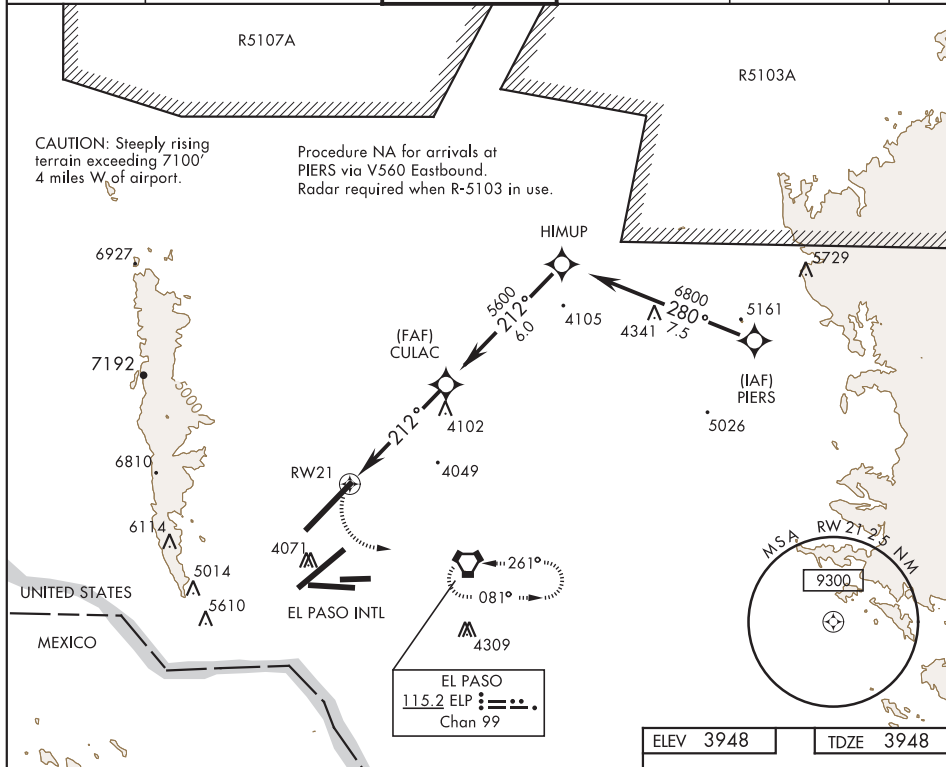
BIGGS AAF (KBIF)

APCH CRS	Rwy ldg	13,554
212°	TDZE	3948
	Arpt Elev	3948

AL-133 [USA]

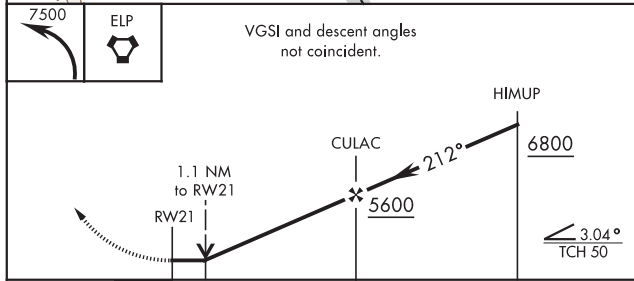
▼ DME/DME RNP-0.3 NA.	ALSIF-1		MISSED APPROACH: Climbing left turn to 7500 direct ELP VORTAC and hold, continue climb-in-hold to 7500.	

ATIS	EL PASO APP CON	BIGGS TOWER ★	GND CON	EL PASO CLNC DEL	ASR
120.0 254.3	S of V16 119.15 353.5 N of V16 124.25 298.85	127.9 0 342.25	121.6 251.25	125.0 379.1	

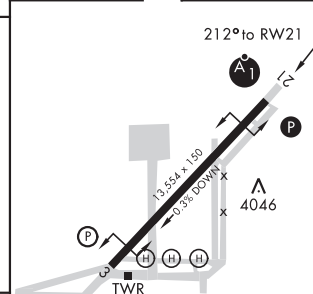


SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017



ELEV 3948	TDZE 3948
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CATEGORY	A	B	C	D
LNAV MDA	4360-½ 412 (500-½)		4360-¾ 412 (500-¾)	
CIRCLING	4400-1 452 (500-1)		4400-1½ 452 (500-1½)	4500-2 552 (600-2)

FORT BLISS, TEXAS
Orig A 15OCT15

31° 51' N-106° 23' W

BIGGS AAF (KBIF)

RNAV (GPS) RWY 21

ATIS
120.0 254.3
BIGGS TOWER ★
127.9 342.25
GND CON
121.6 251.25
EL PASO CLNC DEL
125.0 379.1

OCTOBER 2015
ANNUAL RATE OF CHANGE
0.1°W

FIELD
ELEV
3948

BAK-12/14

1000 x 302

HAZARDOUS
CARGO
RAMP

31°51'N

73534 x 150

SC-3, 10 NOV 2016 to 05 JAN 2017

NORTH
PARKING
APRON

HOT REFUEL
PADS

0.3% UP

LIGHTED
HELIPAD
WEST

LIGHTED
HELIPAD
CENTER

LIGHTED
HELIPAD
EAST

BAK-12/14

ELEV
3911

0.5% UP

MAIN
RAMP

FIRE STATION
BASE OPS

CONTROL
TOWER

ELEV
3920

4063

TRANSIENT
RAMP

TANKS

Rwy 3-21
PCN 85 R/C/W/T

WEST
RAMP

WAAS CH 53608 W17A	APP CRS 173°	Rwy Idg 4605 TDZE 1827 Apt Elev 1827
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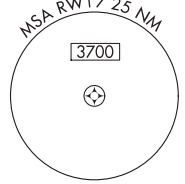
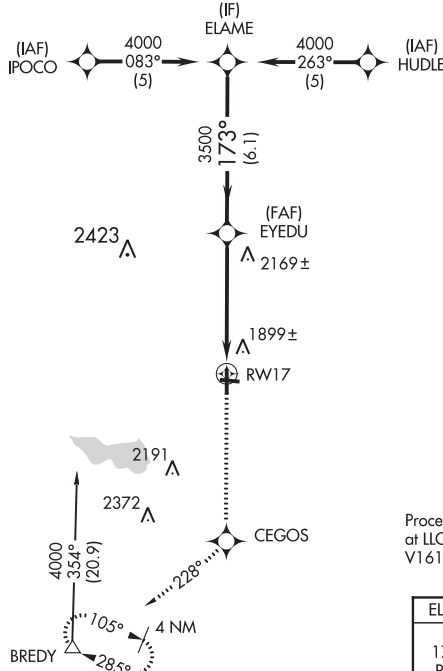
RNAV (GPS) RWY 17

CURTIS FIELD (BBD)

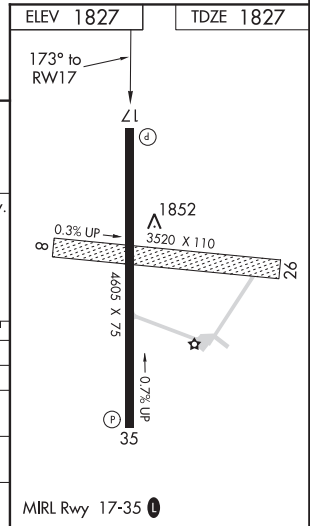
⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -18°C (0°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. When local altimeter setting not received, use Junction altimeter setting and increase all DA/MDA 120 feet, increase LPV all Cats visibility ¼ mile, LNAV/VNAV all Cats visibility ½ mile, and LNAV and Circling Cat C visibility ½ mile. VDP and Baro-VNAV NA when using Junction altimeter setting. Circling NA to Rwys 8 and 26.

MISSED APPROACH:
Climb to 4000 direct CEGOS and on track 228° to BREDY and hold.

AWOS-3 118.375	HOUSTON CENTER 132.35 317.5	UNICOM 122.8 (CTAF) 0
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Procedure NA for arrivals at LLO VORTAC on V161-568 southbound.



Procedure Turn NA	ELAME	EYEDU	CEGOS	BREDY
GP 3.00° TCH 40	4000	3500	2228	4000
	6.1 NM	3.4 NM	1.7 NM	
CATEGORY	A	B	C	D
LPV DA	2077-1	250 (300-1)		NA
LNAV/VNAV DA	2191-1¼	364 (400-1¼)		NA
LNAV MDA	2420-1	593 (600-1)	2420-1½ 593 (600-1½)	NA
CIRCLING	2420-1	593 (600-1)	2420-1½ 593 (600-1½)	NA

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

BRADY, TEXAS

AL-6890 (FAA)

16119

WAAS CH 49108 W 35A	APP CRS 353°	Rwy Idg TDZE Apt Elev	4605 1823 1827
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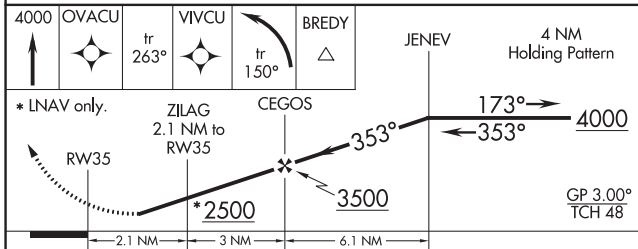
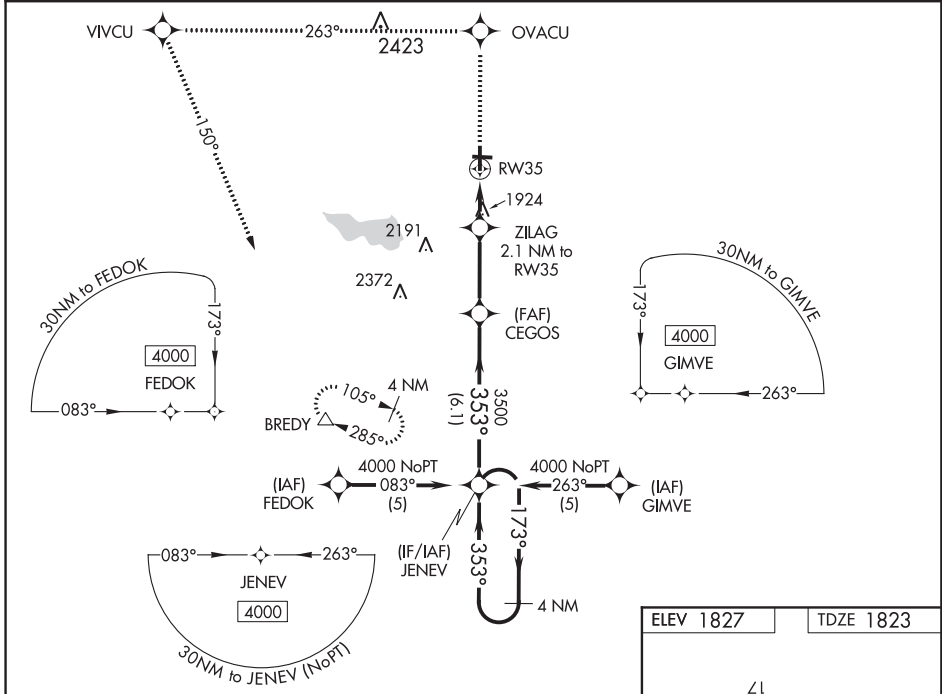
RNAV (GPS) RWY 35

CURTIS FIELD (BBD)

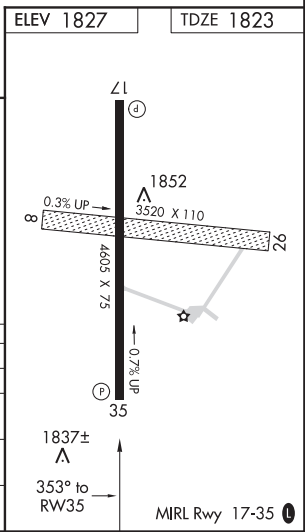
⚠ DME/DME RNP-0.3 NA. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -18°C (0°F) or above 54°C (130°F). When local altimeter setting not received, use Junction altimeter setting and increase all DA/MDA 120 feet, increase LPV, LNAV/VNAV all Cats visibility ½ mile, LNAV Cat C visibility ¼ mile. Baro-VNAV NA when using Junction altimeter setting. Helicopter visibility reduction below ¾ SM NA. Circling NA to Rwy's 8 and 26.

MISSED APPROACH: Climb to 4000 direct OVACU and via 263° track to VIVCU and left turn via 150° track to BREDY and hold.

AWOS-3 118.375	HOUSTON CENTER 132.35 317.5	UNICOM 122.8 (CTAF) 0
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CATEGORY	A	B	C	D
LPV DA	2073-1	250 (300-1)		NA
LNAV/VNAV DA	2107-1	284 (300-1)		NA
LNAV MDA	2240-1	417 (500-1)	2240-1¼ 417 (500-1¼)	NA
CIRCLING	2240-1 413 (500-1)	2280-1 453 (500-1)	2280-1½ 453 (500-1½)	NA



BRADY, TEXAS
Amdt 1A 28APR16

31°11' N-99°19' W

RNAV (GPS) RWY 35

CURTIS FIELD (BBD)

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

BRADY, TEXAS

AL-6890 (FAA)

16119

NDB BBD 380	APP CRS 167°	Rwy Idg TDZE Apt Elev 4605 1827 1827
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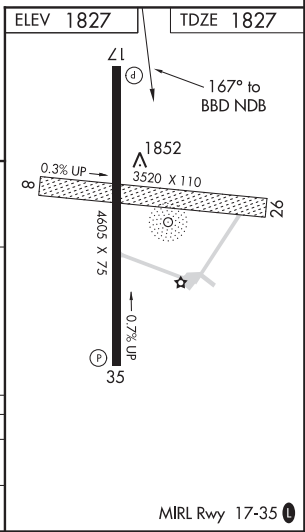
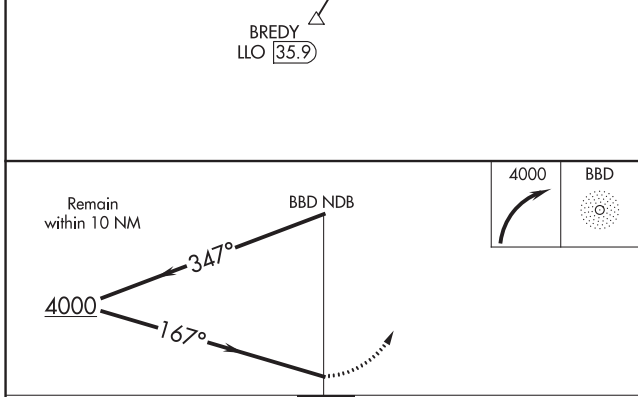
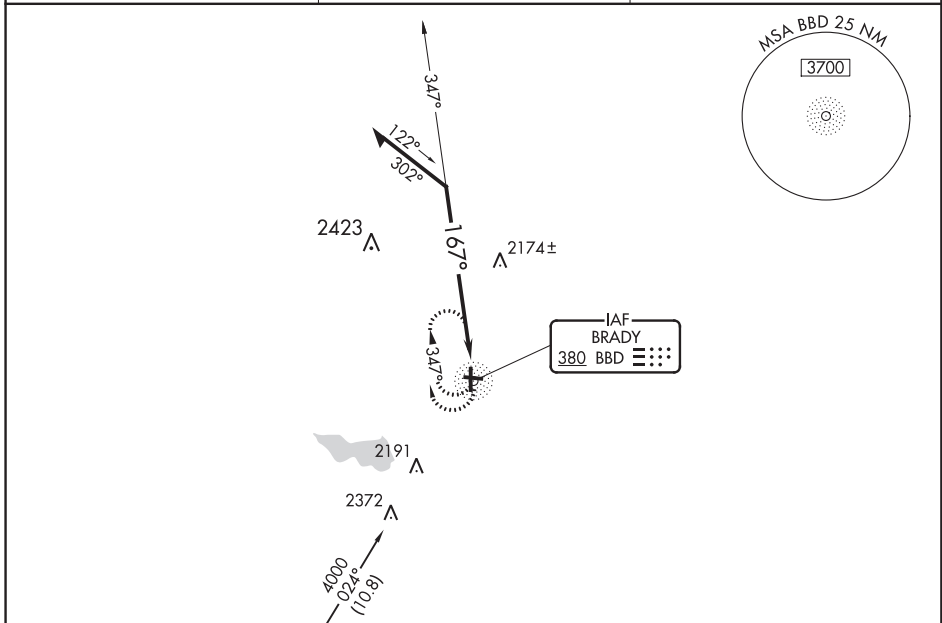
NDB RWY 17

CURTIS FIELD (BBD)

When local altimeter setting not received, use Junction altimeter setting and increase all MDAs 120 feet and increase S-17 and circling Cat B visibility 1/4 mile and Cat C visibility 1/2 mile. Circling NA to Rwy 8 and 26.

MISSED APPROACH: Climbing right turn to 4000 in BBD NDB holding pattern.

AWOS-3 118.375	HOUSTON CENTER 132.35 317.5	UNICOM 122.8 (CTAF)
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CATEGORY	A	B	C	D
S-17	2540-1	713 (800-1)	2540-2 713 (800-1)	NA
CIRCLING	2540-1	713 (800-1)	2540-2 713 (800-1)	NA

BRADY, TEXAS
Amdt 4A 28APR16

31°11' N-99°19' W

CURTIS FIELD (BBD)
NDB RWY 17

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

BROWNSVILLE, TEXAS

AL-61 (FAA)

16259

LOC/DME I-BRO 110.3 Chan 40	APP CRS 132°	Rwy Idg 7399 TDZE 19 Apt Elev 22
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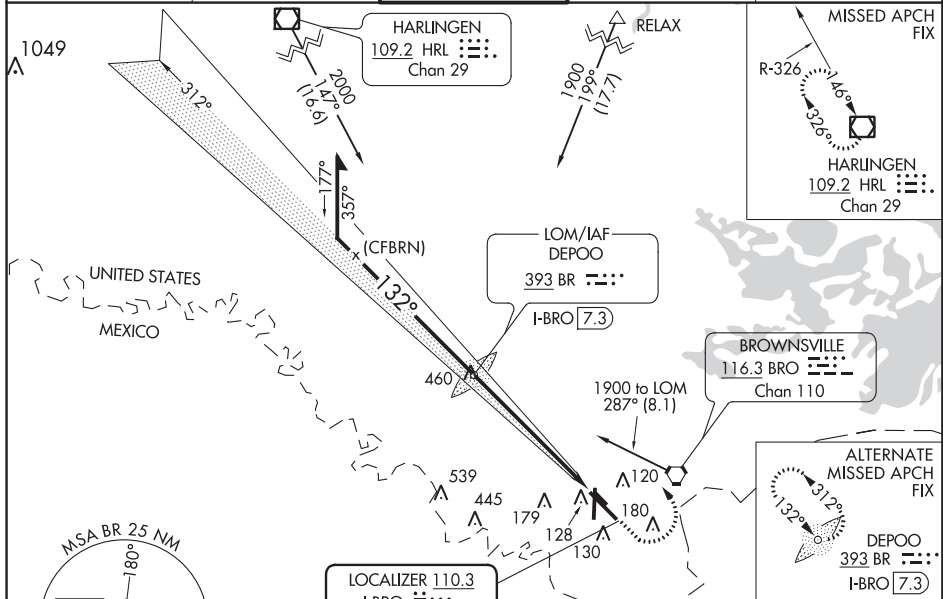
ILS or LOC RWY 13

BROWNSVILLE/SOUTH PADRE ISLAND INTL (BRO)

⚠ Circling to Rwy 18 NA at night. When local altimeter setting not received, use Port Isabel altimeter setting and increase DA to 257 feet and all MDA 40 feet and S-LOC 13 Cat C and D visibility to RVR 5500, Circling Cat D visibility to 2 1/4 miles. For inop MALSR increase S-LOC 13 Cats C and D visibility to 1 1/2 miles. VDP NA when using Port Isabel altimeter setting.
**RVR 1800 authorized with use of FD or AP or HUD to DA.

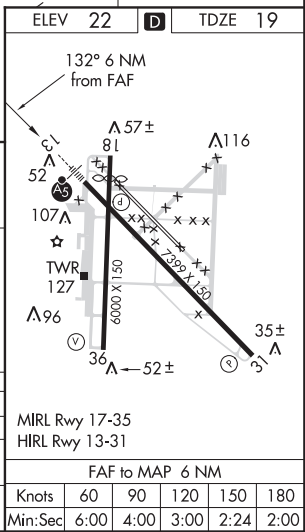
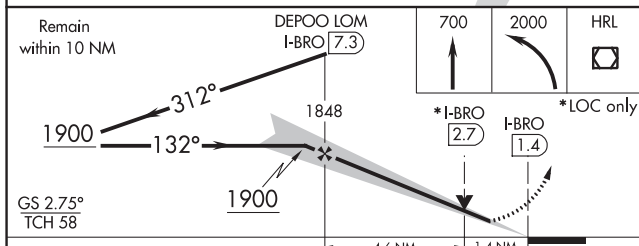
MALSR MISSED APPROACH: Climb to 700 then climbing left turn to 2000 direct HRL VOR/DME and hold.

ATIS 128.55	VALLEY APP CON 119.5 257.6	BROWNSVILLE TOWER* 118.9 (CTAF) 239.3	GND CON 121.9	UNICOM 122.95
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SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017



CATEGORY	A	B	C	D
S-ILS 13		** 219/24	200 (200-1/2)	
S-LOC 13	480/24	461 (500-1/2)	480/50	461 (500-1)
C CIRCLING	480-1 458 (500-1)	540-1 518 (600-1)	540-1 1/2 518 (600-1 1/2)	680-2 658 (700-2)

FAF to MAP 6 NM					
Knots	60	90	120	150	180
Min:Sec	6:00	4:00	3:00	2:24	2:00

BROWNSVILLE, TEXAS
Orig 15SEP16

BROWNSVILLE/SOUTH PADRE ISLAND INTL (BRO)
25°54'N-97°26'W
ILS or LOC RWY 13

WAAS CH 63231 W13A	APP CRS 132°	Rwy Idg TDZE Apt Elev	7399 19 22
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RNAV (GPS) RWY 13

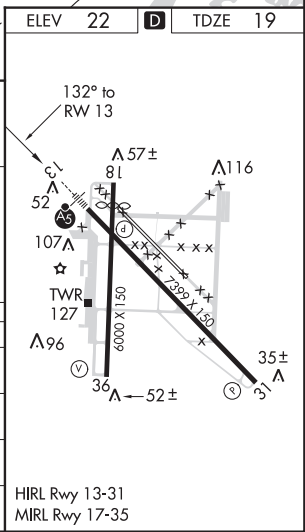
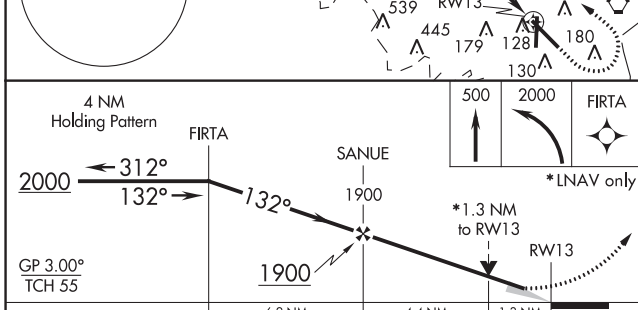
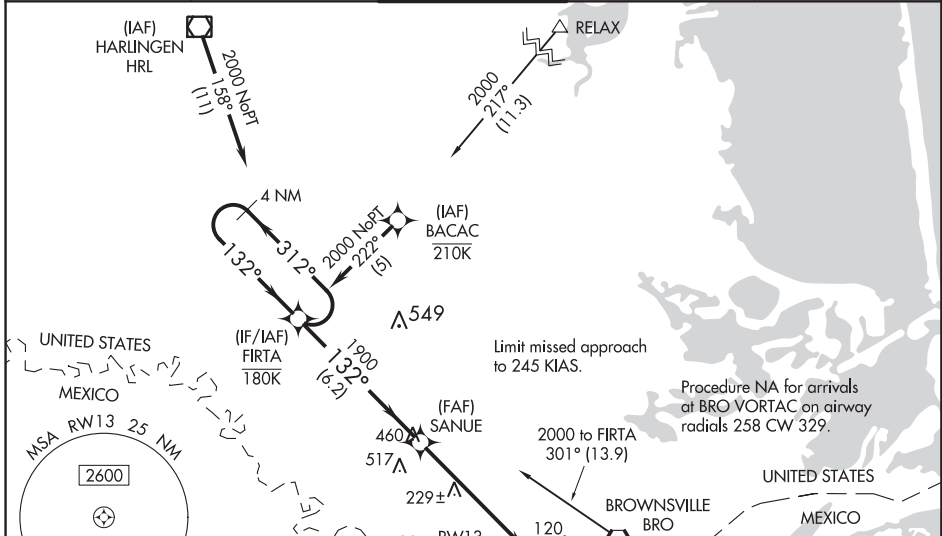
BROWNSVILLE/SOUTH PADRE ISLAND INTL (BRO)

⚠ Circling to Rwy 18 NA at night. For uncompensated Baro-VNAV systems, procedure NA below 3°C (38°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. When local altimeter setting not received use Port Isabel altimeter setting and increase LPV DA to 257 feet and LNAV/VNAV DA to 411 feet and all MDA 40 feet; increase LNAV/VNAV visibility all Cats to RVR 4500, LNAV visibility Cat C and D to RVR 5500. VDP and Baro-VNAV NA when using Port Isabel altimeter setting. For inop MALS/R, increase LNAV Cat C/D visibility to 1½ mile.

MALS/R
AS

MISSED APPROACH:
Climb to 500 then climbing left turn to 2000 direct FIRTA and hold.

ATIS 128.55	VALLEY APP CON 119.5 257.6	BROWNSVILLE TOWER* 118.9 (CTAF) 239.3	GND CON 121.9	UNICOM 122.95
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CATEGORY	A	B	C	D
LPV DA		219/24	200 (200-½)	
LNAV/VNAV DA		373/30	354 (400-¾)	
LNAV MDA	480/24	461 (500-½)	480/50	461 (500-1)
C CIRCLING	480-1 458 (500-1)	540-1 518 (600-1)	540-1½ 518 (600-1½)	680-2 658 (700-2)

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

BROWNSVILLE, TEXAS

AL-61 (FAA)

16259

WAAS CH 90425 W18A	APP CRS 179°	Rwy Idg 5810 TDZE 19 Apt Elev 22
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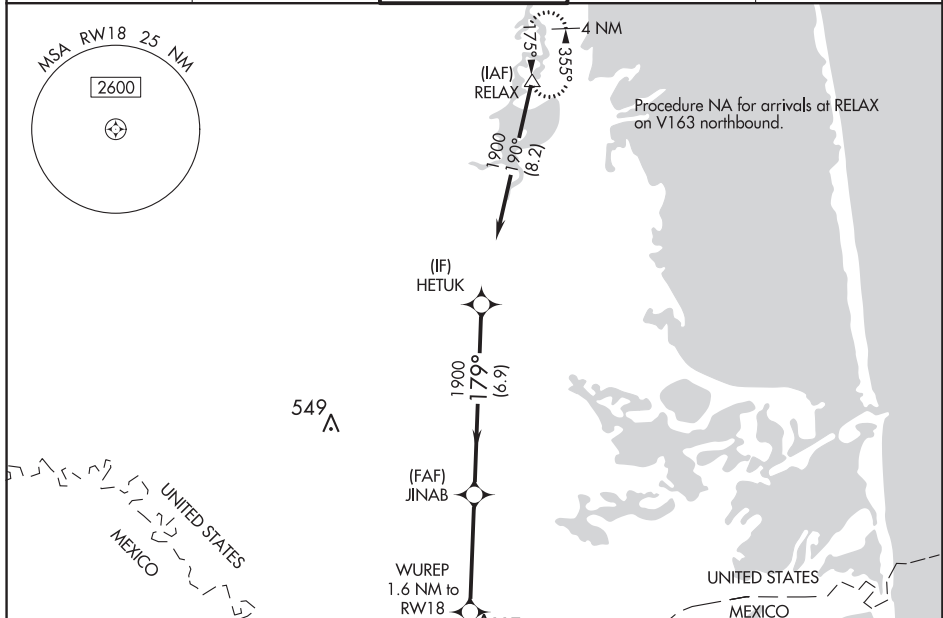
RNAV (GPS) RWY 18

BROWNSVILLE/SOUTH PADRE ISLAND INTL (BRO)

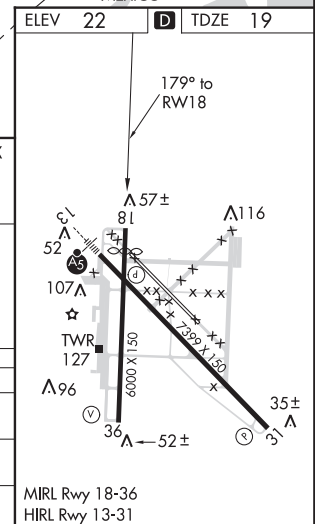
⚠ Radar Required. DME/DME RNP-0.3 NA. Helicopter visibility reduction below 1 SM NA. When local altimeter not received, use Port Isabel altimeter setting and increase all MDA 40 feet; increase LNAV Cats C and D visibility 1/8 mile and Circling Cat D 1/4 mile. Night landing Rwy 18 NA.

⚠ MISSED APPROACH: Climb to 500 then climbing left turn to 1900 direct RELAX and hold.

ATIS 128.55	VALLEY APP CON 119.5 257.6	BROWNSVILLE TOWER * 118.9 (CTAF) 239.3	GND CON 121.9	UNICOM 122.95
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	HETUK	JINAB	500	1900	RELAX
	1900	179°	1900	WUREP 1.6 NM to RW18	560
	6.9 NM		4.2 NM		1.6 NM
CATEGORY	A	B	C	D	
LP MDA		340-1	321 (400-1)		
LNAV MDA		380-1	361 (400-1)		
C CIRCLING	440-1 418 (500-1)	540-1 518 (600-1)	540-1½ 518 (600-1½)	680-2 658 (700-2)	



SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

BROWNSVILLE, TEXAS
Orig 15SEP16

BROWNSVILLE/SOUTH PADRE ISLAND INTL (BRO)
25°54'N-97°26'W
RNAV (GPS) RWY 18

LOC/DME I-BRO 110.3 Chan 40	APP CRS 312°	Rwy Idg 7399 TDZE 20 Apt Elev 22
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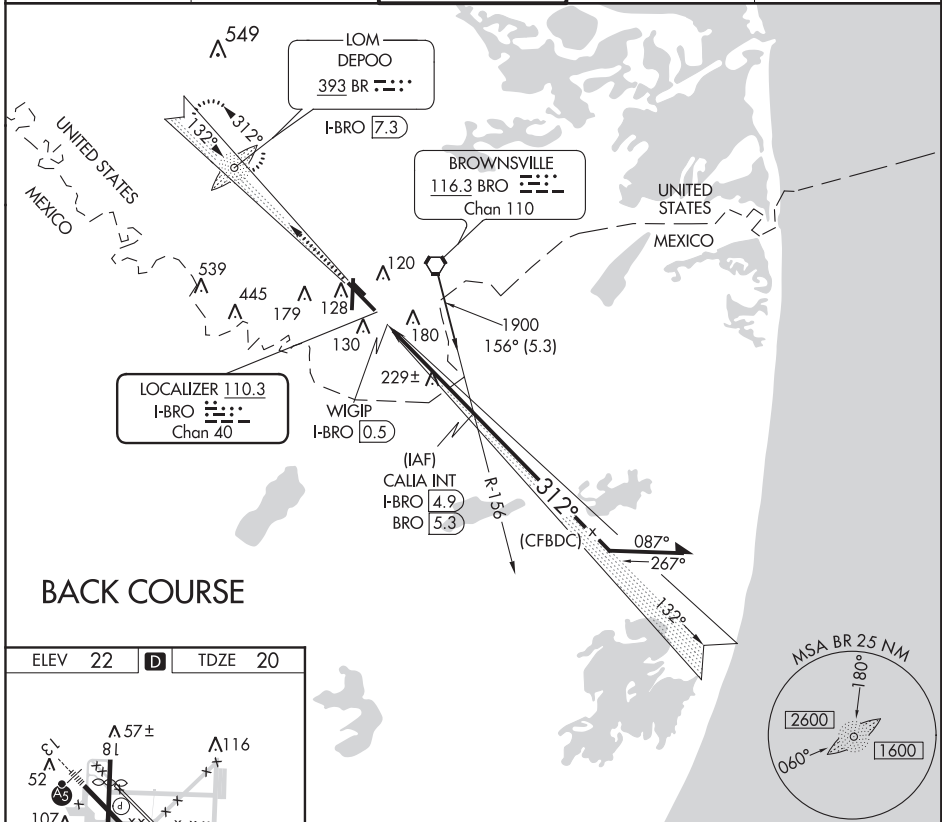
LOC BC RWY 31

BROWNSVILLE/SOUTH PADRE ISLAND INTL (BRO)

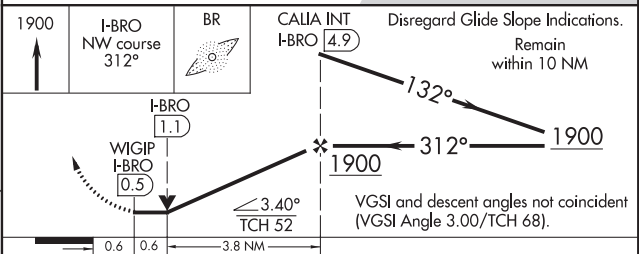
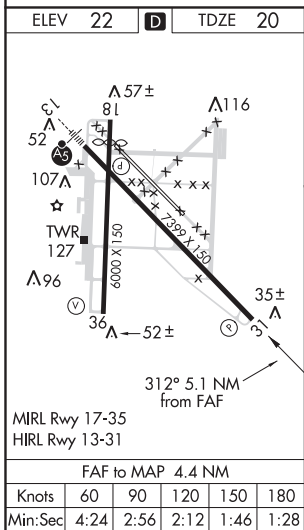
⚠ Helicopter visibility reduction below 3/4 SM NA. When local altimeter setting not received, use Port Isabel altimeter setting and increase all MDA 40 ft; increase Circling Cat D visibility 1/4 mile. Circling to Rwy 18 NA at night. ADF or DME required. VDP NA when using Port Isabel altimeter setting.

⚠ MISSED APPROACH: Climb to 1900 on I-BRO localizer NW course (312°) to DEPOO LOM/ I-BRO 7.3 DME and hold.

ATIS 128.55	VALLEY APP CON 119.5 257.6	BROWNSVILLE TOWER* 118.9 (CTAF) 239.3	GND CON 121.9	UNICOM 122.95
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BACK COURSE



CATEGORY	A	B	C	D
S-31	480-1	460 (500-1)	480-1 2/3	460 (500-1 2/3)
C CIRCLING	480-1 458 (500-1)	540-1 518 (600-1)	540-1 1/2 518 (600-1 1/2)	680-2 658 (700-2)

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

BROWNSVILLE, TEXAS

AL-61 (FAA)

16287

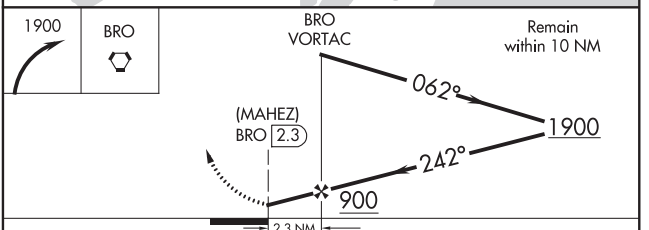
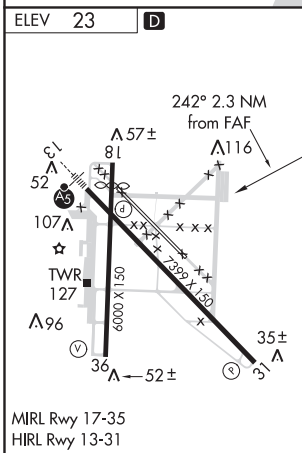
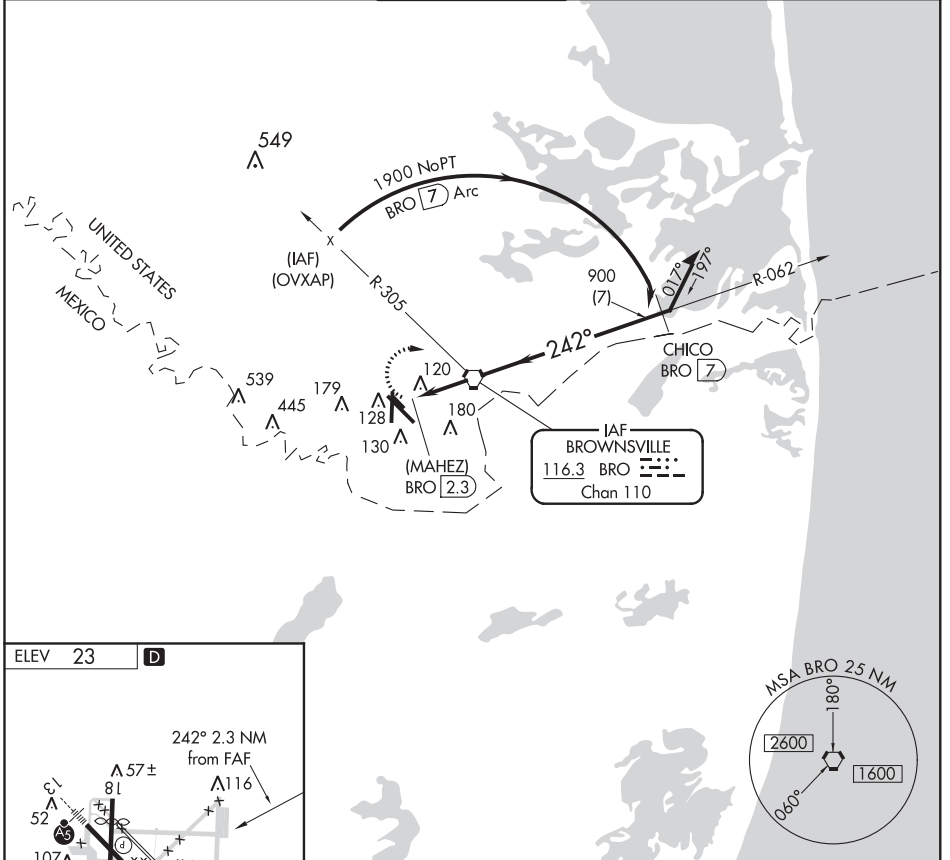
VORTAC BRO 116.3 Chan 110	APP CRS 242°	Rwy Idg TDZE Apt Elev	N/A N/A 23
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VOR or TACAN-A

BROWNSVILLE/SOUTH PADRE ISLAND INTL (BRO)

▼ When VGSI inop Circling Rwy 18 NA at night. MISSED APPROACH: Climbing right turn to 1900 direct BRO VORTAC. (TACAN aircraft climbing right turn to 1900 via BRO R-062 to CHICO/BRO 7 DME and hold NE, right turn, 242° inbound).

ATIS 128.55	VALLEY APP CON 119.5 257.6	BROWNSVILLE TOWER* 118.9 (CTAF) 239.3	GND CON 121.9	UNICOM 122.95
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FAF to MAP 2.3 NM					
Knots	60	90	120	150	180
Min:Sec	2:18	1:32	1:09	0:55	0:46
CATEGORY	A	B	C	D	
☑ CIRCLING	440-1 418 (500-1)	540-1 518 (600-1)	540-1½ 518 (600-1½)	680-2 658 (700-2)	

BROWNSVILLE, TEXAS
Amdt 1C 13OCT16

25°54'N-97°26'W

BROWNSVILLE/SOUTH PADRE ISLAND INTL (BRO)
VOR or TACAN-A

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

16259

AIRPORT DIAGRAM

BROWNSVILLE/SOUTH PADRE ISLAND INTL (BRO)
AL-61 (FAA)
BROWNSVILLE, TEXAS

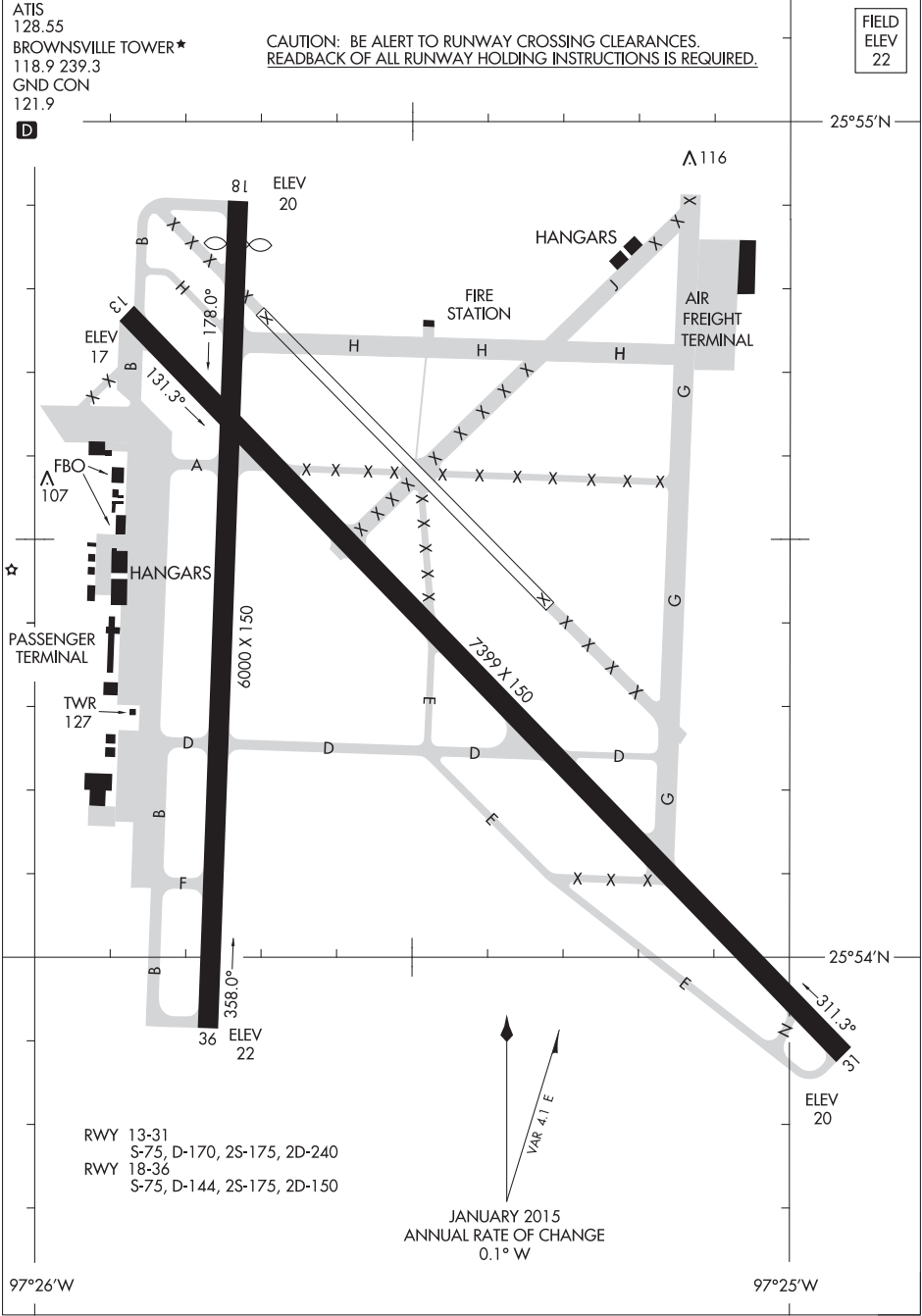
ATIS
128.55
BROWNSVILLE TOWER★
118.9 239.3
GND CON
121.9

CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

FIELD
ELEV
22

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017



AIRPORT DIAGRAM

16259

BROWNSVILLE, TEXAS
BROWNSVILLE/SOUTH PADRE ISLAND INTL (BRO)

BROWNWOOD, TEXAS

AL-705 (FAA)

14261

WAAS CH 70325 W17A	APP CRS 171°	Rwy Idg TDZE Apt Elev	5599 1387 1387
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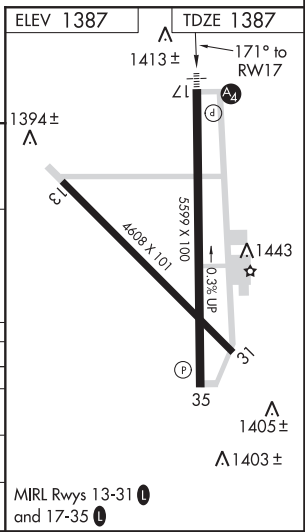
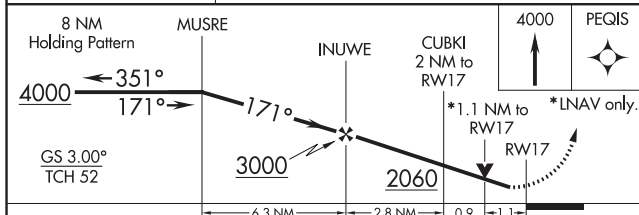
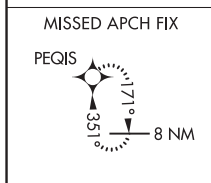
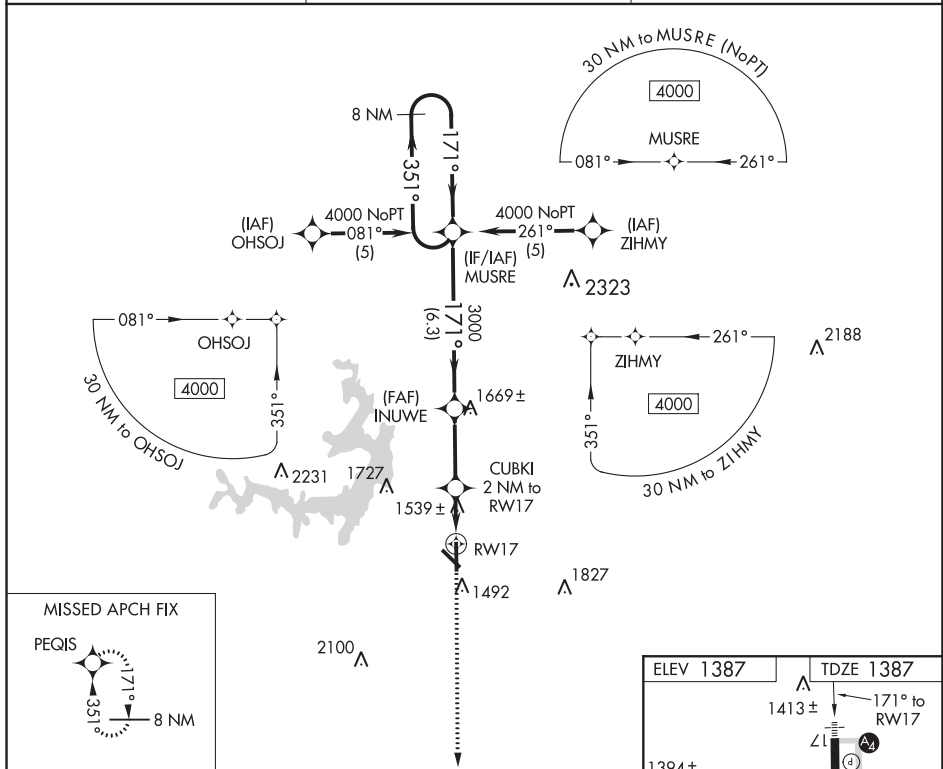
RNAV (GPS) RWY 17

BROWNWOOD RGNL (BWD)

▼ If local altimeter setting not received, use Comanche County-City altimeter setting and increase all DAs/MDAs 60 feet. Inoperative table does not apply to LPV all Cats and LNAV Cat C.
▲ VDP NA with Comanche County-City altimeter setting. DME/DME RNP-0.3 NA.

MALS **A₂**
 MISSED APPROACH: Climb to 4000 direct PEQIS and hold.

AWOS-3 118.325	FORT WORTH CENTER 127.45 290.3	UNICOM 122.8 (CTAF)
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CATEGORY	A	B	C	D
LPV DA		1637-¾	250 (300-¾)	
LNAV/VNAV DA	NA			
LNAV MDA	1800-¾	413 (500-¾)	1800-1¼	413 (500-1¼)
CIRCLING	1840-1	453 (500-1)	1840-1½	1940-2
			453 (500-1½)	553 (600-2)

BROWNWOOD, TEXAS
 Amdt 1 04AUG05

31°48'N-98°57'W

RNAV (GPS) RWY 17

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

WAAS CH 77525 W35A	APP CRS 351°	Rwy Idg TDZE Apt Elev	5599 1386 1387
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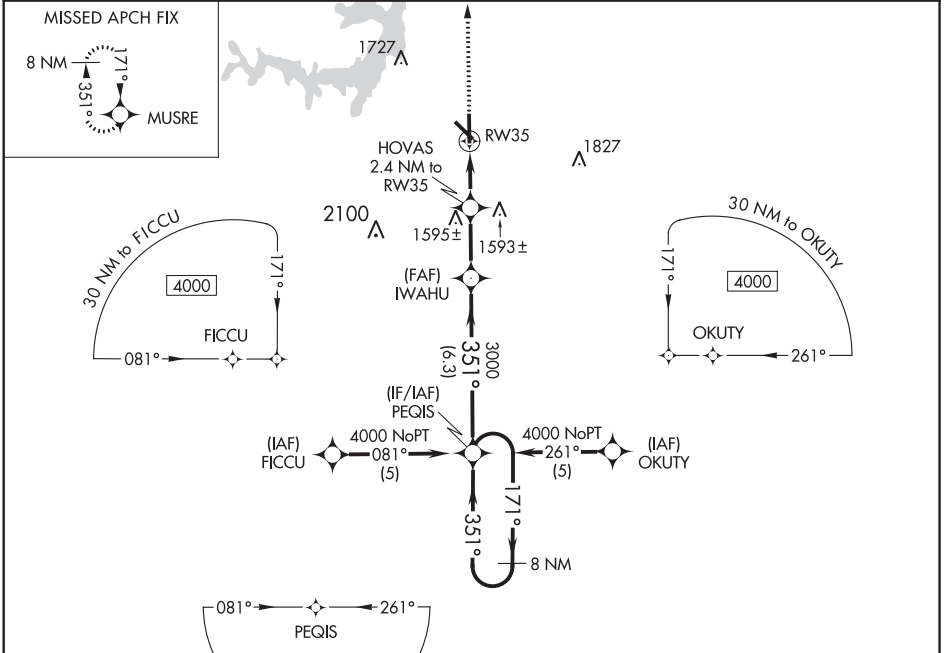
RNAV (GPS) RWY 35

BROWNWOOD RGNL (BWD)

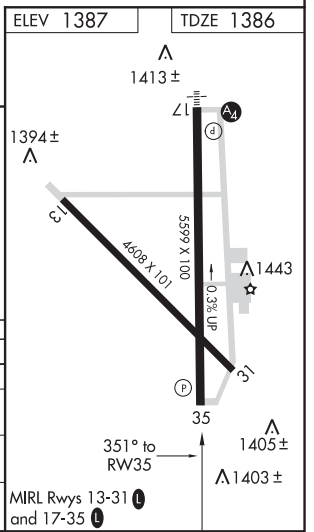
⚠ If local altimeter setting not received, use Comanche County-City altimeter setting and increase all DAs/MDAs 60 feet. VDP NA with Comanche County-City altimeter setting. DME/DME RNP-0.3 NA.

⚠ MISSED APPROACH: Climb to 4000 direct MUSRE and hold.

AWOS-3 118.325	FORT WORTH CENTER 127.45 290.3	UNICOM 122.8 (CTAF)
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CATEGORY	A	B	C	D
LPV DA		1636-1	250 (300-1)	
LNAV/VNAV DA		NA		
LNAV MDA	1780-1	394 (400-1)	1780-1¼ 394 (400-1¼)	
CIRCLING	1840-1	453 (500-1)	1840-1½ 453 (500-1½)	1940-2 553 (600-2)



SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

BROWNWOOD, TEXAS

AL-705 (FAA)

15316

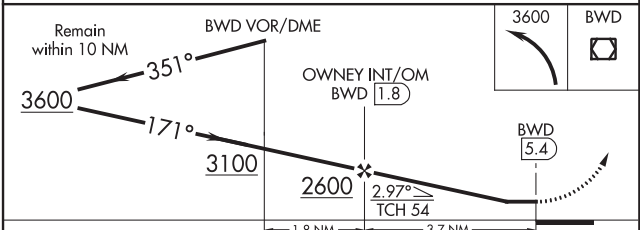
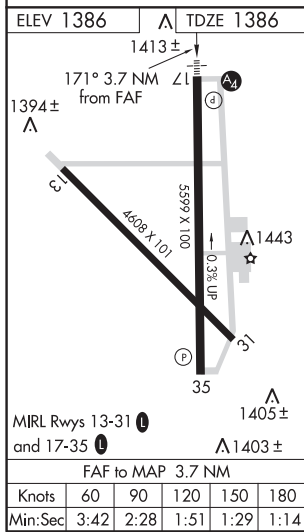
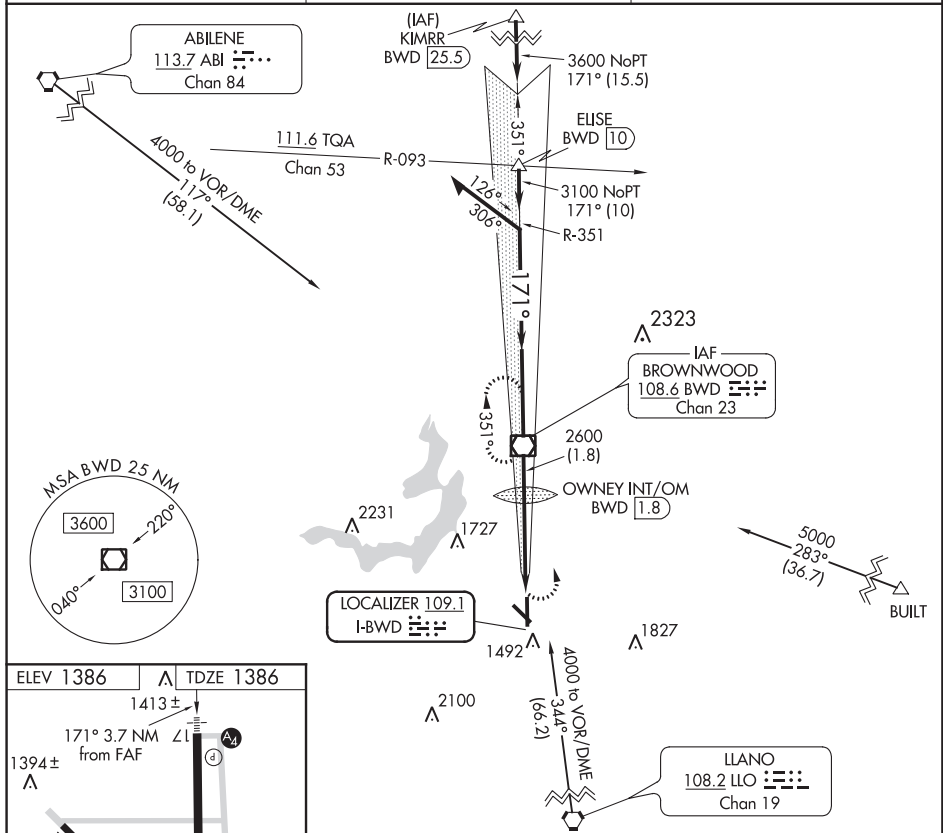
LOC I-BWD 109.1	APP CRS 171°	Rwy Idg 5599
		TDZE 1386
		Apt Elev 1386

LOC RWY 17

BROWNWOOD RGNL (BWD)

<p>NA Inoperative table does not apply.</p>	<p>MALS </p>	<p>MISSED APPROACH: Climbing left turn to 3600 direct BWD VOR/DME and hold.</p>
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<p>AWOS-3 118.325</p>	<p>FORT WORTH CENTER 127.45 290.3</p>	<p>UNICOM 122.8 (CTAF) 0</p>
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CATEGORY	A	B	C	D
S-17	1820-1	434 (500-1)	1820-1¼ 434 (500-1¼)	1820-1½ 434 (500-1½)
CIRCLING	1820-1 434 (500-1)	1840-1 454 (500-1)	1840-1½ 454 (500-1½)	1940-2 554 (600-2)

BROWNWOOD, TEXAS
Amdt 4A 24FEB00

31°48'N-98°57'W

BROWNWOOD RGNL (BWD) LOC RWY 17

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

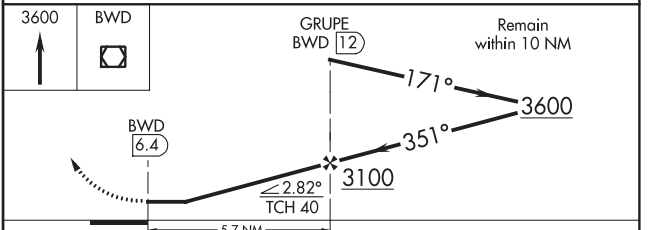
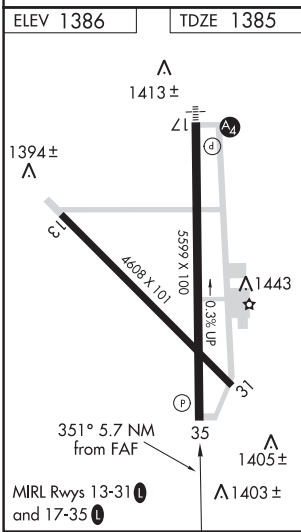
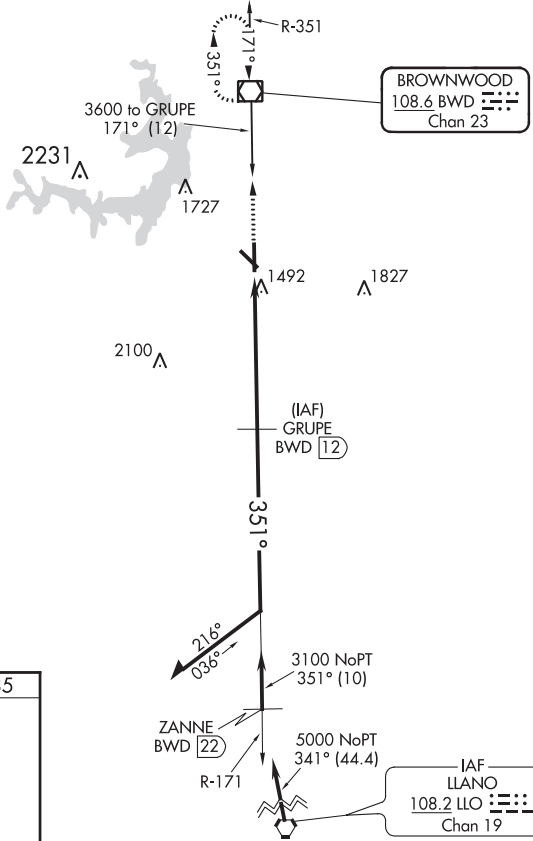
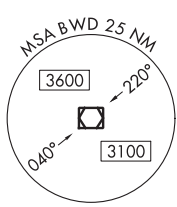
VOR/DME BWD 108.6 Chan 23	APP CRS 351°	Rwy Idg TDZE Apt Elev	5599 1385 1386
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VOR/DME RWY 35

BROWNWOOD RGNL (BWD)

NA MISSED APPROACH: Climb to 3600 direct BWD VOR/DME and hold.

AWOS-3 118.325	FORT WORTH CENTER 127.45 290.3	UNICOM 122.8 (CTAF)
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CATEGORY	A	B	C	D
S-35	1880-1	495 (500-1)	1880-1¼ 495 (500-1¼)	1880-1½ 495 (500-1½)
CIRCLING	1880-1	494 (500-1)	1880-1½ 494 (500-1½)	1940-2 554 (600-2)

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

RNAV (GPS) RWY 1

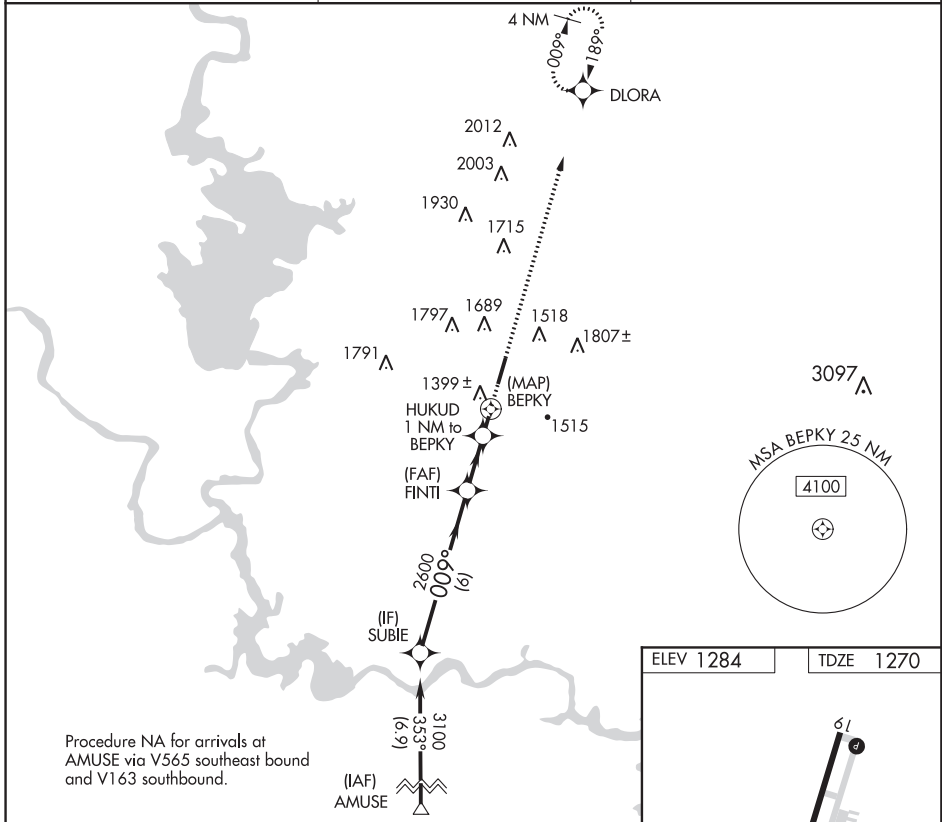
BURNET MUNI/KATE CRADDOCK FIELD (BMQ)

APP CRS 009°	Rwy Idg 5000
	TDZE 1270
	Apt Elev 1284

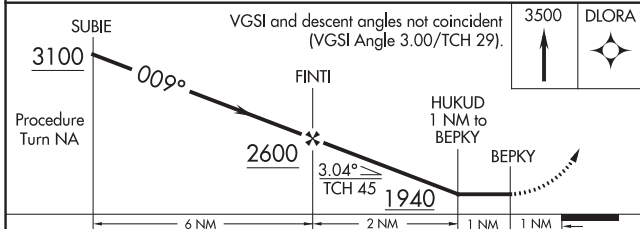
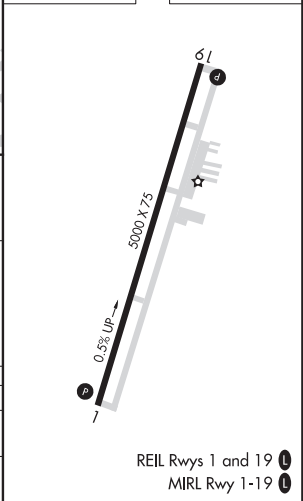
⚠ DME/DME RNP-0.3 NA. Helicopter visibility reduction below 1 SM NA. When local altimeter setting not received, use Lago Vista altimeter setting and increase all MDA 60 feet, increase Circling Cat C visibility ¼ mile. Procedure NA at night.

MISSED APPROACH: Climb to 3500 direct DLORA and hold.

ASOS 119.925	HOUSTON CENTER 132.35 317.5	UNICOM 122.8 (CTAF) 0
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ELEV 1284	TDZE 1270
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CATEGORY	A	B	C	D
RNAV MDA	1660-1¼	390 (400-1¼)		NA
CIRCLING	2000-1¼ 716 (800-1¼)	2040-1¼ 756 (800-1¼)	2040-2¼ 756 (800-2¼)	NA

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

APP CRS 189°	Rwy Idg 5000
	TDZE 1284
	Apt Elev 1284

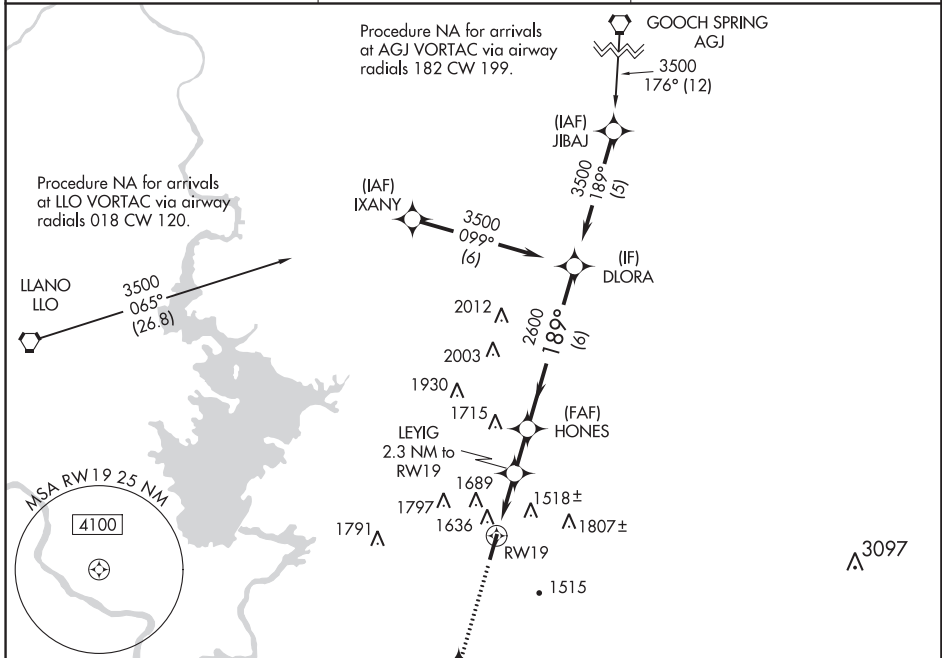
RNAV (GPS) RWY 19

BURNET MUNI/KATE CRADDOCK FIELD (BMQ)

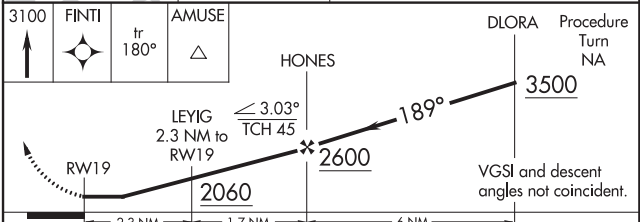
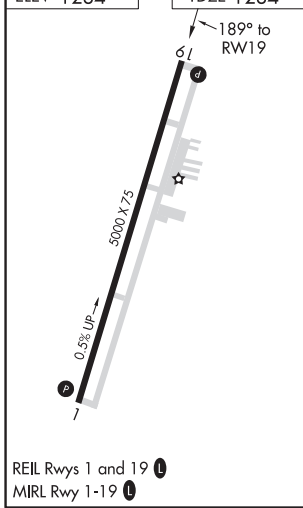
▼ DME/DME RNP-0.3 NA. When local altimeter setting not received, use Lago Vista altimeter setting and increase all MDA 60 feet, increase LNAV and Circling Cat C visibilities ¼ mile. Procedure NA at night. Helicopter visibility reduction below 1 SM NA.

▲ MISSED APPROACH: Climb to 3100 direct FINTI then via track 180° to AMUSE.

ASOS 119.925	HOUSTON CENTER 132.35 317.5	UNICOM 122.8 (CTAF) 1
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ELEV 1284	TDZE 1284
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CATEGORY	A	B	C	D
LNAV MDA	1940-1	656 (700-1)	1940-1¾ 656 (700-1¾)	NA
CIRCLING	2000-1 716 (800-1)	2040-1¼ 756 (800-1¼)	2040-2¼ 756 (800-2¼)	NA

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

CARRIZO SPRINGS, TEXAS

AL-6272 (FAA)

15120

WAAS CH 82133 W13A	APP CRS 127°	Rwy Idg 5003 TDZE 598 Apt Elev 598
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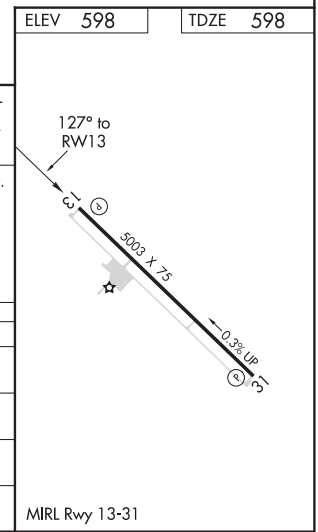
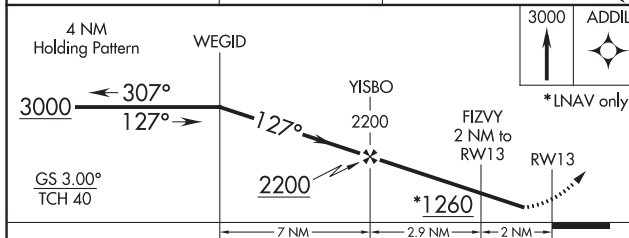
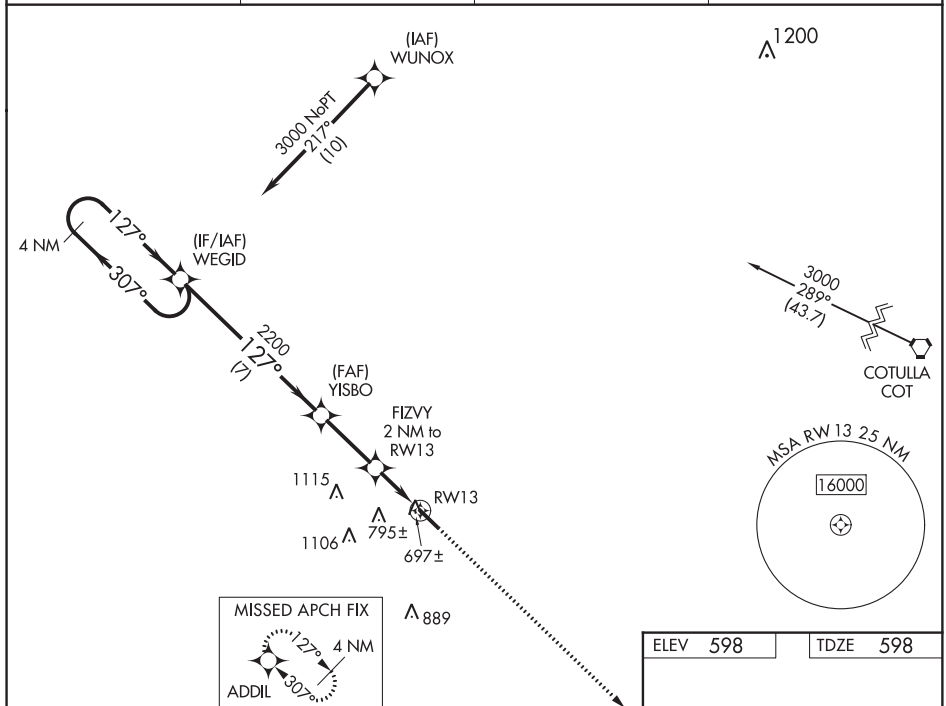
RNAV (GPS) RWY 13

DIMIT COUNTY (CZT)

▼ Baro-VNAV NA. DME/DME RNP-0.3 NA. Use Cotulla altimeter setting; when not received use Uvalde altimeter setting and increase all DA 52 feet, all MDA 60 feet and increase LPV all Cats, LNAV/VNAV all Cats, and Circling Cat C visibility 1/4 mile. Helicopter visibility reduction below 3/4 SM NA.

▲ NA MISSED APPROACH: Climb to 3000 direct ADDIL and hold.

AWOS-3 119.625	COTULLA ASOS 118.32	HOUSTON CENTER 126.1 319.1	UNICOM 122.8 (CTAF)
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CATEGORY	A	B	C	D
LPV DA	940-1 1/8	342 (400-1 1/8)		NA
LNAV/VNAV DA	940-1 1/8	342 (400-1 1/8)		NA
LNAV MDA	1040-1	442 (500-1)	1040-1 1/8 442 (500-1 1/8)	NA
C CIRCLING	1160-1 562 (600-1)	1240-1 642 (700-1)	1500-2 3/4 902 (1000-2 3/4)	NA

CARRIZO SPRINGS, TEXAS
Orig-B 13NOV14

28°31'N-99°49'W

RNAV (GPS) RWY 13

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

MIRL Rwy 13-31

WAAS CH 50433 W31A	APP CRS 307°	Rwy Idg 5003 TDZE 589 Apt Elev 598
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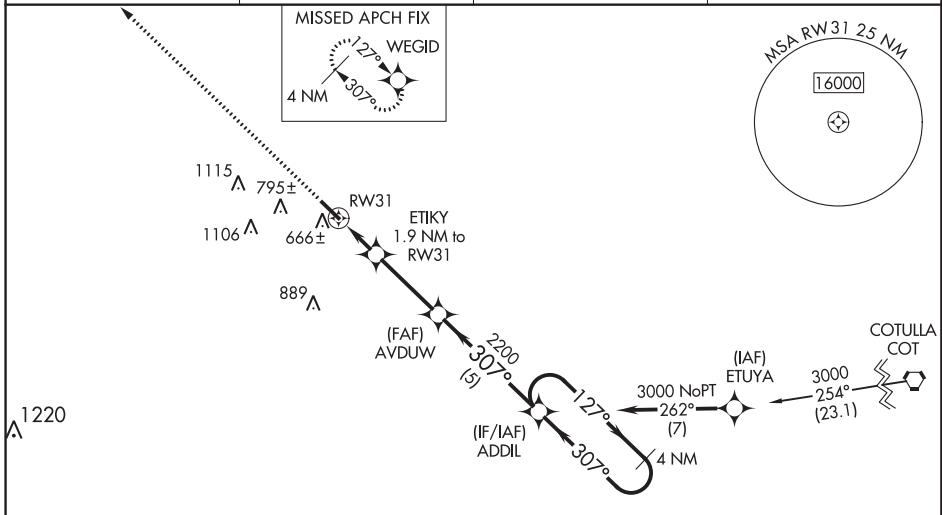
RNAV (GPS) RWY 31

DIMIT COUNTY (CZT)

NA Baro-VNAV NA. DME/DME RNP-0.3 NA. Use Cotulla altimeter setting; when not received use Uvalde altimeter setting and increase all DA 52 feet, all MDA 60 feet and increase LPV all Cats, LNAV/VNAV all Cats, and Circling Cat C visibility ¼ mile. Helicopter visibility reduction below ¾ SM NA.

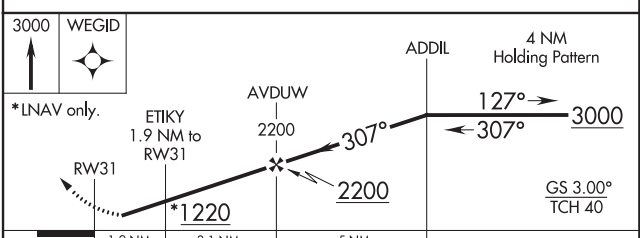
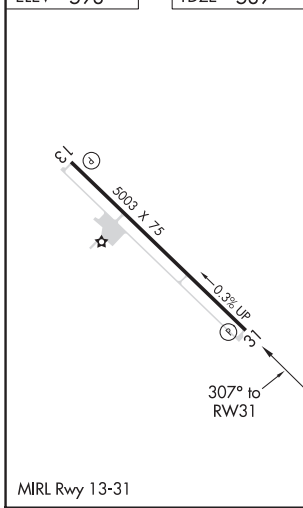
MISSED APPROACH: Climb a 3000 direct WEGID and hold.

AWOS-3 119.625	COTULLA ASOS 118.32	HOUSTON CENTER 126.1 319.1	UNICOM 122.8 (CTAF)
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Procedure NA for arrivals at COT VORTAC on V17 northbound.

ELEV 598	TDZE 589
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CATEGORY	A	B	C	D
LPV DA	931-1 $\frac{1}{8}$	342 (400-1 $\frac{1}{8}$)		NA
LNAV/VNAV DA	931-1 $\frac{1}{8}$	342 (400-1 $\frac{1}{8}$)		NA
LNAV MDA	1040-1	451 (500-1)	1040-1 $\frac{3}{8}$ 451 (500-1 $\frac{3}{8}$)	NA
C CIRCLING	1160-1 562 (600-1)	1240-1 642 (700-1)	1500-2 $\frac{3}{4}$ 902 (1000-2 $\frac{3}{4}$)	NA

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

CARRIZO SPRINGS, TEXAS

AL-6272 (FAA)

15120

NDB DMD 343	APP CRS 300°	Rwy Idg TDZE Apt Elev	5003 589 599
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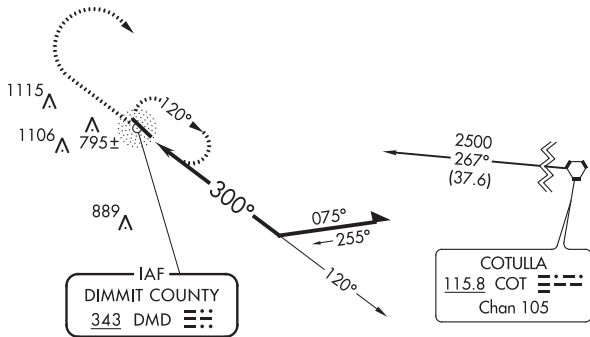
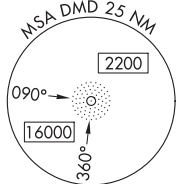
NDB RWY 31

DIMIT COUNTY (CZT)

▽ Use Cotulla alimeter setting; when not received, procedure NA.
△ NA Helicopter visibility reduction below 1 SM NA.
 Night landing: Rwy 31 NA.

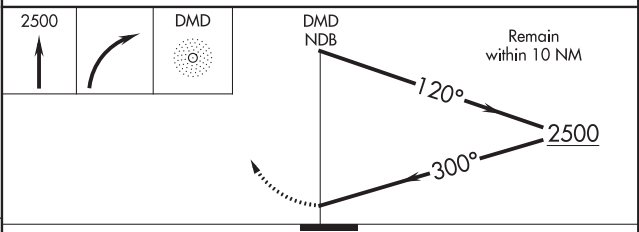
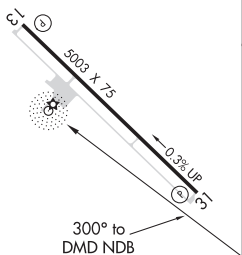
MISSED APPROACH: Climb to 2500 then right turn direct DMD NDB and hold.

AWOS-3 119.625	COTULLA ASOS 118.32	HOUSTON CENTER 126.1 319.1	UNICOM 122.8 (CTAF)
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1220 **△**

ELEV 599	TDZE 589
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CATEGORY	A	B	C	D
S-31	1260-1	671 (700-1)	1260-1½ 671 (700-1½)	NA
C CIRCLING	1260-1	661 (700-1)	1500-2¾ 901 (1000-2¾)	NA

CARRIZO SPRINGS, TEXAS
Amdt 3C 13NOV14

28°31'N-99°49'W

DIMIT COUNTY (CZT)

NDB RWY 31

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

WAAS CH 86838 W16A	APP CRS 157°	Rwy Idg 5001 TDZE 774 Apt Elev 774
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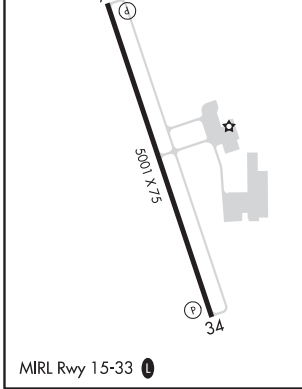
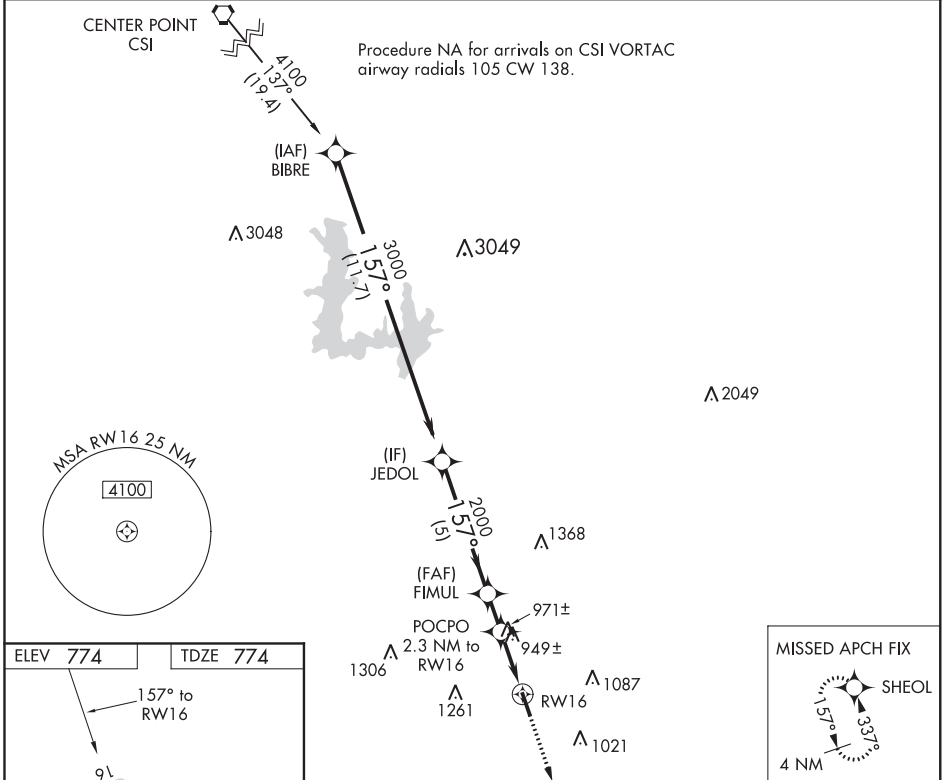
RNAV (GPS) RWY 16

CASTROVILLE MUNI (CVB)

⚠ DME/DME RNP-0.3 NA. When local altimeter setting not received, use Lackland AFB (Kelly FLD Annex) altimeter setting: increase all MDA 60 feet, increase all Cat C visibilities ¼ mile. Helicopter visibility reduction below 1 SM NA. Night landing: Rwy 16 NA.

⚠ MISSED APPROACH: Climb to 3000 direct SHEOL and hold.

AWOS-3 119.25	SOUTH TEXAS RGNL AT HONDO ASOS 119.675	SAN ANTONIO APP CON 118.05 353.5	UNICOM 122.8 (CTAF) 0
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	JEDOL	FIMUL	POCPO	3000	SHEOL
	3000	2000	1540	3000	SHEOL
	5 NM		1.4 NM	2.3 NM	
CATEGORY	A	B	C	D	
LP MDA	1200-1	426 (500-1)	1200-1¼ 426 (500-1¼)	NA	
LNAV MDA	1240-1	466 (500-1)	1240-1⅜ 466 (500-1⅜)	NA	
C CIRCLING	1240-1 466 (500-1)	1380-1 606 (700-1)	1580-2¼ 806 (900-2¼)	NA	

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

CASTROVILLE, TEXAS

AL-6552 (FAA)

16203

WAAS CH 50139 W34A	APP CRS 337°	Rwy Idg TDZE 769 Apt Elev 774	5001
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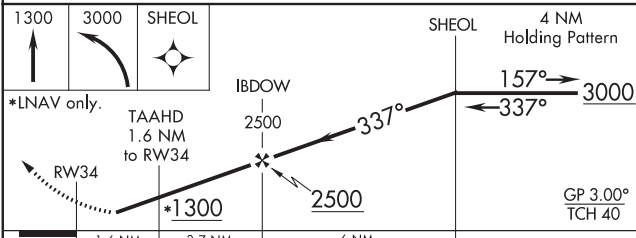
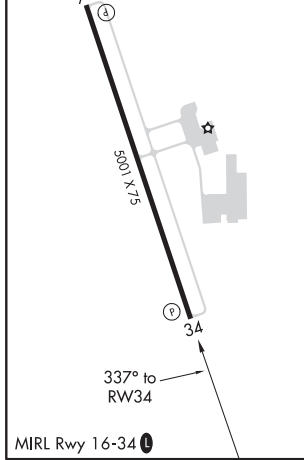
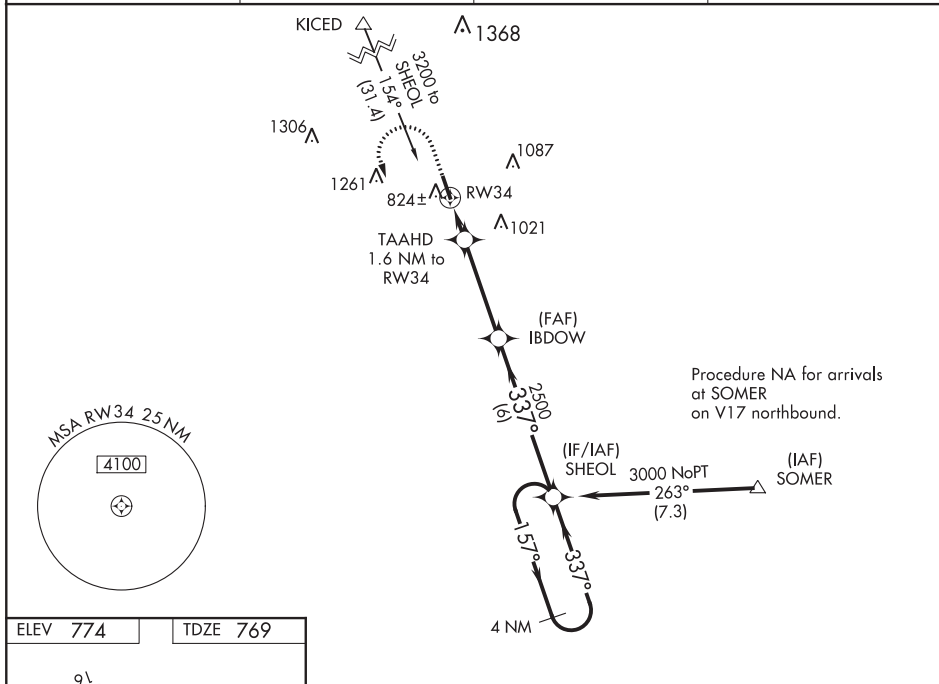
RNAV (GPS) RWY 34

CASTROVILLE MUNI (CVB)

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. When local altimeter setting not received, use Lackland AFB (Kelly Fld Annex) altimeter setting; increase all DA/MDA 60 feet and all visibilities ¼ mile. Helicopter visibility reduction below ¼ SM NA. Night landing: Rwy 16 NA.

MISSED APPROACH: Climb to 1300 then climbing left turn to 3000 direct SHEOL and hold.

AWOS-3 119.25	SOUTH TEXAS RGNL AT HONDO ASOS 119.675	SAN ANTONIO APP CON 118.05 353.5	UNICOM 122.8 (CTAF)
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CATEGORY	A	B	C	D
LPV DA	1019-7/8	250 (300-7/8)		NA
LNAV/VNAV DA	1127-1 1/4	358 (400-1 1/4)		NA
LNAV MDA	1200-1	431 (500-1)	1200-1 1/8 431 (500-1 1/8)	NA
CIRCLING	1200-1 426 (500-1)	1380-1 606 (700-1)	1580-2 1/4 806 (900-2 1/4)	NA

CASTROVILLE, TEXAS
Amdt 1 15OCT15

29°21'N-98°51'W

CASTROVILLE MUNI (CVB) RNAV (GPS) RWY 34

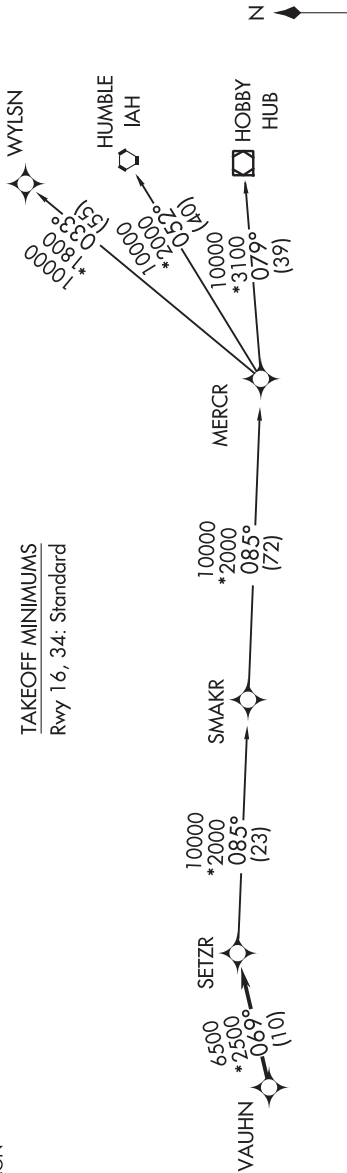
SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

REGIONAL DEP CON
118.05 353.5
CTAF 122.8

TAKEOFF MINIMUMS
Rwy 16, 34: Standard



NOTE: RADAR required.
 NOTE: DME/DME/IRU or GPS required.
 NOTE: For use by turbojet and turboprop aircraft only.
 NOTE: RNAV 1

NOTE: Chart not to scale

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 16: Climb on assigned heading for RADAR vectors to VAUHN, thence ...
TAKEOFF RWY 34: Climb on assigned heading for RADAR vectors to VAUHN, thence ...

... on track 069° to SETZR, then on (transition) maintain 5000 or as assigned by ATC. Expect filed altitude 10 minutes after departure.

- HOBBY TRANSITION (SETZR1.HUB)
- HUMBLE TRANSITION (SETZR1.IAH)
- SWAKR TRANSITION (SETZR1.SWAKR)
- WYLSN TRANSITION (SETZR1.WYLSN)

SC-3, 10 NOV 2016 to 05 JAN 2017

COLEMAN, TEXAS

AL-881 (FAA)

15064

WAAS CH 86529 W15A	APP CRS 148°	Rwy Idg 4506 TDZE 1697 Apt Elev 1697
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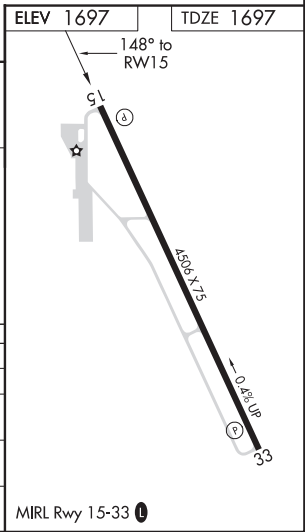
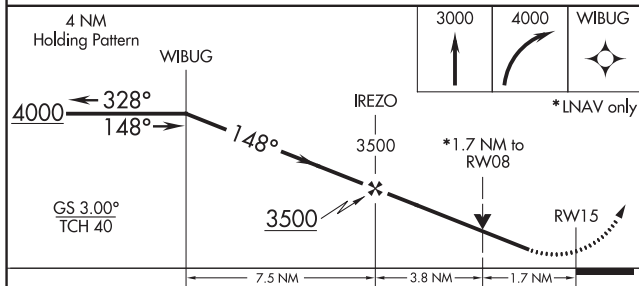
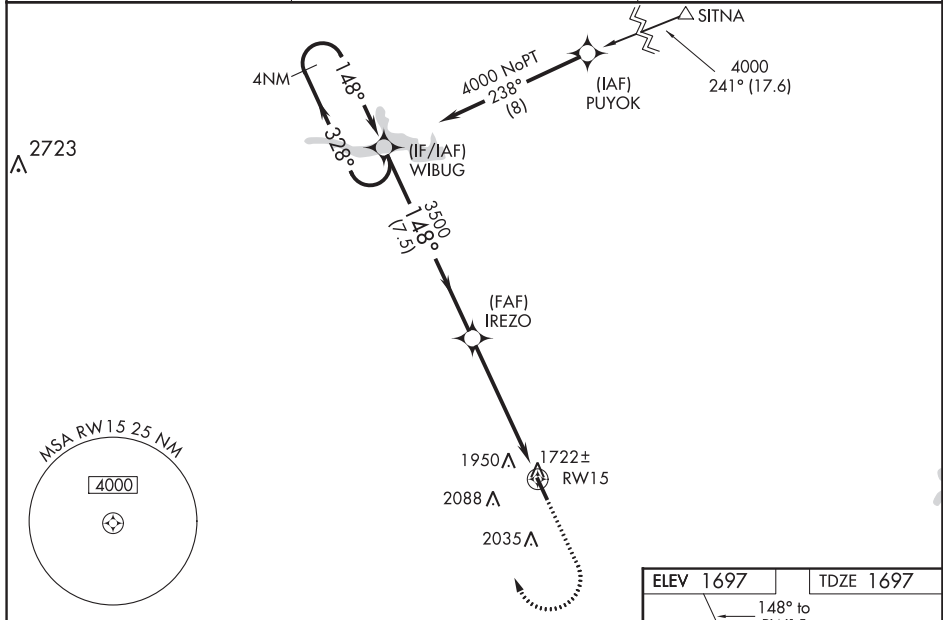
RNAV (GPS) RWY 15

COLEMAN MUNI (COM)

⚠ Baro-VNAV NA when using Brownwood altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -18°C (0°F) or above 54°C (130°F). When local altimeter setting not received, use Brownwood altimeter setting and increase all DA/MDA 100 feet. Increase LPV all Cats visibility ¼ mile, LNAV/VNAV all Cats visibility ⅓ mile, and LNAV and Circling Cat C visibility ¼ mile. DME/DME RNP-0.3 NA. Helicopter visibility reduction below ⅓ SM NA. VDP NA when using Brownwood altimeter setting.

⚠ MISSED APPROACH: Climb to 3000 then climbing right turn to 4000 direct WIBUG and hold.

AWOS-3PT 119.1	FORT WORTH CENTER 127.45 290.3	UNICOM 122.8 (CTAF) 0
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CATEGORY	A	B	C	D
LPV DA	1947-7/8	250 (300-7/8)		NA
LNAV/VNAV DA	2327-2 1/4	630 (700-2 1/4)		NA
LNAV MDA	2280-1 583 (600-1)		2280-1 3/4 583 (600-1 3/4)	NA
CIRCLING	2300-1 603 (700-1)			NA

COLEMAN, TEXAS
Orig-A 10JAN13

31°50'N-99°24'W

COLEMAN MUNI (COM) RNAV (GPS) RWY 15

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

WAAS CH 82034 W33A	APP CRS 328°	Rwy Idg TDZE Apt Elev	4506 1679 1697
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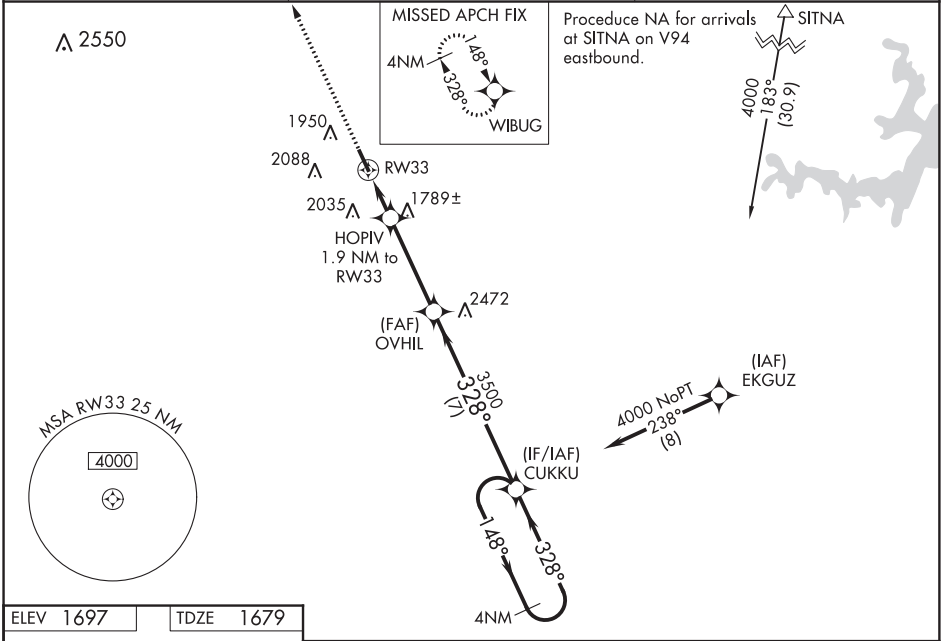
RNAV (GPS) RWY 33

COLEMAN MUNI (COM)

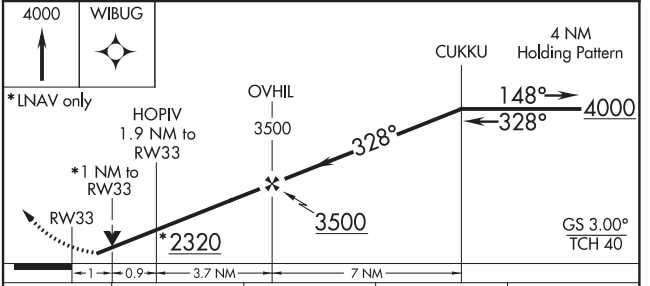
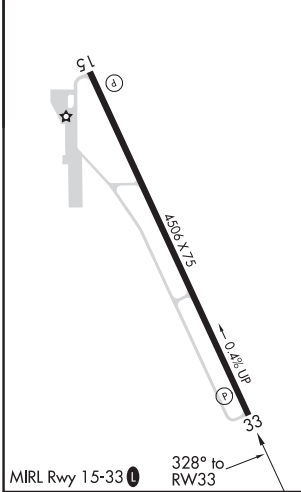
⚠ Baro-VNAV and VDP NA when using Brownwood altimeter setting. For uncompensated Baro-VNAV systems, procedure NA below -18°C (0°F) or above 54°C (130°F). When local altimeter setting not received, use Brownwood altimeter setting and increase all DA 97 feet and all visibilities ¼ mile; increase all MDA 100 feet, LNAV Cat C visibility ⅓ mile, and Circling Cats B and C ¼ mile. DME/DME RNP-0.3 NA. Helicopter visibility reduction below ⅓ SM NA.

MISSED APPROACH: Climb to 4000 direct WIBUG and hold.

AWOS-3PT 119.1	FORT WORTH CENTER 127.45 290.3	UNICOM 122.8 (CTAF) 0
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ELEV 1697	TDZE 1679
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CATEGORY	A	B	C	D
LPV DA	1929-7/8	250 (300-7/8)		NA
LNAV/VNAV DA	1929-7/8	250 (300-7/8)		NA
LNAV MDA	2040-1	361 (400-1)		NA
C CIRCLING	2300-1 603 (700-1)	2440-1 743 (800-1)	2440-2¼ 743 (800-2¼)	NA

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

WAAS CH 97436 W17A	APP CRS 173°	Rwy Idg TDZE Apt Elev	4497 1387 1387
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RNAV (GPS) RWY 17

COMANCHE COUNTY-CITY (MKN)

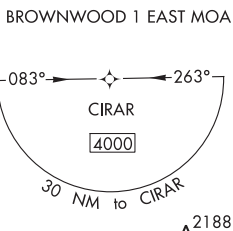
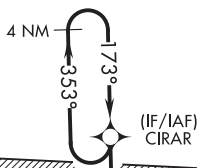
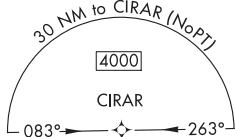
⚠ Night landing: Rwy 35 NA. DME/DME RNP-0.3 NA. When local altimeter setting is not received, use Brownwood altimeter setting: increase all DA 46 feet and all MDA 60 feet, increase LNAV/VNAV visibility all Cats 1/8 mile. Baro-VNAV and VDP NA when using Brownwood altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 54°C (130°F).

MISSED APPROACH:
Climb to 4000 direct ZALIR and hold.

AWOS-3
118.575

FORT WORTH CENTER
127.15 314.0

UNICOM
123.075 (CTAF)



SC-3, 10 NOV 2016 to 05 JAN 2017

2323

2188

BROWNWOOD 1 WEST MOA

2900

(FAF) HUPIN

(FAF) HUPIN

IRIYE 2.4 NM to RW17

1509 ±

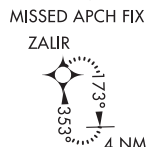
1790

1428 ±

1667

1428 ±

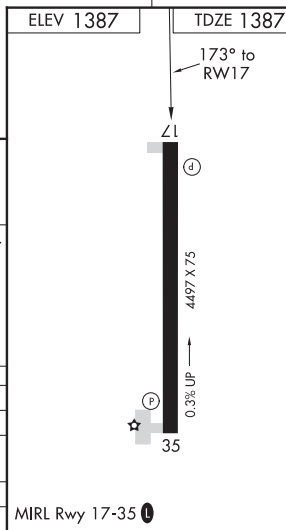
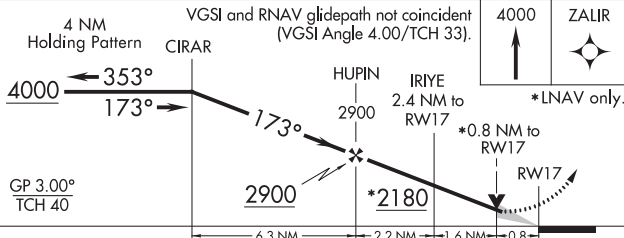
1667



SC-3, 10 NOV 2016 to 05 JAN 2017

ELEV 1387 TDZE 1387

173° to RW17



CATEGORY	A	B	C	D
LPV DA	1637-1	250 (300-1)		NA
LNAV/VNAV DA	1686-1	299 (300-1)		NA
LNAV MDA	1760-1	373 (400-1)		NA
C CIRCLING	2100-1	713 (800-1)		NA

MIRL Rwy 17-35

WAAS CH 61136 W35A	APP CRS 353°	Rwy Idg TDZE Apt Elev	4497 1374 1387
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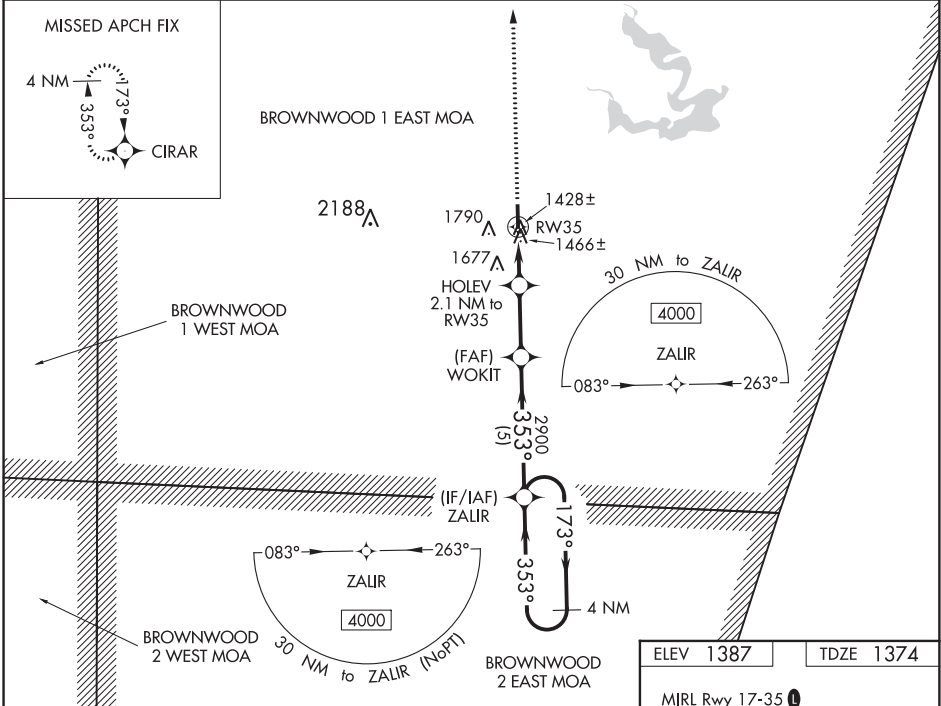
RNAV (GPS) RWY 35

COMANCHE COUNTY-CITY (MKN)

⚠ When local altimeter setting not received, use Brownwood altimeter setting and increase all MDA 60 feet. DME/DME RNP-0.3 NA. Rwy 35 Straight-In and Circling minimums NA at night. Helicopter visibility reduction below 1 SM NA.

MISSED APPROACH: Climb to 4000 direct CIRAR and hold.

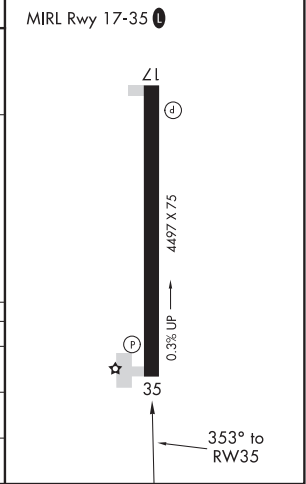
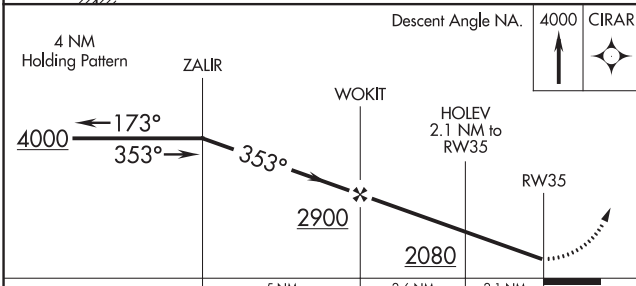
AWOS-3 118.575	FORT WORTH CENTER 127.15 314.0	UNICOM 123.075 (CTAF)
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SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

ELEV 1387	TDZE 1374
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CATEGORY	A	B	C	D
LP MDA	1720-1	346 (400-1)		NA
LNAV MDA	1800-1	426 (500-1)		NA
C CIRCLING	2100-1	713 (800-1)		NA

LOC/DME I-CRP 110.3 Chan 40	APP CRS 132°	Rwy Idg 7510 TDZE 46 Apt Elev 46
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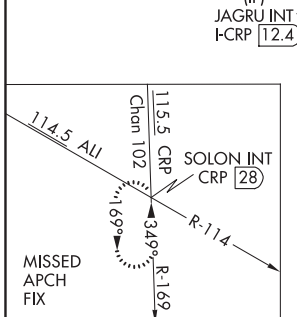
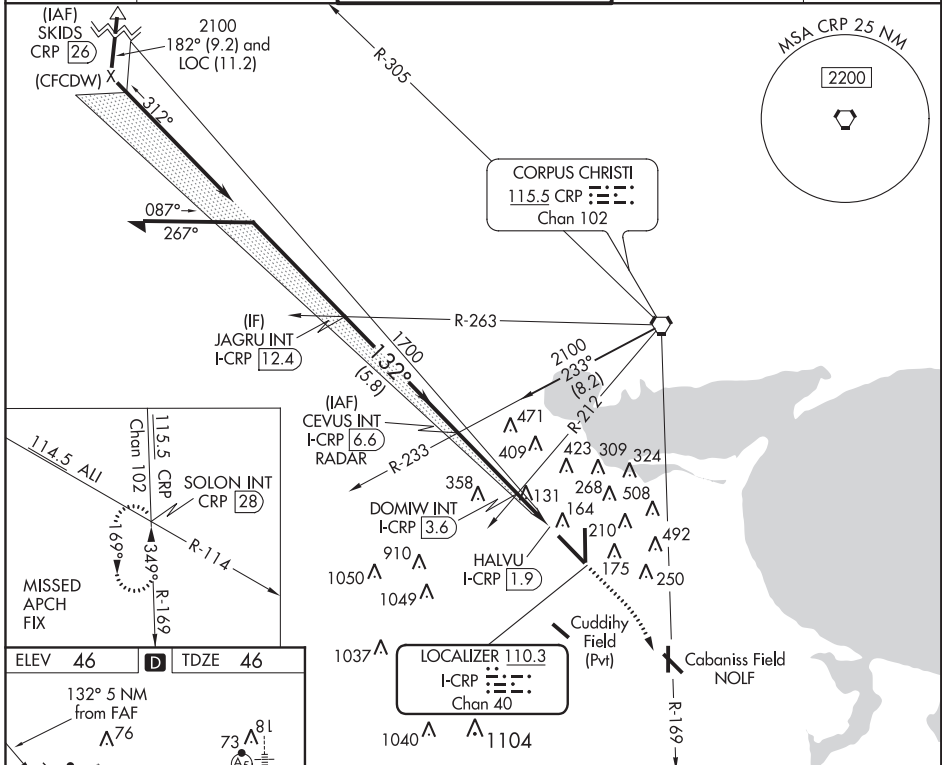
ILS or LOC RWY 13

CORPUS CHRISTI INTL (CRP)

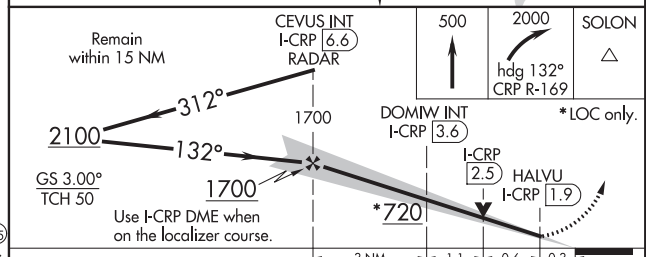
⚠ For inop MALSR, increase S-ILS 13 Cat E visibility to RVR 4000 and S-LOC 13 Cats C/D/E visibility to RVR 5500.
⚠ #RVR 1800 authorized with use of FD or AP or HUD to DA.

MALSR  MISSED APPROACH: Climb to 500 then climbing right turn to 2000 on heading 132° and CRP VORTAC R-169 to SOLON INT/CRP VORTAC 28 DME and hold.

ATIS 126.8	CORPUS APP CON 120.9 348.725	CORPUS TOWER 119.4 257.8	GND CON 121.9 269.15	CLNC DEL 118.55
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ELEV 46	D	TDZE 46			
HIRL Rwy 13-31 and 18-36					
FAF to MAP 4.7 NM					
Knots	60	90	120	150	180
Min:Sec	4:42	3:08	2:21	1:53	1:34



CATEGORY	A	B	C	D	E
S-ILS 13#	246/24 200 (200-½)				
S-LOC 13	400/24	354 (400-½)	400/30 354 (400-¾)		
C CIRCLING	500-1 454 (500-1)	580-1 534 (600-1)	820-2¼ 774 (800-2¼)	820-2½ 774 (800-2½)	820-2¾ 774 (800-2¾)

SC-3, 10 NOV 2016 to 05 JAN 2017


SC-3, 10 NOV 2016 to 05 JAN 2017

RNAV (RNP) Z RWY 13

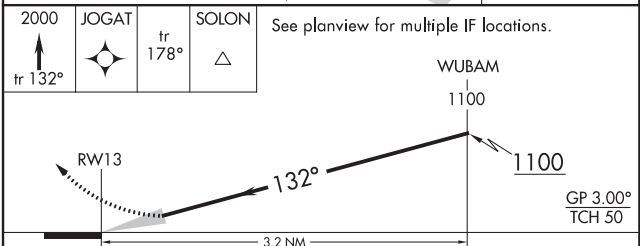
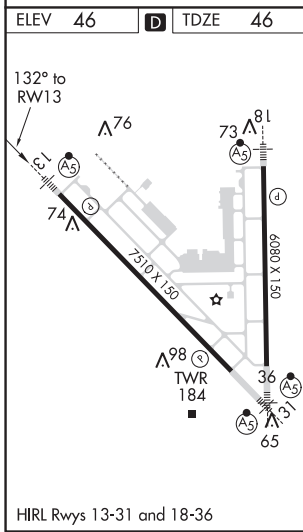
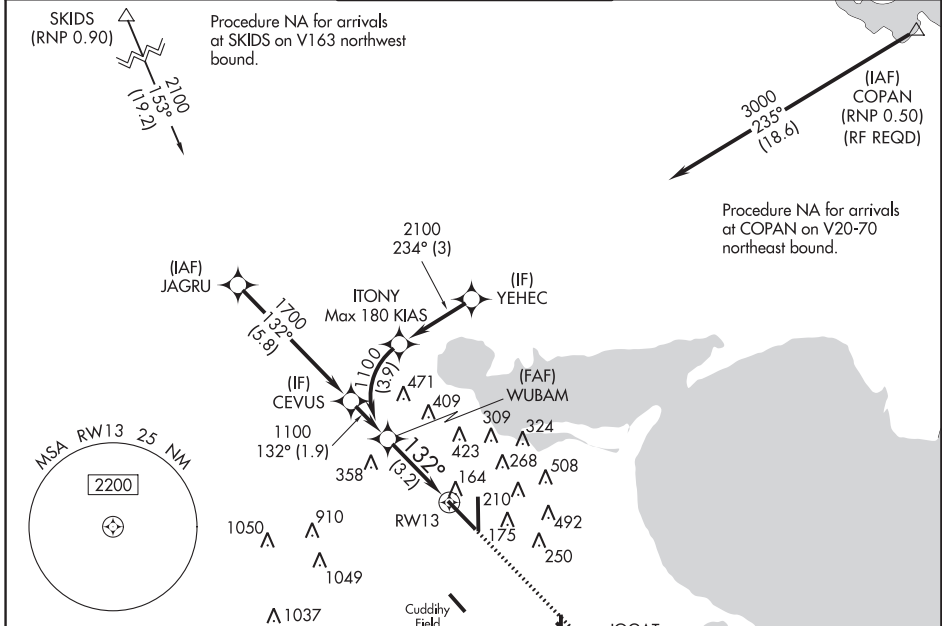
CORPUS CHRISTI INTL (CRP)

APP CRS 132°	Rwy Idg 7510	TDZE 46
	Apt Elev 46	

▼ For uncompensated Baro-VNAV systems, procedure NA below -1°C (31°F) or above 54°C (130°F). GPS Required.

MALSR
 MISSED APPROACH: Climb to 2000 on track 132° to JOGAT and on track 178° to SOLON and hold.

ATIS 126.8	CORPUS APP CON 120.9 348.725	CORPUS TOWER 119.4 257.8	GND CON 121.9 269.15	CLNC DEL 118.55
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CATEGORY	A	B	C	D
RNP 0.30 DA		394/30	348 (400-%)	

AUTHORIZATION REQUIRED

SC-3, 10 NOV 2016 to 05 JAN 2017


SC-3, 10 NOV 2016 to 05 JAN 2017

RNAV (RNP) Z RWY 31

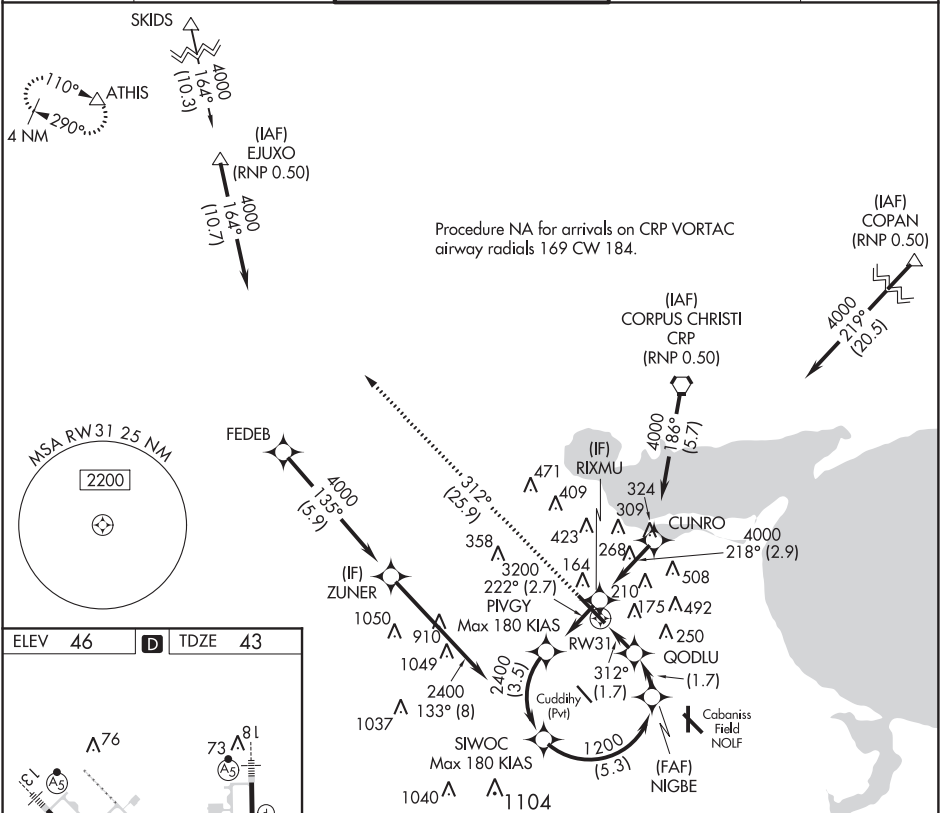
CORPUS CHRISTI INTL (CRP)

APP CRS	Rwy Idg	7510
312°	TDZE	43
	Apt Elev	46

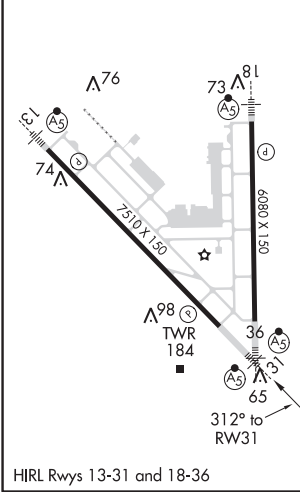
▼ For uncompensated Baro-VNAV systems, procedure NA below -1°C (31°F) or above 54°C (130°F). GPS and RF Required. For inop MALSR, increase RNP 0.14 all Cats visibility to ¾ mile.
 * Missed approach requires minimum climb of 335 feet per NM to 500.

MALSR

MISSED APPROACH: Climb to 2000 on track 312° to ATHIS and hold.

ATIS 126.8	CORPUS APP CON 120.9 348.725	CORPUS TOWER 119.4 257.8	GND CON 121.9 269.15	CLNC DEL 118.55
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ELEV 46	D	TDZE 43
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2000	ATHIS	See planview for multiple IF locations.	SIWOC	
↑	△			
fr 312°				
RW31	GODLU	NIGBE	SIWOC	
	646	1200	2400	
		1200		
	1.7 NM	1.7 NM	5.3 NM	
CATEGORY	A	B	C	D
RNP 0.14 DA*		303-½	260 (300-½)	
RNP 0.30 DA		384-⅝	341 (400-¾)	

AUTHORIZATION REQUIRED

SC-3, 10 NOV 2016 to 05 JAN 2017


SC-3, 10 NOV 2016 to 05 JAN 2017

RNAV (RNP) Z RWY 36

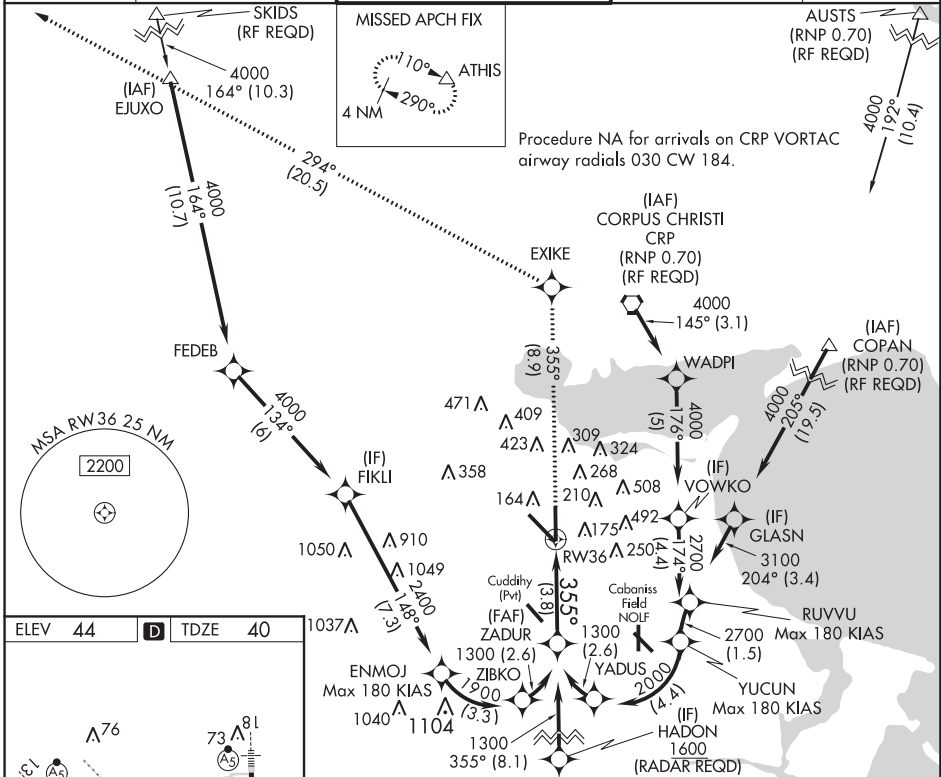
CORPUS CHRISTI INTL (CRP)

APP CRS 355°	Rwy Idg 6080
	TDZE 40
	Apt Elev 44

▼ For uncompensated Baro-VNAV systems, procedure NA below -1°C (-31°F) or above 54°C (130°F). GPS Required. For inop MALS, increase RNP 0.11 visibility all Cats to RVR 4000. For inop MALS, increase RNP 0.30 visibility all Cats to RVR 5900.

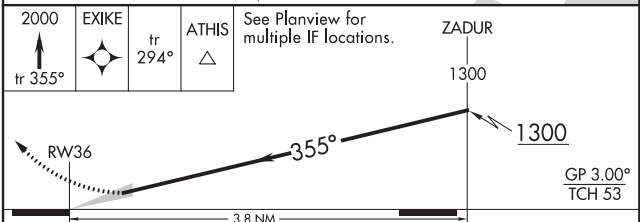
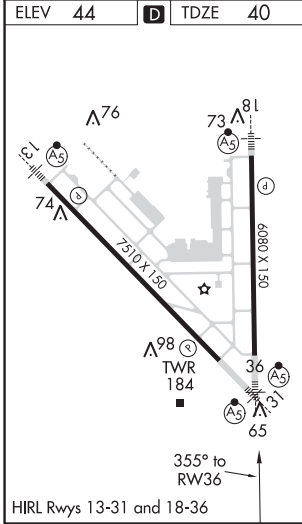
MALS  MISSED APPROACH: Climb to 2000 on track 355° to EXIKE and on track 294° to ATHIS and hold.

ATIS 126.8	CORPUS APP CON 120.9 348.725	CORPUS TOWER 119.4 257.8	GND CON 121.9 269.15	CLNC DEL 118.55
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SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017



CATEGORY	A	B	C	D
RNP 0.11 DA		290/24	250 (300-½)	
RNP 0.30 DA		400/34	360 (400-¾)	

AUTHORIZATION REQUIRED

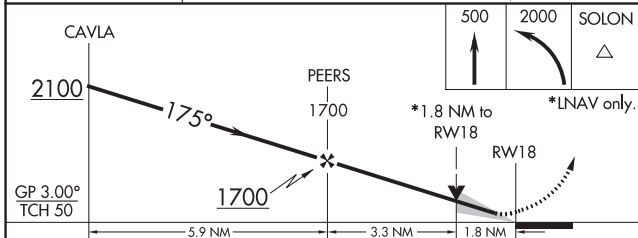
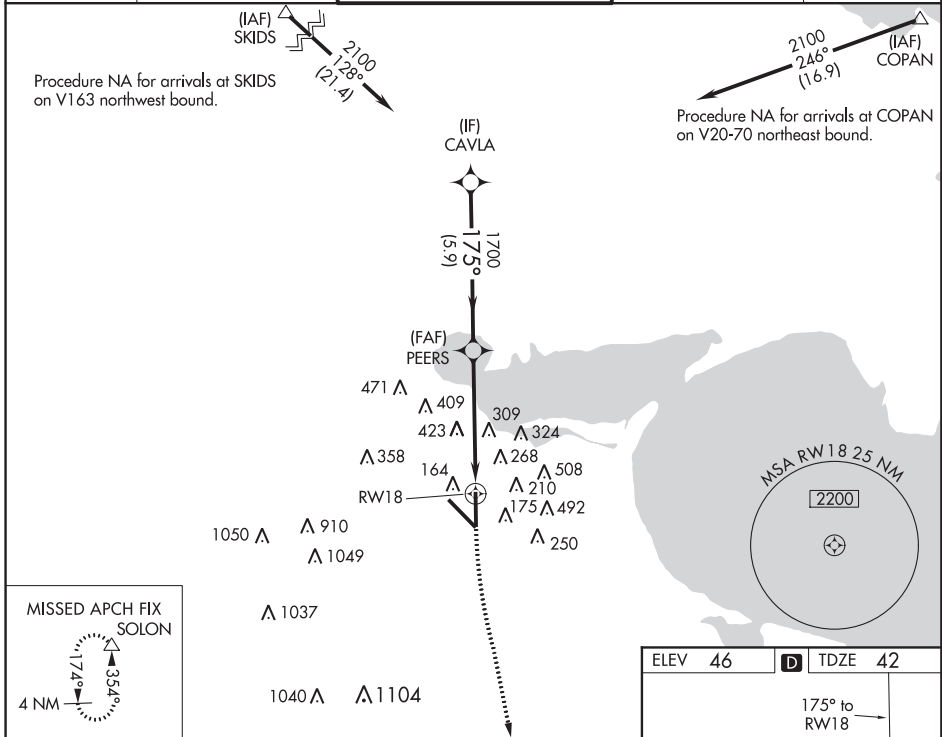
WAAS CH 53635 W18A	APP CRS 175°	Rwy Idg 6080 TDZE 42 Apt Elev 46
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RNAV (GPS) RWY 18

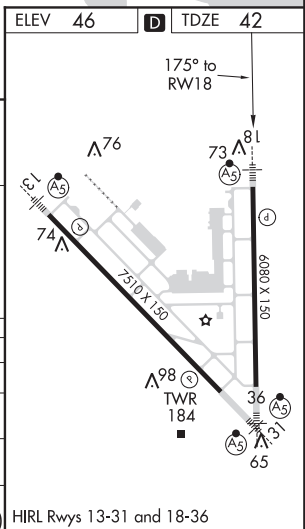
CORPUS CHRISTI INTL (CRP)

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below 1°C (34°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. For inop MALSRS increase LPV Cat E visibility to ¾ mile, LNAV/VNAV Cat E visibility to 1 mile and Cat C/D/E visibility to 1½ mile.	MALSRS 	MISSED APPROACH: Climb to 500 then climbing left turn to 2000 direct SOLON and hold.

ATIS 126.8	CORPUS APP CON 120.9 348.725	CORPUS TOWER 119.4 257.8	GND CON 121.9 269.15	CLNC DEL 118.55
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CATEGORY	A	B	C	D	E
LPV DA		242-½	200 (200-½)		
LNAV/VNAV DA		345-½	303 (300-½)		
LNAV MDA	660-½	618 (700-½)	660-1⅜	618 (700-1⅜)	
CIRCLING	660-1	614 (700-1)	820-2¼ 774 (800-2¼)	820-2½ 774 (800-2½)	820-2¾ 774 (800-2¾)



SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

WAAS CH 97515 W13A	APP CRS 132°	Rwy Idg TDZE Apt Elev	7510 46 46
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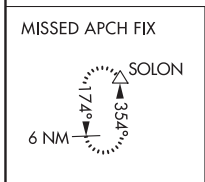
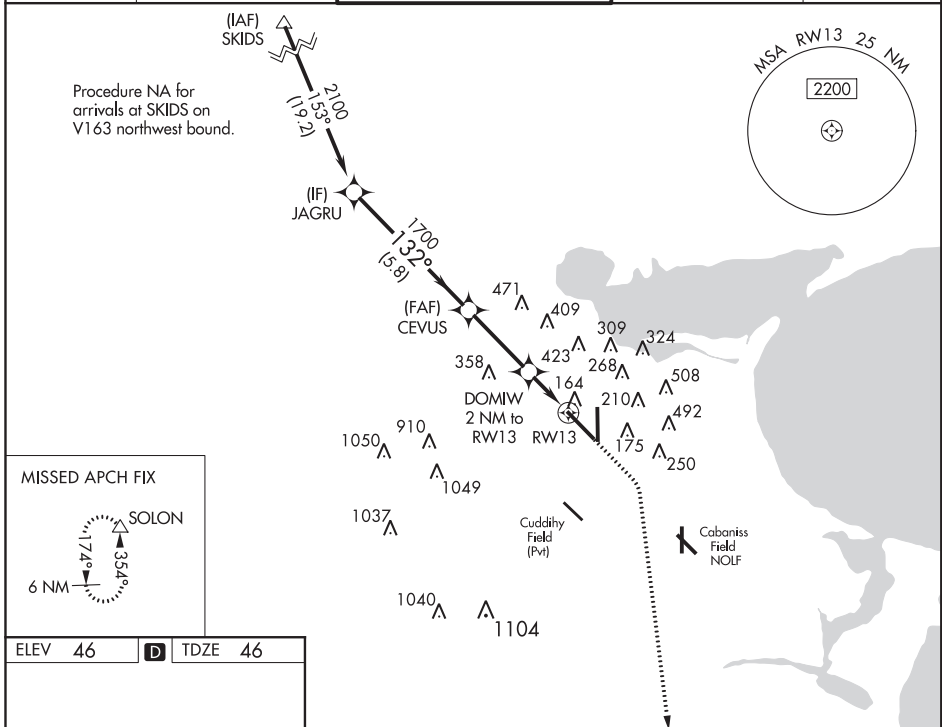
RNAV (GPS) Y RWY 13

CORPUS CHRISTI INTL (CRP)

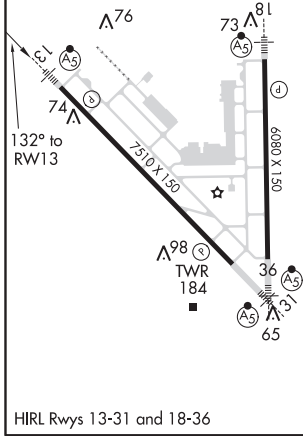
⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -1°C (31°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. For inop MALSRL increase LPV Cat E visibility to RVR 4000, LNAV/VNAV all Cats visibility to RVR 4500, and LNAV Cats C/D/E visibility to RVR 5500.

MALSRL
AS
MISSED APPROACH: Climb to 500 then climbing right turn to 2000 direct SOLON and hold.

ATIS 126.8	CORPUS APP CON 120.9 348.725	CORPUS TOWER 119.4 257.8	GND CON 121.9 269.15	CLNC DEL 118.55
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ELEV 46	D	TDZE 46
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	JAGRU	CEVUS	DOMIW 2 NM to RWY 13	* 1 NM to RWY 13	RWY 13
	2100	1700	* 720		
	132°				
	5.8 NM	3 NM	1 NM	1 NM	
CATEGORY	A	B	C	D	E
LPV DA		246/24	200 (200-½)		
LNAV/VNAV DA		325/24	279 (300-½)		
LNAV MDA	420/24	374 (400-½)	420/35	374 (400-¾)	
C CIRCLING	500-1 454 (500-1)	580-1 534 (600-1)	820-2¼ 774 (800-2¼)	820-2½ 774 (800-2½)	820-2¾ 774 (800-2¾)

GP 3.00°
TCH 50

500 2000 SOLON

*LNAV only.

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

RNAV (GPS) Y RWY 31

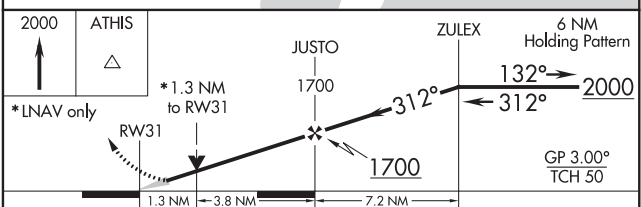
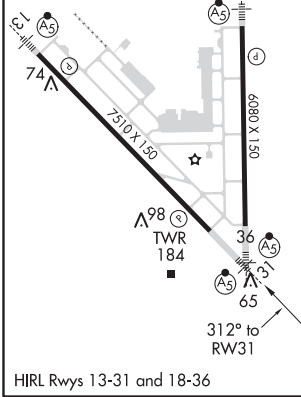
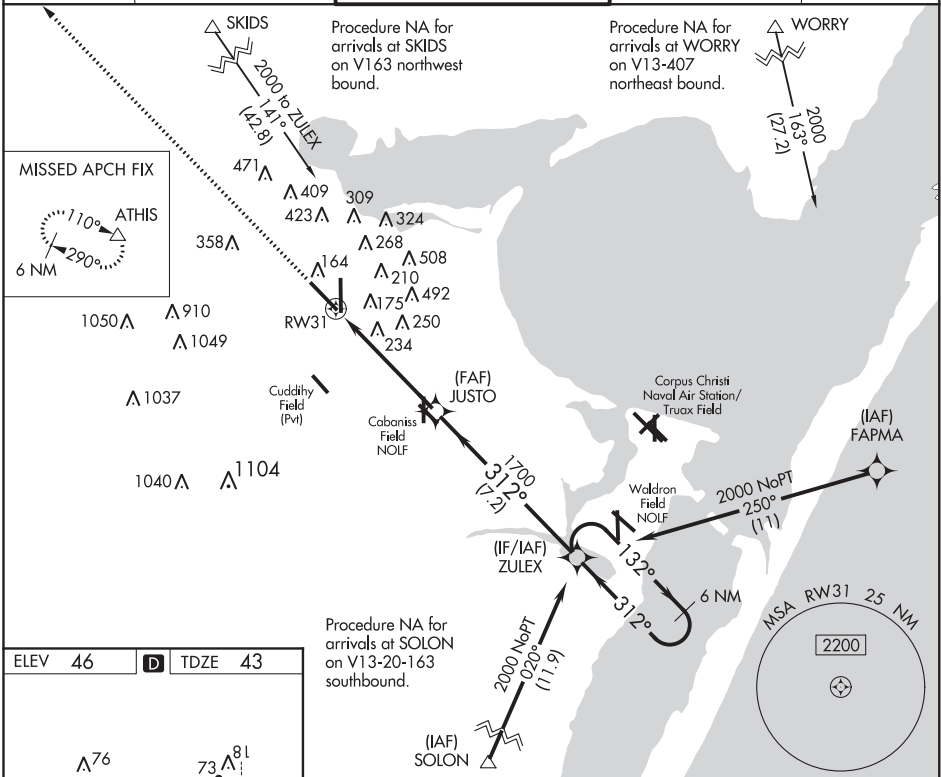
CORPUS CHRISTI INTL (CRP)

WAAS CH 60914 W31A	APP CRS 312°	Rwy Idg TDZE 43 Apt Elev 46	7510
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Procedure NA when Cabaniss Field traffic patterns active. DME/DME RNP-0.3 NA. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -1°C (31°F) or above 54°C (130°F). For inop MALSR, increase LPV Cat E visibility to ¾ mile, LNAV/VNAV all Cats visibility to 1 mile, and LNAV Cat E visibility to 1 ½ mile.

MALSR  **MISSED APPROACH:** Climb to 2000 direct ATHIS and hold.

ATIS 126.8	CORPUS APP CON 120.9 348.725	CORPUS TOWER 119.4 257.8	GND CON 121.9 269.15	CLNC DEL 118.55
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CATEGORY	A	B	C	D	E
LPV DA		243-½	200 (200-½)		
LNAV/VNAV DA		356-⅝	313 (400-⅝)		
LNAV MDA	500-½	457 (500-½)	500-⅞	457 (500-⅞)	
CIRCLING	500-1 454 (500-1)	580-1 534 (600-1)	820-2¼ 774 (800-2¼)	820-2½ 774 (800-2½)	820-2¾ 774 (800-2¾)

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

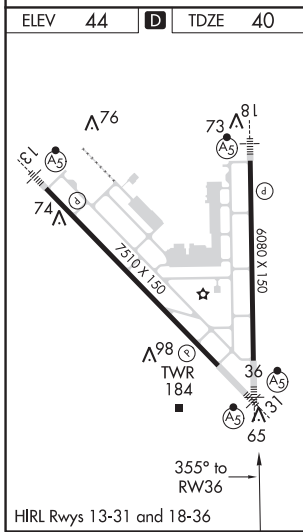
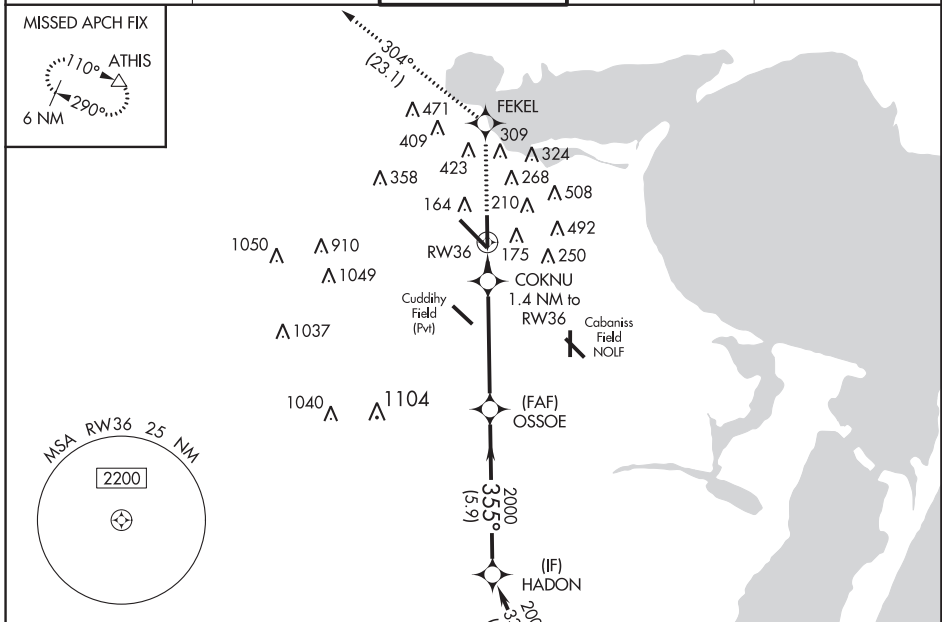
WAAS CH 69617 W36A	APP CRS 355°	Rwy Idg TDZE Apt Elev	6080 40 44
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RNAV (GPS) Y RWY 36

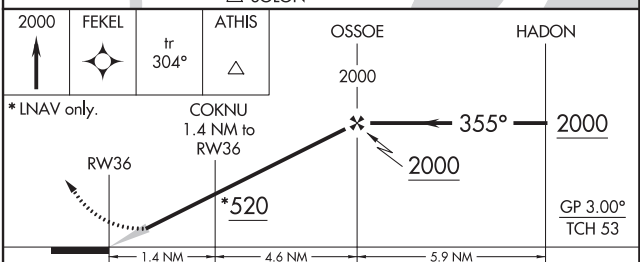
CORPUS CHRISTI INTL (CRP)

	For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -1°C (31°F) or above 54°C (130°F). For inop MALSRS, increase LPV Cat E visibility to RVR 4000, LNAV/VNAV all Cats to RVR 5500, LNAV Cat C/D/E to RVR 6000. DME/DME RNP-0.3 NA.	MALSRS 	MISSED APPROACH: Climb to 2000 direct FEKEL and on track 304° to ATHIS and hold.
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ATIS 126.8	CORPUS APP CON 120.9 348.725	CORPUS TOWER 119.4 257.8	GND CON 121.9 269.15	CLNC DEL 118.55
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Procedure NA for arrivals at SOLON on V13-20-163 southbound.



CATEGORY	A	B	C	D	E
LPV DA		240/24	200 (200-½)		
LNAV/VNAV DA		356/24	316 (400-½)		
LNAV MDA	440/24	400 (400-½)	440/40	400 (400-¾)	
C CIRCLING	500-1 456 (500-1)	580-1 536 (600-1)	820-2¼ 776 (800-2¼)	820-2½ 776 (800-2½)	820-2¾ 776 (800-2¾)

SC-3, 10 NOV 2016 to 05 JAN 2017

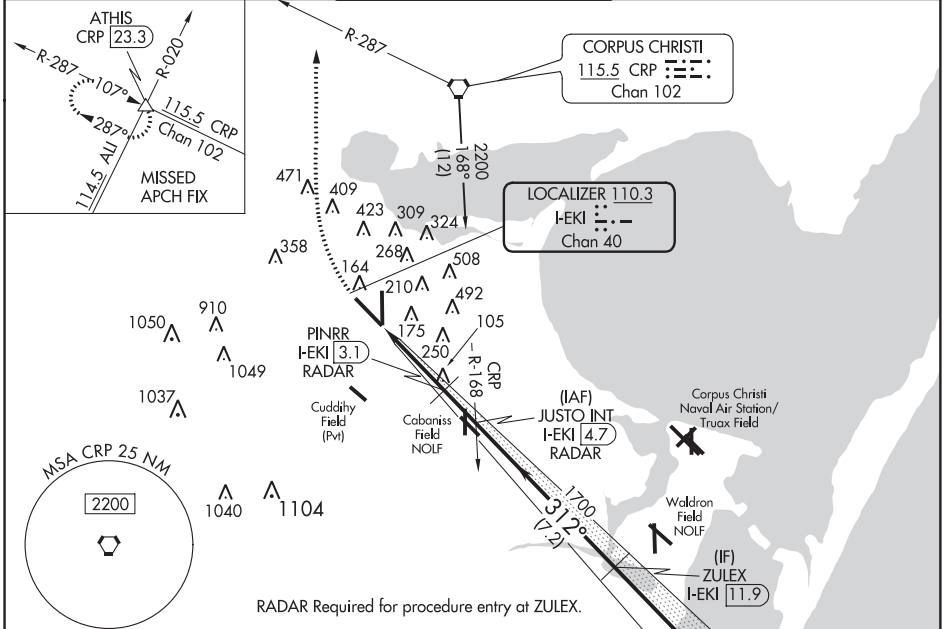
SC-3, 10 NOV 2016 to 05 JAN 2017

LOC/DME I-EKI 110.3 Chan 40	APP CRS 312°	Rwy Idg 7510 TDZE 43 Apt Elev 46
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LOC RWY 31

CORPUS CHRISTI INTL (CRP)

⚠ DME or RADAR Required. For inop MALSRS, increase S-LOC 31 Cats C/D/E visibility to 1 mile.	MALSRS 	MISSED APPROACH: Climb to 700 then climbing right turn to 2000 on heading 335° and CRP VORTAC R-287 to ATHIS INT/CRP VORTAC 23.3 DME and hold.		
ATIS 126.8	CORPUS APP CON 120.9 348.725	CORPUS TOWER 119.4 257.8	GND CON 121.9 269.15	CLNC DEL 118.55

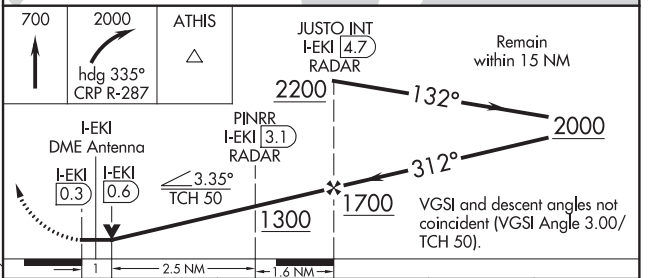
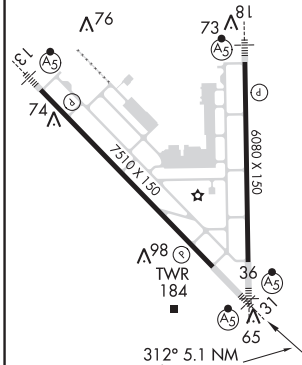


SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

ELEV 46	D	TDZE 43
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HIRL Rwy 13-31 and 18-36



FAF to MAP 5.1 NM					
Knots	60	90	120	150	180
Min:Sec	5:06	3:24	2:33	2:02	1:42

CATEGORY	A	B	C	D	E
S-LOC 31	400-1/2	357 (400-1/2)	400-5/8	357 (400-5/8)	
C CIRCLING	500-1 454 (500-1)	580-1 534 (600-1)	820-2 1/4 774 (800-2 1/4)	820-2 1/2 774 (800-2 1/2)	820-2 3/4 774 (800-2 3/4)

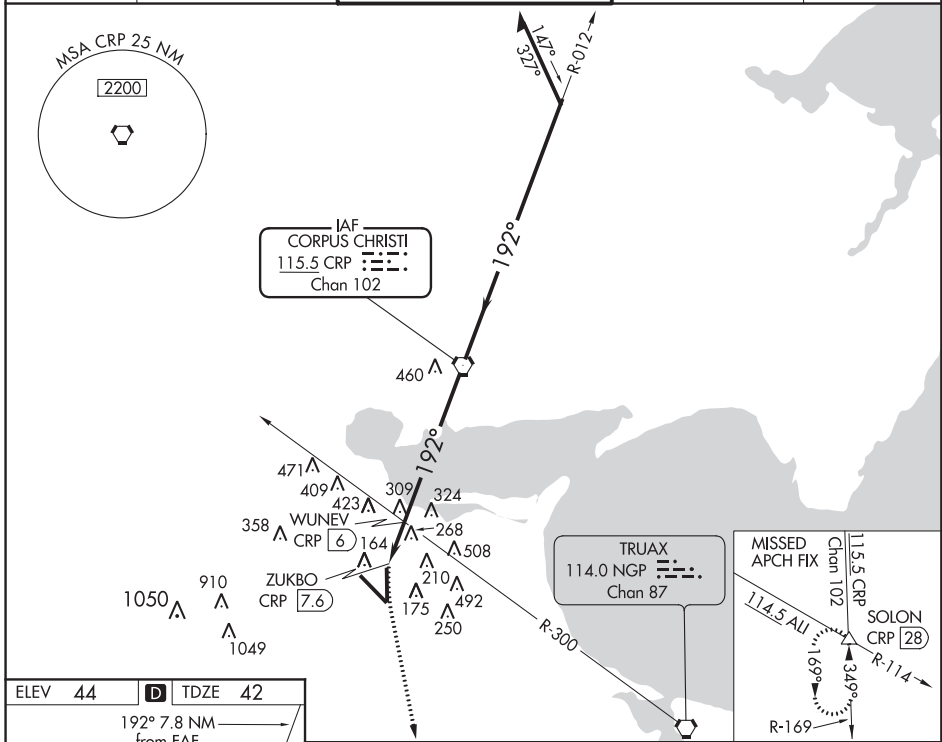
VORTAC CRP 115.5 Chan 102	APP CRS 192°	Rwy Idg TDZE Apt Elev 6080 42 44
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VOR or TACAN RWY 18

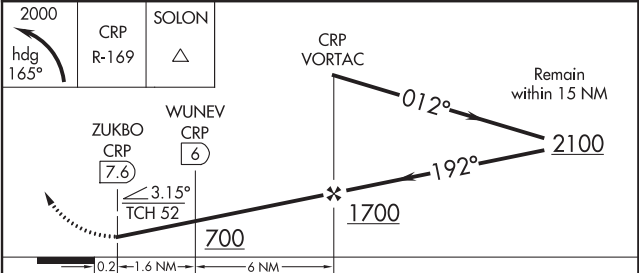
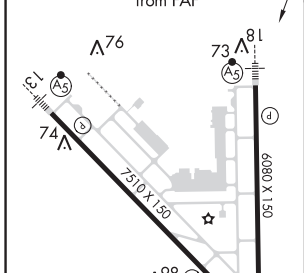
CORPUS CHRISTI INTL (CRP)

▼ Helicopter visibility reduction below 3/4 SM NA. Inop table does not apply.	MALSR 	MISSED APPROACH: Climbing left turn to 2000 on heading 165° and on CRP VORTAC R-169 to SOLON INT/CRP 28 DME and hold.
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ATIS 126.8	CORPUS APP CON 120.9 348.725	CORPUS TOWER 119.4 257.8	GND CON 121.9 269.15	CLNC DEL 118.55
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ELEV 44	D	TDZE 42
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CATEGORY	A	B	C	D	E
S-18	700-1	658 (700-1)	700-1 7/8	658 (700-1 7/8)	
C CIRCLING	700-1	656 (700-1)	820-2 1/4	820-2 1/2	820-2 3/4
			776 (800-2 1/4)	776 (800-2 1/2)	776 (800-2 3/4)
WUNEV DME MINIMUMS					
S-18	600-1	558 (600-1)	600-1 5/8	558 (600-1 5/8)	
C CIRCLING	600-1	556 (600-1)	820-2 1/4	820-2 1/2	820-2 3/4
			776 (800-2 1/4)	776 (800-2 1/2)	776 (800-2 3/4)

FAF to MAP 7.6 NM					
Knots	60	90	120	150	180
Min:Sec	7:36	5:04	3:48	3:02	2:32

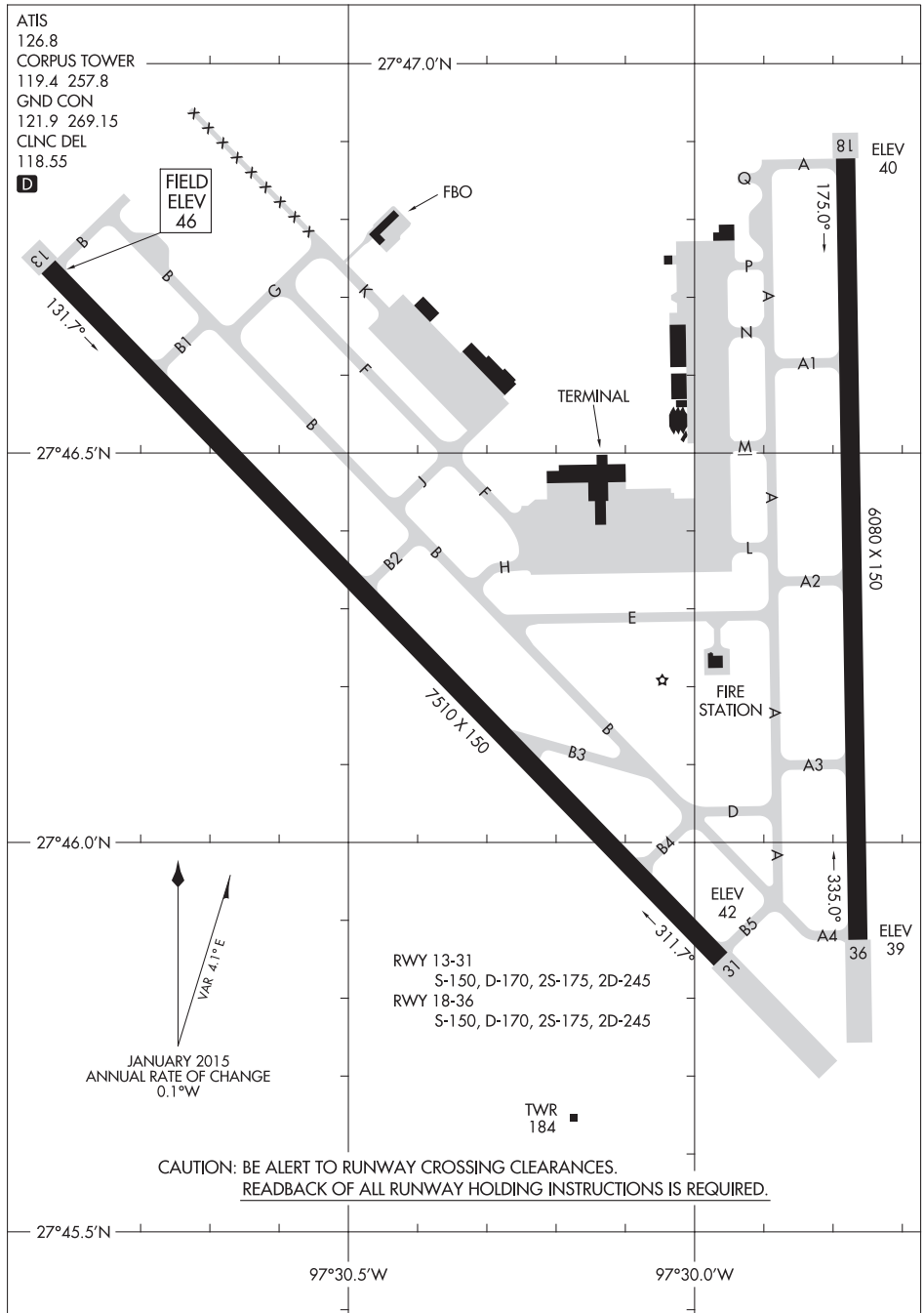
SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

AIRPORT DIAGRAM

AL-5032 (FAA)

CORPUS CHRISTI INTL (CRP)
CORPUS CHRISTI, TEXAS



AIRPORT DIAGRAM

16203

CORPUS CHRISTI, TEXAS
CORPUS CHRISTI INTL (CRP)

CORPUS CHRISTI, TEXAS

RNAV (GPS) RWY 4

APCH CRS 039°	Rwy Idg THRE Arpt Elev	5001 17 19
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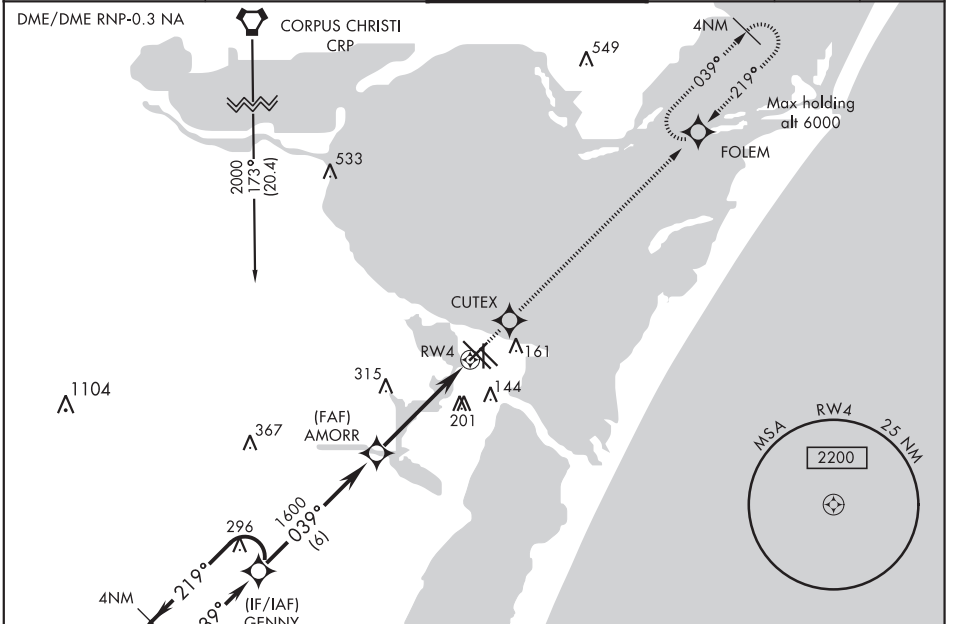
AL-98 [USN]

CORPUS CHRISTI NAS (TRUAX FLD) (KNGP)

▼ When local altimeter setting not received, use Corpus Christi altimeter setting.
Baro VNAV NA below -15°C (5°F) or above 42°C (108°F)
Baro VNAV NA when local altimeter not available.

MISSED APPROACH: Climb to 2000 direct CUTEX and track 039° to FOLEM and hold.

ATIS ★ 114.0 127.9 290.9	CORPUS CHRISTI APP CON 128.675 343.75	NAVY CORPUS TOWER ★ 134.85 340.2 (N) 125.525 360.2 (S)	GND CON 118.7 257.85	CLNC DEL 314.3	ASR/PAR
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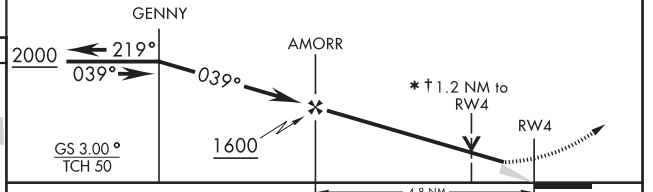
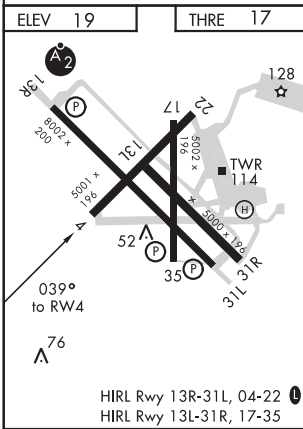


* VDP NA when using Corpus Christi altimeter setting

† LNAV only

2000	CUTEX	tr 039°	FOLEM
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EMERG SAFE ALT 100 NM 16,100



CATEGORY	A	B	C	D
LNAV MDA	460-1	443 (500-1)	460-1½	443 (500-1½)
LNAV/VNAV DA	500-1½		483 (500-1½)	
C CIRCLING	500-1	481 (500-1)	540-1½	620-2
			521 (600-1½)	601 (700-2)
CORPUS CHRISTI ALTIMETER SETTING				
LNAV MDA	480-1	463 (500-1)	480-1½	463 (500-1½)
C CIRCLING	540-1	521 (600-1)	580-1½	660-2
			561 (600-1½)	641 (700-2)

CORPUS CHRISTI, TEXAS
Orig 07JAN16

27°42'N-97°17'W

CORPUS CHRISTI NAS (TRUAX FLD) (KNGP)

RNAV (GPS) RWY 4

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

CORPUS CHRISTI, TEXAS

RNAV (GPS) RWY 13L

APCH CRS	Rwy Idg	5000
129°	THRE	13
	Arpt Elev	19

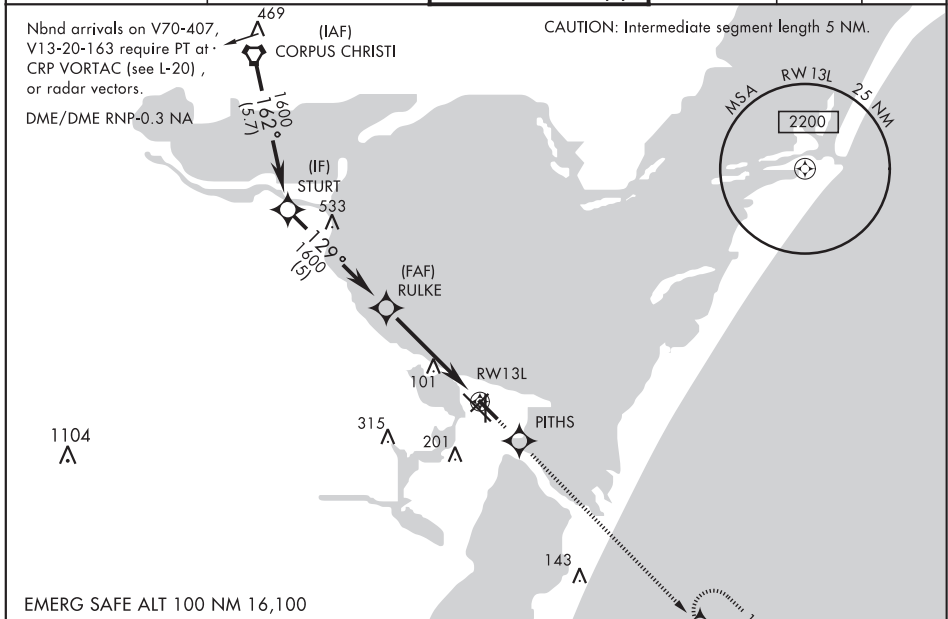
AL-98 [USN]

CORPUS CHRISTI NAS (TRUAX FLD) (KNGP)

▼ When local altimeter setting not received, use Corpus Christi altimeter setting.
 Baro VNAV NA below -15°C (5°F) or above 42°C (108°F)
 Baro VNAV NA when local altimeter not available.

MISSED APPROACH: Climb to 1600 direct PITHS and track 130° to POLCK and hold.

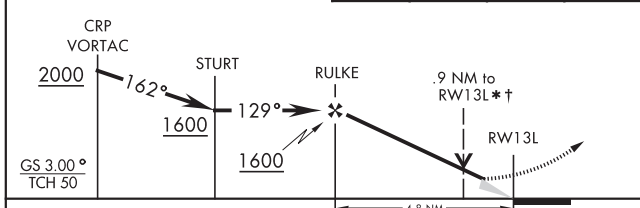
ATIS ★	CORPUS CHRISTI APP CON	NAVY CORPUS TOWER ★	GND CON	CLNC DEL	ASR/PAR
114.0 127.9 290.9	128.675 343.75	134.85 (N) 340.2 (S) 125.525 360.2 (S)	118.7 257.85	314.3	



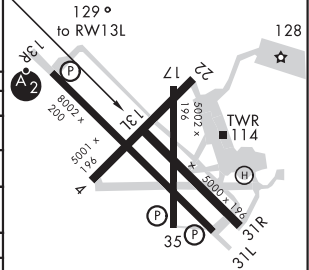
EMERG SAFE ALT 100 NM 16,100

* VDP NA when using Corpus Christi altimeter setting.
 † LNAV only

1600	PITHS	tr 130°	POLCK
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ELEV 19	THRE 13
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CATEGORY	A	B	C	D
LNAV/VNAV DA	340-1 1/8		327	(400-1 1/8)
LNAV MDA	360-1		347	(400-1)
C CIRCLING	500-1	481 (500-1)	540-1 1/2 521 (600-1 1/2)	620-2 601 (700-2)
CORPUS CHRISTI ALTIMETER SETTING				
LNAV MDA	400-1 387 (400-1)		400-1 1/8 387 (400-1 1/8)	
C CIRCLING	540-1	521 (600-1)	580-1 1/2 561 (600-1 1/2)	660-2 641 (700-2)

HIRL Rwy 13R-31L, 04-22
 HIRL Rwy 13L-31R, 17-35

CORPUS CHRISTI, TEXAS 27°42'N-97°17'W CORPUS CHRISTI NAS (TRUAX FLD) (KNGP)

RNAV (GPS) RWY 13L

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

RNAV (GPS) RWY 17

APCH CRS	Rwy Idg	5002
174°	THRE	13
	Arpt Elev	19

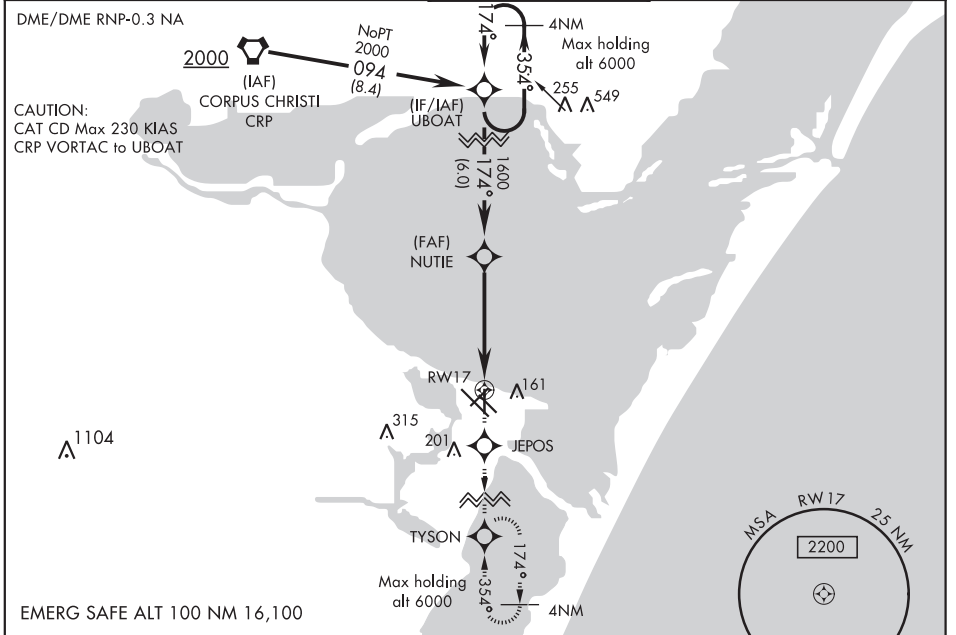
AL-98 [USN]

CORPUS CHRISTI NAS (TRUAX FLD) (KNGP)

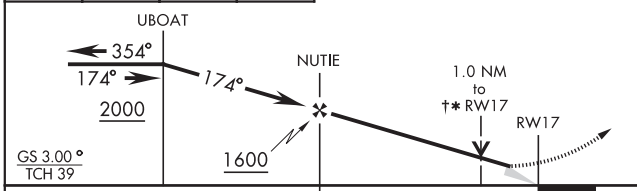
▼ When local altimeter setting not received, use Corpus Christi altimeter setting.
 Baro VNAV NA below -15°C (5°F) or above 42°C (108°F).
 Baro VNAV NA when local altimeter not available.

MISSED APPROACH: Climb to 2000 direct JEPOS and track 174° to TYSON and hold.

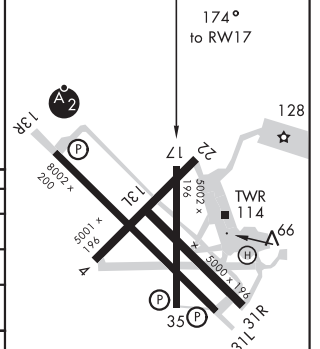
ATIS *	CORPUS CHRISTI APP CON	NAVY CORPUS TOWER *	GND CON	CLNC DEL	ASR/PAR
114.0 127.9 290.9	128.675 343.75	134.85 (M) 340.2 (N) 125.525 360.2 (S)	118.7 257.85	314.3	



2000	JEPOS	tr 174°	TYSON	* VDP NA when using Corpus Christi altimeter setting.
↑	◆		◆	† LNAV only



ELEV 19	THRE 13
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CATEGORY	A	B	C	D
LNAV MDA	380-1		367 (400-1)	
LNAV/VNAV DA	380-1½		367 (400-1½)	
C CIRCLING	500-1	481 (500-1)	540-1½ 521 (600-1½)	620-2 601 (700-2)
CORPUS CHRISTI ALTIMETER SETTING				
LNAV MDA	400-1	387 (400-1)	400-1⅛	387 (400-1⅛)
C CIRCLING	540-1	521 (600-1)	580-1½ 561 (600-1½)	660-2 641 (700-2)

HIRL Rwy 13R-31L, 04-22
 HIRL Rwy 13L-31R, 17-35

CORPUS CHRISTI, TEXAS
 Orig 07JAN16

27°42'N-97°17'W

CORPUS CHRISTI NAS (TRUAX FLD) (KNGP)

RNAV (GPS) RWY 17

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

CORPUS CHRISTI, TEXAS

RNAV (GPS) RWY 31L

APCH CRS	Rwy Idg	8002
309°	THRE	17
	Arpt Elev	19

AL-98 [USN]

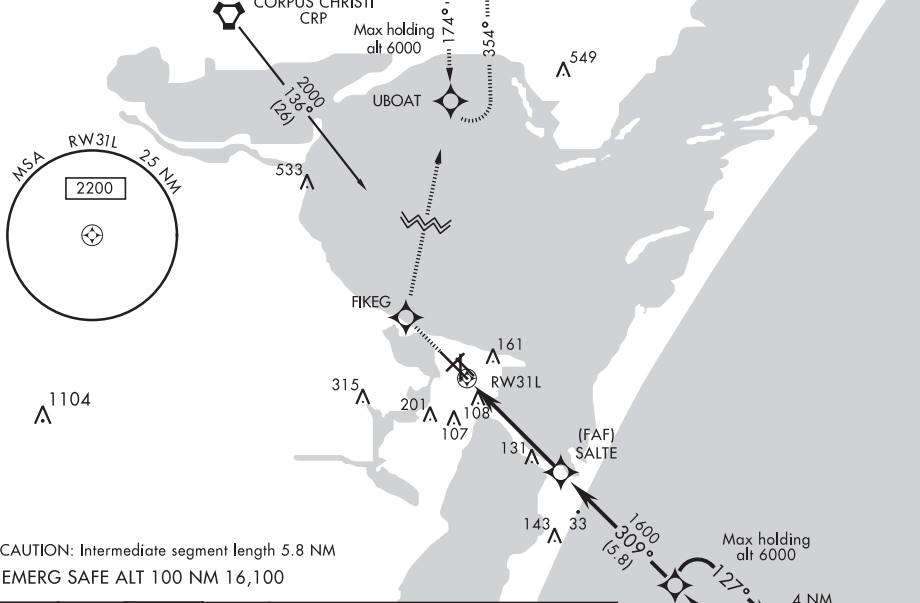
CORPUS CHRISTI NAS (TRUAX FLD) (KNGP)

▼ When local altimeter setting not received, use Corpus Christi altimeter setting.
Baro VNAV NA below -15°C (5°F) or above 42°C (108°F)
Baro VNAV NA when local altimeter not available.

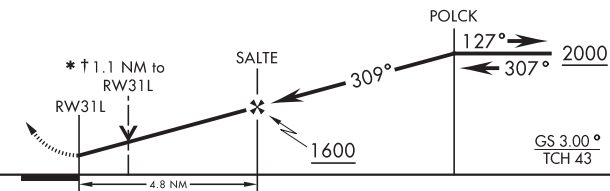
MISSED APPROACH: Climb to 2000 direct FIKEG and track 006° to UBOAT and hold.

ATIS ★	CORPUS CHRISTI APP CON	NAVY CORPUS TOWER ★	GND CON	CLNC DEL	ASR/PAR
114.0 127.9 290.9	128.675 343.75	134.85 (M) 340.2 (N) 125.525 360.2 (S)	118.7 257.85	314.3	

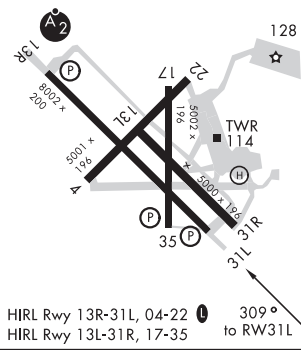
DME/DME RNP-0.3 NA



* VDP NA when using Corpus Christi altimeter setting
† LNAV only



ELEV 19	THRE 17
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CATEGORY	A	B	C	D
LNAV MDA	420-1	403 (500-1)	420-1½	403 (500-1½)
LNAV/VNAV DA	480-1½		463 (500-1½)	
C CIRCLING	500-1	481 (500-1)	540-1½ 521 (600-1½)	620-2 601 (700-2)
CORPUS CHRISTI ALTIMETER SETTING				
LNAV MDA	440-1	423 (500-1)	440-1¼	423 (500-1¼)
C CIRCLING	540-1	521 (600-1)	580-1½ 561 (600-1½)	660-2 641 (700-2)

HIRL Rwy 13R-31L, 04-22 (M) 309° to RW31L
HIRL Rwy 13L-31R, 17-35

CORPUS CHRISTI, TEXAS
Orig 07JAN16

27°42'N-97°17'W

CORPUS CHRISTI NAS (TRUAX FLD) (KNGP)

RNAV (GPS) RWY 31L

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

CORPUS CHRISTI, TEXAS

RNAV (GPS) RWY 31R

CORPUS CHRISTI NAS (TRUAX FLD) (KNGP)

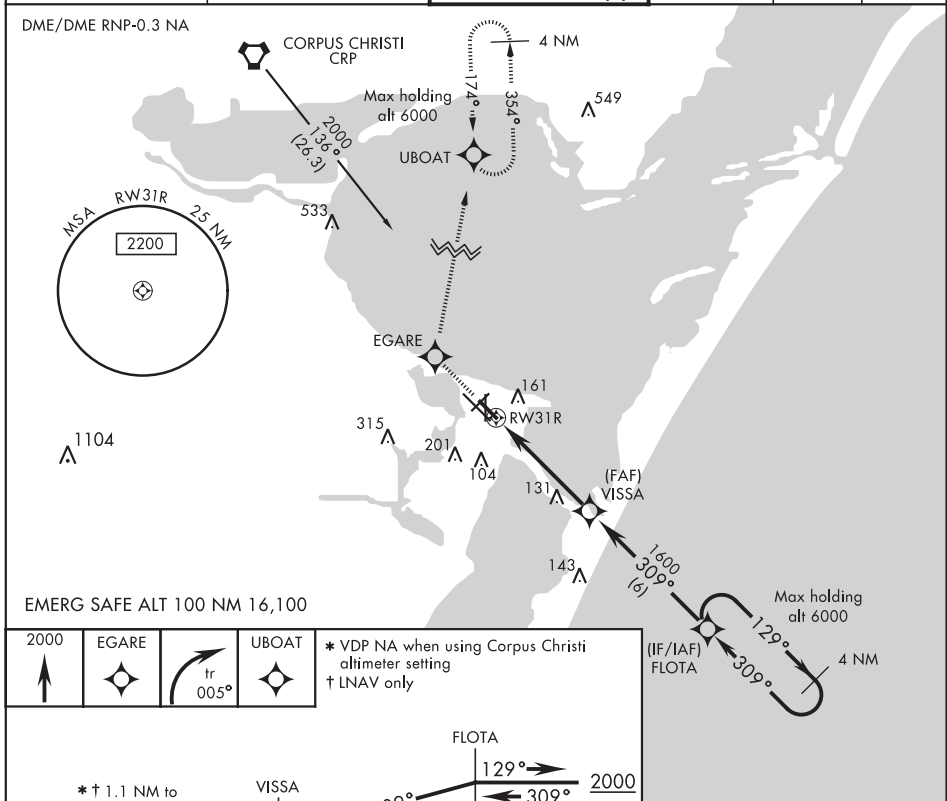
AL-98 [USN]

APCH CRS	Rwy Idg	5000
309°	THRE	18
	Arpt Elev	19

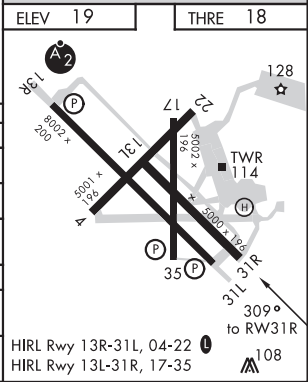
When local altimeter setting not received, use Corpus Christi altimeter setting.
 Baro VNAV NA below -15°C (5°F) or above 42°C (108°F)
 Baro VNAV NA when local altimeter not available.

MISSED APPROACH: Climb to 2000 direct EGARE and track 005° to UBOAT and hold.

ATIS *	CORPUS CHRISTI APP CON	NAVY CORPUS TOWER *	GND CON	CLNC DEL	ASR/PAR
114.0 127.9 290.9	128.675 343.75	134.85 (M) 340.2 (N) 125.525 360.2 (S)	118.7 257.85	314.3	



CATEGORY	A	B	C	D
LNAV MDA	420-1	402 (500-1)	420-1 1/8	402 (500-1 1/8)
LNAV/VNAV DA	480-1 1/2		462	(500-1 1/2)
C CIRCLING	500-1	481 (500-1)	540-1 1/2 521 (600-1 1/2)	620-2 601 (700-2)
CORPUS CHRISTI ALTIMETER SETTING				
LNAV MDA	440-1	422 (500-1)	440-1 1/4	422 (500-1 1/4)
C CIRCLING	540-1	521 (600-1)	580-1 1/2 561 (600-1 1/2)	660-2 641 (700-2)



CORPUS CHRISTI, TEXAS
 Orig 07JAN16

27°42'N-97°17'W

CORPUS CHRISTI NAS (TRUAX FLD) (KNGP)

RNAV (GPS) RWY 31R

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

CORPUS CHRISTI, TEXAS

RNAV (GPS) RWY 35

APCH CRS 354°	Rwy Idg THRE 17	5002
	Arpt Elev 19	

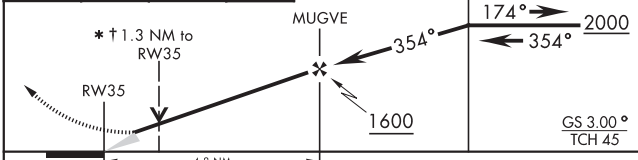
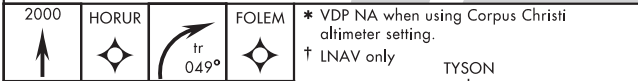
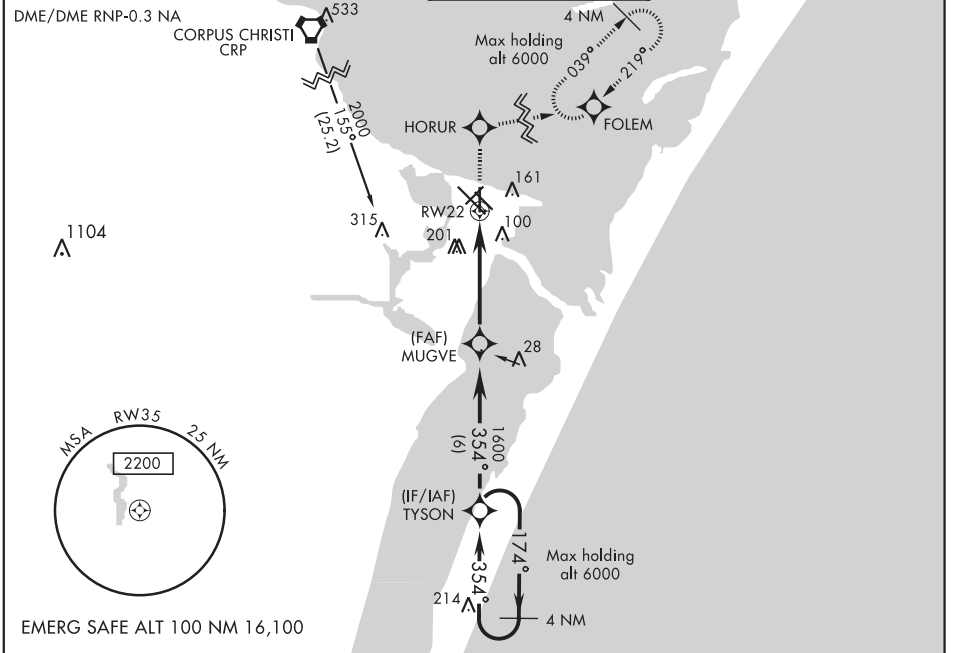
AL-98 [USN]

CORPUS CHRISTI NAS (TRUAX FLD) (KNGP)

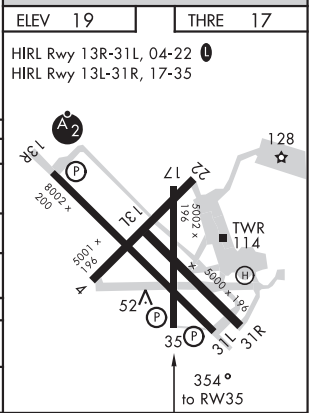
When local altimeter setting not received, use Corpus Christi altimeter setting.
 Baro VNAV NA below -15°C (5°F) or above 42°C (108°F)
 Baro VNAV NA when local altimeter not available.

MISSED APPROACH: Climb to 2000 direct HORUR and track 049° to FOLEM and hold.

ATIS * 114.0 127.9 290.9	CORPUS CHRISTI APP CON 128.675 343.75	NAVY CORPUS TOWER * 134.85 340.2 (N) 125.525 360.2 (S)	GND CON 118.7 257.85	CLNC DEL 314.3	ASR/PAR
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CATEGORY	A	B	C	D
LNAV MDA	460-1	443 (500-1)	460-1 $\frac{3}{8}$	443 (500-1 $\frac{3}{8}$)
LNAV/VNAV DA	540-1 $\frac{3}{4}$		523 (600-1 $\frac{3}{4}$)	
C CIRCLING	500-1	481 (500-1)	540-1 $\frac{1}{2}$ 521 (600-1 $\frac{1}{2}$)	620-2 601 (700-2)
CORPUS CHRISTI ALTIMETER SETTING				
LNAV MDA	480-1	463 (500-1)	480-1 $\frac{3}{8}$	463 (500-1 $\frac{3}{8}$)
C CIRCLING	540-1	521 (600-1)	580-1 $\frac{1}{2}$ 561 (600-1 $\frac{1}{2}$)	660-2 641 (700-2)



CORPUS CHRISTI, TEXAS
 Orig 07JAN16

27°42'N-97°17'W

CORPUS CHRISTI NAS (TRUAX FLD) (KNGP)

RNAV (GPS) RWY 35

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

CORPUS CHRISTI, TEXAS

VOR/DME Y or TACAN Y RWY 13R

VORTAC CRP 115.5 Chan 102	APCH CRS 139°	Rwy ldg THRE 10 Arpt Elev 19
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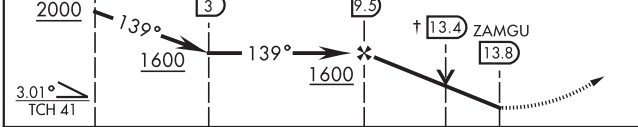
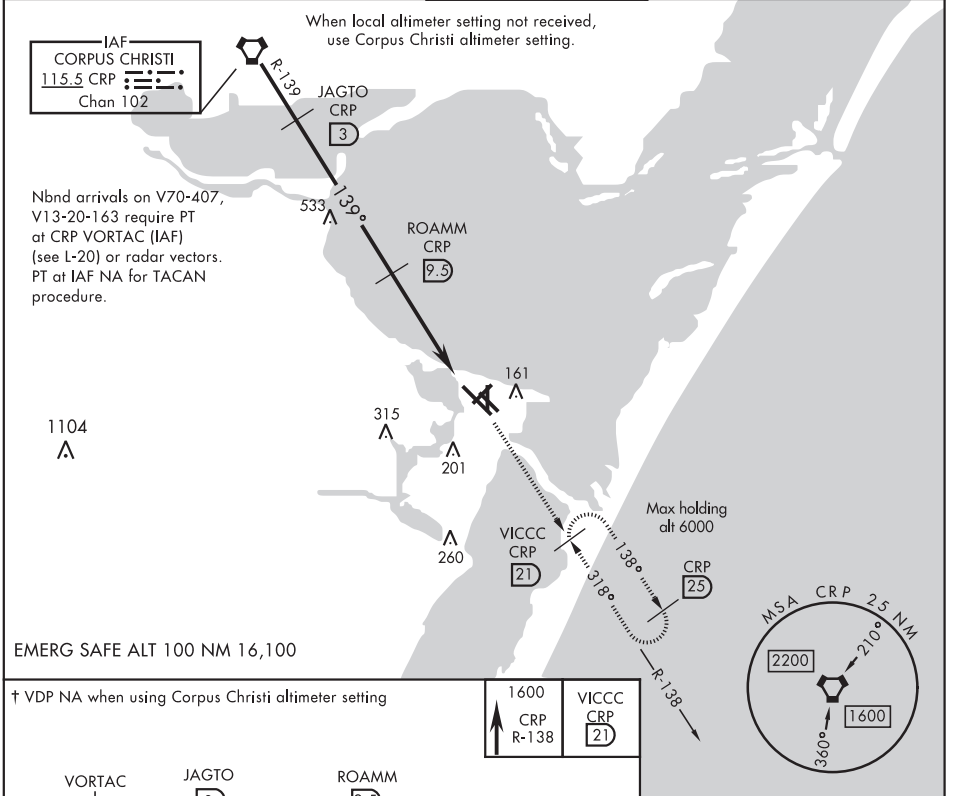
AL-98 [USN] CORPUS CHRISTI NAS (TRUAX FLD) (KNGP)

▼ * When ALS inop, increase vis to 1 mile.
** When ALS inop, increase CAT AB vis to 1 mile,
CAT CD to 1 1/8 mile.

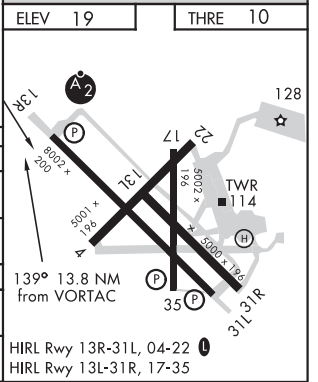


MISSED APPROACH: Climb to 1600 via CRP VORTAC R-138 to VICCC and hold.

ATIS * 114.0 127.9 290.9	CORPUS CHRISTI APP CON 128.675 343.75	NAVY CORPUS TOWER * 134.85 340.2 (N) 125.525 360.2 (S)	GND CON 118.7 257.85	CLNC DEL 314.3	ASR/PAR
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CATEGORY	A	B	C	D
S-13R *		360-3/4	350 (400-3/4)	
CIRCLING	500-1	481 (500-1)	540-1 1/2 521 (600-1 1/2)	620-2 601 (700-2)
CORPUS CHRISTI ALTIMETER SETTING				
S-13R **	400-3/4	390 (400-3/4)	400-7/8 390 (400-7/8)	
CIRCLING	540-1	521 (600-1)	580-1 1/2 561 (600-1 1/2)	660-2 641 (700-2)



CORPUS CHRISTI, TEXAS 27°42'N-97°17'W CORPUS CHRISTI NAS (TRUAX FLD) (KNGP)

VOR/DME Y or TACAN Y RWY 13R

Orig 20AUG15

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

CORPUS CHRISTI, TEXAS

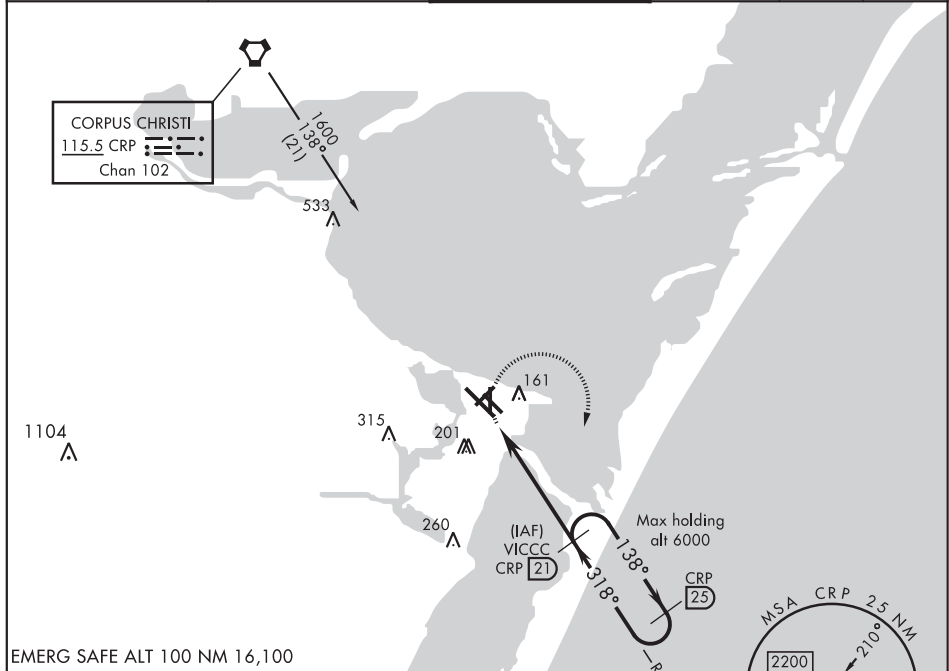
VOR/DME Y or TACAN Y RWY 31L

VORTAC CRP 115.5 Chan 102	APCH CRS 318°	Rwy ldg THRE 17 Arprt Elev 19	8002
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AL-98 [USN]

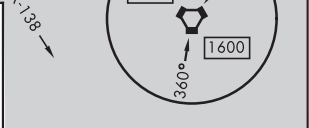
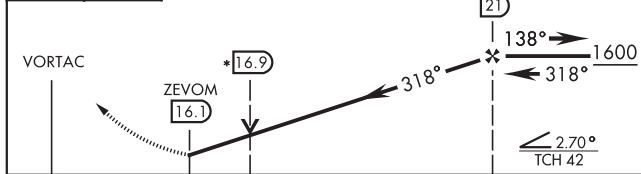
CORPUS CHRISTI NAS (TRUAX FLD) (KNGP)

<p>▼ When local altimeter setting not received, use Corpus Christi altimeter setting.</p>		<p>MISSED APPROACH: Climbing right turn to 1600, intercept CRP VORTAC R-138 outbound to VICCC and hold.</p>	
<p>ATIS ★ 114.0 127.9 290.9</p>	<p>CORPUS CHRISTI APP CON 128.675 343.75</p>	<p>NAVY CORPUS TOWER ★ 134.85 340.2 (N) 125.525 360.2 (S)</p>	<p>GND CON 118.7 257.85</p>
		<p>CLNC DEL 314.3</p>	<p>ASR/PAR</p>



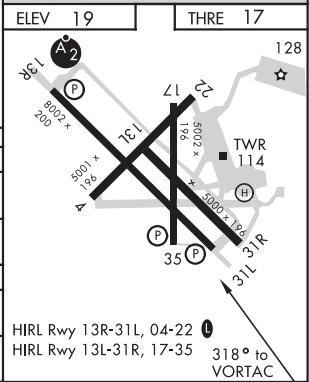
EMERG SAFE ALT 100 NM 16,100

1600 CRP R-138 VICCC CRP **21** *VDP NA when using Corpus Christi altimeter setting. VGSI and descent angles not coincident.



ELEV 19	THRE 17
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CATEGORY	A	B	C	D
S-31L	460-1	443 (500-1)	460-1 3/8	443 (500-1 3/8)
C CIRCLING	500-1	481 (500-1)	540-1 1/2 (600-1 1/2)	620-2 (700-2)
CORPUS CHRISTI ALTIMETER SETTING				
S-31L	480-1	463 (500-1)	480-1 3/8	463 (500-1 3/8)
C CIRCLING	540-1	521 (600-1)	580-1 1/2 (600-1 1/2)	660-2 (700-2)



CORPUS CHRISTI, TEXAS 27°42'N-97°17'W CORPUS CHRISTI NAS (TRUAX FLD) (KNGP)

Orig 15OCT15

VOR/DME Y or TACAN Y RWY 31L

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

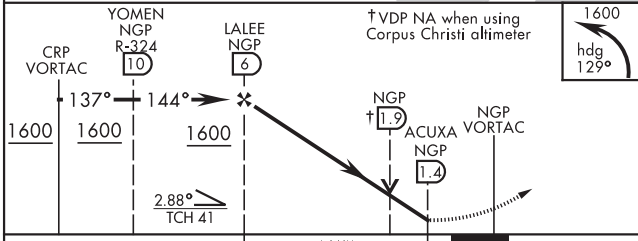
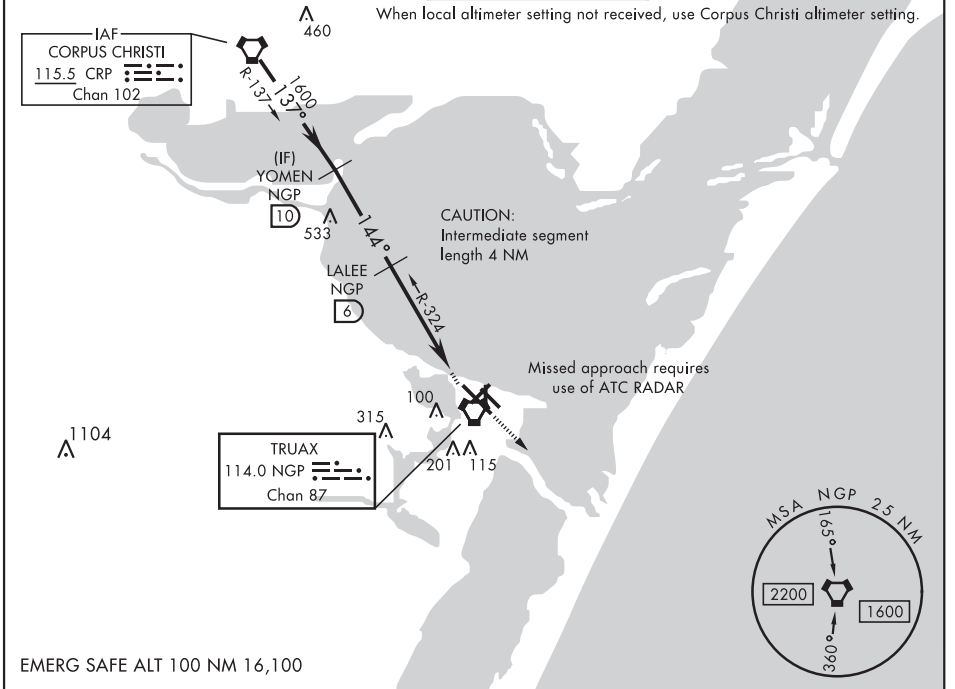
CORPUS CHRISTI, TEXAS

VOR/DME Z or TACAN Z RWY 13R

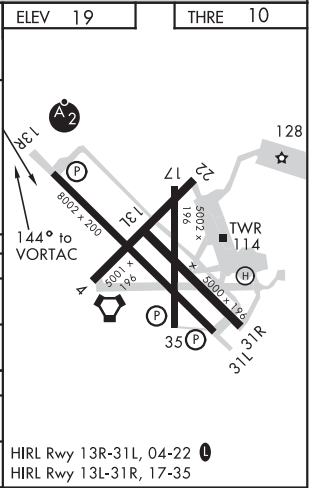
VORTAC NGP 114.0 Chan 87	APCH CRS 144°	Rwy Idg THRE 10 Arpt Elev 19	8002	AL-98 [USN]	CORPUS CHRISTI NAS (TRUAX FLD) (KNGP)
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<p>▼ * When ALS inop, increase vis to 1 mile. ** When ALS inop, increase CAT AB vis to 1 mile, CAT CD vis to 1 1/2 miles.</p>	SALSF	MISSED APPROACH: Climb to 1600 via heading 129°. Expect radar vectors.
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ATIS * 114.0 127.9 290.9	CORPUS CHRISTI APP CON 128.675 343.75	NAVY CORPUS TOWER * 134.85 340.2 (N) 125.525 360.2 (S)	GND CON 118.7 257.85	CLNC DEL 314.3	ASR/PAR
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CATEGORY	A	B	C	D
S-13R *	360-3/4		350	(400-3/4)
CIRCLING	480-1 461 (500-1)	500-1 481 (500-1)	540-1 1/2 521 (600-1 1/2)	620-2 601 (700-2)
CORPUS CHRISTI ALTIMETER SETTING				
S-13R **	400-3/4		390 (400-3/4)	400-7/8 390 (400-7/8)
CIRCLING	500-1 481 (500-1)	540-1 521 (600-1)	580-1 1/2 561 (600-1 1/2)	660-2 641 (700-2)



CORPUS CHRISTI, TEXAS 27°42'N-97°17'W CORPUS CHRISTI NAS (TRUAX FLD) (KNGP)

VOR/DME Z or TACAN Z RWY 13R

Orig 20AUG15

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

CORPUS CHRISTI, TEXAS

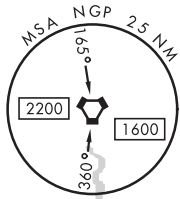
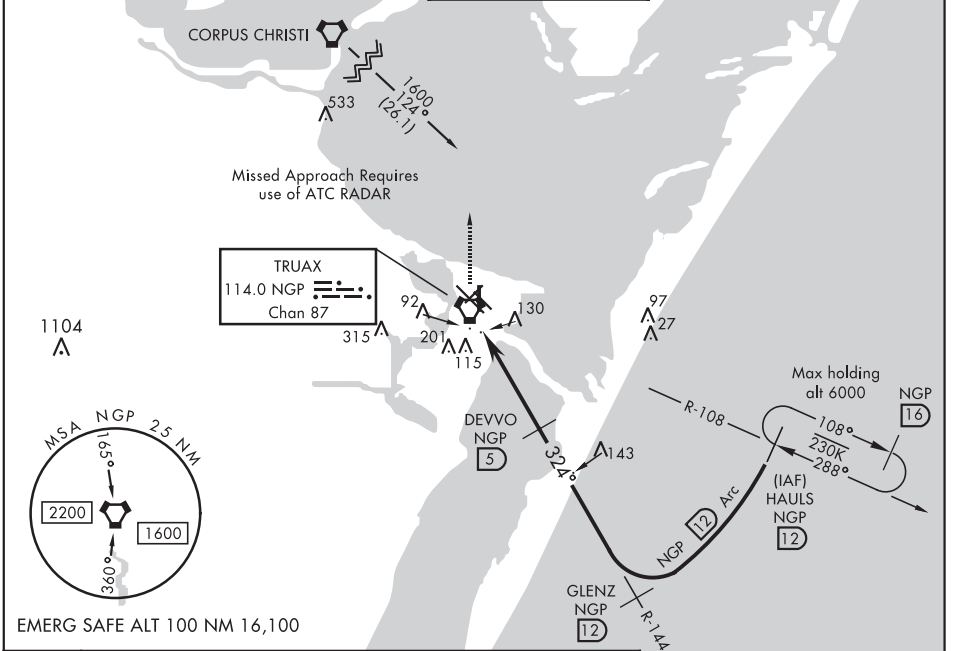
VOR/DME or TACAN RWY 35

AL-98 [USN] CORPUS CHRISTI NAS (TRUAX FLD) (KNGP)

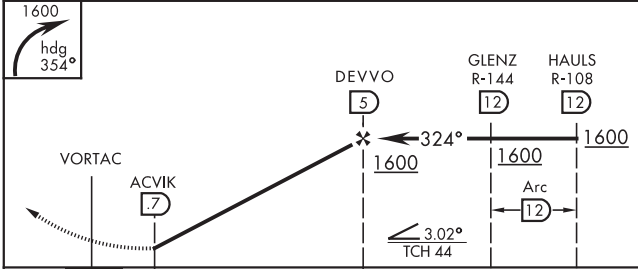
VORTAC NGP 114.0 Chan 87	APCH CRS 324°	Rwy Idg THRE 17 Arprt Elev 19	5002
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When local altimeter setting not received, use Corpus Christi altimeter setting. MISSED APPROACH: Climb to 1600 via heading 354°. Expect RADAR vectors.

ATIS ★ 114.0 127.9 290.9	CORPUS CHRISTI APP CON 128.675 343.75	NAVY CORPUS TOWER ★ 134.85 340.2 (N) 125.525 360.2 (S)	GND CON 118.7 257.85	CLNC DEL 314.3	ASR/PAR
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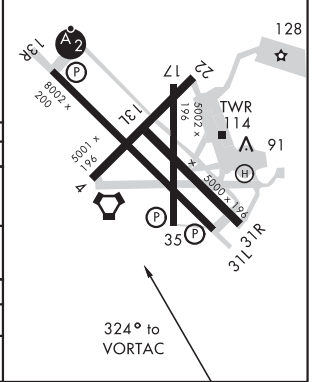


EMERG SAFE ALT 100 NM 16,100



ELEV 19	THRE 17
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HIRL Rwy 13R-31L, 04-22
HIRL Rwy 13L-31R, 17-35



CATEGORY	A	B	C	D
S-35	460-1 443 (500-1)		460-1 $\frac{3}{8}$ 443 (500-1 $\frac{3}{8}$)	
CIRCLING	480-1 461 (500-1)	500-1 481 (500-1)	540-1 $\frac{1}{2}$ 521 (600-1 $\frac{1}{2}$)	620-2 601 (700-2)
CORPUS CHRISTI ALTIMETER SETTING				
S-35	480-1 463 (500-1)		480-1 $\frac{3}{8}$ 463 (500-1 $\frac{3}{8}$)	
CIRCLING	500-1 481 (500-1)	540-1 521 (600-1)	580-1 $\frac{1}{2}$ 561 (600-1 $\frac{1}{2}$)	660-2 641 (700-2)

CORPUS CHRISTI, TEXAS 27°42'N-97°17'W CORPUS CHRISTI NAS (TRUAX FLD) (KNGP)

Orig 20AUG15

VOR/DME or TACAN RWY 35

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

CORPUS CHRISTI, TEXAS

TACAN RWY 17

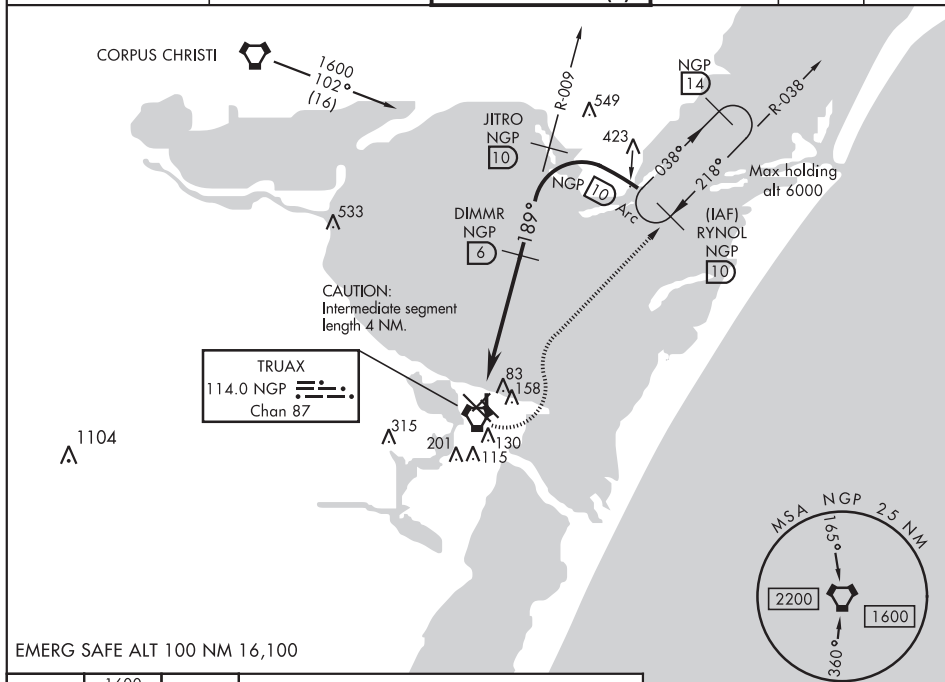
VORTAC NGP 114.0 Chan 87	APCH CRS 189°	Rwy Idg THRE Arpt Elev 5002 13 19
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AL-98 [USN]

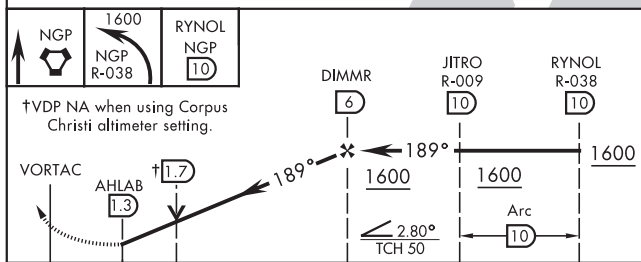
CORPUS CHRISTI NAS (TRUAX FLD) (KNGP)

When local altimeter setting not received, use Corpus Christi altimeter setting. MISSED APPROACH: Climb to NGP VORTAC via R-009, then climbing left turn to 1600 via NGP R-038 to RYNOL and hold.

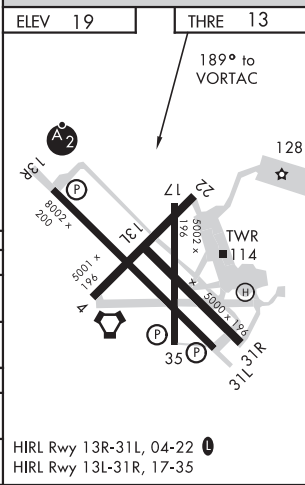
ATIS * 114.0 127.9 290.9	CORPUS CHRISTI APP CON 128.675 343.75	NAVY CORPUS TOWER * 134.85 340.2 (N) 125.525 360.2 (S)	GND CON 118.7 257.85	CLNC DEL 314.3	ASR/PAR
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EMERG SAFE ALT 100 NM 16,100



CATEGORY	A	B	C	D
S-17		340-1	327 (400-1)	
C CIRCLING	480-1 461 (500-1)	500-1 481 (500-1)	540-1 1/2 521 (600-1 1/2)	620-2 601 (700-2)
CORPUS CHRISTI ALTIMETER SETTING				
S-17		380-1	367 (400-1)	
C CIRCLING	500-1 481 (500-1)	540-1 521 (600-1)	580-1 1/2 561 (600-1 1/2)	660-2 641 (700-2)



CORPUS CHRISTI, TEXAS
Orig 20AUG15

27°42'N-97°17'W

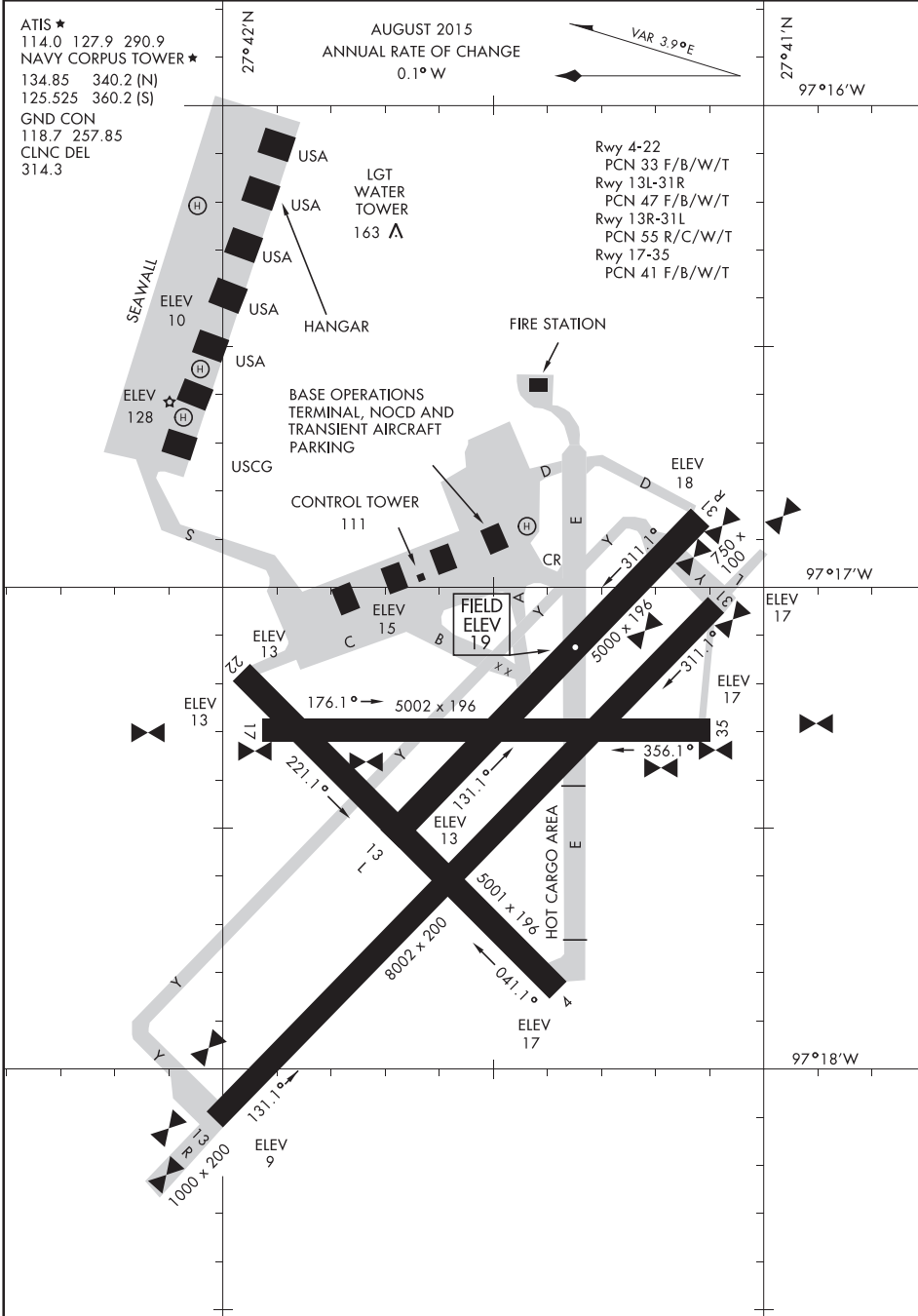
CORPUS CHRISTI NAS (TRUAX FLD) (KNGP)

TACAN RWY 17

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

AIRPORT DIAGRAM



SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

AIRPORT DIAGRAM


LOCOE ONE DEPARTURE (LOCOE1 • LOCOE)

CORPUS CHRISTI NAS (TRUAX FLD) (KNGP)

CORPUS CHRISTI, TEXAS

ATIS ★ 114.0 127.9 290.9
 CLNC DEL
 314.3
 GND CON
 118.7 257.85
 NAVY CORPUS TOWER ★
 134.85 340.2 (N)
 125.525 360.2 (S)
 CORPUS CHRISTI DEP CON
 128.675 343.75

SL-98 [USN]


CORPUS CHRISTI
 115.5 CRP 
 Chan 102

Rwy	Knots	60	120	180	240
13L/R	V/V(fpm)	320	640	960	1280
31L/R	V/V(fpm)	250	500	750	1000

ATC Minimum Climb Rate to 5000

DME REQUIRED

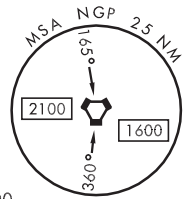

 1049

TRUAX
 114.0 NGP 
 Chan 87

JEVDO
 5000

ALICE
 114.5 ALI 

CAUTION:
 Use NGP TACAN for R-210 only.
 VOR R-210 unusable.



EMERG SAFE ALT 100 NM 2600

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 13L/R: Climb via heading 129° to intercept NGP VORTAC 7 DME arc. Arc CW South of NGP via 7 DME arc to JEVDO, NGP R-210/7 DME. Cross JEVDO at or above 5000. Thence....

TAKE-OFF RWY 31L/R: Climb via heading 309° to NGP VORTAC 2.9 DME, then climbing right turn via heading 355° to intercept NGP 7 DME arc. Arc CW North of NGP via 7 DME arc to NUYER, NGP R-023/7 DME. Then via R-023 to NGP and R-210 to JEVDO, NGP R-210/7 DME. Cross JEVDO at above 5000. Thence....

THENCE.... from JEVDO via NGP R-210 to LOCOE. Then via assigned route. Expect clearance to filed altitude/flight level 10 minutes after departure.

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

LOCOE ONE DEPARTURE (LOCOE1 • LOCOE)

CORPUS CHRISTI, TEXAS

CORPUS CHRISTI NAS (TRUAX FLD) (KNGP)

WORRY ONE DEPARTURE (WORRY1 • WORRY)

CORPUS CHRISTI, TEXAS

ATIS ★
 114.0 127.9 290.9
 CLNC DEL
 314.3
 GND CON
 118.7 257.85
 NAVY CORPUS TOWER ★
 134.85 340.2 (N)
 125.525 360.2 (S)
 CORPUS CHRISTI DEP CON
 128.675 343.75

THREE RIVERS
 111.4 THX
 Chan 51

SL-98 [USN]

WORRY
 L-20, L-21

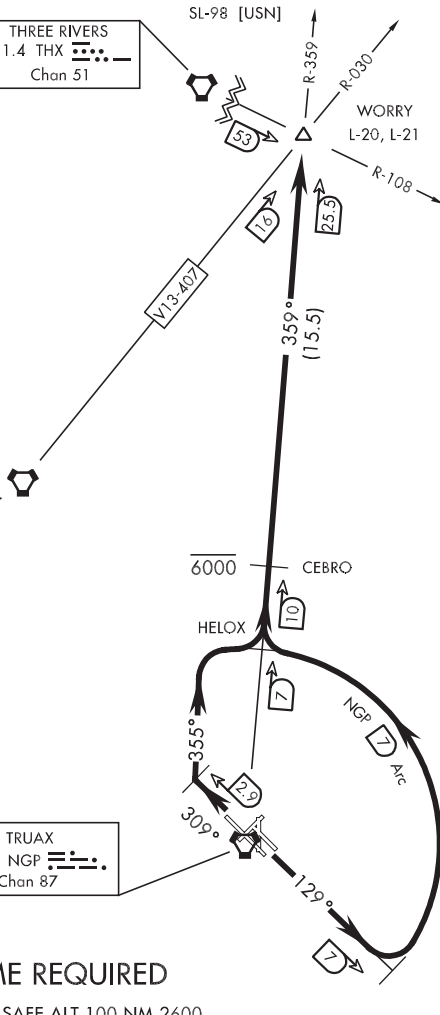
CORPUS CHRISTI
 115.5 CRP
 Chan 102

TRUAX
 114.0 NGP
 Chan 87


 1049

DME REQUIRED

EMERG SAFE ALT 100 NM 2600



SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 13L/R: Climb via heading 129° to intercept NGP VORTAC 7 DME Arc. Arc CCW north of NGP via 7 DME arc to HELOX, NGP R-359/7. Thence,

TAKE-OFF RWY 31L/R: Climb via heading 309° to NGP VORTAC 2.9 DME, then climbing right turn via heading 355° to intercept NGP 7 DME Arc. Arc CW North of NGP via 7 DME arc to HELOX, NGP R-359/7 DME. Thence...

THENCE....from HELOX via NGP VORTAC R-359 to WORRY, NGP R-359/25.5 DME. Cross CEBRO, NGP R-359/10 DME at or below 6000. Then via assigned route. Expect clearance to filed altitude/flight level 10 minutes after departure.

WORRY ONE DEPARTURE (WORRY1 • WORRY)

CORPUS CHRISTI, TEXAS

CORPUS CHRISTI NAS (TRUAX FLD) (KNGP)

WAAS CH 61236 W13A	APP CRS 129°	Rwy Idg 6005 TDZE 474 Apt Elev 474
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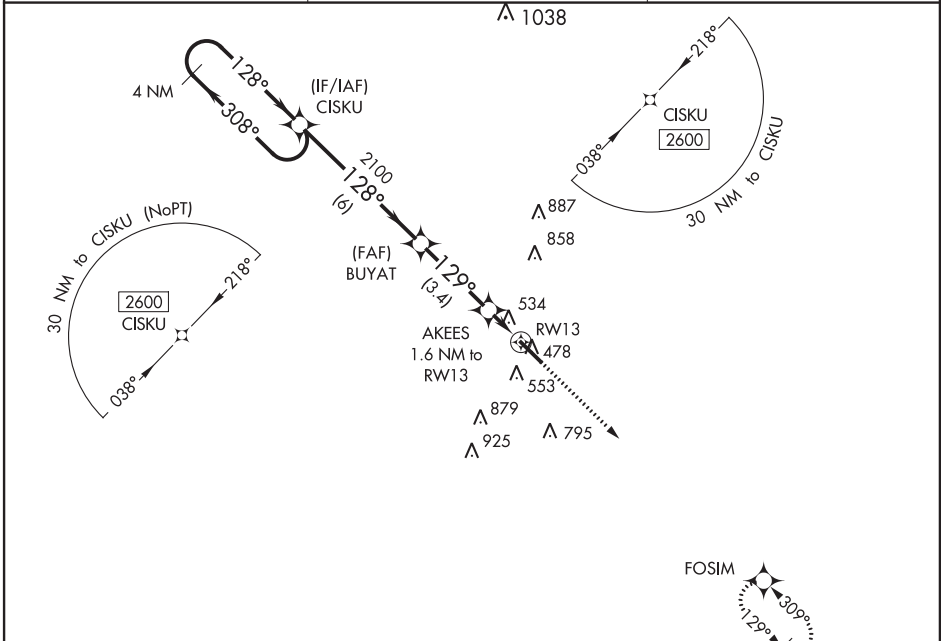
RNAV (GPS) RWY 13

COTULLA-LA SALLE COUNTY (COT)

▼ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -5°C (23°F) or above 54°C (130°F). DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 2600 direct FOSIM and hold.

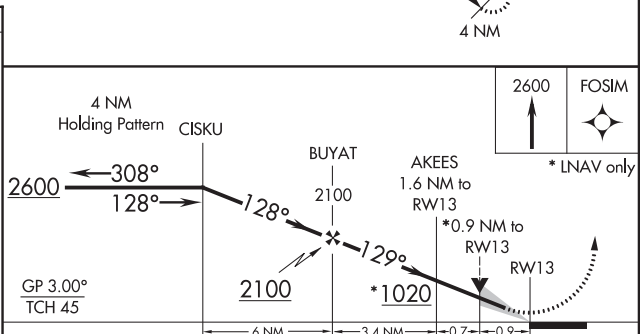
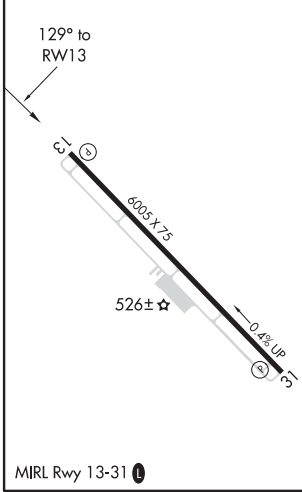
ASOS 118.32	HOUSTON CENTER 134.6 322.5	UNICOM 122.7 (CTAF) 0
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SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

ELEV 474	TDZE 474
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CATEGORY	A	B	C	D
LPV DA	724-1	250 (300-1)		NA
LNAV/VNAV DA	724-1	250 (300-1)		NA
LNAV MDA	800-1	326 (400-1)		NA
C CIRCLING	920-1 446 (500-1)	940-1 466 (500-1)	1120-1¾ 646 (700-1¾)	NA

WAAS CH 42836 W31A	APP CRS 309°	Rwy Idg TDZE 464 Apt Elev 474	6005
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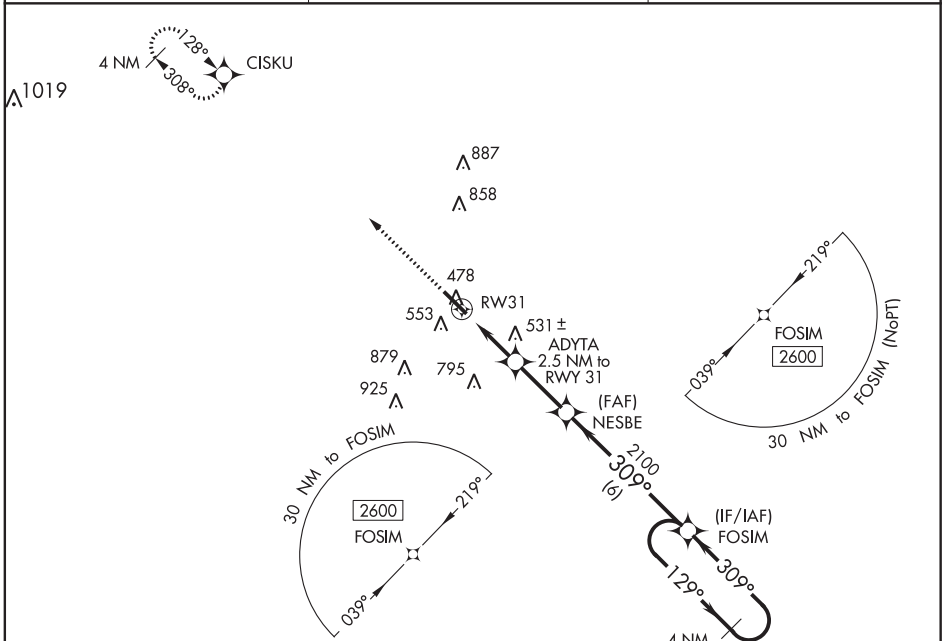
RNAV (GPS) RWY 31

COTULLA-LA SALLE COUNTY (COT)

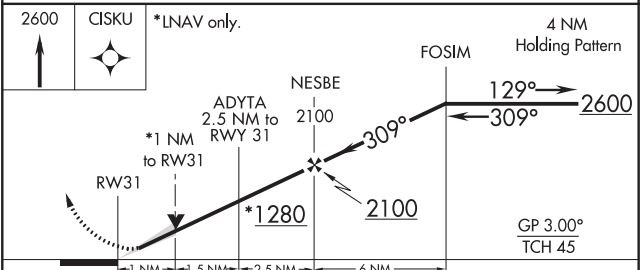
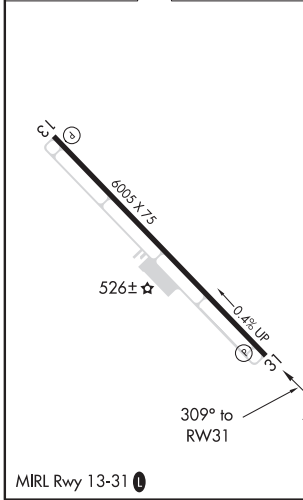
▽ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -5°C (23°F) or above 54°C (130°F). DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 2600 direct CISKU and hold.

ASOS 118.32	HOUSTON CENTER 134.6 322.5	UNICOM 122.7 (CTAF) 0
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ELEV 474	TDZE 464
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CATEGORY	A	B	C	D
LPV DA		714-3/4	250 (300-3/4)	NA
LNAV/VNAV DA		714-3/4	250 (300-3/4)	NA
LNAV MDA		800-1	336 (400-1)	NA
C CIRCLING	920-1 446 (500-1)	940-1 466 (500-1)	1120-1 3/4 646 (700-1 3/4)	NA

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

COTULLA, TEXAS

AL-907 (FAA)

15232

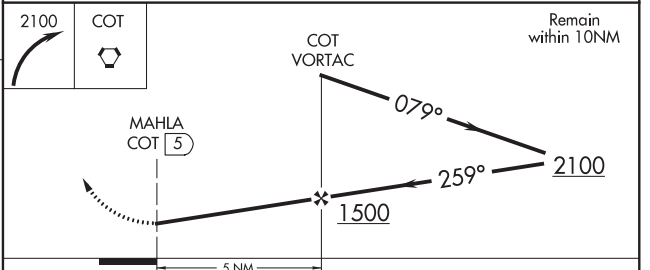
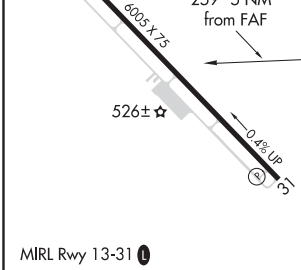
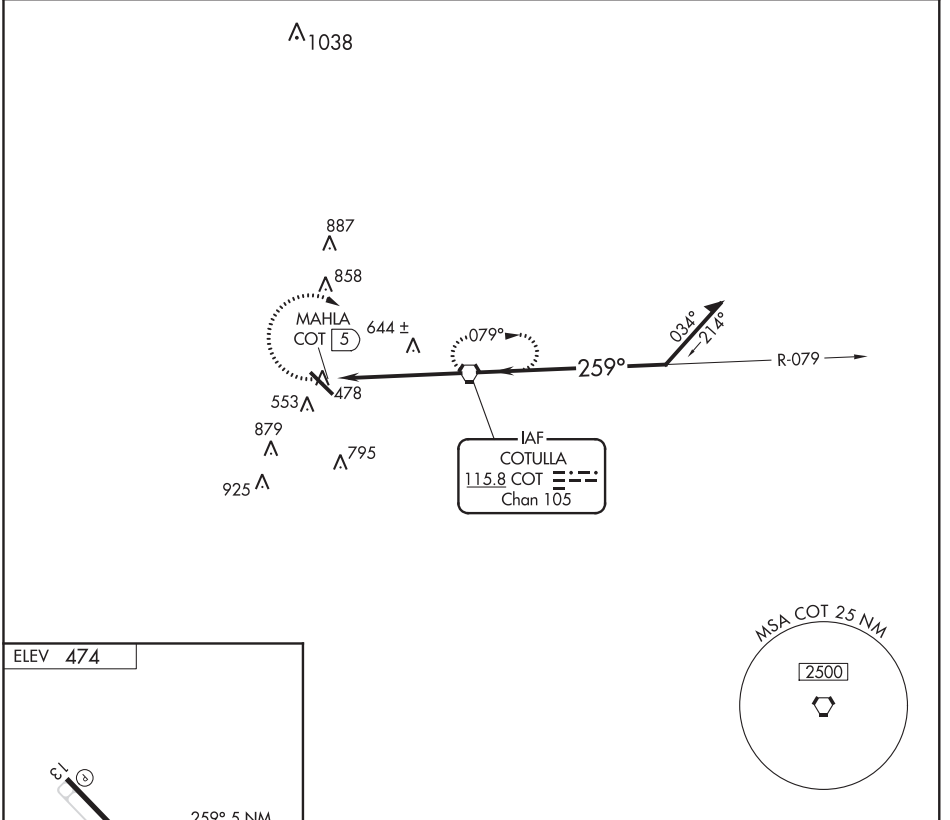
VORTAC COT 115.8 Chan 105	APP CRS 259°	Rwy Idg TDZE Apt Elev	N/A N/A 474
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VOR-A
COTULLA-LA SALLE COUNTY (COT)

▽ If local altimeter setting not received, use Pleasanton
▲ Muni altimeter setting and increase all MDAs 120 feet.

MISSED APPROACH: Climbing right turn to 2100 direct COT VORTAC and hold.

ASOS 118.32	HOUSTON CENTER 134.6 322.5	UNICOM 122.7 (CTAF) ①
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FAF to MAP 5 NM					
Knots	60	90	120	150	180
Min:Sec	5:00	3:20	2:30	2:00	1:40
CATEGORY	A	B	C	D	
CIRCLING	900-1 426 (500-1)	940-1 466 (500-1)	940-1½ 466 (500-1½)	NA	

COTULLA, TEXAS
Amdt 13 20DEC07

28°27'N-99°13'W

COTULLA-LA SALLE COUNTY (COT)
VOR-A

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

LOC I-DRT 111.9 Chan 56	APP CRS 132°	Rwy Idg TDZE Apt Elev	6000 1002 1002
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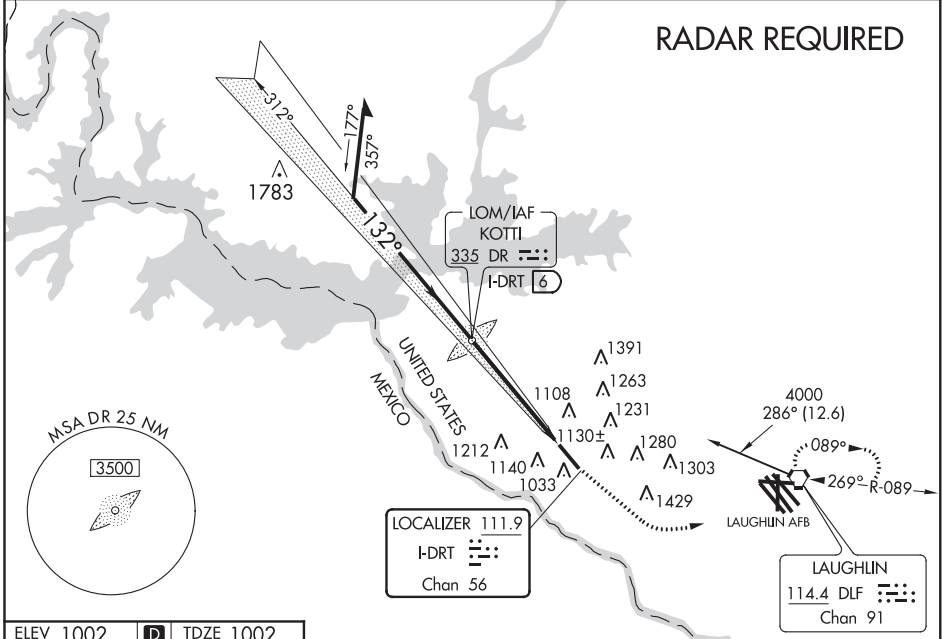
ILS or LOC RWY 13

DEL RIO INTL (DRT)

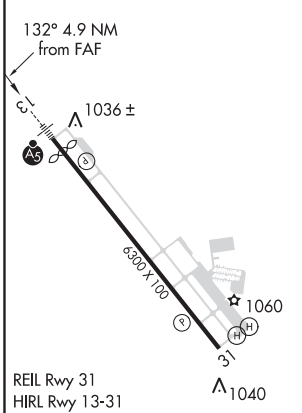
NA Circling NA for Cat D SW of Rwy 13-31. When local altimeter setting not received, use Laughlin AFB altimeter setting and increase all DAs 30 feet, all MDAs 40 feet, increase S-LOC 13 Cat D and Circling Cat D visibility ¼ mile. VDP NA when using Laughlin AFB altimeter setting.

MALSR
A5
MISSED APPROACH: Climb to 2000 via heading 122° then climbing left turn to 4000 direct DLF VORTAC and hold. Continue climb-in-hold to 4000.

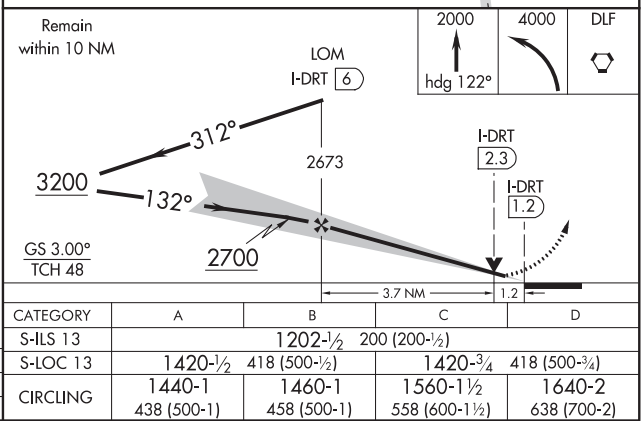
ASOS 118.525	DEL RIO APP CON ★ 119.6 259.1	CLNC DEL 120.5	UNICOM 122.8 (CTAF) 0
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ELEV 1002	D	TDZE 1002
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ADF or DME REQUIRED



FAF to MAP 4.9 NM					
Knots	60	90	120	150	180
Min:Sec	4:54	3:16	2:27	1:58	1:38

DEL RIO, TEXAS
Orig 08APR10

DEL RIO INTL (DRT) ILS or LOC RWY 13

SC-3, 10 NOV 2016 to 05 JAN 2017


SC-3, 10 NOV 2016 to 05 JAN 2017

RNAV (GPS) RWY 13

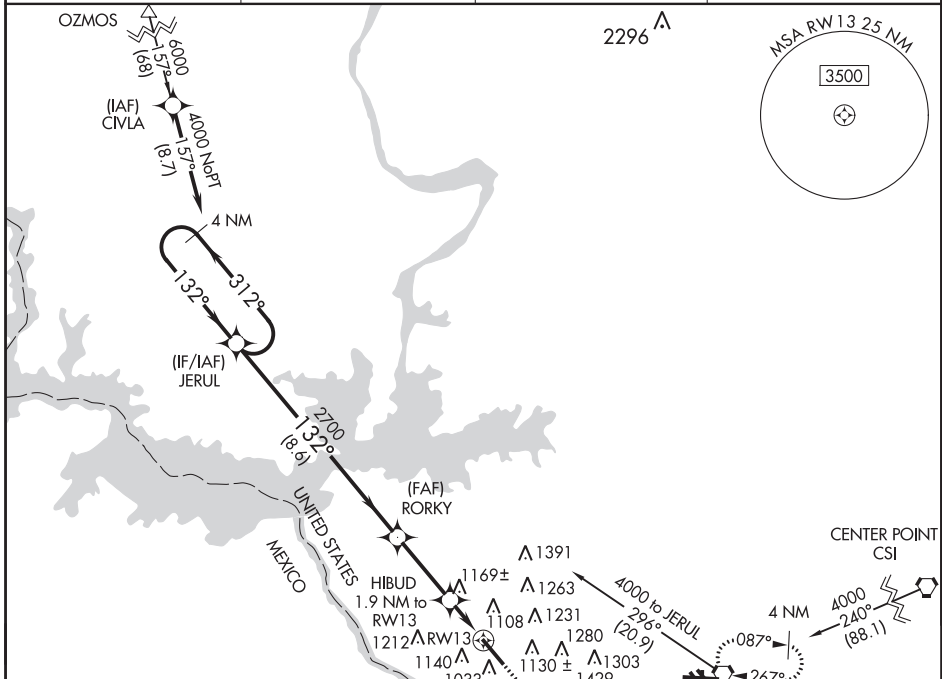
DEL RIO INTL (DRT)

WAAS CH 86499	APP CRS 132°	Rwy Idg TDZE 1002	6000
W13A		Apt Elev 1002	

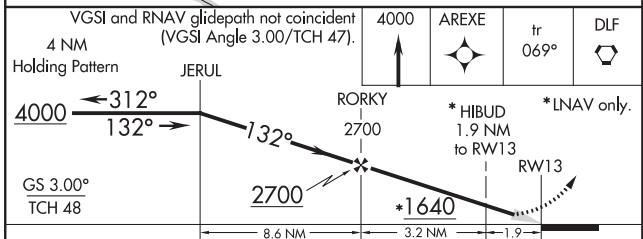
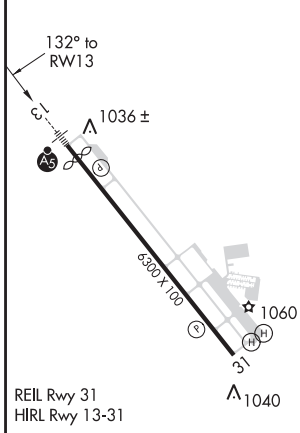
▼ Circling NA for Cat D southwest of Rwy 13-31. DME/DME RNP-0.3 NA.
▲ When local altimeter setting not received, use Laughlin AFB altimeter setting and increase all DA 30 feet and all MDA 40 feet, increase LPV visibility all Cats, LNAV visibility Cats C and D and Circling visibility Cat D 1/2 mile. Baro-VNAV NA when using Laughlin AFB altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17° C (2°F) or above 47°C (116°F).

MALSR

MISSED APPROACH: Climb to 4000 direct AREXE and on 069° track to DLF VORTAC and hold, continue climb-in-hold to 4000.

ASOS 118.525	DEL RIO APP CON ★ 119.6 259.1	CINC DEL 120.5	UNICOM 122.8 (CTAF) 
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ELEV 1002	D	TDZE 1002
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CATEGORY	A	B	C	D
LPV DA		1252-1/2	250 (300-1/2)	
LNAV/VNAV DA		1401-1	399 (400-1)	
LNAV MDA	1500-1/2	498 (500-1/2)	1500-3/4 498 (500-3/4)	1500-1 498 (500-1)
CIRCLING	1500-1	498 (500-1)	1560-1 1/2 558 (600-1 1/2)	1640-2 638 (700-2)

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

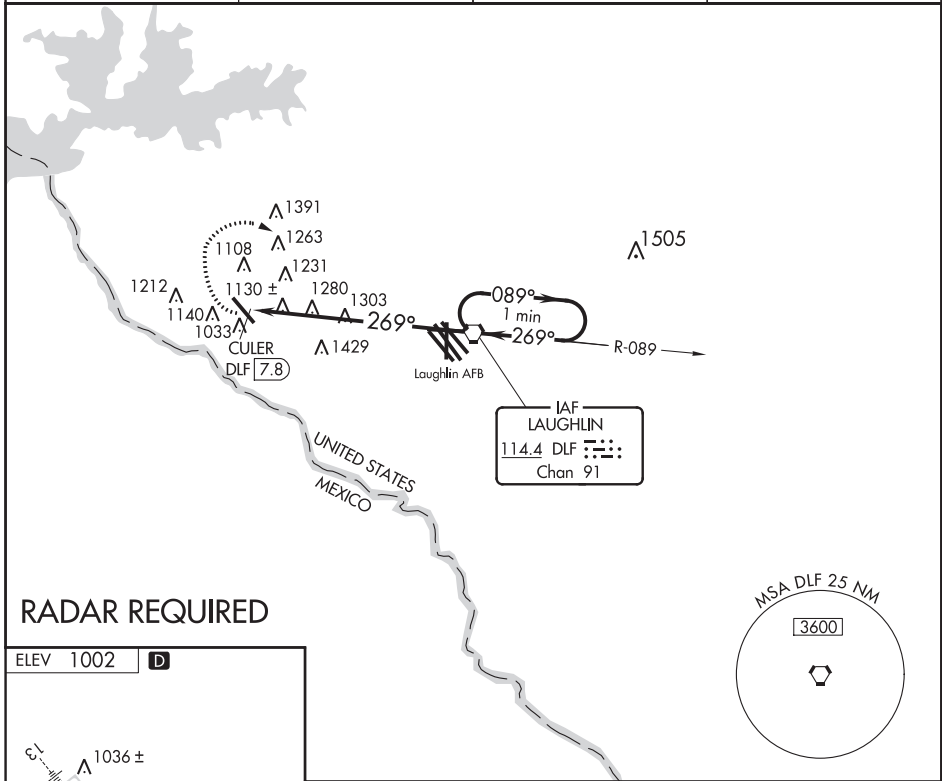
VORTAC DLF 114.4 Chan 91	APP CRS 269°	Rwy Idg TDZE Apt Elev N/A N/A 1002
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VOR-A
DEL RIO INTL (DRT)

▼ Circling NA for Cat D SW of Rwy 13-31. If local altimeter setting not received, use Laughlin AFB altimeter setting and increase all MDAs 40 feet.

▲ MISSED APPROACH: Climbing right turn to 4000 via heading 340° then right turn direct DLF VORTAC and hold.

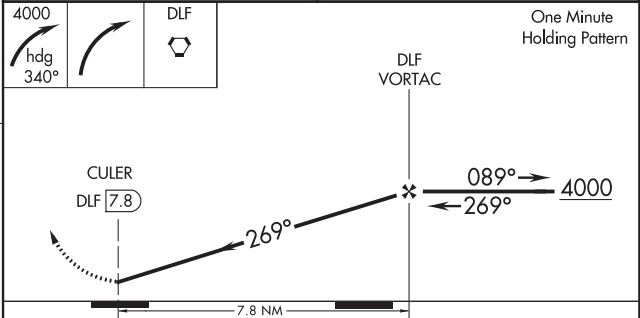
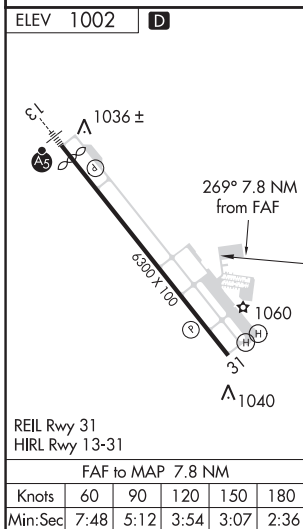
ASOS 118.525	DEL RIO APP CON* 119.6 259.1	CLNC DEL 120.5	UNICOM 122.8 (CTAF) 0
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SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

RADAR REQUIRED



FAF to MAP 7.8 NM		CATEGORY	A	B	C	D
Knots	60 90 120 150 180	CIRCLING	1780-1 778 (800-1)	1780-1¼ 778 (800-1¼)	1780-2¼ 778 (800-2¼)	1780-2½ 778 (800-2½)
Min:Sec	7:48 5:12 3:54 3:07 2:36					

DEVINE, TEXAS

AL-6713 (FAA)

14149

APP CRS	Rwy Idg	3399
346°	TDZE	702
	Apt Elev	702

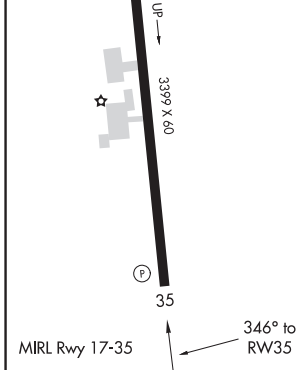
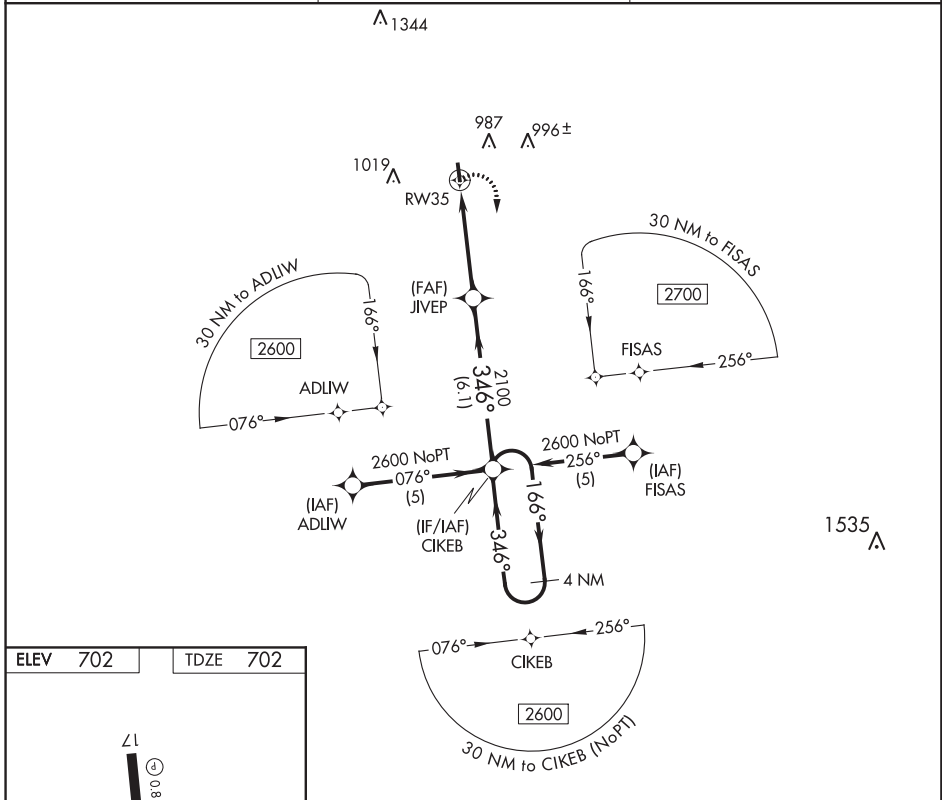
RNAV (GPS) RWY 35

DEVINE MUNI (23R)

▽ DME/DME RNP-0.3 NA. Use Castroville Muni altimeter setting; when not received, use Hondo Muni altimeter setting and increase all MDA 40 feet.
▲ NA Night landing: Rwy 35 NA. Helicopter visibility below 1 SM NA.

MISSED APPROACH: Climbing right turn to 2600 direct CIKEB and hold.

CASTROVILLE AWOS 119.25	HOUSTON CENTER 134.95 269.4	CTAF 122.9
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2600	CIKEB	4 NM Holding Pattern		
		2600		
		Descent angle NA.		
4.2 NM	6.1 NM			
CATEGORY	A	B	C	D
LNAV MDA	1140-1	438 (500-1)	NA	
CIRCLING	1380-1	678 (700-1)	NA	

DEVINE, TEXAS
 Orig-A 29MAY14

29°08'N-98°57'W

RNAV (GPS) RWY 35

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

NDB HHH 359	APP CRS 356°	Rwy Idg TDZE Apt Elev	3399 703 703
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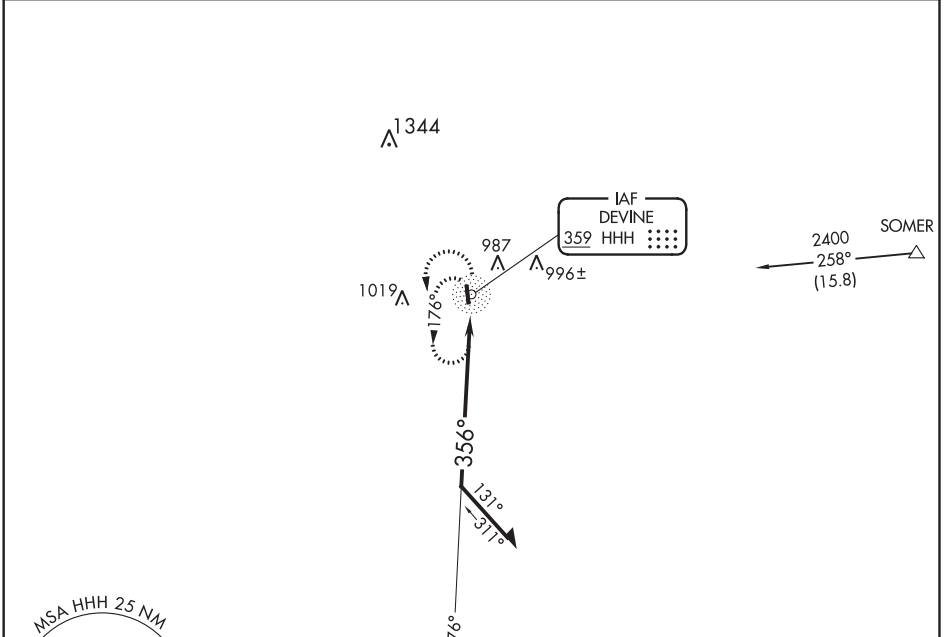
NDB RWY 35

DEVINE MUNI (23R)

▼ Use Castroville Muni altimeter setting; when not received, use South Texas Rgnl at Hondo altimeter setting and increase all MDA 40 feet. Helicopter visibility reduction below 1 SM NA. Night landing: Rwy 35 NA.

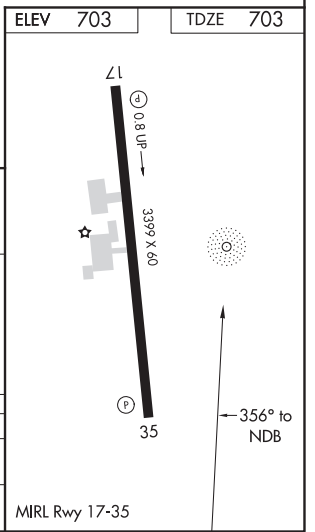
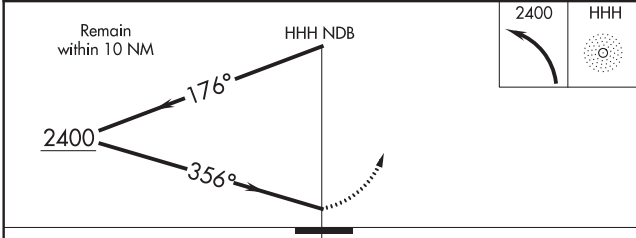
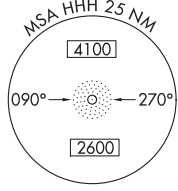
▲ NA MISSED APPROACH: Climbing left turn to 2400 in HHH NDB holding pattern.

CASTROVILLE AWOS 119.250	HOUSTON CENTER 134.95 269.4	CTAF 122.9
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SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017



CATEGORY	A	B	C	D
S-35	1340-1	637 (700-1)		NA
CIRCLING	1380-1	677 (700-1)		NA

EAGLE PASS, TEXAS

AL-126 (FAA)

16175

APP CRS 144°	Rwy Idg 5506
	TDZE 887
	Apt Elev 887

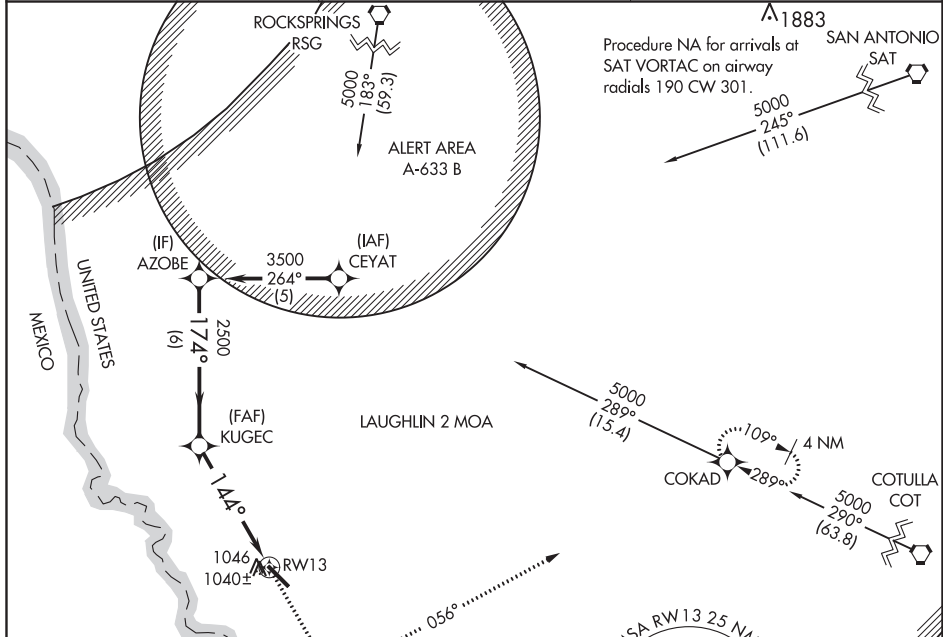
RNAV (GPS) RWY 13

MAVERICK COUNTY MEMORIAL INTL (5T9)

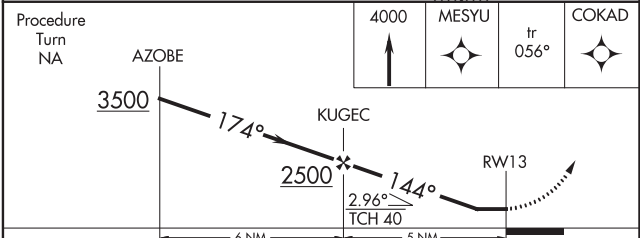
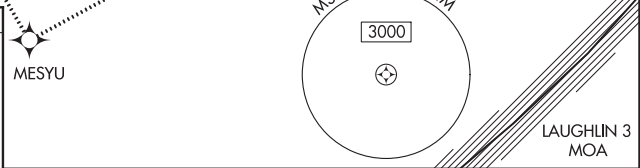
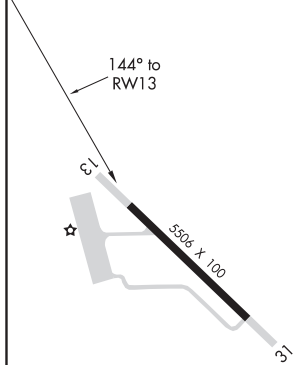
NA DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. Use Laughlin AFB altimeter setting; when not received, use Del Rio Intl altimeter setting.

MISSED APPROACH: Climb to 4000 direct MESYU and via track 056° to COKAD and hold.

AWOS-3 119.175	DEL RIO APP CON ★ 127.75 326.2	UNICOM 122.8 (CTAF)
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ELEV 887	TDZE 887
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CATEGORY	A	B	C	D
LNAV MDA	1460-1	573 (600-1)	1460-1½ 573 (600-1½)	NA
CIRCLING	1500-1	613 (700-1)	1500-1¾ 613 (700-1¾)	NA

MIRL Rwy 13-31
EAGLE PASS, TEXAS
Orig-A 23JUN16

MAVERICK COUNTY MEMORIAL INTL (5T9)
28°51'N-100°30'W
RNAV (GPS) RWY 13

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

WAAS CH 63207 W31A	APP CRS 309°	Rwy Idg TDZE Apt Elev	5506 882 887
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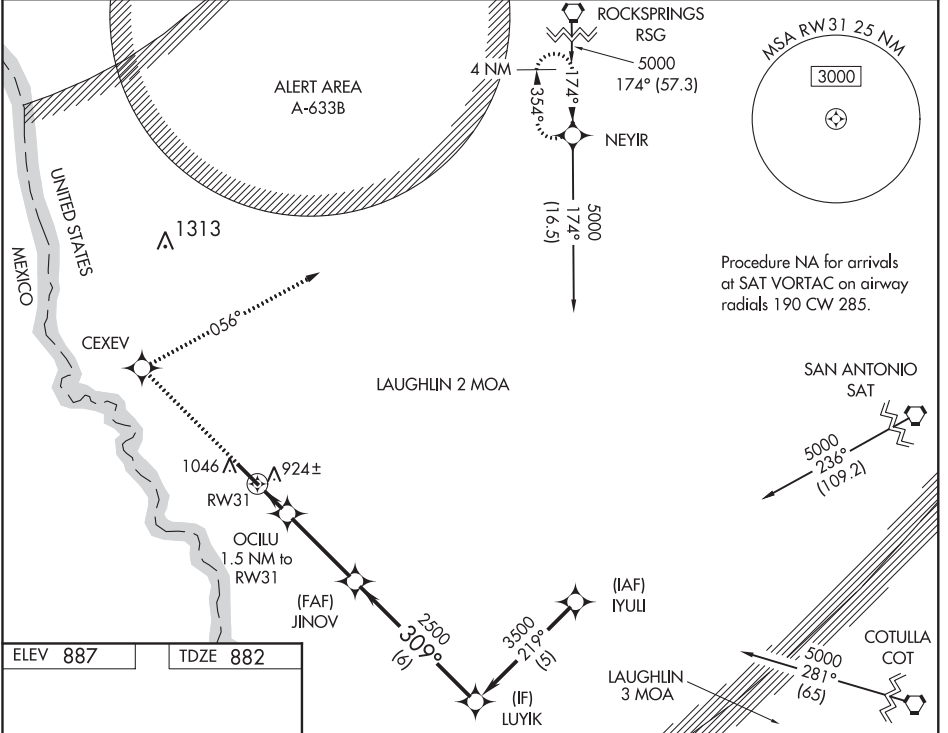
RNAV (GPS) RWY 31

MAVERICK COUNTY MEMORIAL INTL (5T9)

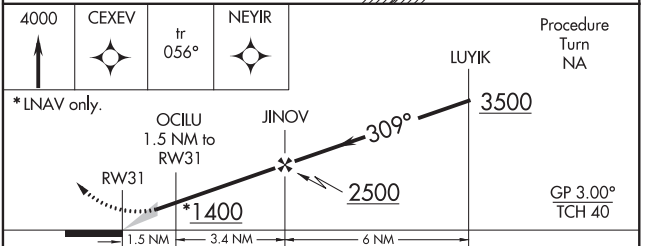
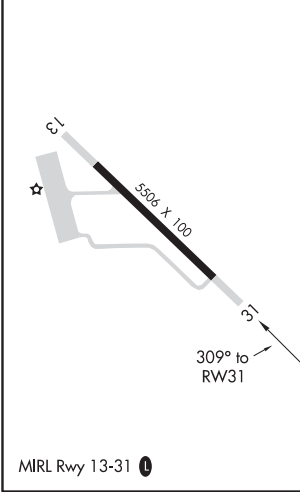
Baro-VNAV NA. DME/DME RNP-0.3 NA. Use Laughlin AFB altimeter setting; when not received, use Del Rio Intl altimeter setting.

MISSED APPROACH: Climb to 4000 direct CEDEV and via 056° track to NEYIR and hold.

AWOS-3 119.175	DEL RIO APP CON ★ 127.75 326.2	UNICOM 122.8 (CTAF) 0
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ELEV 887	TDZE 882
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CATEGORY	A	B	C	D
LPV DA	1236-1¼ 354 (400-1¼)			NA
LNAV/ VNAV DA	1298-1½ 416 (500-1½)			NA
LNAV MDA	1280-1 398 (400-1)			NA
CIRCLING	1500-1 613 (700-1)		1500-1¾ 613 (700-1¾)	NA

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

EDINBURG, TEXAS

AL-10218 (FAA)

16091

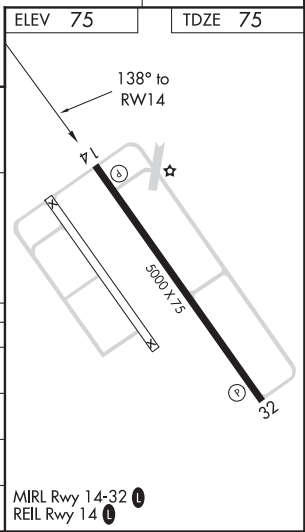
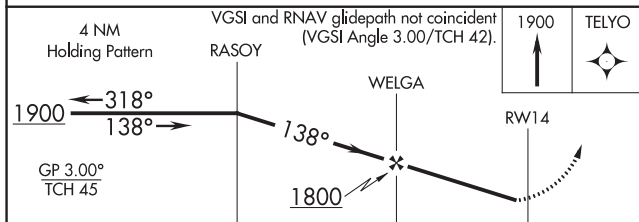
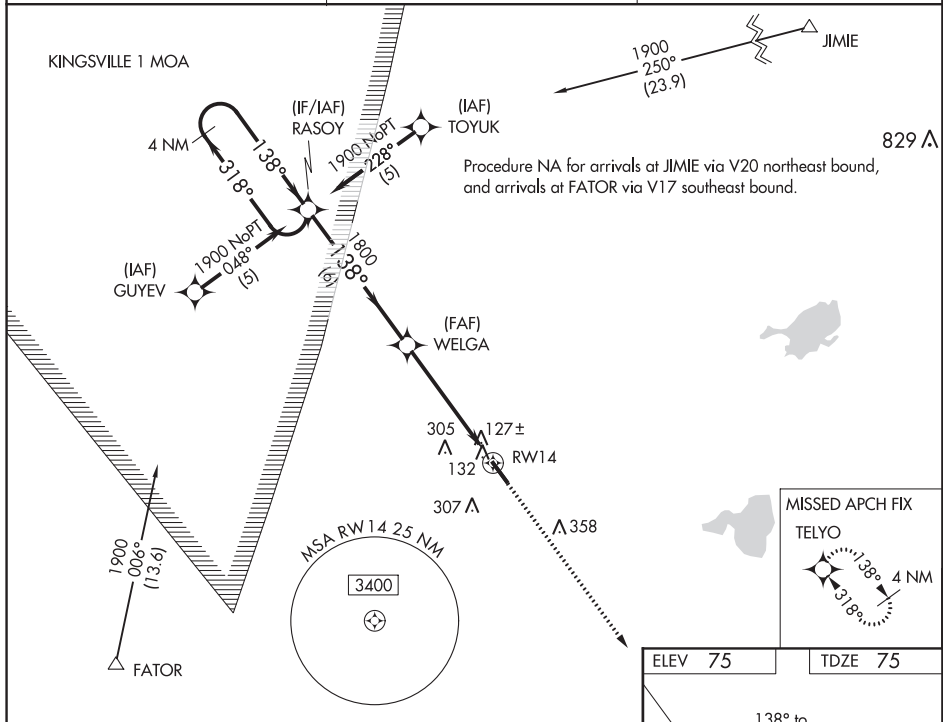
WAAS CH 77901 W14A	APP CRS 138°	Rwy Idg TDZE 75 Apt Elev 75	5000
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RNAV (GPS) RWY 14
SOUTH TEXAS INTL AT EDINBURG (E/BG)

▼ Visibility reduction by helicopters NA. DME/DME RNP-0.3 NA. For uncompensated BARO-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (120°F).

MISSED APPROACH: Climb to 1900 direct TELYO and hold.

AWOS-3 118.025	CORPUS APP CON 121.0 377.2	UNICOM 122.8 (CTAF) 0
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CATEGORY	A	B	C	D
LPV DA		325-1	250 (300-1)	
LNAV/VNAV DA		441-1¼	366 (400-1¼)	
LNAV MDA		440-1	365 (400-1)	440-1¼ 365 (400-1¼)
CIRCLING	500-1¼ 425 (500-1¼)	540-1¼ 465 (500-1¼)	620-1½ 545 (600-1½)	640-2 565 (600-2)

EDINBURG, TEXAS
Orig 28SEP06

26°27'N-98°07'W

SOUTH TEXAS INTL AT EDINBURG (E/BG)
RNAV (GPS) RWY 14

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

WAAS CH 70701 W32A	APP CRS 318°	Rwy Idg TDZE 73 Apt Elev 75	5000
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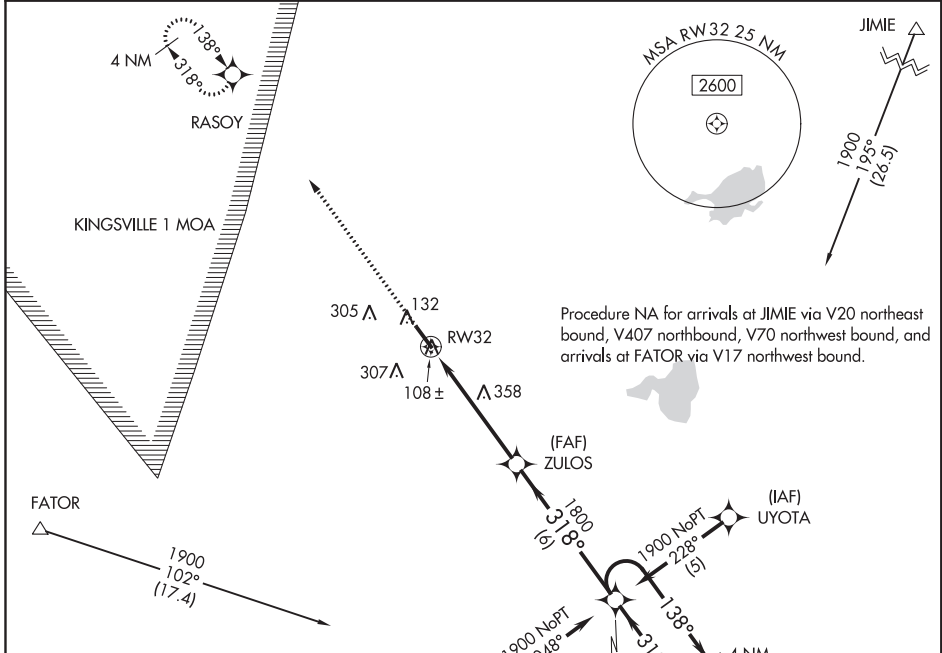
RNAV (GPS) RWY 32

SOUTH TEXAS INTL AT EDINBURG (E.B.G)

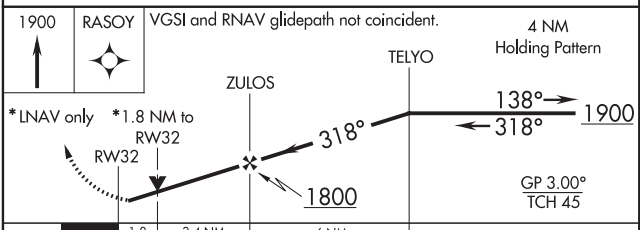
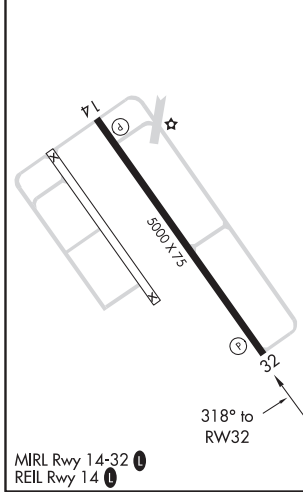
Visibility reduction by helicopters NA. DME/DME RNP-0.3 NA. For uncompensated BARO-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (120°F).

MISSED APPROACH: Climb to 1900 direct RASOY and hold.

AWOS-3 118.025	CORPUS APP CON 121.0 377.2	UNICOM 122.8 (CTAF) 0
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ELEV 75	TDZE 73
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CATEGORY	A	B	C	D
LPV DA		323-3/4	250 (300-3/4)	
LNAV/ VNAV DA		361-1	288 (300-1)	
LNAV MDA	660-1	587 (600-1)	660-1 1/2 587 (600-1 1/2)	660-1 3/4 587 (600-1 3/4)
CIRCLING	660-1	585 (600-1)	660-1 1/2 585 (600-1 1/2)	660-2 585 (600-2)

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SC-3, 10 NOV 2016 to 05 JAN 2017

LOC/DME I-ELP 111.5 Chan 52	APP CRS 222°	Rwy Idg TDZE Apt Elev	12020 3949 3962
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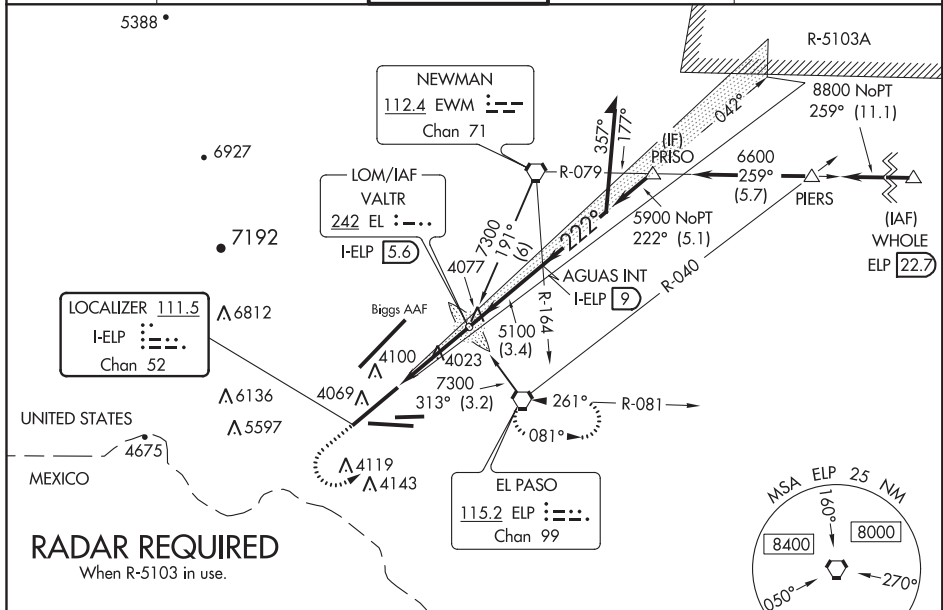
ILS or LOC RWY 22

EL PASO INTL (ELP)

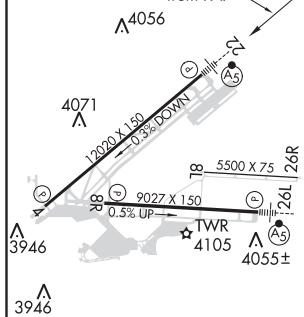
⚠ Cat E Circling NA west of airport. Procedure turn NA for Cat E aircraft. For inop MALSR increase S-ILS 22 Cat E visibility to RVR 4000 and S-LOC 22 Cat E visibility to RVR 6000.
ASR ** Visibility Cat A/B/C/D RVR 1800 authorized with use of FD or AP or HUD to DA.

MALSR MISSED APPROACH: Climb to 4600, then climbing left turn to 7300 direct ELP VORTAC and hold. (TACAN equipped aircraft continue climbing to 9000 via ELP R-058 to WHOLE INT/ELP 22.7 DME)

ATIS 120.0 254.3	EL PASO APP CON 124.25 298.85	EL PASO TOWER 118.3 239.275	GND CON 121.9 348.6	CLNC DEL 125.0 379.1
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ELEV 3962	TDZE 3949
222° 3.4 NM from FAF	



Knots	60	90	120	150	180
Min:Sec	3:24	2:16	1:42	1:22	1:08

CATEGORY	A	B	C	D	E
S-ILS 22	**4149/24 200 (200-½)				
S-LOC 22	4300/24	351 (400-½)	4300/40	351 (400-¾)	
CIRCLING	4420-1	458 (500-1)	4420-1½ 458 (500-1½)	4520-2 558 (600-2)	4660-2½ 698 (700-2½)

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SC-3, 10 NOV 2016 to 05 JAN 2017

APP CRS	Rwy Idg	12020
042°	TDZE	3923
	Apt Elev	3962

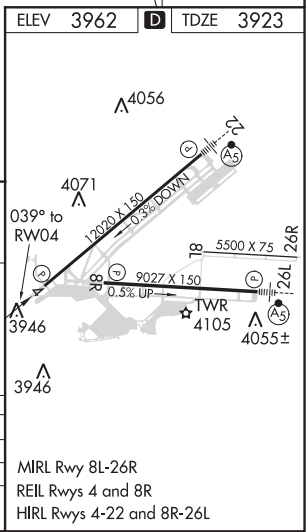
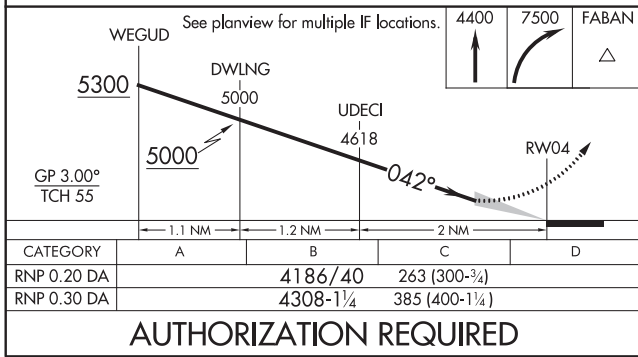
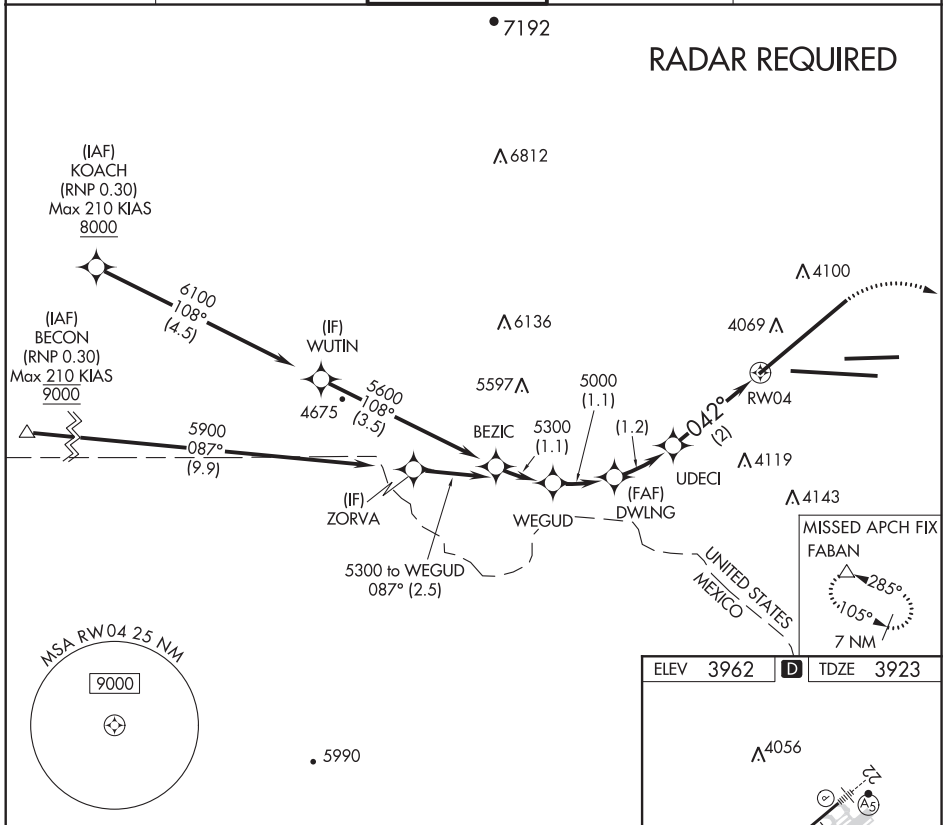
RNAV (RNP) Y RWY 4

EL PASO INTL (ELP)

ASR **RF required. GPS required. For uncompensated Baro-VNAV systems, procedure NA below -8°C (18°F) or above 50°C (122°F).**

MISSED APPROACH: Climb to 4400 then climbing right turn to 7500 direct FABAN and hold.

ATIS 120.0 254.3	EL PASO APP CON 124.25 298.85	EL PASO TOWER 118.3 239.275	GND CON 121.9 348.6	CLNC DEL 125.0 379.1
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AUTHORIZATION REQUIRED

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

APP CRS 042°	Rwy Idg 12020
	TDZE 3923
	Apt Elev 3962

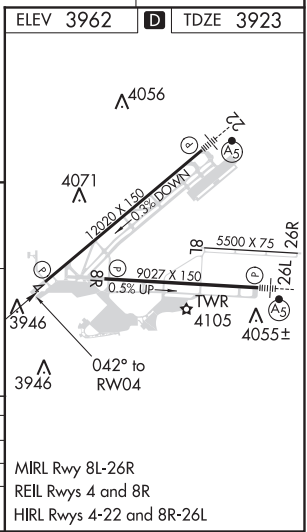
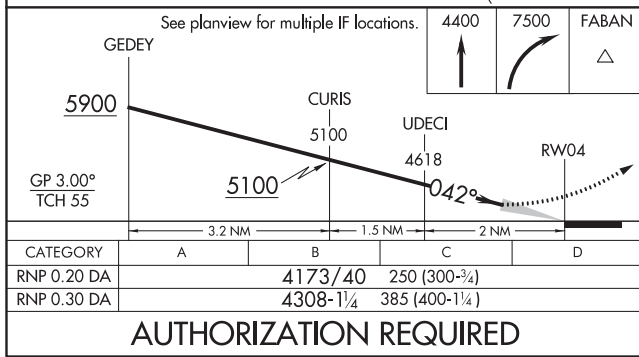
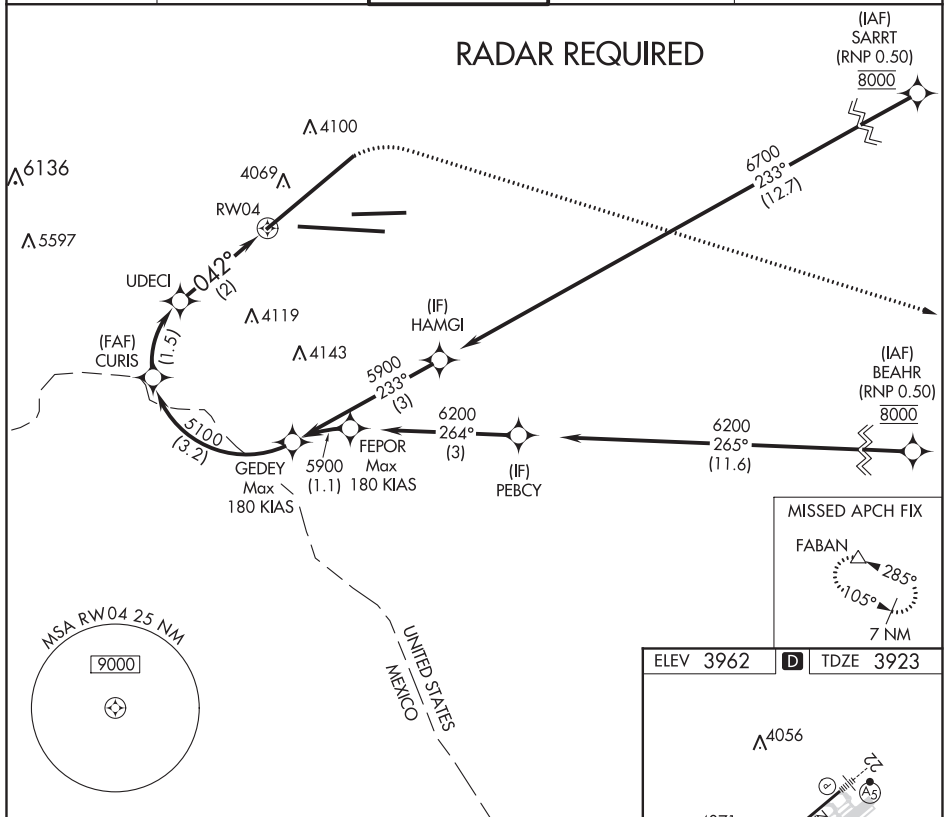
RNAV (RNP) Z RWY 4

EL PASO INTL (ELP)

ASR RF required. GPS required. For uncompensated Baro-VNAV systems, procedure NA below -8°C (18°F) or above 50°C (122°F).

MISSED APPROACH: Climb to 4400 then climbing right turn to 7500 direct FABAN and hold.

ATIS 120.0 254.3	EL PASO APP CON 124.25 298.85	EL PASO TOWER 118.3 239.275	GND CON 121.9 348.6	CLNC DEL 125.0 379.1
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SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

AUTHORIZATION REQUIRED

CATEGORY	A	B	C	D
RNP 0.20 DA		4173/40	250 (300-3/4)	
RNP 0.30 DA		4308-1 1/4	385 (400-1 1/4)	

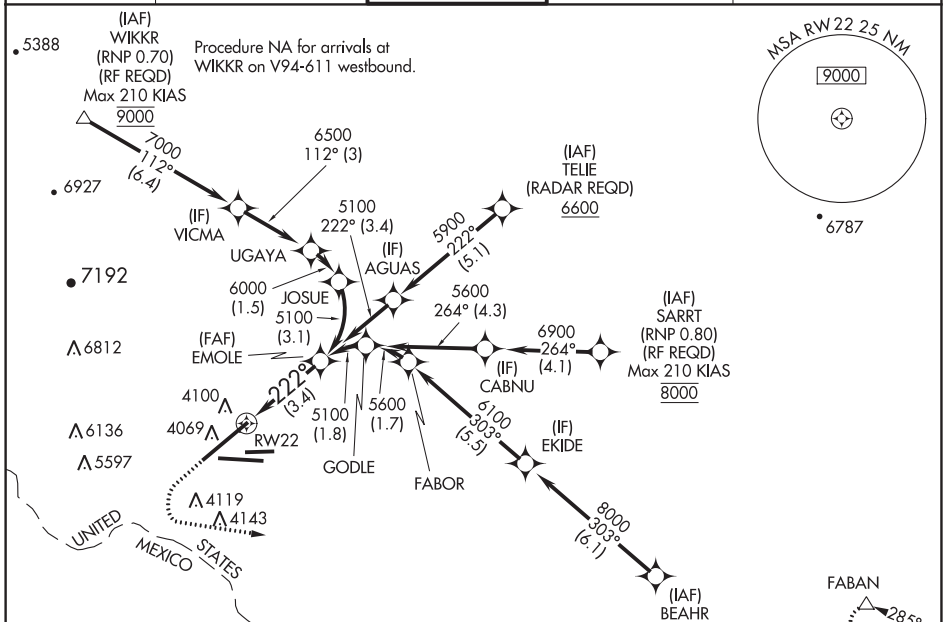
APP CRS	Rwy Idg	12020
222°	TDZE	3949
	Apt Elev	3962

RNAV (RNP) Z RWY 22

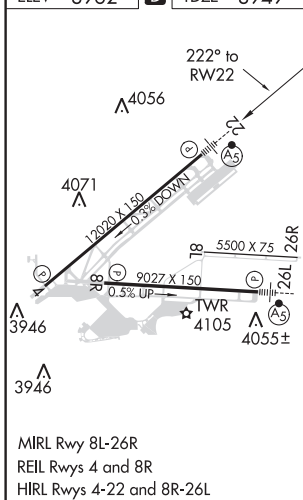
EL PASO INTL (ELP)

ASR	For uncompensated Baro-VNAV systems, procedure NA below -8°C (18°F) or above 50°C (122°F). GPS required. For inop MALSRS, increase RNP 0.10 visibility all Cats to RVR 4000 and RNP 0.30 visibility all Cats to RVR 5100.	MALSRS	MISSED APPROACH: Climb to 4400 then climbing left turn to 7500 direct FABAN and hold.

ATIS	EL PASO APP CON	EL PASO TOWER	GND CON	CLNC DEL
120.0 254.3	124.25 298.85	118.3 239.275	121.9 348.6	125.0 379.1



ELEV	3962	TDZE	3949
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4400	7500	FABAN	EMOLE 5100
VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 70).			
RW22			
GP 3.00° TCH 55			
See planview for multiple IF locations.			
3.4 NM			
CATEGORY	A	B	C
RNP 0.10 DA		4199/24	250 (300-1/2)
RNP 0.30 DA		4269/27	320 (400-5/8)

AUTHORIZATION REQUIRED

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

RNAV (RNP) Z RWY 26L EL PASO INTL (ELP)

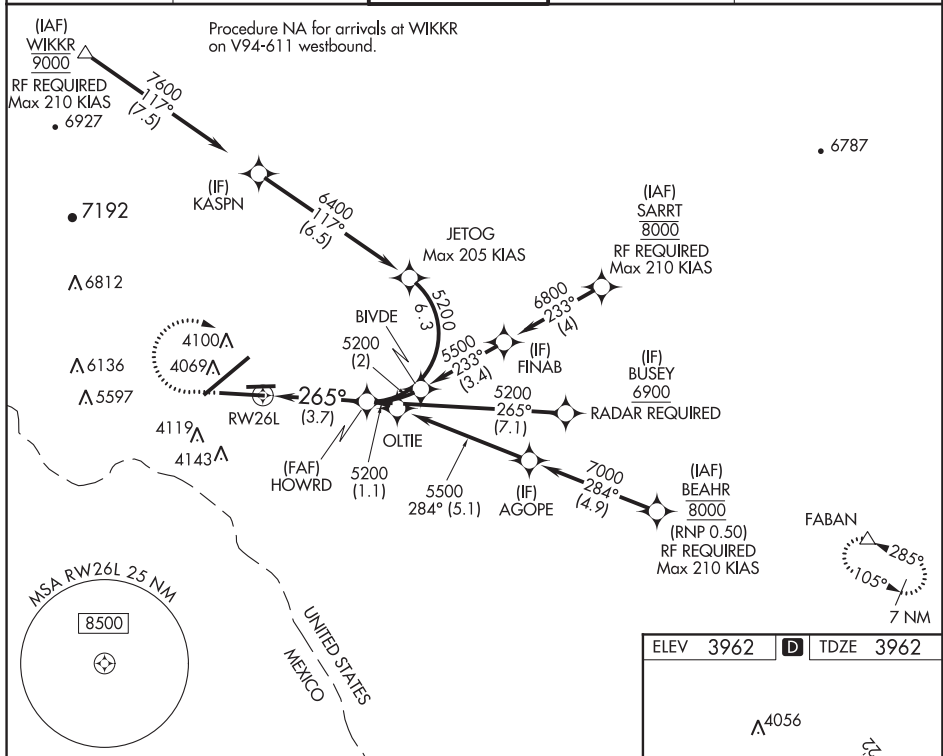
APP CRS 265°	Rwy Idg 9025
	TDZE 3962
	Apt Elev 3962

ASR For uncompensated Baro-VNAV systems, procedure NA below -8°C (18°F) or above 50°C (122°F). For inop MALSRS, increase RNP 0.30 visibility all Cats to 1 mile. GPS Required.

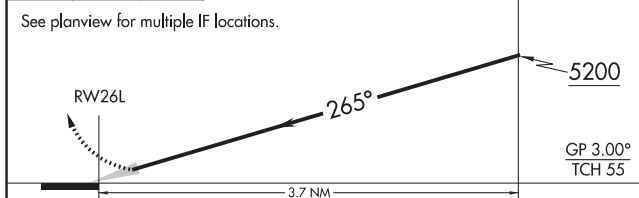


MISSED APPROACH: Climb to 4400, then climbing right turn to 7500 direct FABAN and hold.

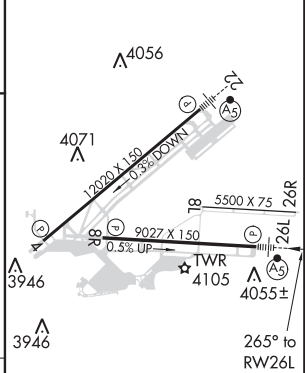
ATIS 120.0 254.3	EL PASO APP CON 124.25 298.85	EL PASO TOWER 118.3 239.275	GND CON 121.9 348.6	CLNC DEL 125.0 379.1
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4400 7500 FABAN
 VGSI and glidepath not coincident (VGSI Angle 3.00/TCH 75).
 See planview for multiple IF locations.



ELEV 3962	D	TDZE 3962
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CATEGORY	A	B	C	D
RNP 0.30 DA		4275-1/2	313 (400-1/2)	

AUTHORIZATION REQUIRED

MIRL Rwy 8L-26R
 REIL Rwy 4 and 8R
 HIRL Rwy 4-22 and 8R-26L

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

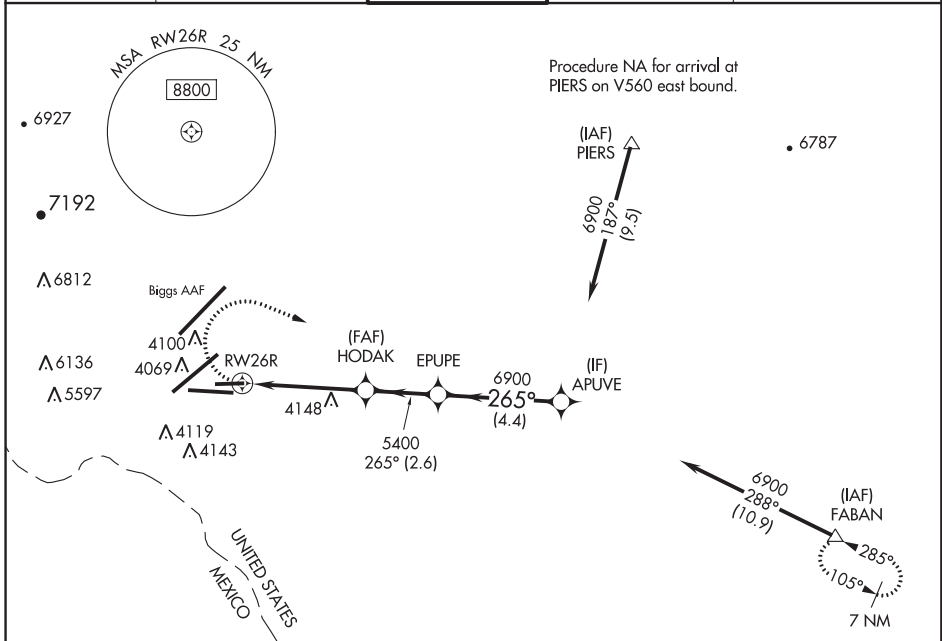
RNAV (GPS) RWY 26R

EL PASO INTL (ELP)

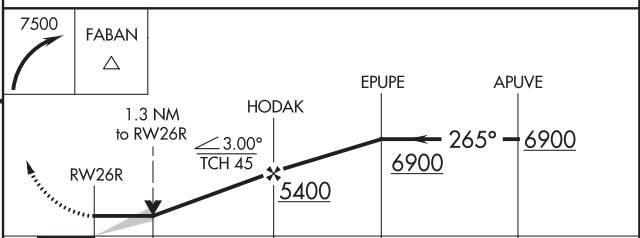
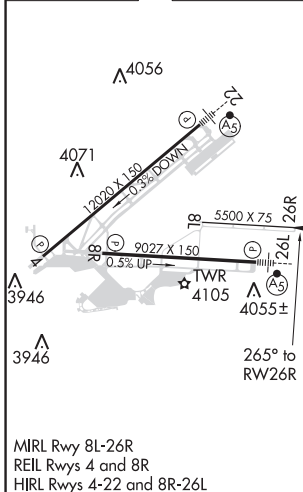
APP CRS 265°	Rwy Idg 5500
	TDZE 3949
	Apt Elev 3961

ASR	DME/DME RNP-0.3 NA.	MISSED APPROACH: Climbing right turn 7500 direct FABAN and hold.		
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ATIS 120.0 254.3	EL PASO APP CON 124.25 298.85	EL PASO TOWER 118.3 239.275	GND CON 121.9 348.6	CLNC DEL 125.0 379.1
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ELEV 3961	D	TDZE 3949
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CATEGORY	A	B	C	D
LNAV MDA	4400-1	451 (500-1)	4400-1 $\frac{3}{8}$	451 (500-1 $\frac{3}{8}$)
C CIRCLING	4420-1	459 (500-1)	4460-1 $\frac{1}{2}$ 499 (500-1 $\frac{1}{2}$)	5820-3 1859 (1900-3)

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

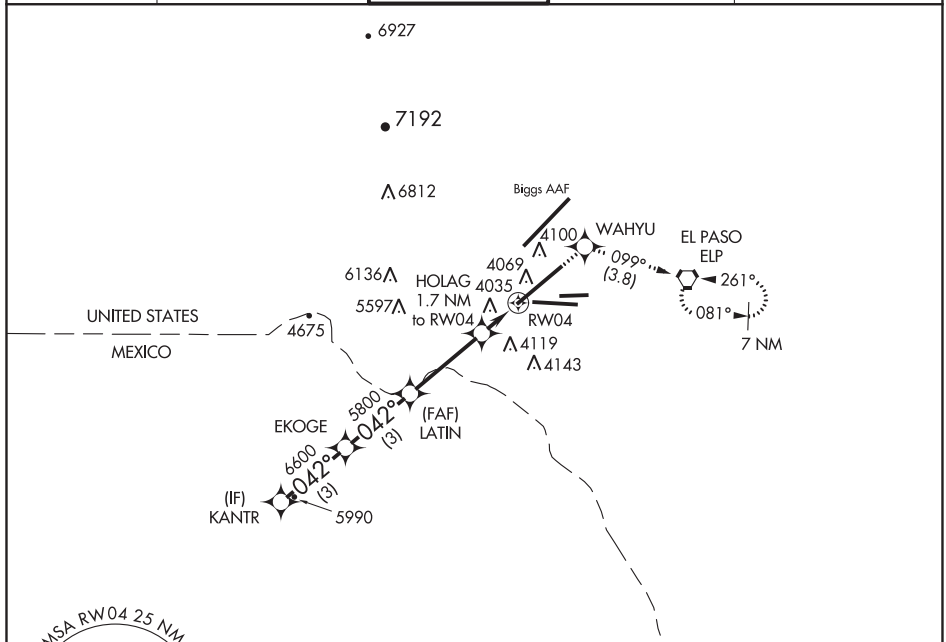
APP CRS 042°	Rwy Idg TDZE Apt Elev	12020 3923 3962
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RNAV (GPS) X RWY 4

EL PASO INTL (ELP)

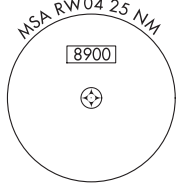
ASR DME/DME RNP-0.3 NA.		MISSED APPROACH: Climb to 6900 direct WAHYU and on track 099° to ELP VORTAC and hold, continue climb-in-hold to 6900.		
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ATIS 120.0 254.3	EL PASO APP CON 124.25 298.85	EL PASO TOWER 118.3 239.275	GND CON 121.9 348.6	CLNC DEL 125.0 379.1
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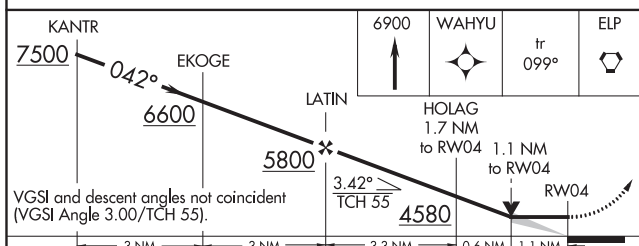


SC-3, 10 NOV 2016 to 05 JAN 2017

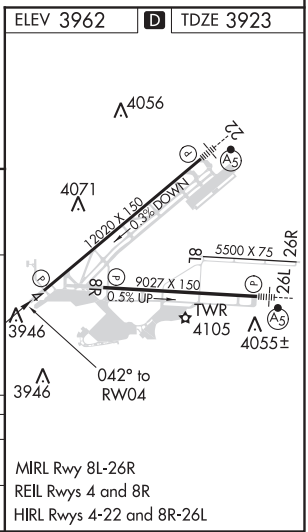
SC-3, 10 NOV 2016 to 05 JAN 2017



RADAR REQUIRED



CATEGORY	A	B	C	D
LNVA MDA	4320/55	397 (400-1¼)	4320/60	397 (400-1¼)
CIRCLING	4420-1 458 (500-1)	4460-1 498 (500-1)	4460-1½ 498 (500-1½)	4520-2 558 (600-2)



MIRL Rwy 8L-26R
REIL Rwys 4 and 8R
HIRL Rwys 4-22 and 8R-26L

EL PASO, TEXAS

AL-134 (FAA)

15344

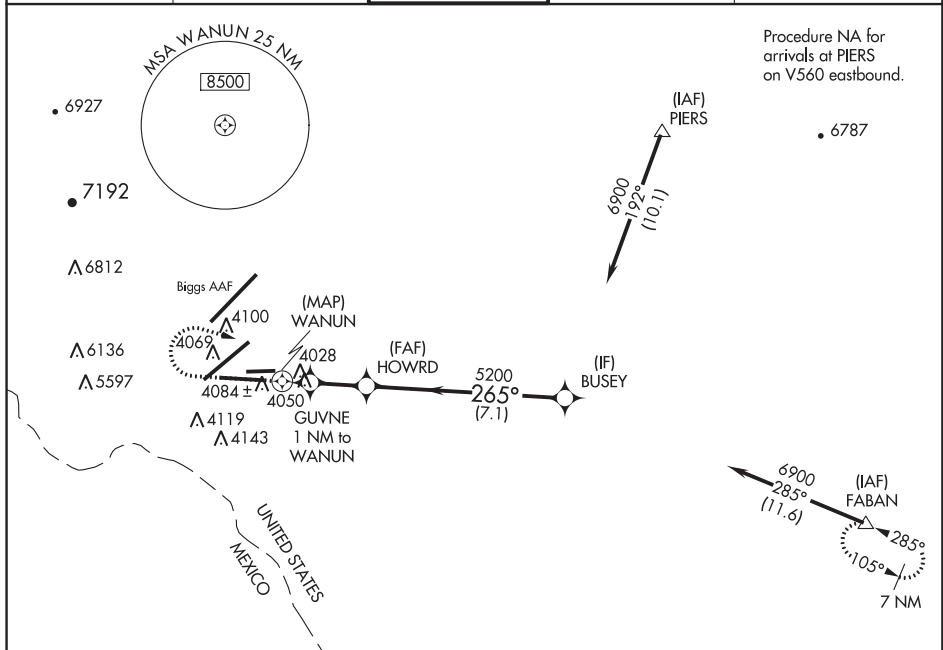
WAAS CH 40223	APP CRS 265°	Rwy Idg TDZE Apt Elev	9025 3962 3962
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RNAV (GPS) Y RWY 26L

EL PASO INTL (ELP)

ASR	DME/DME RNP-0.3 NA.	MALSR 	MISSED APPROACH: Climb to 4380 then climbing right turn to 7500 direct FABAN and hold.	
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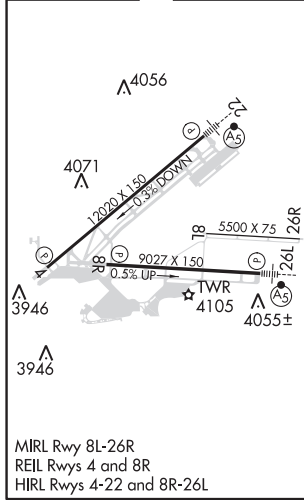
ATIS 120.0 254.3	EL PASO APP CON 124.25 298.85	EL PASO TOWER 118.3 239.275	GND CON 121.9 348.6	CLNC DEL 125.0 379.1
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SC-3, 10 NOV 2016 to 05 JAN 2017

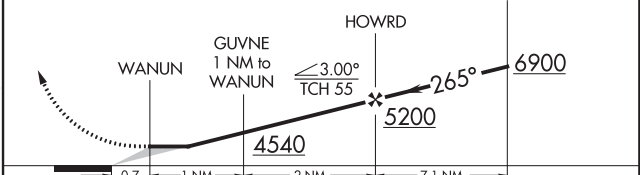
SC-3, 10 NOV 2016 to 05 JAN 2017

ELEV 3962	D	TDZE 3962
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MIRL Rwy 8L-26R
REIL Rwy 4 and 8R
HIRL Rwy 4-22 and 8R-26L

4380	7500	FABAN	VGSI and descent angles not coincident (VGSI Angle 3.00/TCH 75).
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CATEGORY	A	B	C	D
LP MDA	4280-3/4 318 (400-3/4)			
LNAV MDA	4380-3/4 418 (500-3/4)			
CIRCLING	4420-1	458 (500-1)	4420-1 1/2 458 (500-1 1/2)	4520-2 558 (600-2)

EL PASO, TEXAS
Amdt 1B 16OCT14

31°48'N-106°23'W

RNAV (GPS) Y RWY 26L

EL PASO INTL (ELP)

LOC/DME I-ETF 111.5 Chan 52	APP CRS 042°	Rwy Idg 12020 TDZE 3923 Apt Elev 3962
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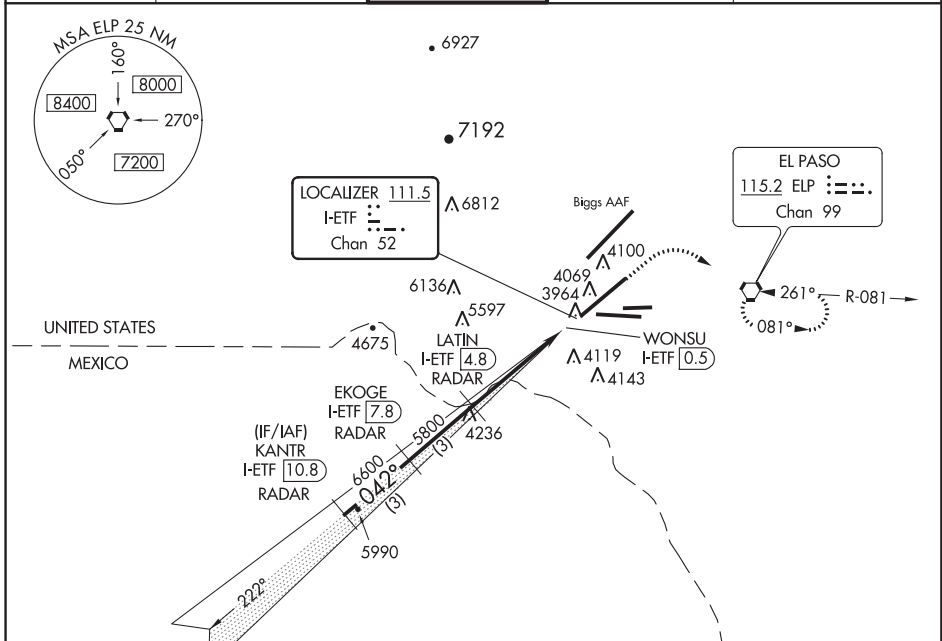
LOC/DME RWY 4

EL PASO INTL (ELP)

ASR

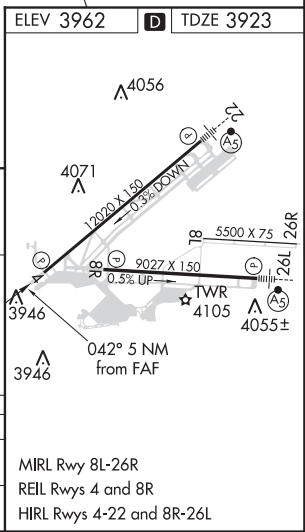
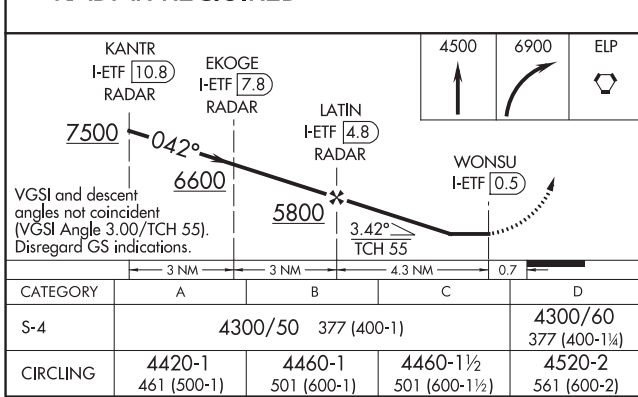
MISSED APPROACH: Climb to 4500 then climbing right turn to 6900 direct ELP VORTAC and hold, continue climb-in-hold to 6900.

ATIS 120.0 254.3	EL PASO APP CON 124.25 298.85	EL PASO TOWER 118.3 239.275	GND CON 121.9 348.6	CLNC DEL 125.0 379.1
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ELEV 3962	TDZE 3923
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RADAR REQUIRED



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SC-3, 10 NOV 2016 to 05 JAN 2017

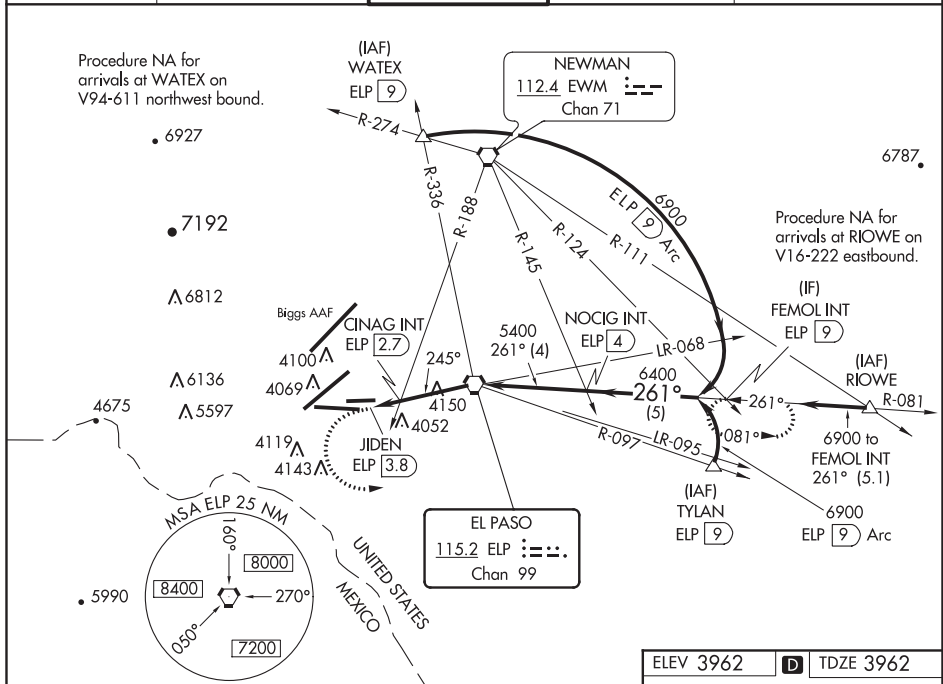
VORTAC ELP 115.2 Chan 99	APP CRS 245°	Rwy Idg TDZE Apt Elev	9025 3962 3962
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VOR RWY 26L

EL PASO INTL (ELP)

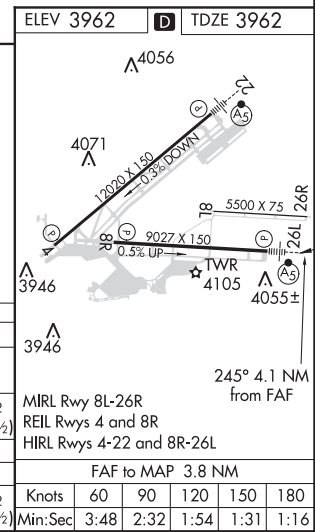
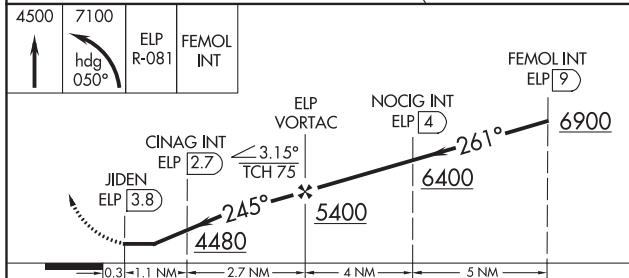
⚠ Circling NA for Cat E west of Rwy 4-22. DME required. ASR Inoperative table does not apply.	MALSR 	MISSED APPROACH: Climb to 4500 then climbing left turn to 7100 on heading 050° and on ELP VORTAC R-081 to FEMOL INT/9 DME and hold.
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ATIS 120.0 254.3	EL PASO APP CON 124.25 298.85	EL PASO TOWER 118.3 239.275	GND CON 121.9 348.6	CLNC DEL 125.0 379.1
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SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017



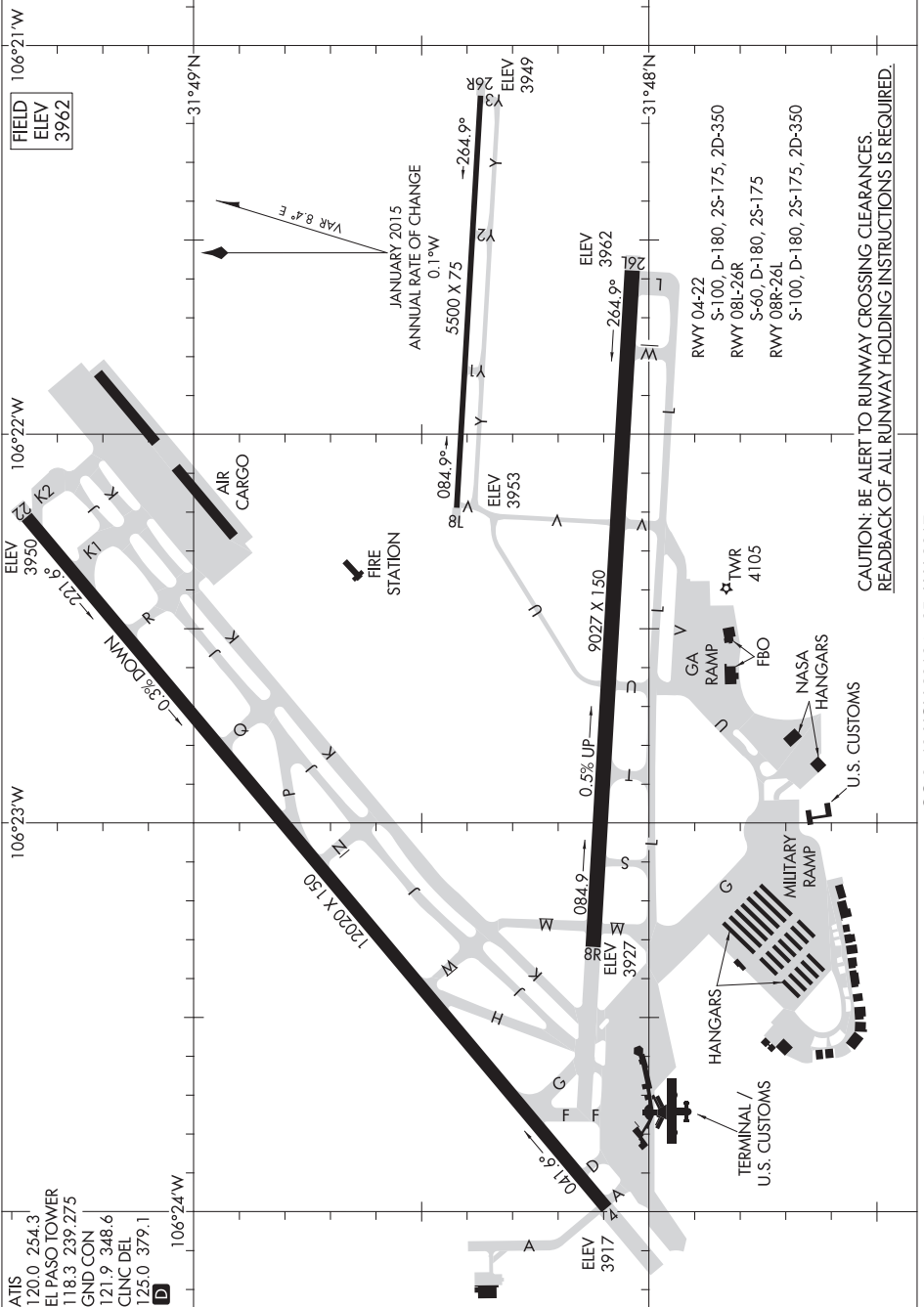
CATEGORY	A	B	C	D	E
S-26L	4480-1	518 (600-1)	4480-1 3/8	518 (600-1 1/2)	
CIRCLING	4480-1	518 (600-1)	4480-1 1/2	4520-2	4660-2 1/2
CINAG FIX MINIMUMS (DUAL VOR RECEIVERS OR DME REQUIRED)					
S-26L	4340-1 378 (400-1)				
CIRCLING	4420-1 458 (500-1)	4460-1 498 (500-1)	4460-1 1/2 498 (500-1 1/2)	4520-2 558 (600-2)	4660-2 1/2 698 (700-2 1/2)

16035
AIRPORT DIAGRAM

AL-134 (FAA)

EL PASO INTL (ELP)
 EL PASO, TEXAS

SC-3, 10 NOV 2016 to 05 JAN 2017



SC-3, 10 NOV 2016 to 05 JAN 2017

AIRPORT DIAGRAM
 16035

EL PASO, TEXAS
EL PASO INTL (ELP)



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 8R: Climb heading 085° to 6000, then right turn direct JAPOD, then on depicted route to ATKNN, thence . . .

TAKEOFF RWY 22: Climb heading 222° to 4462, then right turn direct BIVKE, then on depicted route to ATKNN, thence . . .

TAKEOFF RWY 26L: Climb heading 265° to 4462, then left turn direct BIVKE, then on depicted route to ATKNN, thence . . .

. . . (transition). Maintain altitude as assigned by ATC, expect filed altitude 10 minutes after departure.

FLOGS TRANSITION (ATKNN5.FLOGS)

GREBE TRANSITION (ATKNN5.GREBE)

NOCHI TRANSITION (ATKNN5.NOCHI)

SLNKN TRANSITION (ATKNN5.SLNKN)

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

(JCOXX2.JCOXX) 16203

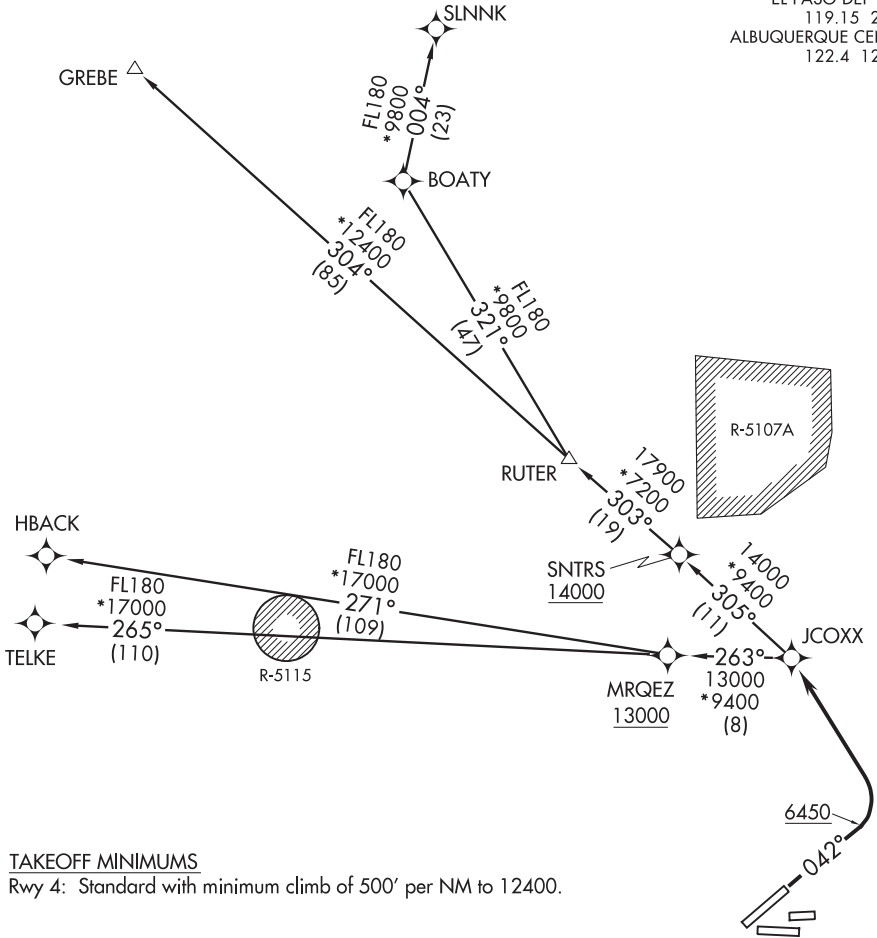
JCOXX TWO DEPARTURE (RNAV)

SL-134 (FAA)

EL PASO INTL (ELP)
EL PASO, TEXAS

**TOP ALTITUDE:
ASSIGNED BY ATC**

- ATIS 120.0 254.3
- CLNC DEL 125.0 379.1
- GND CON 121.9 348.6
- EL PASO TOWER 118.3 239.275
- EL PASO DEP CON 119.15 263.0
- ALBUQUERQUE CENTER 122.4 122.55



TAKEOFF MINIMUMS

Rwy 4: Standard with minimum climb of 500' per NM to 12400.

- NOTE: Takeoff Rwy 4, do not exceed 230K until passing 6450.
- NOTE: For use by Turbojet aircraft only.
- NOTE: RADAR required for non-GPS equipped aircraft.
- NOTE: DME/DME/IRU or GPS required.
- NOTE: RNAV 1.

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.

JCOXX TWO DEPARTURE (RNAV)

(JCOXX2.JCOXX) 21JUL16

EL PASO, TEXAS
EL PASO INTL (ELP)

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 4: Climb heading 042° to 6450, then left turn direct JCOXX, thence. . .

. . .(transition). Maintain altitude as assigned by ATC, expect filed altitude 10 minutes after departure.

GREBE TRANSITION (JCOXX2.GREBE)

HBACK TRANSITION (JCOXX2.HBACK)

SLNNK TRANSITION (JCOXX2.SLNNK)

TELKE TRANSITION (JCOXX2.TELKE)

TAKEOFF OBSTACLE NOTES

Rwy 4: Light poles beginning 1053' from DER, 746' left of centerline, 39' AGL/3986' MSL.

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

LATVE THREE DEPARTURE (RNAV)

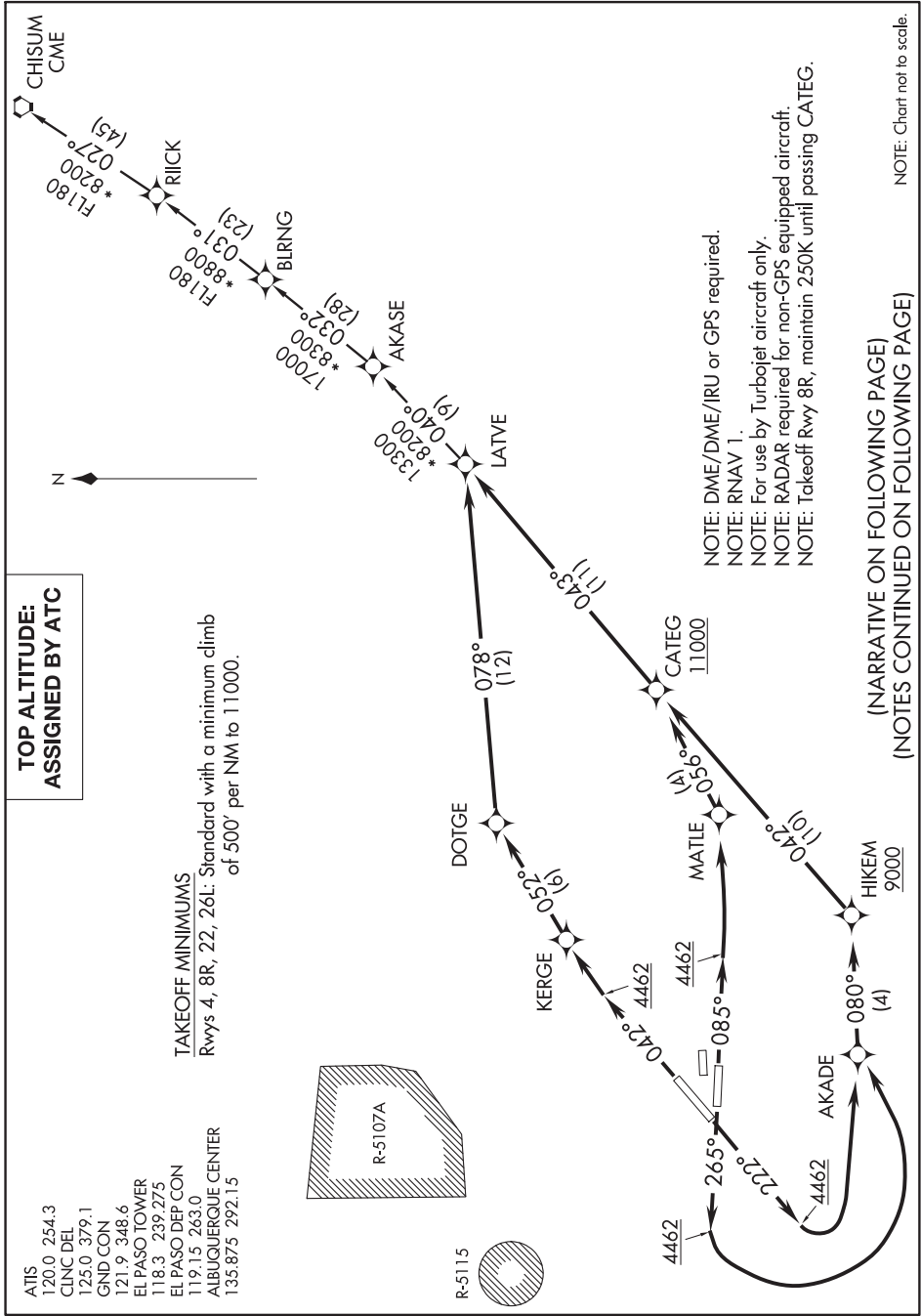
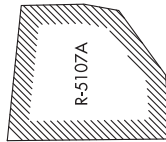
SC-3, 10 NOV 2016 to 05 JAN 2017

**TOP ALTITUDE:
ASSIGNED BY ATC**

ATIS 120.0 254.3
 CINCL DEL 125.0 379.1
 GND CON 121.9 348.6
 EL PASO TOWER 118.3 239.275
 EL PASO DEP CON 119.15 263.0
 ALBUQUERQUE CENTER 135.875 292.15

TAKEOFF MINIMUMS

Rvys 4, 8R, 22, 26L: Standard with a minimum climb
 of 500' per NM to 11000.



NOTE: DME/DME/IRU or GPS required.
 NOTE: RNAV 1.
 NOTE: For use by Turbojet aircraft only.
 NOTE: RADAR required for non-GPS equipped aircraft.
 NOTE: Takeoff Rwy 8R, maintain 250K until passing CATEG.

NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)
 (NOTES CONTINUED ON FOLLOWING PAGE)

SC-3, 10 NOV 2016 to 05 JAN 2017



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 4: Climb heading 042° to 4462, then direct KERGE, then on track 052° to DOTGE, then on track 078° to LATVE. Thence. . . .

TAKEOFF RWY 8R: Climb heading 085° to 4462, then direct MATLE, then on track 056° to cross CATEG at or above 11000, then on track 043° to LATVE. Thence. . . .

TAKEOFF RWY 22: Climb heading 222° to 4462, then left turn direct AKADE, then on track 080° to cross HIKEM at or above 9000, then on track 042° to cross CATEG at or above 11000, then on track 043° to LATVE. Thence. . . .

TAKEOFF RWY 26L: Climb heading 265° to 4462, then left turn direct AKADE, then on track 080° to cross HIKEM at or above 9000, then on track 042° to cross CATEG at or above 11000, then on track 043° to LATVE. Thence. . . .

. . . .on depicted route to CME VORTAC.

CHISUM TRANSITION (LATVE3.CME)

TAKEOFF OBSTACLE NOTES

Rwy 4: Light poles beginning 1053' from DER, 746' left of centerline, 39' AGL/3986' MSL.

Rwy 26L: Light poles beginning 1248' from DER, 614' left of centerline, 60' AGL/3983' MSL.

Windsock 113' from DER, 295' right of centerline, 20' AGL/3943' MSL.

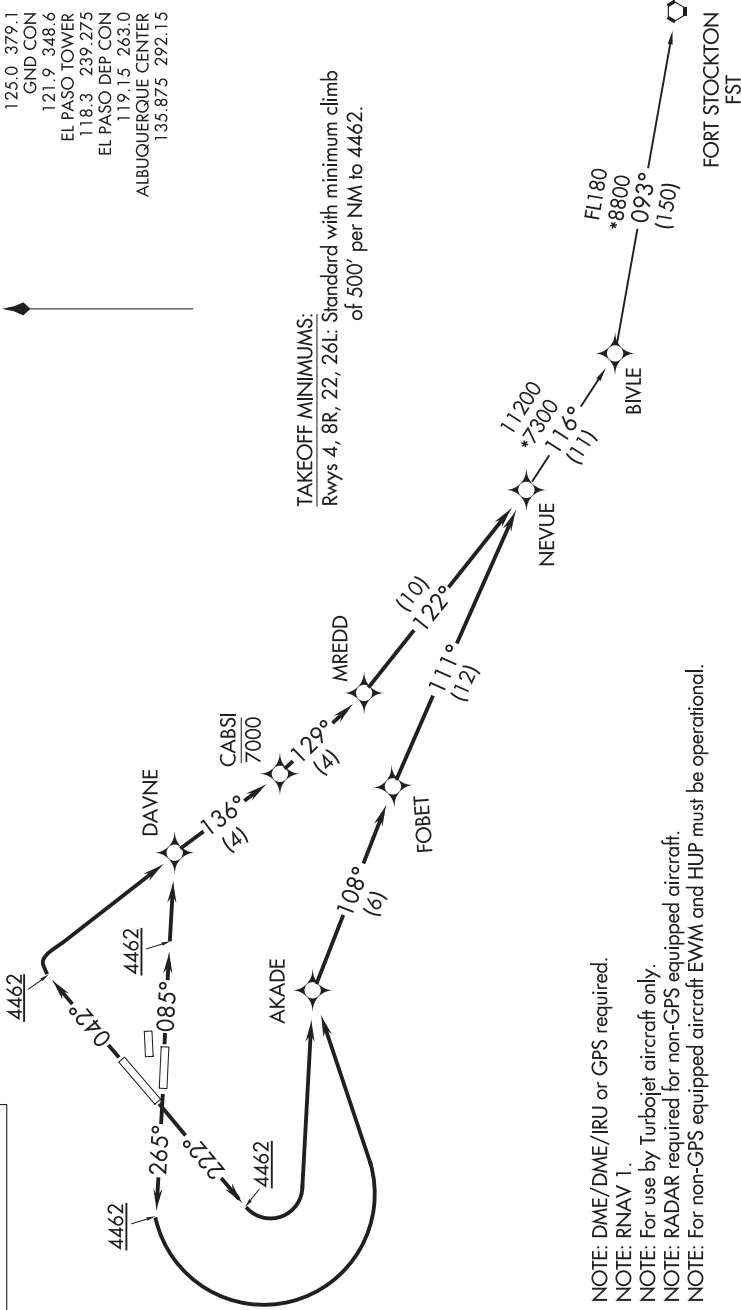
Rwy 22: Utility pedestal 30' from DER, 205' right of centerline 4' AGL/3918' MSL.

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

NEVUE THREE DEPARTURE(RNAV)

ATIS 120.0 254.3
 CLNC DEL 125.0 379.1
 GND CON 121.9 348.6
 EL PASO TOWER 118.3 239.275
 EL PASO DEP CON 119.15 263.0
 ALBUQUERQUE CENTER 135.875 292.15



TAKEOFF MINIMUMS:
 Rwys 4, 8R, 22, 26L: Standard with minimum climb
 of 500' per NM to 4462.

TOP ALTITUDE:
 Assigned by ATC

- NOTE: DME/DME/IRU or GPS required.
- NOTE: RNAV 1.
- NOTE: For use by Turbojet aircraft only.
- NOTE: RADAR required for non-GPS equipped aircraft.
- NOTE: For non-GPS equipped aircraft EWM and HUP must be operational.

(NARRATIVE ON FOLLOWING PAGE)
 (NOTES CONTINUED ON FOLLOWING PAGE)

NOTE: Chart not to scale.

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

NEVUE THREE DEPARTURE (RNAV)



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 4: Climb heading 042° to 4462, then right turn direct DAVNE, then on track 136° to cross CABSI at or below 7000, then on track 129° to MREDD, then on track 122° to NEUVE. Thence. . . .

TAKEOFF RWY 8R: Climb heading 085° to 4462, then direct DAVNE, then on track 136° to cross CABSI at or below 7000, then on track 129° to MREDD, then on track 122° to NEUVE. Thence. . . .

TAKEOFF RWY 22: Climb heading 222° to 4462, then left turn direct AKADE, then on track 108° to FOBET, then on track 111° to NEVUE. Thence. . . .

TAKEOFF RWY 26L: Climb heading 265° to 4462, then left turn direct AKADE, then on track 108° to FOBET, then on track 111° to NEVUE. Thence. . . .

. . . .on depicted route to FST VORTAC.

FT STOCKTON TRANSITION (NEVUE3.FST)

TAKEOFF OBSTACLE NOTES

- Rwy 4: Light poles beginning 1053' from DER, 746' left of centerline, 39' AGL/3986' MSL.
- Rwy 26L: Light poles beginning 1248' from DER, 614' left of centerline, 60' AGL/3983' MSL.
Windsock 113' from DER, 295' right of centerline, 20' AGL/3943' MSL.
- Rwy 22: Utility pedestal 30' from DER, 205' right of centerline, 4' AGL/3918' MSL.

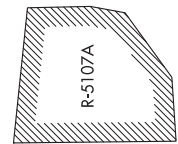
SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

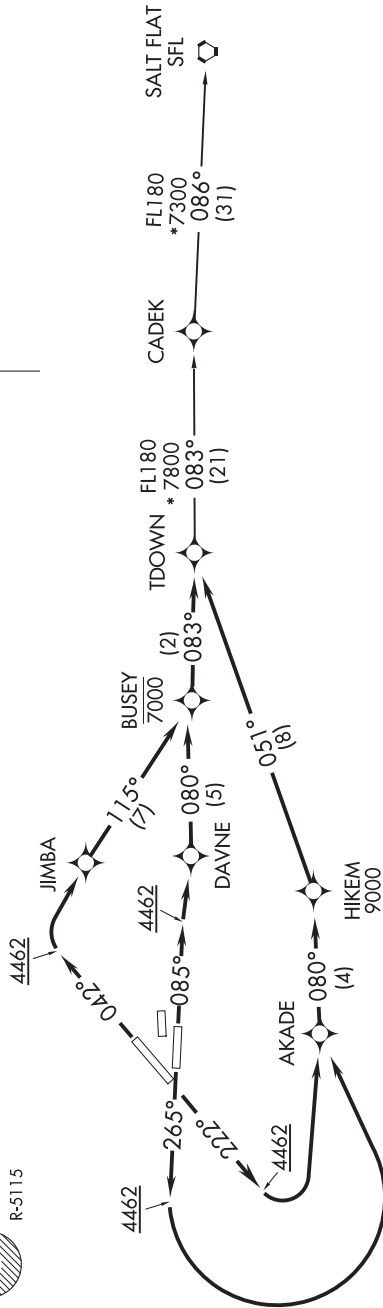
TDOWN THREE DEPARTURE (RNAV)

SC-3, 10 NOV 2016 to 05 JAN 2017

**TOP ALTITUDE:
Assigned by ATC**



ATIS 120.0 254.3
 CLNC DEL 125.0 379.1
 GND CON 121.9 348.6
 EL PASO TOWER 118.3 239.275
 EL PASO DEP CON 119.15 263.0
 ABO CENTER 135.875 292.15



NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV 1.
NOTE: For use by Turbojet aircraft only.
NOTE: RADAR required for non-GPS equipped aircraft.

TAKEOFF MINIMUMS
 Rwy 4, 8R: Standard with a minimum climb of 500' per NM to 4462.
 Rwy 22, 26L: Standard with a minimum climb of 500' per NM to 9000.

(NARRATIVE ON FOLLOWING PAGE)
 (NOTES CONTINUED ON FOLLOWING PAGE)

NOTE: Chart not to scale.

SC-3, 10 NOV 2016 to 05 JAN 2017

TDOWN THREE DEPARTURE (RNAV)



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 4: Climb heading 042° to 4462, then right turn direct JIMBA, then on track 115° to cross BUSEY at or below 7000, then on track 083° to TDOWN. Thence

TAKEOFF RWY 8R: Climb heading 085° to 4462, then direct DAVNE, then on track 080° to cross BUSEY at or below 7000, then on track 083° to TDOWN. Thence

TAKEOFF RWY 22: Climb heading 222° to 4462, then left turn direct AKADE, then on track 080° to cross HIKEM at or above 9000, then on track 051° to TDOWN. Thence

TAKEOFF RWY 26L: Climb heading 265° to 4462, then left turn direct AKADE, then on track 080° to cross HIKEM at or above 9000, then on track 051° to TDOWN. Thence

. . . . on depicted route to SFL VORTAC.

SALT FLAT TRANSITION (TDOWN3.SFL)

TAKEOFF OBSTACLE NOTES

Rwy 4: Light poles beginning 1053' from DER, 746' left of centerline, 39' AGL/3986' MSL.

Rwy 26L: Light poles beginning 1248' from DER, 614' left of centerline, 60' AGL/3983' MSL.

Windsock 113' from DER, 295' right of centerline, 20' AGL/3943' MSL.

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SC-3, 10 NOV 2016 to 05 JAN 2017

FALFURRIAS, TEXAS

AL-6117 (FAA)

15288

APP CRS 174°	Rwy Idg 6006
	TDZE 113
	Apt Elev 113

RNAV (GPS) RWY 17

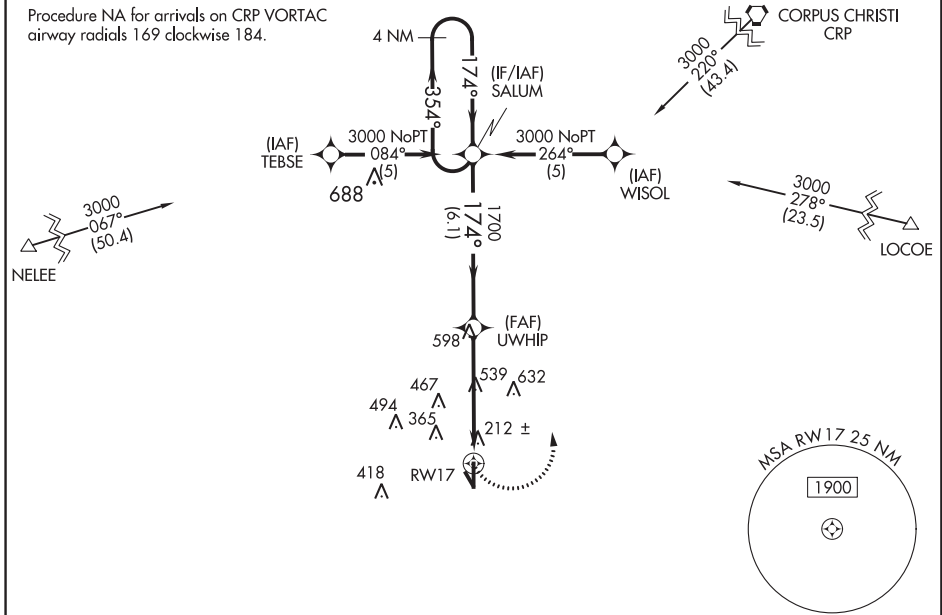
BROOKS COUNTY (BKS)

T DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Alice altimeter setting and increase all MDA 100 feet and increase Cat B visibility ¼ mile, Cat C and D visibility ½ mile. VDP NA when using Alice altimeter setting. Circling NA for Cat D west of Rwy 17-35.

MISSED APPROACH: Climbing left turn to 3000 direct SALUM and hold.

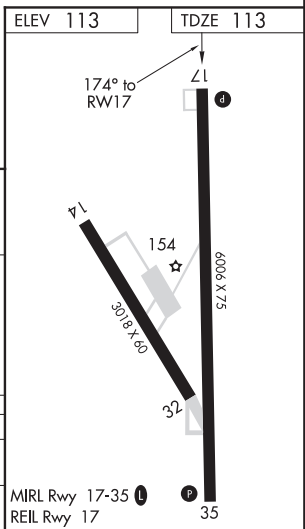
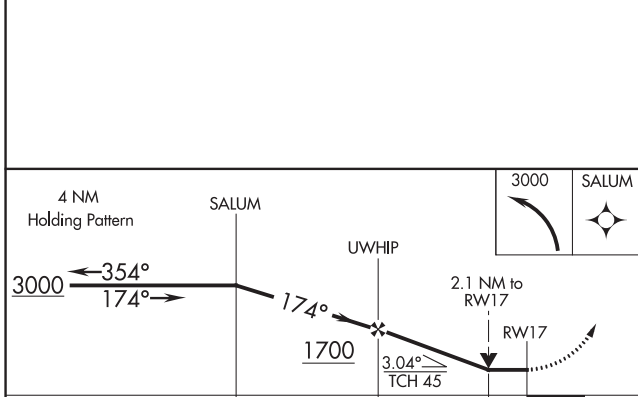
AWOS-3 118.125	KINGSVILLE APP CON * 119.9 290.45	UNICOM 122.8 (CTAF) 0
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Procedure NA for arrivals on CRP VORTAC airway radials 169 clockwise 184.



SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017



CATEGORY	A	B	C	D
LNVA MDA	840-1 727 (800-1)		840-2 727 (800-2)	840-2¼ 727 (800-2¼)
CIRCLING	840-1 727 (800-1)		840-2 727 (800-2)	840-2¼ 727 (800-2¼)

MIRL Rwy 17-35 0
REL Rwy 17 35

FALFURRIAS, TEXAS
Orig 07MAY09

27°12'N-98°07'W

RNAV (GPS) RWY 17

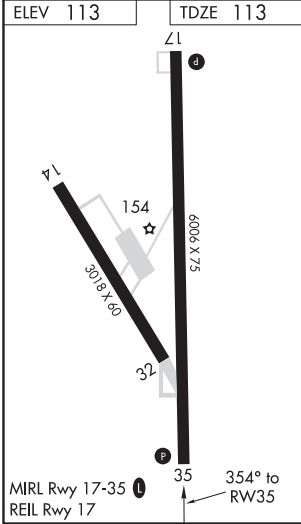
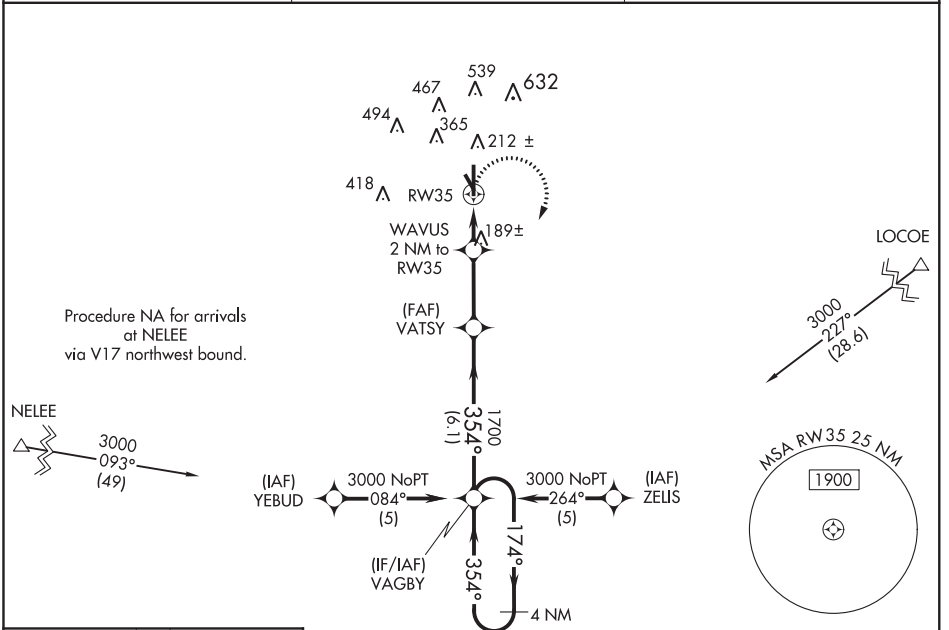
BROOKS COUNTY (BKS)

APP CRS 354°	Rwy Idg TDZE Apt Elev	6006 113 113
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RNAV (GPS) RWY 35

BROOKS COUNTY (BKS)

<p>T DME/DME RNP-0.3 NA. Helicopter visibility reduction below 3/4 SM NA. When local altimeter setting not received, use Alice altimeter setting and increase all MDA 100 feet; increase LNAV Cat C/D and Circling Cat C visibility 1/4 mile. VDP NA when using Alice altimeter setting. Circling NA for Cat D west of Rwy 17-35.</p>	<p>MISSED APPROACH: Climbing right turn to 3000 direct VAGBY and hold.</p>	
<p>AWOS-3 118.125</p>	<p>KINGSVILLE APP CON * 119.9 290.45</p>	<p>UNICOM 122.8 (CTAF) 0</p>



3000	VAGBY	WAVUS 2 NM to RW35	VATSY	VAGBY	4 NM Holding Pattern
1.1	0.9	2.8 NM	6.1 NM		
<p>1.1 NM to RW35</p> <p>3.04° TCH 45</p> <p>800</p> <p>1700</p> <p>354°</p> <p>174°</p> <p>3000</p>					
CATEGORY	A	B	C	D	
LNAV MDA	520-1	407 (500-1)	520-1 1/4	407 (500-1 1/4)	
CIRCLING	600-1	487 (500-1)	680-1 1/2	680-2	567 (600-2)

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SC-3, 10 NOV 2016 to 05 JAN 2017

LOC/DME I-BTJ 109.35 Chan 30 (Y)	APP CRS 330°	Rwy Idg TDZE Apt Elev	9806 995 1015
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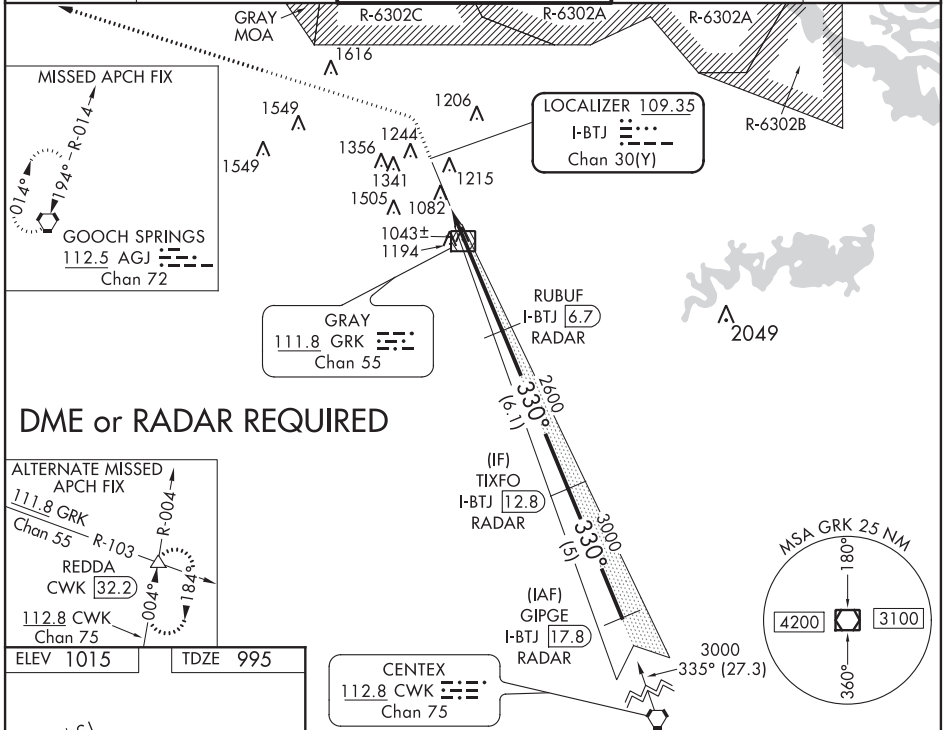
ILS or LOC RWY 33

FORT HOOD/KILLEEN/ ROBERT GRAY AAF (GRK)

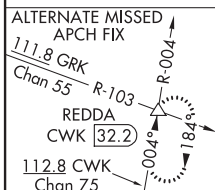
⚠ Circling NA W of Rwy 15-33. For inoperative MALS/R, increase S-ILS 33 Cat E visibility ¼ mile and S-LOC 33 Cat E visibility ½ mile. DME or RADAR required.

MALS/R **MISSED APPROACH:** Climb to 2000 then climbing left turn to 3000 direct AGJ VORTAC and hold.

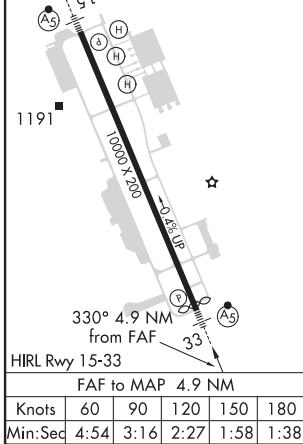
ATIS 124.9	GRAY APP CON 120.075 323.15	GRAY TOWER 120.75 285.5	GND CON 126.2 279.5	CLNC DEL 121.8 251.1
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DME or RADAR REQUIRED



ELEV 1015	TDZE 995
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2000	3000	AGJ	VGSI and ILS glidepath not coincident (VGSI Angle 2.77/TCH 52).				
			RUBUF I-BTJ 6.7 RADAR	TIXFO I-BTJ 12.8 RADAR	GIPGE I-BTJ 17.8 RADAR		
	I-BTJ 2.9	2600	330°	3000	330°	3000	GS 3.00° TCH 50
	1.1 NM	3.8 NM	6.1 NM	5 NM			
CATEGORY	A	B	C	D	E		
S-ILS 33	1195-½		200 (200-½)				
S-LOC 33	1360-½ 365 (400-½)		1360-¾ 365 (400-¾)				
CIRCLING	1540-1	525 (600-1)	1560-½ 545 (600-½)	1580-2 565 (600-2)	1740-2½ 725 (800-2½)		

SC-3, 10 NOV 2016 to 05 JAN 2017


SC-3, 10 NOV 2016 to 05 JAN 2017

WAAS CH 78099 W15A	APP CRS 150°	Rwy Idg TDZE 1015 Apt Elev 1015	10000
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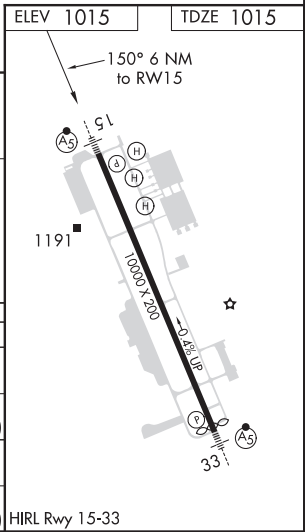
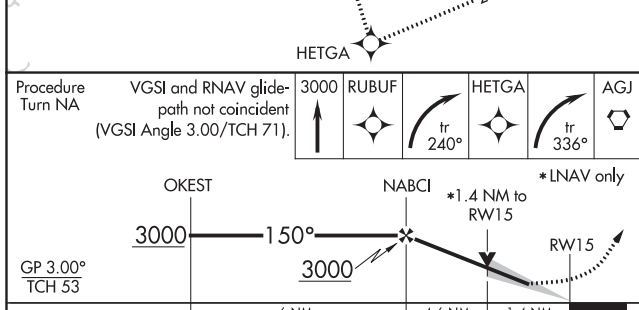
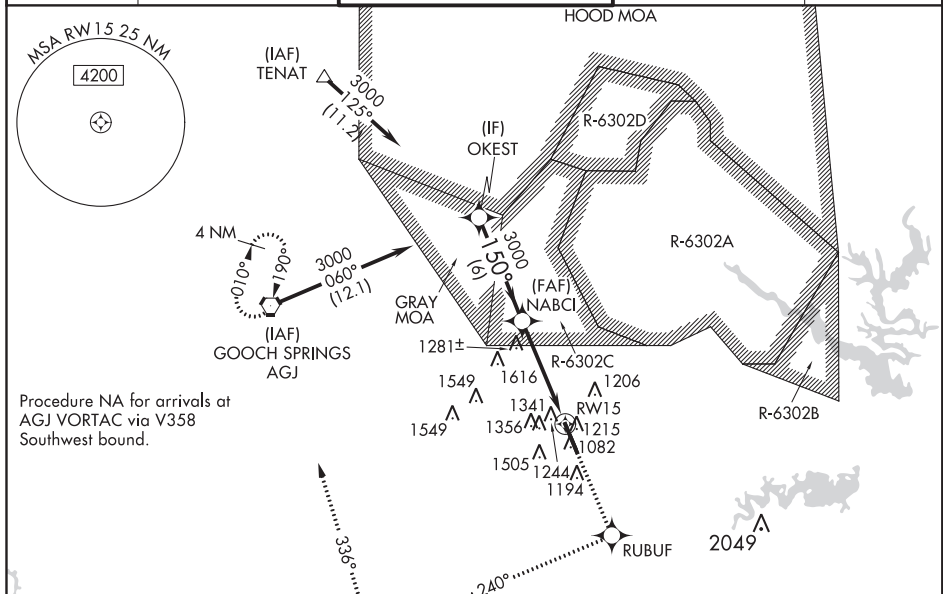
RNAV (GPS) RWY 15

FORT HOOD/KILLEEN/ ROBERT GRAY AAF (GRK)

⚠ Circling NA W of Rwy 15-33. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 47°C (116°F). DME/DME RNP-0.3 NA. For inoperative MALSR, increase LNAV/VNAV Cat E visibility ½ mile and LNAV Cat E visibility ½ mile.

MALSR
 MISSED APPROACH: Climb to 3000 direct RUBUF and right turn via track 240° to HETGA and right turn via track 336° to AGJ VORTAC and hold.

ATIS 124.9	GRAY APP CON 120.075 323.15	GRAY TOWER 120.75 285.5	GND CON 126.2 279.5	CLNC DEL 121.8 251.1
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CATEGORY	A	B	C	D	E
LPV DA	1271/24		256 (300-½)		
LNAV/VNAV DA	1547/60		532 (600-1¼)		1547-1½ 532 (600-1½)
LNAV MDA	1540/24	525 (600-½)	1540/50 525 (600-1)	1540/60	525 (600-1¼)
CIRCLING	1540-1	525 (600-1)	1560-1½ 545 (600-1½)	1580-2 565 (600-2)	1740-2½ 725 (800-2½)

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

FORT HOOD/KILLEEN, TEXAS

AL-906 (FAA)


15260

VOR/DME GRK	APP CRS	Rwy Idg	10000
111.8	152°	TDZE	1015
Chan 55		Apt Elev	1015

VOR/DME RWY 15

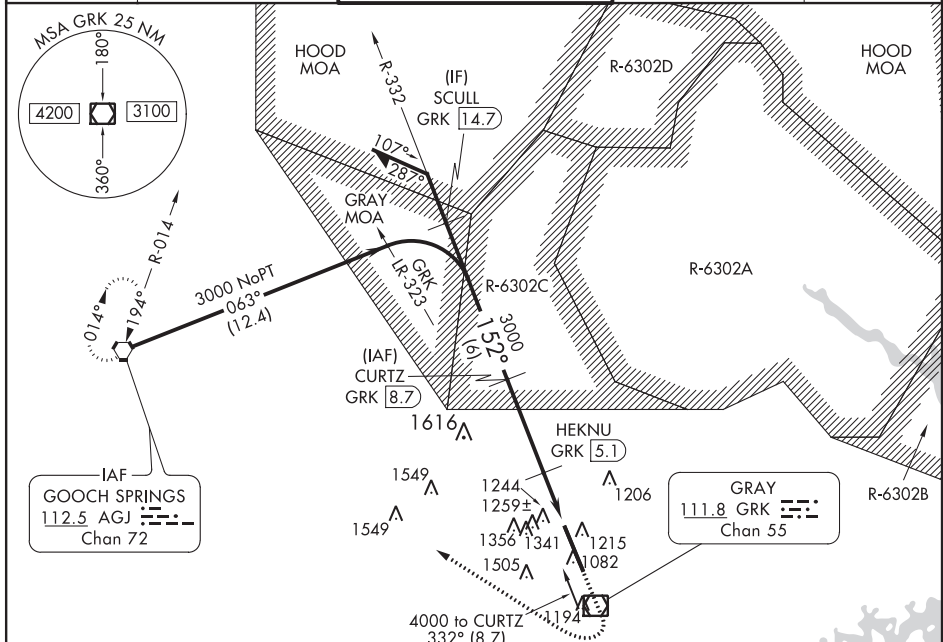
FORT HOOD/KILLEEN/ ROBERT GRAY AAF (GRK)

NA Circling NA W of Rwy 15-33. For inoperative MALSR, increase S-15 Cat E visibility ½ mile.

MALSR 

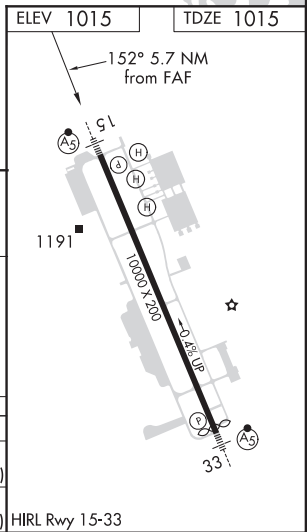
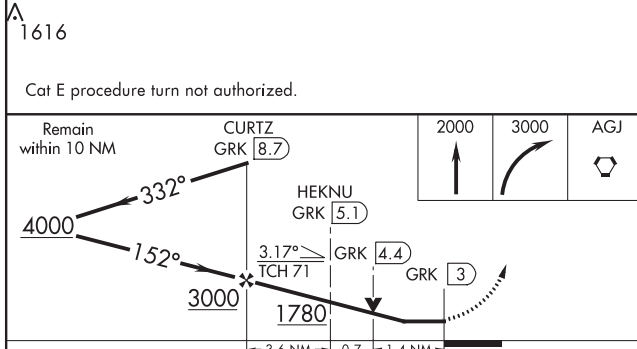
MISSED APPROACH: Climb to 2000 then climbing right turn to 3000 direct AGJ VORTAC and hold.

ATIS	GRAY APP CON	GRAY TOWER	GND CON	CLNC DEL
124.9	120.075 323.15	120.75 285.5	126.2 279.5	121.8 251.1



1616

Cat E procedure turn not authorized.



CATEGORY	A	B	C	D	E
S-15	1520/24 505 (600-½)		1520/50 505 (600-1)		1520/60 505 (600-1¼)
CIRCLING	1540-1 525 (600-1)		1560-1½ 545 (600-1½)	1580-2 565 (600-2)	1740-2½ 725 (800-2½)

HIRL Rwy 15-33

FORT HOOD/KILLEEN, TEXAS
Amdt 3A 17SEP15

FORT HOOD/KILLEEN/ ROBERT GRAY AAF (GRK)
31°04' N-97°50' W

VOR/DME RWY 15

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

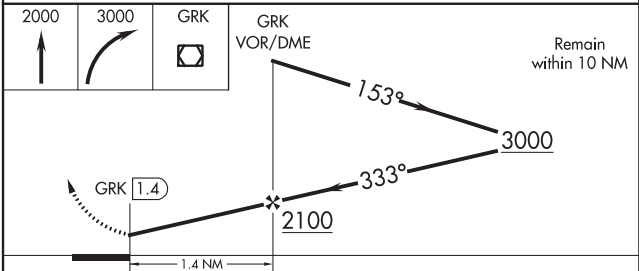
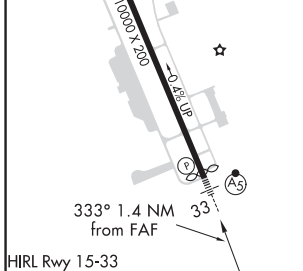
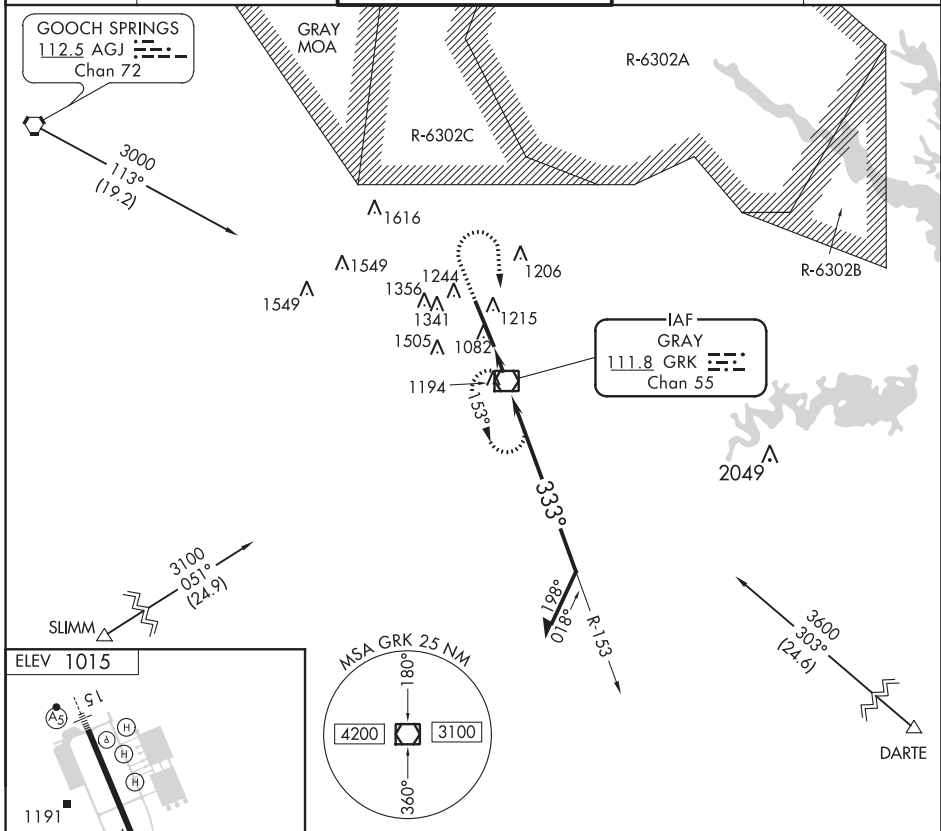
VOR/DME GRK 111.8 Chan 55	APP CRS 333°	Rwy Idg TDZE Apt Elev	N/A N/A 1015
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VOR-A

FORT HOOD/KILLEEN/ ROBERT GRAY AAF (GRK)

NA ASR/PAR	Circling NA W of Rwy 15-33.	MALSR	MISSED APPROACH: Climb to 2000 then climbing right turn to 3000 direct GRK VOR/DME and hold.
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ATIS 124.9	GRAY APP CON 120.075 323.15	GRAY TOWER 120.75 285.5	GND CON 126.2 279.5	CLNC DEL 121.8 251.1
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FAF to MAP 1.4 NM		CATEGORY	A	B	C	D
Knots	60 90 120 150 180	CIRCLING	1540-1	525 (600-1)	1560-1½ 545 (600-1½)	1580-2 565 (600-2)
Min:Sec	1:24 0:56 0:42 0:34 0:28					

VOR-A

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

LOM GR 323	APP CRS 150°	Rwy Idg 10000 TDZE 1015 Apt Elev 1015
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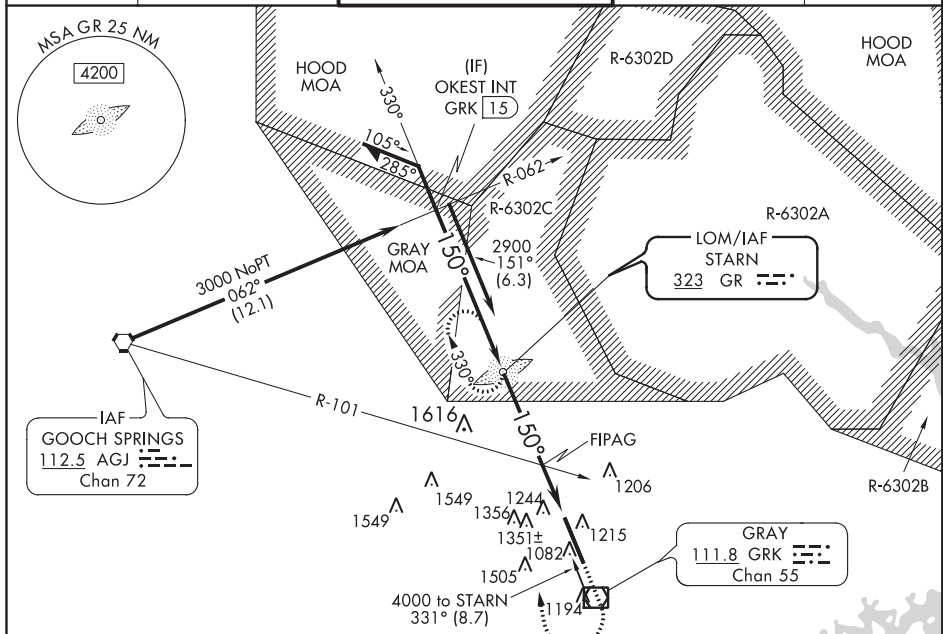
NDB RWY 15

FORT HOOD/KILLEEN/ ROBERT GRAY AAF (GRK)

⚠ Inoperative table does not apply to S-15 Cat A, B and FIPAG fix minimums S-15 Cat A, B. Circling NA W of Rwy 15-33. For inoperative MALSR, increase all S-15 Cat D and E visibilities ¼ mile.

MALSR MISSED APPROACH: Climb to 2000 then climbing right turn to 3000 direct STARN LOM and hold.

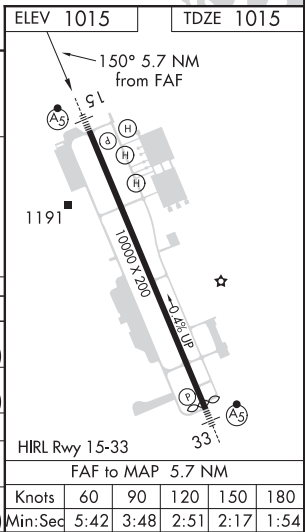
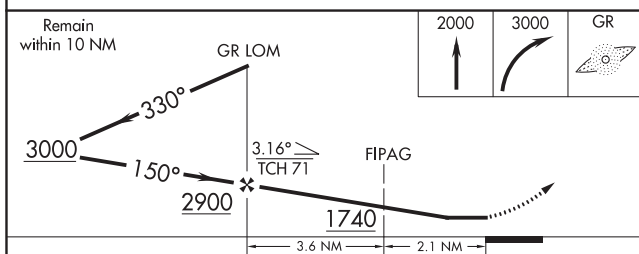
ATIS 124.9	GRAY APP CON 120.075 323.15	GRAY TOWER 120.75 285.5	GND CON 126.2 279.5	CLNC DEL 121.8 251.1
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SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

Cat E procedure turn not authorized.



CATEGORY	A	B	C	D	E
S-15	1740/40	725 (800-¾)	1740-1½ 725 (800-1½)	1740-2 725 (800-2)	1740-2¼ 725 (800-2¼)
CIRCLING	1740-1	725 (800-1)	1740-2 725 (800-2)	1740-2½ 725 (800-2½)	1740-2½ 725 (800-2½)
FIPAG FIX MINIMUMS					
S-15	1660/40	645 (700-¾)	1660/60 645 (700-1¼)	1660-1¾ 645 (700-1¾)	1660-2 645 (700-2)
CIRCLING	1660-1	645 (700-1)	1660-1¾ 645 (700-1¾)	1660-2 645 (700-2)	1740-2½ 725 (800-2½)

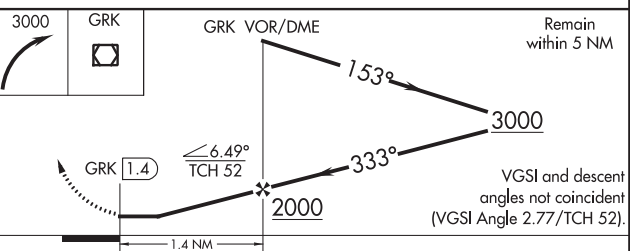
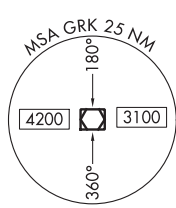
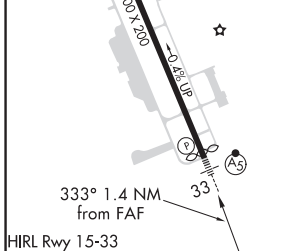
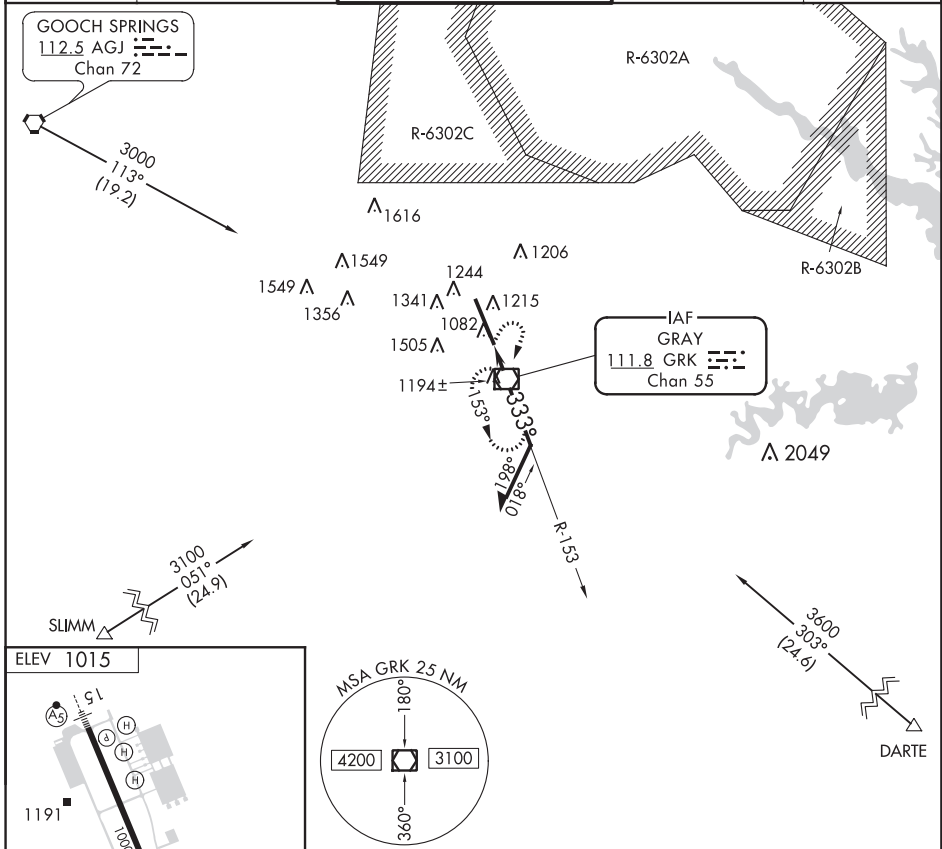
VOR/DME GRK 111.8 Chan 55	APP CRS 333°	Rwy Idg TDZE Apt Elev	9806 N/A 1015
---	------------------------	-----------------------------	--

COPTER VOR RWY 33

FORT HOOD/KILLEEN/ ROBERT GRAY AAF (GRK)

		MISSED APPROACH: Climbing right turn to 3000 direct GRK VOR/DME and hold.
--	--	---

ATIS 124.9	GRAY APP CON 120.075 323.15	GRAY TOWER 120.75 285.5	GND CON 126.2 279.5	CLNC DEL 121.8 251.1
----------------------	---------------------------------------	-----------------------------------	-------------------------------	--------------------------------



FAF to MAP 1.4 NM					CATEGORY	COPTER	
Knots	45	60	75	90	H-33	1460-¼ 465 (500-¼)	
Min:Sec	1:52	1:24	1:07	0:56				0:48

COPTER VOR RWY 33

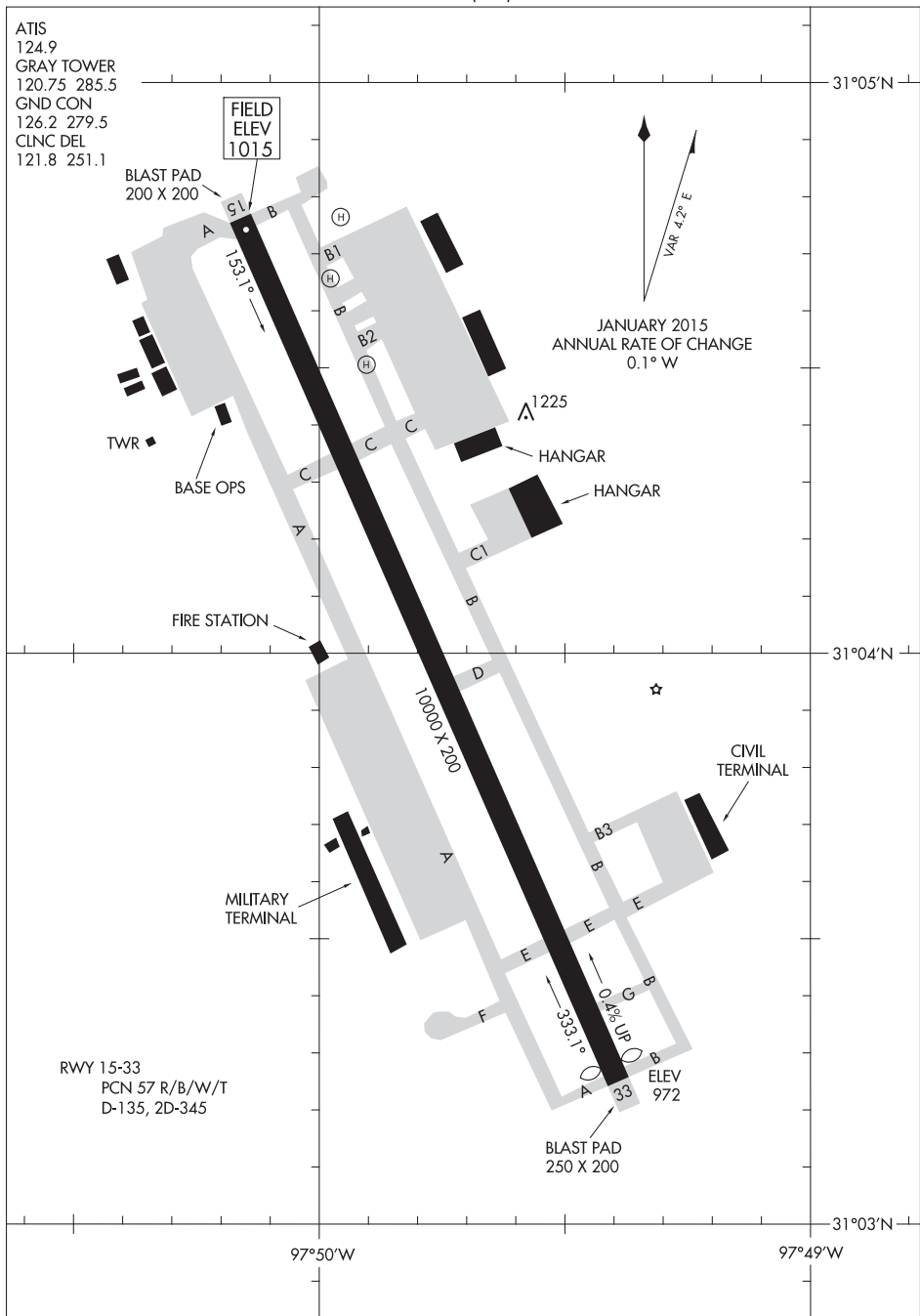
SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

AIRPORT DIAGRAM

ROBERT GRAY AAF (GRK)
FORT HOOD/KILLEEN, TEXAS

AL-906 (FAA)



SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

AIRPORT DIAGRAM

FORT HOOD/KILLEEN, TEXAS
ROBERT GRAY AAF (GRK)

CONRA TWO DEPARTURE

SL-906 (FAA)

FORT HOOD/KILLEEN/ROBERT GRAY AAF (GRK)

FORT HOOD/KILLEEN, TEXAS

210Z NAT 2016 VON 2016 to 05 JAN 2017

TOP ALTITUDE:

12000

DEPARTURE ROUTE DESCRIPTION

Climb on assigned heading for RADAR vectors to CONRA INT, maintain 3500. Thence

. . . . (transition). Expect filed altitude 10 minutes after departure.

COLLEGE STATION TRANSITION (CONRA2.CLI): From over

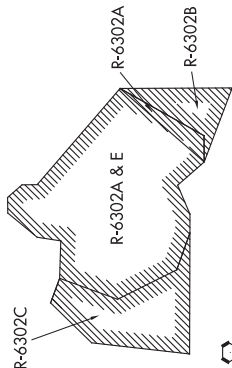
CONRA INT via CLL R-287 to CLL VORTAC.

LEONA TRANSITION (CONRA2.LOA): From over CONRA INT via LOA R-257 to LOA VORTAC.

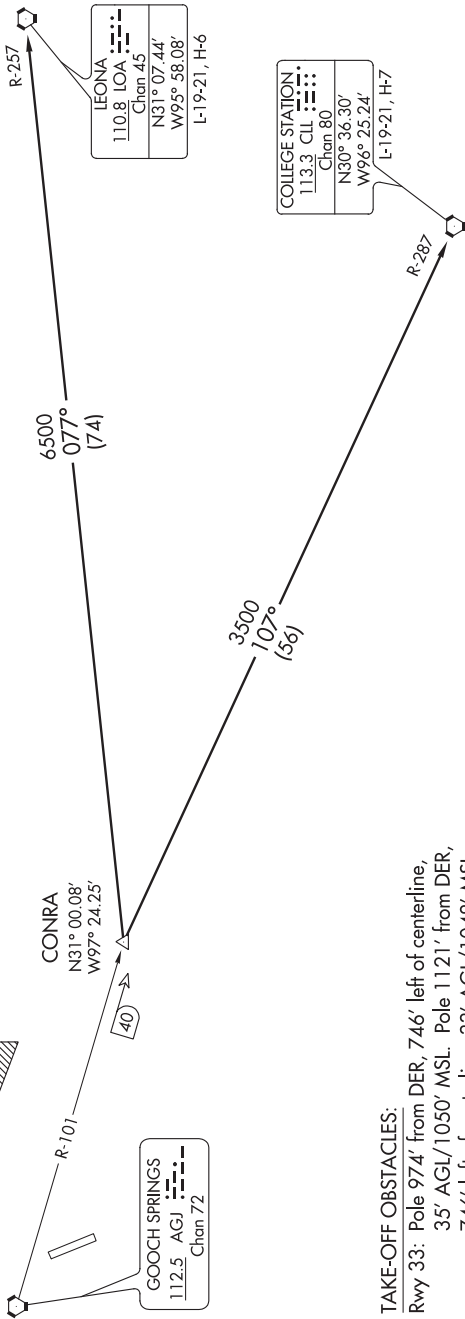
TAKE-OFF MINIMUMS:
Rwy 15, 33, Standard.

- ATIS 124.9
- CLNC DEL 121.8 251.1
- GND CON 126.2 279.5
- GRAY TOWER 120.75 285.5
- GRAY DEP CON 120.075 323.15
- 120.75 285.5

N



NOTE: RADAR Required.



CONRA
N31° 00.08'
W97° 24.25'

6500
077°
(74)

3500
107°
(56)

LEONA
110.8 LOA
Chan 45
N31° 07.44'
W95° 58.08'
L-19-21, H-6

COLLEGE STATION
113.3 CLL
Chan 80
N30° 36.30'
W96° 25.24'
L-19-21, H-7

GOOCH SPRINGS
112.5 AGJ
Chan 72

TAKE-OFF OBSTACLES:

Rwy 33: Pole 974' from DER, 746' left of centerline, 35' AGL/1050' MSL. Pole 1121' from DER, 746' left of centerline, 33' AGL/1048' MSL.

NOTE: Chart not to scale.

CONRA TWO DEPARTURE

(CONRA2.CONRA) 21JUL16

FORT HOOD/KILLEEN, TEXAS

FORT HOOD/KILLEEN/ROBERT GRAY AAF (GRK)

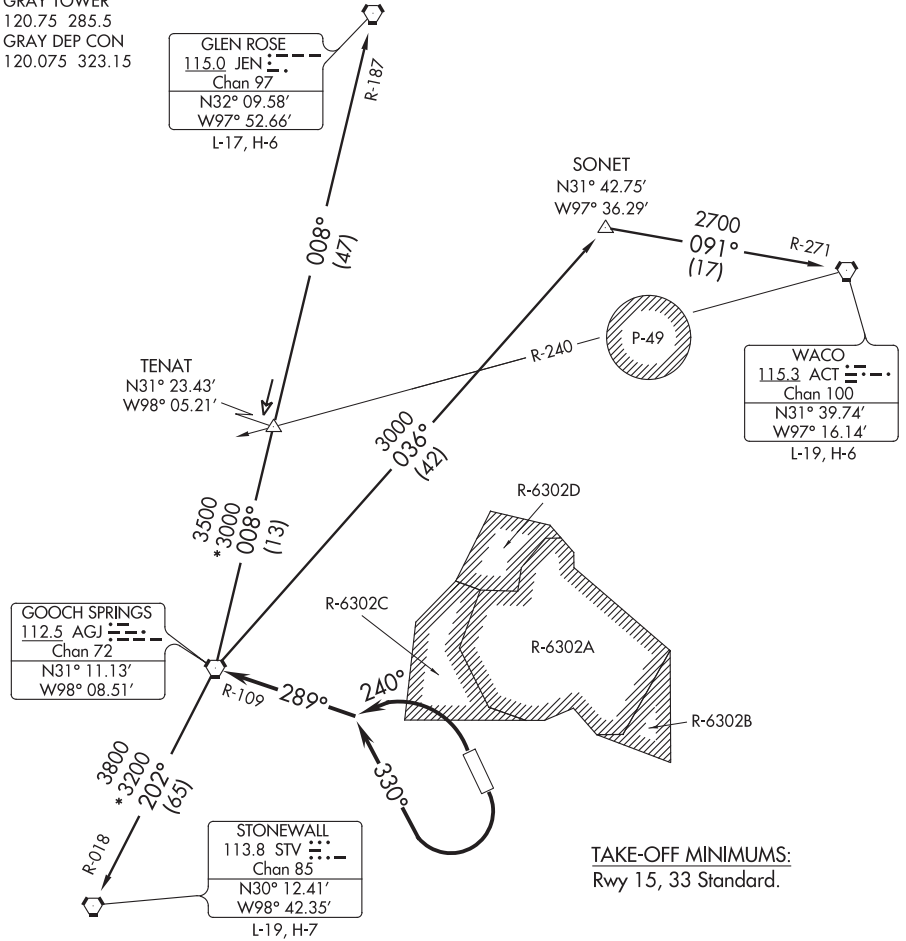
SC-3, 10 NOV 2016 to 05 JAN 2017

LAMP5 FIVE DEPARTURE

**TOP ALTITUDE:
12000**

ATIS 124.9
CLNC DEL
121.8 251.1
GND CON
126.2 279.5
GRAY TOWER
120.75 285.5
GRAY DEP CON
120.075 323.15

NOTE: RADAR Required.
NOTE: MRA at TENAT Int 4000 for Non-DME aircraft.



SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

TAKE-OFF OBSTACLES:

Rwy 33, Pole 974' from DER, 746' left of centerline, 35' AGL/1050' MSL.
Pole 1121' from DER, 746' left of centerline, 33' AGL/1048' MSL.

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.

LAMPS FIVE DEPARTURE



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 15: Climbing right turn heading 330° (to assigned altitude), to intercept and proceed on AGJ R-109. Thence

TAKE-OFF RWY 33: Climbing left turn heading 240° (to assigned altitude), to intercept and proceed on AGJ R-109. Thence

. . . . on (transition) or (assigned route).

GLEN ROSE TRANSITION (LAMPS5.JEN): (For aircraft inbound to Dallas/Fort Worth terminal area airports.) From over AGJ VORTAC on AGJ R-008 and JEN R-187 to JEN VORTAC.

STONEWALL TRANSITION (LAMPS5.STV): From over AGJ VORTAC on AGJ R-202 and STV R-018 to STV VORTAC.

WACO TRANSITION (LAMPS5.ACT): (For aircraft inbound to terminal area airports.) From over AGJ VORTAC on AGJ R-036 to SONET INT, then on ACT R-271 to ACT VORTAC.

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

FORT STOCKTON, TEXAS

AL-5350 (FAA)

16035

WAAS CH 78014 W12A	APP CRS 117°	Rwy Idg 7508 TDZE 3002 Apt Elev 3011
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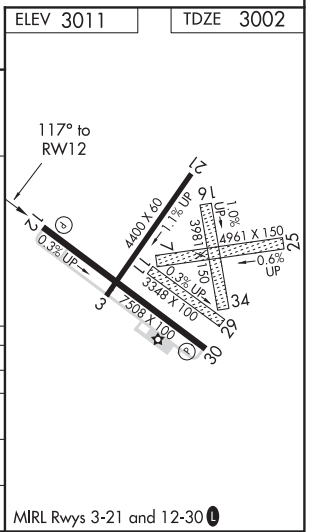
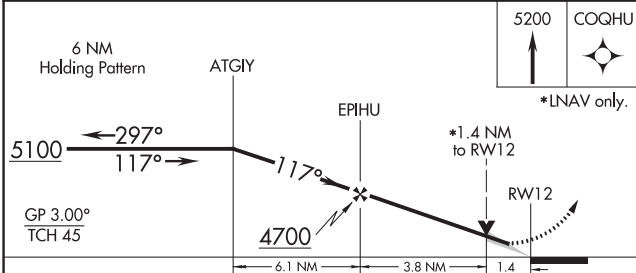
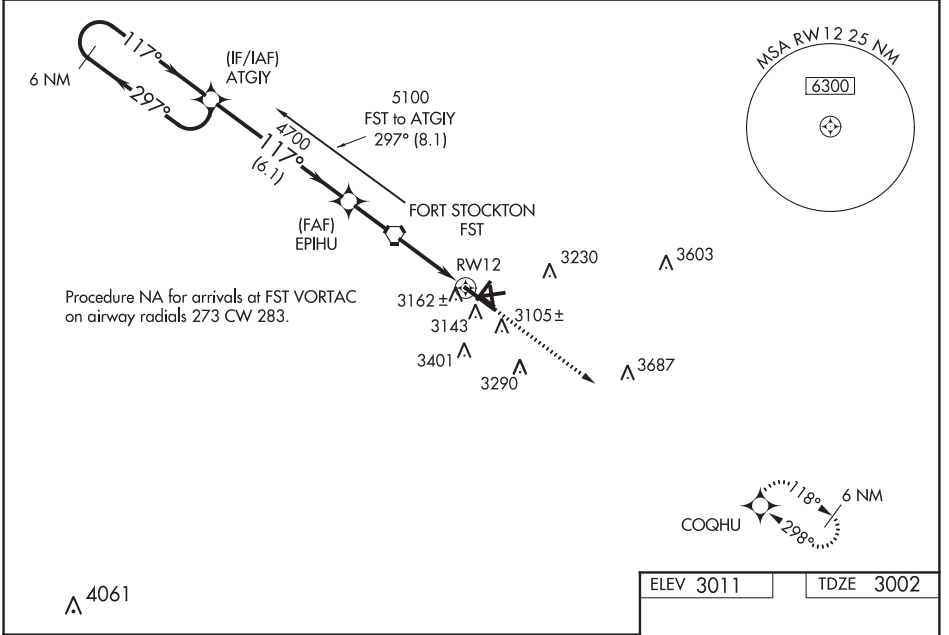
RNAV (GPS) RWY 12

FORT STOCKTON-PECOS COUNTY (FST)

⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -21°C (-5°F) or above 43°C (109°F). DME/DME RNP-0.3 NA. When local altimeter setting not received, use Pecos altimeter setting and increase all DA 152 feet and all MDA 160 feet, increase LPV visibility ½ mile all Cats, LNAV/VNAV visibility ½ mile all Cats, LNAV Cat C/D visibility ½ mile, Circling Cat C visibility ¾ mile, Cat D visibility ½ mile. Baro-VNAV and VDP NA when using Pecos altimeter setting. Circling to Rwy 11-29, 7-25, 16-34 NA. Circling to Rwy 30 NA at night.

MISSED APPROACH: Climb to 5200 direct COQHU and hold.

ASOS 118.525	ALBUQUERQUE CENTER 135.875 292.15	UNICOM 122.8 (CTAF) 0
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CATEGORY	A	B	C	D
LPV DA	3252-1 250 (300-1)			
LNAV/VNAV DA	3409-1½ 407 (400-1½)			
LNAV MDA	3480-1	478 (500-1)	3480-1¼ 478 (500-1¼)	3480-1½ 478 (500-1½)
CIRCLING	3540-1	529 (600-1)	3600-1½ 589 (600-1½)	3760-2½ 749 (800-2½)

FORT STOCKTON, TEXAS
Amdt 1 29AUG09

30°55'N-102°55'W

FORT STOCKTON-PECOS COUNTY (FST) RNAV (GPS) RWY 12

SC-3, 10 NOV 2016 to 05 JAN 2017

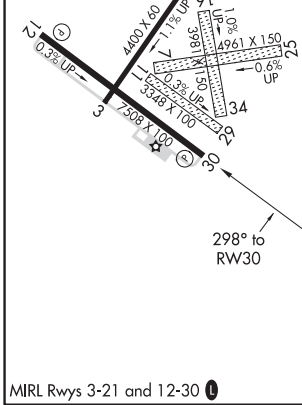
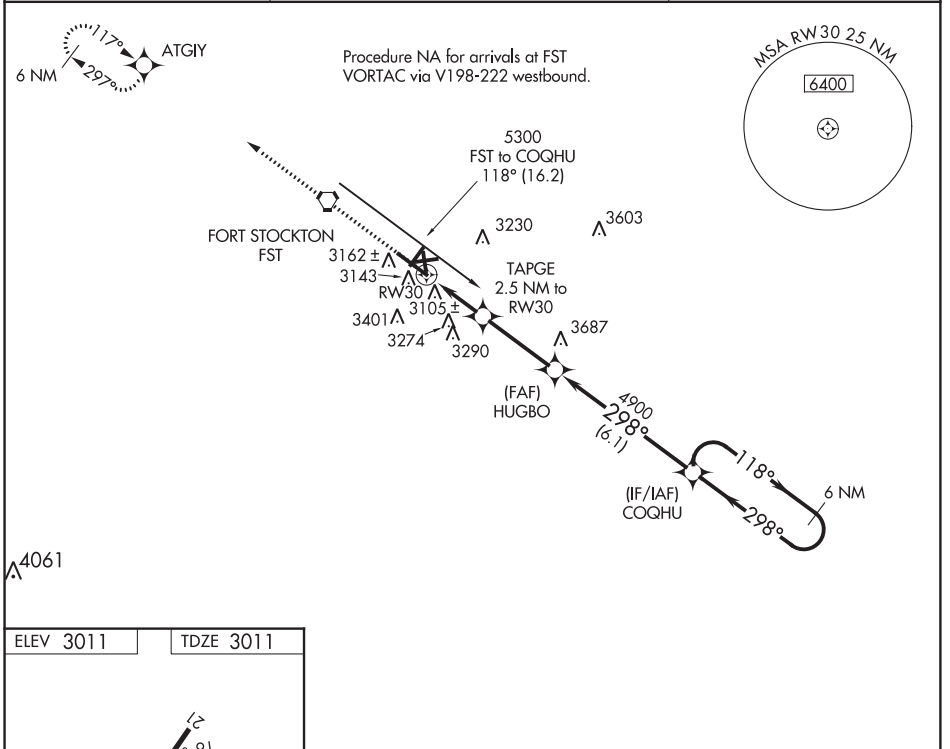
SC-3, 10 NOV 2016 to 05 JAN 2017

APP CRS	Rwy Idg	7508
298°	TDZE	3011
	Apt Elev	3011

RNAV (GPS) RWY 30

FORT STOCKTON-PECOS COUNTY (FST)

<p>▼ DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Pecos altimeter setting and increase all MDA 160 feet, increase LNAV Cat C/D visibility ½ mile, Circling Cat C visibility ¾ mile, Cat D visibility ½ mile. Circling to Rwy 11-29, 7-25, 16-34 NA. Procedure NA at night.</p>		<p>MISSED APPROACH: Climb to 5100 direct ATGIY and hold.</p>
<p>ASOS 118.525</p>	<p>ALBUQUERQUE CENTER 135.875 292.15</p>	<p>UNICOM 122.8 (CTAF) 0</p>



5100	ATGIY	VGSi and descent angles not coincident. (VGSi Angle 3.00/TCH 40).		6 NM Holding Pattern
		TAPGE 2.5 NM to RW30	HUGBO 4900	COQHU 5300
		RW30		
		3860	4900	
		2.5 NM	3.2 NM	6.1 NM
CATEGORY	A	B	C	D
LNAV MDA	3500-1	489 (500-1)	3500-1¼ 489 (500-1¼)	3500-1½ 489 (500-1½)
CIRCLING	3540-1	529 (600-1)	3600-1½ 589 (600-1½)	3760-2½ 749 (800-2½)

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

FORT STOCKTON, TEXAS

AL-5350 (FAA)

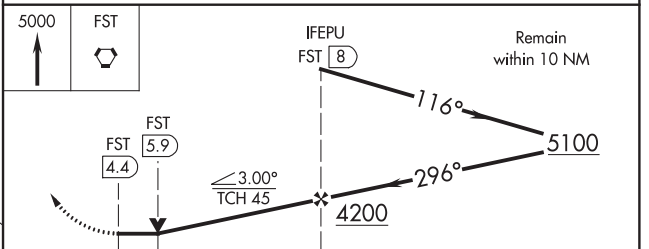
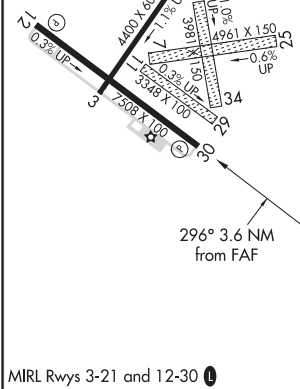
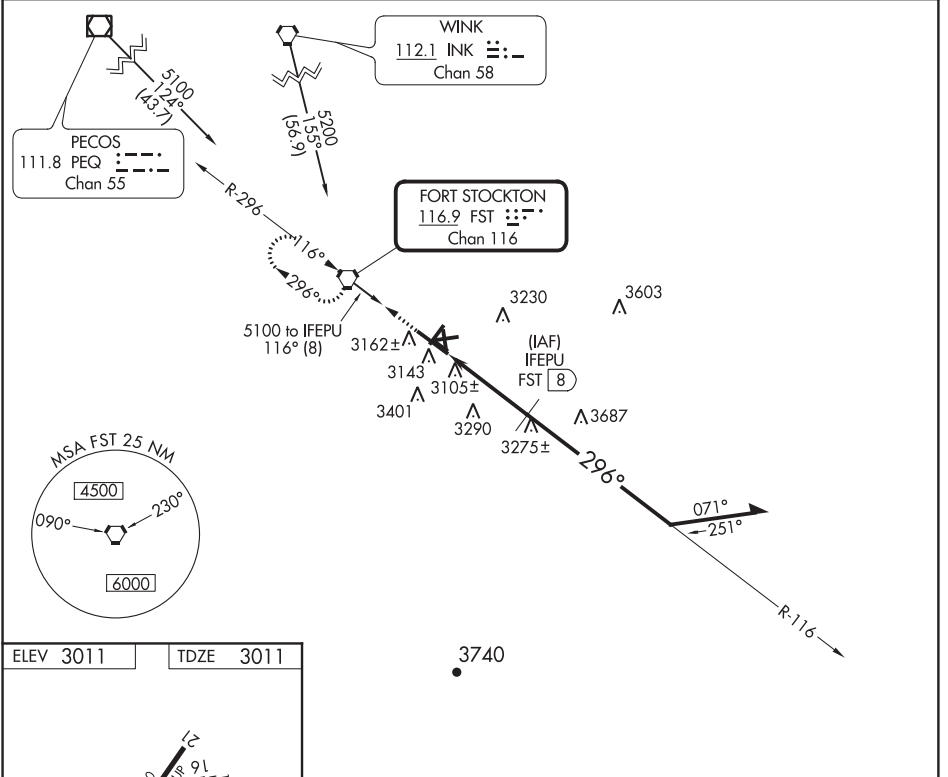
16203

VOR/DME RWY 30
FORT STOCKTON-PECOS COUNTY (FST)

VORTAC FST 116.9 Chan 116	APP CRS 296°	Rwy Idg 7508 TDZE 3011 Apt Elev 3011
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<p>⚠ NA</p> <p>⚠ NA</p> <p>Circling NA to Rwys 7-25, 11-29, 16-34.</p>	<p>MISSED APPROACH: Climb to 5000 direct FST VORTAC and hold.</p>
--	---

ASOS 118.525	ALBUQUERQUE CENTER 135.875 292.15	UNICOM 122.8 (CTAF) 0
------------------------	---	--



CATEGORY	A	B	C	D
S-30	3540-1 529 (600-1)		3540-1½ 529 (600-1½)	3540-1¾ 529 (600-1¾)
CIRCLING	3540-1 529 (600-1)		3540-1½ 529 (600-1½)	3760-2½ 749 (800-2½)

FORT STOCKTON, TEXAS
Orig-A 21JUL16

30°55'N-102°55'W

FORT STOCKTON-PECOS COUNTY (FST)
VOR/DME RWY 30

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

VORTAC FST 116.9 Chan 116	APP CRS 116°	Rwy Idg TDZE Apt Elev	7508 3002 3011
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VOR RWY 12
FORT STOCKTON-PECOS COUNTY (FST)

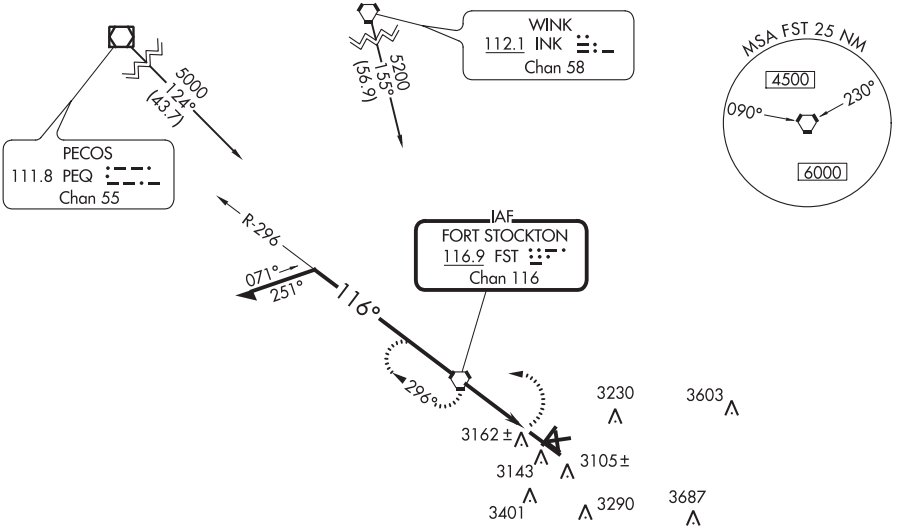
NA Circling NA to Rwy's 7-25, 11-29, 16-34.

MISSED APPROACH: Climbing left turn to 5000 direct FST VORTAC and hold.

ASOS
118.525

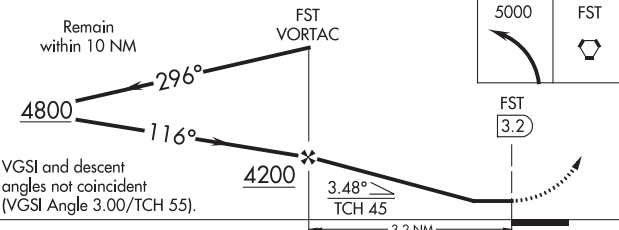
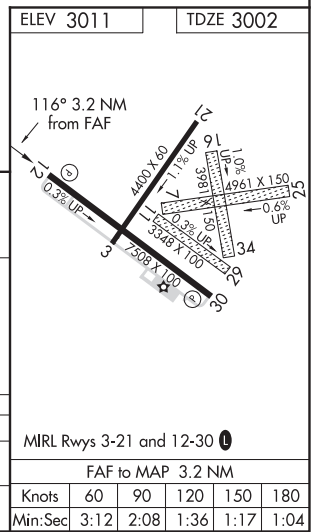
ALBUQUERQUE CENTER
135.875 292.15

UNICOM
122.8 (CTAF) **0**



SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017



CATEGORY	A	B	C	D
S-12	3500-1	498 (500-1)	3500-1¼ 498 (500-1¼)	3500-1½ 498 (500-1½)
CIRCLING	3540-1	529 (600-1)	3540-1½ 529 (600-1½)	3760-2½ 749 (800-2½)

MIRL Rwy's 3-21 and 12-30 **0**

FAF to MAP 3.2 NM					
Knots	60	90	120	150	180
Min:Sec	3:12	2:08	1:36	1:17	1:04

FREDERICKSBURG, TEXAS

AL-6428 (FAA)

15148

WAAS CH 78030 W14A	APP CRS 141°	Rwy Idg TDZE Apt Elev	5001 1695 1695
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RNAV (GPS) RWY 14

GILLESPIE COUNTY (T82)

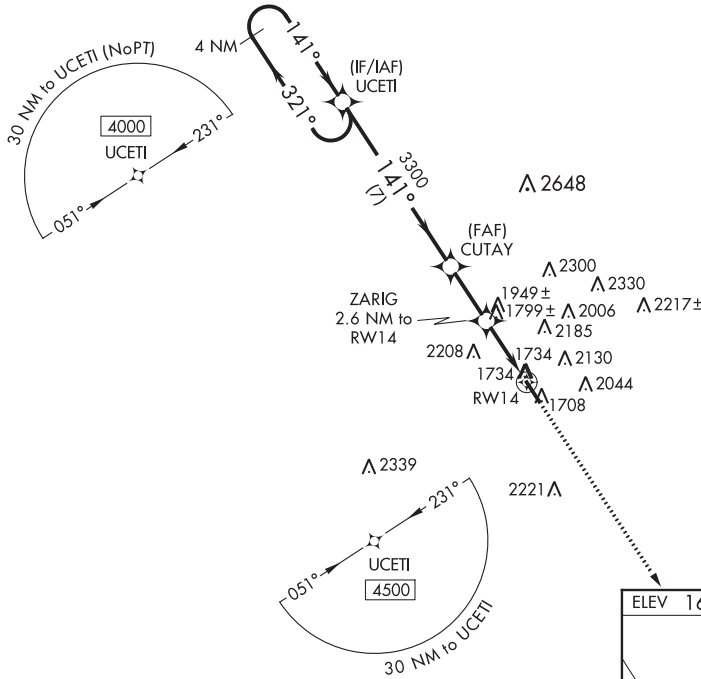
▽ DME/DME RNP-0.3 NA. Helicopter visibility reduction below 3/4 SM NA.
▲ When local altimeter setting not received, use Kerrville altimeter setting and increase all MDA 60 feet and increase all Cat C visibility 1/4 mile.

MISSED APPROACH:
Climb to 4500 direct
CIRIX and hold.

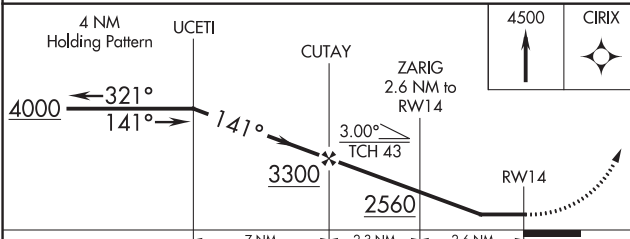
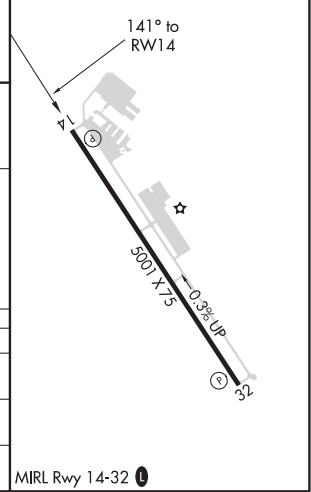
AWOS-3
120.0

HOUSTON CENTER
134.2 307.3

UNICOM
122.7 (CTAF) ①



ELEV 1695	TDZE 1695
-----------	-----------



CATEGORY	A	B	C	D
LP MDA	2060-1 365 (400-1)			NA
LNAV MDA	2200-1	505 (600-1)	2200-1 3/8 505 (600-1 3/8)	NA
CIRCLING	2200-1 505 (600-1)	2340-1 645 (700-1)	2480-2 1/4 785 (800-2 1/4)	NA

FREDERICKSBURG, TEXAS
Amdt 1B 28MAY15

30°15'N-98°55'W

RNAV (GPS) RWY 14

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

WAAS CH 81930 W32A	APP CRS 321°	Rwy Idg TDZE Apt Elev	5001 1685 1695
--	------------------------	-----------------------------	---

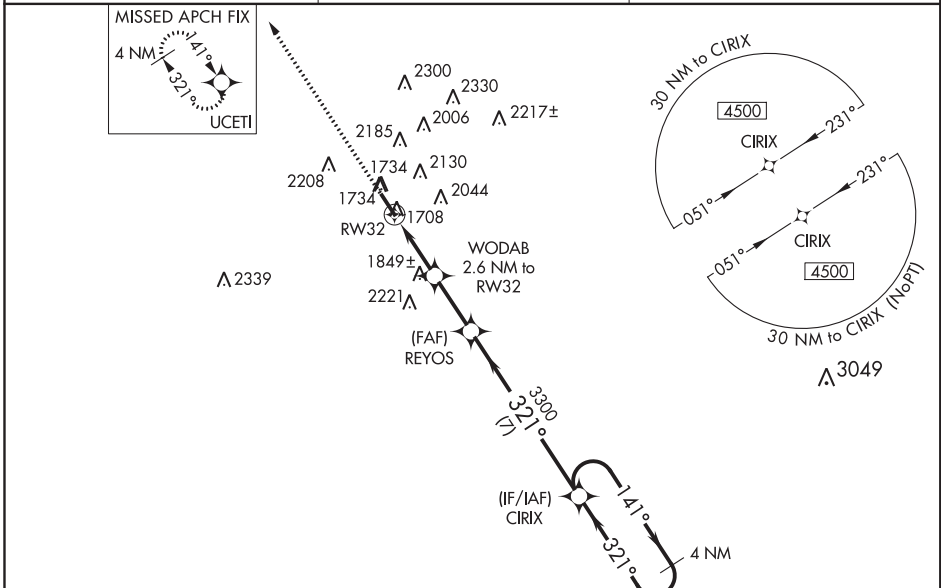
RNAV (GPS) RWY 32

GILLESPIE COUNTY (T82)

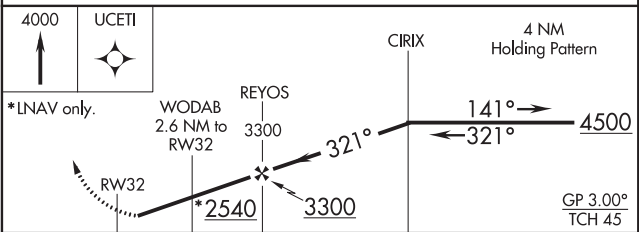
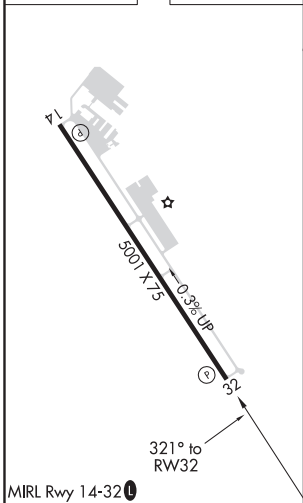
⚠ Baro-VNAV NA when using Kerrville altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -18°C (0°F) or above 54°C (130°F). DME/DME RNP-0.3 NA.
⚠ Helicopter visibility reduction below ¾ SM NA. When local altimeter setting not received, use Kerrville altimeter setting and increase all DA 54 feet and all MDA 60 feet and increase LNAV Cat C, LNAV/VNAV all Cats visibility ½ mile, and Circling Cat C ¼ mile.

MISSED APPROACH:
Climb to 4000 direct UCETI and hold.

AWOS-3 120.0	HOUSTON CENTER 134.2 307.3	UNICOM 122.7 (CTAF) 0
------------------------	--------------------------------------	---------------------------------



ELEV 1695	TDZE 1685
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CATEGORY	A	B	C	D
LPV DA	1935-1	250 (300-1)		NA
LNAV/VNAV DA	1967-1	282 (300-1)		NA
LNAV MDA	2100-1	415 (500-1)	2100-1¼ 415 (500-1¼)	NA
CIRCLING	2200-1 505 (600-1)	2340-1 645 (700-1)	2480-2¼ 785 (800-2¼)	NA

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

FREDERICKSBURG, TEXAS

AL-6428 (FAA)

15148

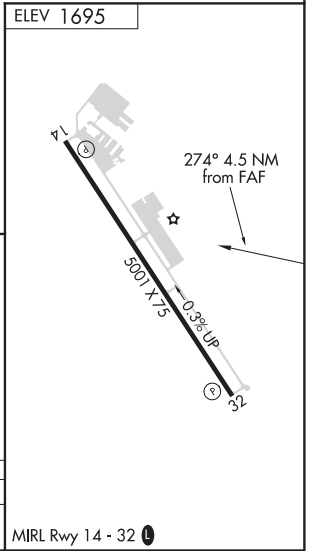
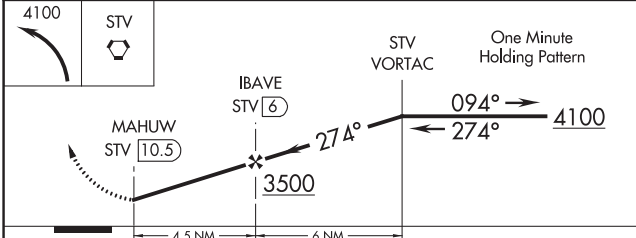
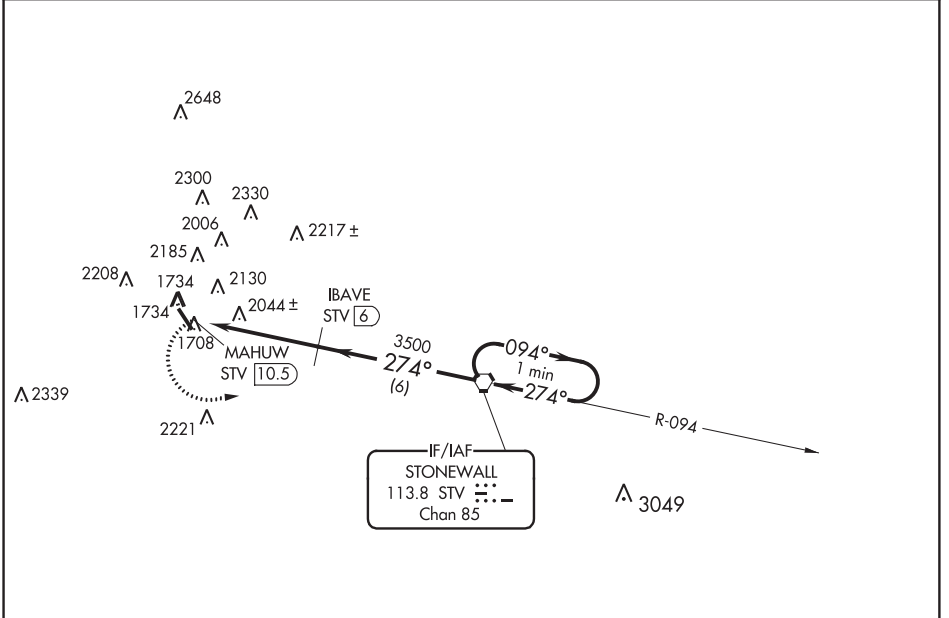
VORTAC STV 113.8 Chan 85	APP CRS 274°	Rwy Idg TDZE Apt Elev N/A N/A 1695
--	------------------------	--

VOR/DME-A
GILLESPIE COUNTY (T82)

⚠ When local altimeter setting not received, use Kerrville altimeter setting and increase MDA 60 feet and Cat C visibility ¼ mile.

⚠ MISSED APPROACH: Climbing left turn to 4100 direct STV VORTAC and hold.

AWOS-3 120.00	HOUSTON CENTER 134.2 307.3	UNICOM 122.7 (CTAF) ①
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CATEGORY	A	B	C	D
CIRCLING	2440-1 745 (800-1)	2440-1¼ 745 (800-1¼)	2480-2¼ 785 (800-2¼)	NA

FREDERICKSBURG, TEXAS
Amdt 3B 28MAY15

30°15'N-98°55'W

GILLESPIE COUNTY (T82)
VOR/DME-A

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

APP CRS 130°	Rwy Idg 3799
	TDZE 129
	Apt Elev 129

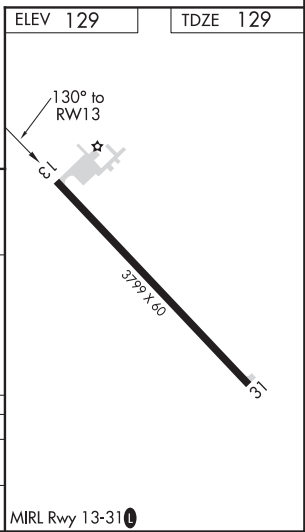
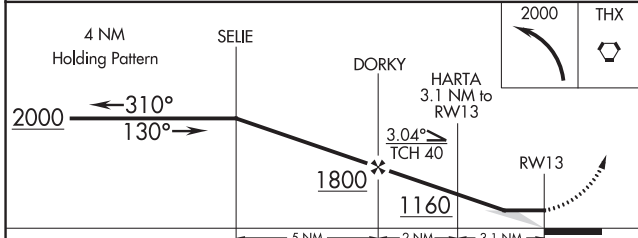
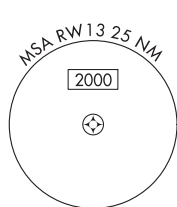
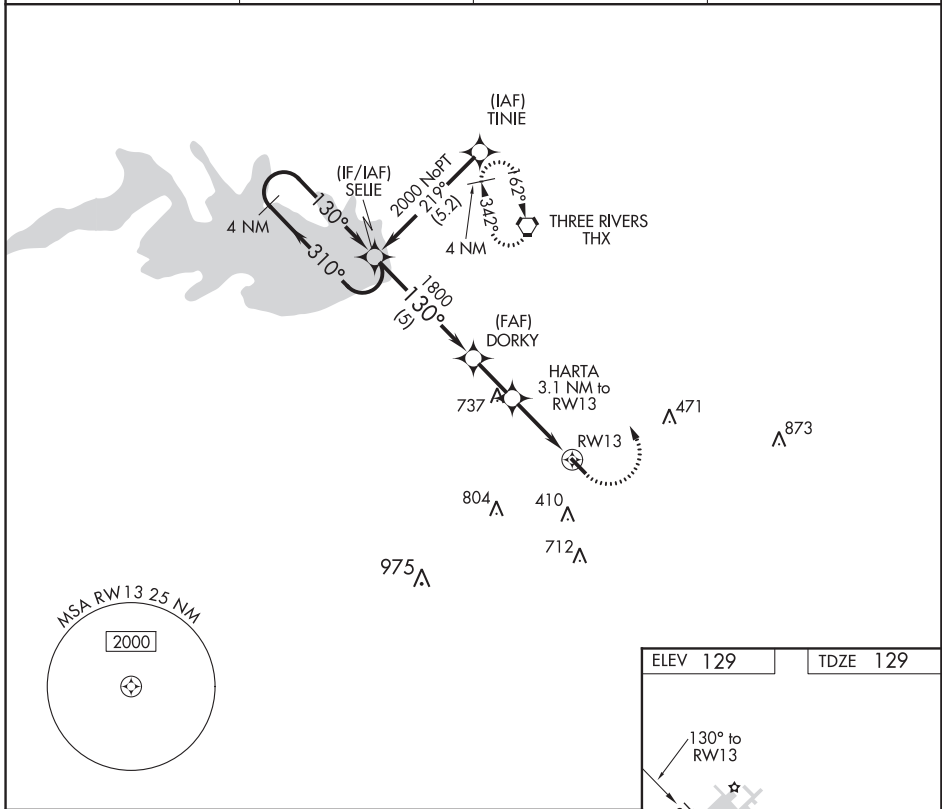
RNAV (GPS) RWY 13

LIVE OAK COUNTY (8T6)

NA Use Alice Intl altimeter setting. DME/DME RNP-0.3 NA.
 Procedure NA at night. Visibility reduction by helicopters NA.

MISSED APPROACH: Climbing left turn to 2000 direct THX VORTAC and hold.

Alice ASOS 119.225	Houston Center 134.6 322.5	CTAF 122.9	122.7
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CATEGORY	A	B	C	D
LNVA MDA	700-1 571 (600-1)		700-1½ 571 (600-1½)	NA
CIRCLING	760-1 631 (700-1)		760-1¾ 631 (700-1¾)	NA

SC-3, 10 NOV 2016 to 05 JAN 2017

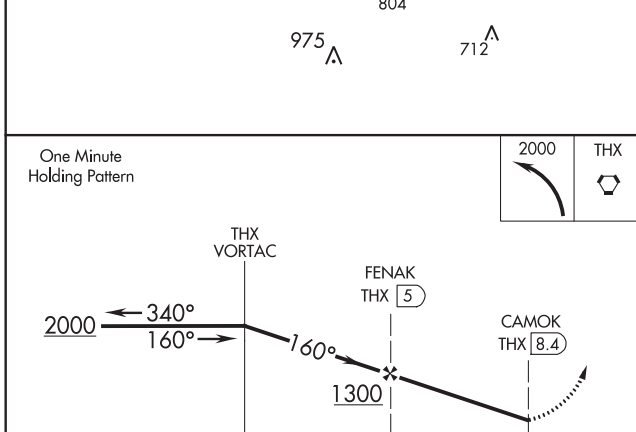
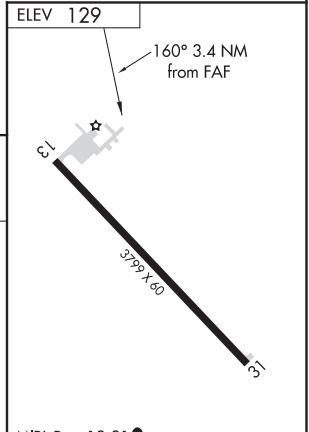
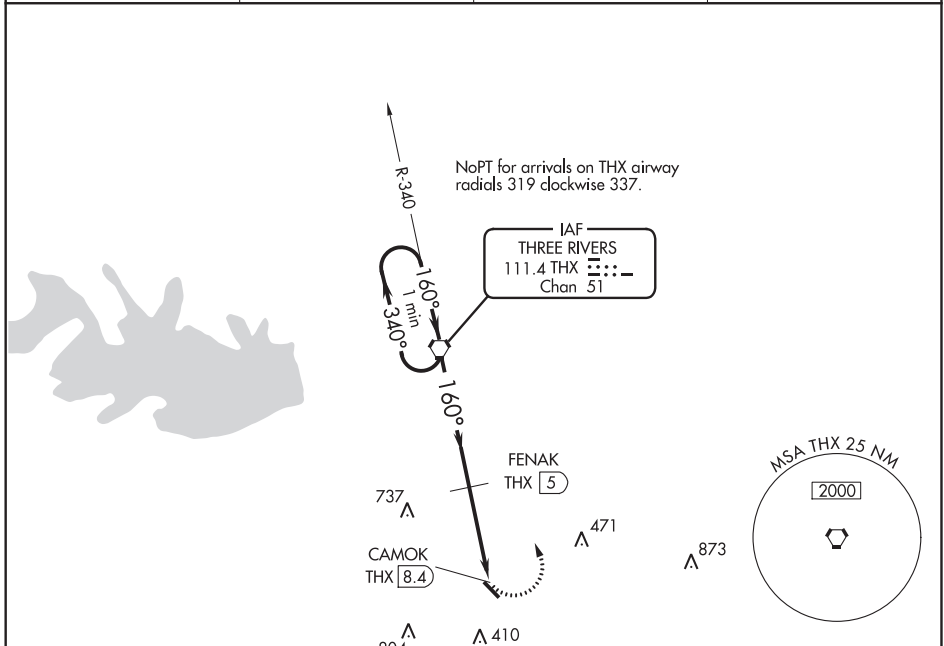
SC-3, 10 NOV 2016 to 05 JAN 2017

VORTAC THX 111.4 Chan 51	APP CRS 160°	Rwy Idg TDZE Apt Elev N/A N/A 129
--	------------------------	---

VOR/DME-A
LIVE OAK COUNTY (8T6)

<p>NA Use Alice Intl altimeter setting. Circling to Rwy 31 NA at night. Visibility reduction by helicopters NA.</p>	<p>MISSED APPROACH: Climbing left turn to 2000 direct THX VORTAC and hold.</p>
--	--

ALICE ASOS 119.225	HOUSTON CENTER 134.6 322.5	CTAF 122.9	122.7
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CATEGORY	A	B	C	D	FAF to MAP 3.4 NM					
CIRCLING	760-1 631 (700-1)		760-1¾ 631 (700-1¾)	NA	Knots	60	90	120	150	180
					Min:Sec	3:24	2:16	1:42	1:22	1:08

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SC-3, 10 NOV 2016 to 05 JAN 2017

APP CRS	Rwy Idg	4099
115°	TDZE	790
	Apt Elev	790

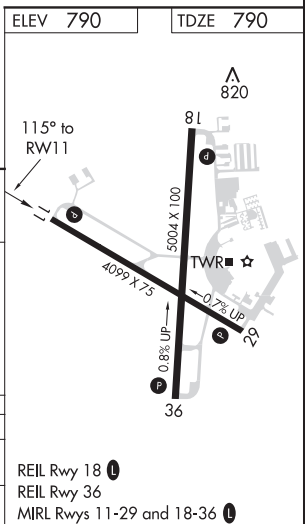
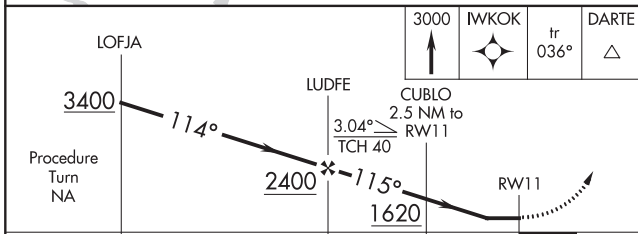
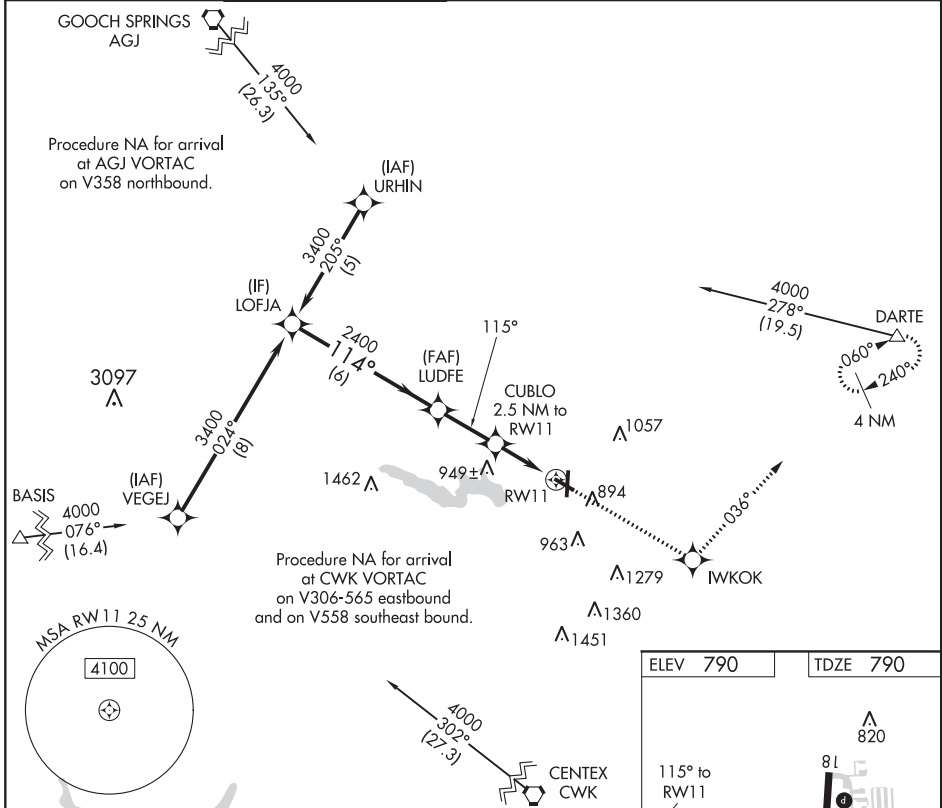
RNAV (GPS) RWY 11

GEORGETOWN MUNI (GTU)

DME/DME RNP-0.3 NA. When local altimeter setting not received, use Skylark Field altimeter setting and increase all MDA 80 feet. Straight-in Rwy 11 NA at night, Circling Rwy 11, 29 NA at night. Helicopter visibility reduction below 1 SM NA.

MISSED APPROACH: Climb to 3000 direct IWKOK and via track 036° to DARTE and hold.

ATIS	AUSTIN APP CON	GEORGETOWN TOWER *	GND CON	CLNC DEL	AUSTIN CLNC DEL	UNICOM
118.6	119.0 370.85	120.225 (CTAF) 0	119.12	119.12	121.1 (when tower closed)	123.0



CATEGORY	A	B	C	D
LNVA MDA	1200-1	410 (500-1)	1200-1¼ 410 (500-1¼)	NA
C CIRCLING	1260-1 470 (500-1)	1280-1 490 (500-1)	1360-1½ 570 (600-1½)	NA

REIL Rwy 18 0
 REIL Rwy 36
 MRL Rws 11-29 and 18-36 0

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

GEORGETOWN, TEXAS

AL-5724 (FAA)

15344

WAAS CH 62938 W18A	APP CRS 178°	Rwy Idg TDZE Apt Elev	5004 786 790
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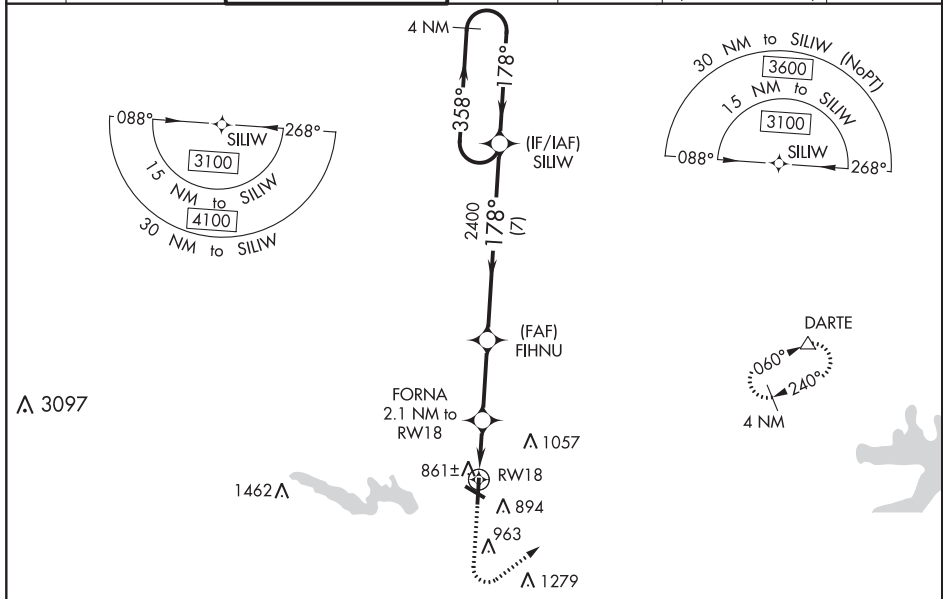
RNAV (GPS) RWY 18

GEORGETOWN MUNI (GTU)

⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. Night Landing: Rwy 11, 29 NA. Baro-VNAV and VDP NA when using Skylark Field altimeter setting. When local altimeter setting not received, use Skylark Field altimeter setting and increase all DA 65 feet, and all MDA 80 feet; increase LPV, LNAV/VNAV all Cats, and LNAV and Circling Cat C visibility ¼ mile.

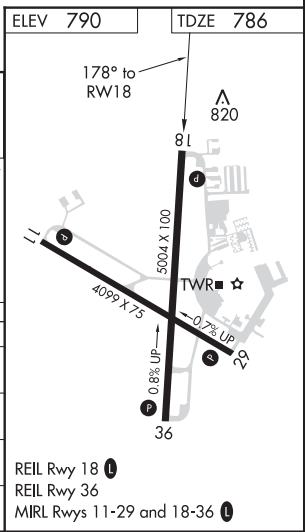
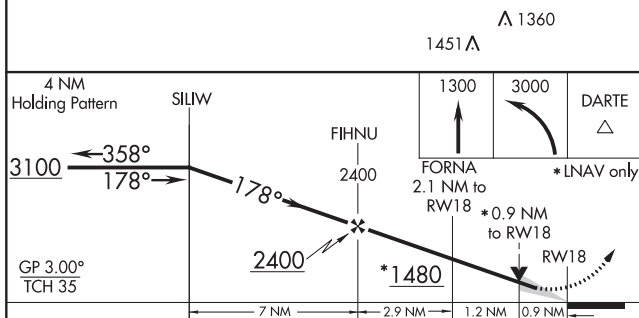
MISSED APPROACH: Climb to 1300 then climbing left turn to 3000 direct DARTE and hold.

ATIS 118.6	AUSTIN APP CON 119.0 370.85	GEORGETOWN TOWER * 120.225 (CTAF) 0	GND CON 119.12	CLNC DEL 119.12	AUSTIN CLNC DEL 121.1 (when tower closed)	UNICOM 123.0
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SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017



CATEGORY	A	B	C	D
LPV DA	1036-7/8	250 (300-7/8)		NA
LNAV/VNAV DA	1036-7/8	250 (300-7/8)		NA
LNAV MDA	1120-1	334 (400-1)		NA
CIRCLING	1240-1 450 (500-1)	1280-1 490 (500-1)	1360-1½ 570 (600-1½)	NA

GEORGETOWN, TEXAS
Amdt 1 10DEC15

30°41'N-97°41'W

GEORGETOWN MUNI (GTU) RNAV (GPS) RWY 18

GEORGETOWN, TEXAS

AL-5724 (FAA)

15344

WAAS CH 72738 W36A	APP CRS 358°	Rwy Idg 5004 TDZE 765 Apt Elev 790
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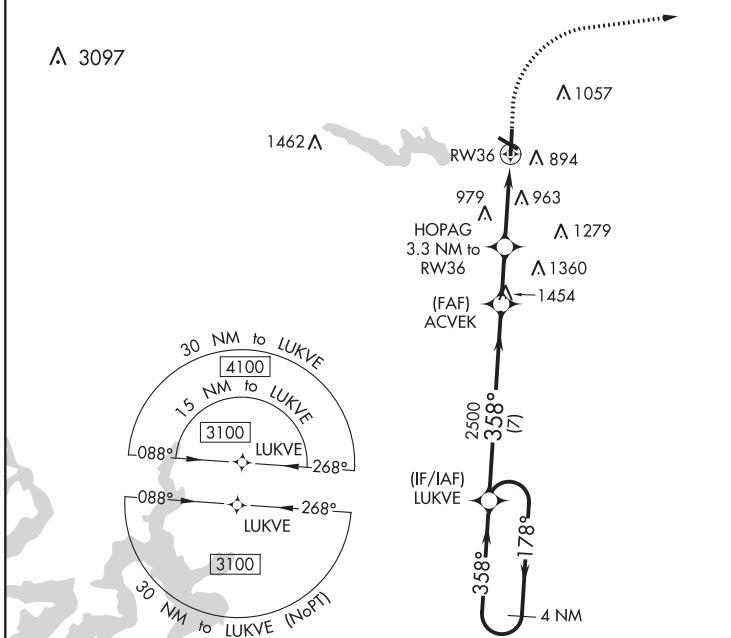
RNAV (GPS) RWY 36

GEORGETOWN MUNI (GTU)

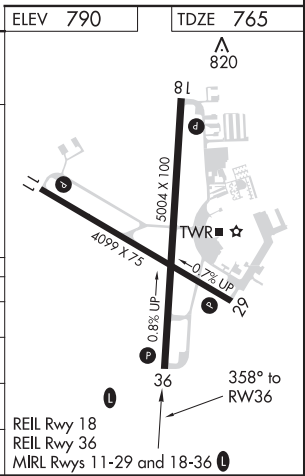
⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. Night landing: Rwy 11, 29 NA. Helicopter visibility reduction below 3/4 SM NA. Baro-VNAV and VDP NA when using Skylark field altimeter setting. When local altimeter setting not received, use Skylark Field altimeter setting and increase all DA 65 feet, and all MDA 80 feet; increase LPV, LNAV/VNAV all Cats visibility 1/4 mile, LNAV Cat C 1/8 mile, and Circling Cat C 1/4 mile.

MISSED APPROACH:
Climb to 1300 then climbing right turn to 3000 direct DARTE and hold.

ATIS 118.6	AUSTIN APP CON 119.0 370.85	GEORGETOWN TOWER * 120.225 (CTAF) 0	GND CON 119.12	CLNC DEL 119.12	AUSTIN CLNC DEL 121.1 (when tower closed)	UNICOM 123.0
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	ELEV 790	TDZE 765		
	4 NM Holding Pattern	LUKVE		
	3100 ← 178°	→ 358°		
	GP 3.00° TCH 50	2500		
	ACVEK 2500	HOPAG 3.3 NM to RW36		
	*1840	*1.3 NM to RW36		
	7 NM	2.1 NM		
		2 NM		
		1.3		
	1300	3000 DARTE		
		* LNAV only		
CATEGORY	A	B	C	D
LPV DA	1015-7/8	250 (300-7/8)		NA
LNAV/VNAV DA	1241-15/8	476 (500-15/8)		NA
LNAV MDA	1220-1	455 (500-1)	1220-13/8	455 (500-13/8)
CIRCLING	1240-1	1280-1	1360-11/2	570 (600-11/2)
	450 (500-1)	490 (500-1)		



SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

GEORGETOWN, TEXAS
Amdt 1 10DEC15

30°41'N-97°41'W

GEORGETOWN MUNI (GTU) RNAV (GPS) RWY 36

15120

AIRPORT DIAGRAM

AL-5724 (FAA)

GEORGETOWN MUNI (GTU)
GEORGETOWN, TEXAS

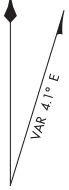
ATIS
118.6
GEORGETOWN TOWER ★
120.225
GND CON
119.12
CLNC DEL
119.12
121.1 (When Tower Closed)

97°41.0'W

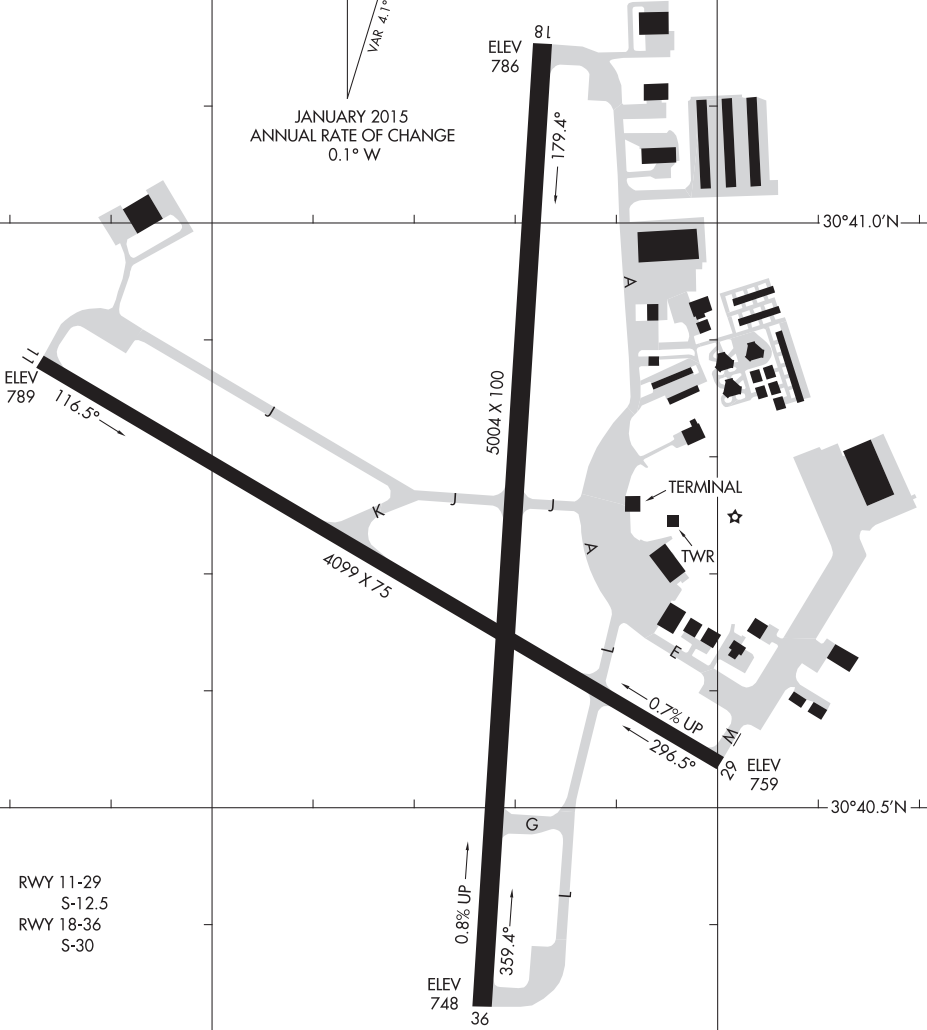
97°40.5'W

FIELD
ELEV
790

820 



JANUARY 2015
ANNUAL RATE OF CHANGE
0.1° W



SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

RWY 11-29
S-12.5
RWY 18-36
S-30

CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

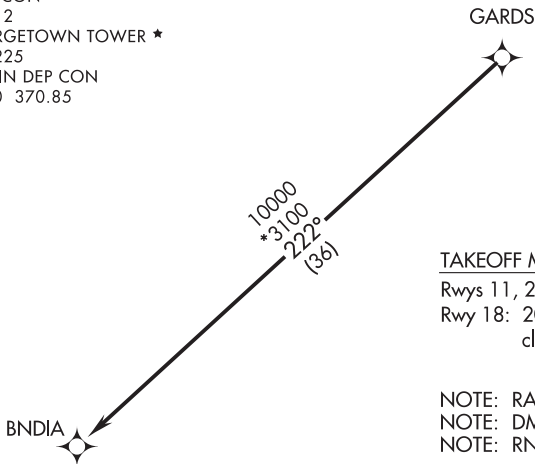
AIRPORT DIAGRAM

15120

GEORGETOWN, TEXAS
GEORGETOWN MUNI (GTU)

BNDIA ONE DEPARTURE (RNAV)

ATIS
 118.6
 CLNC DEL
 119.12
 AUSTIN CLNC DEL
 121.1 (when tower closed)
 GND CON
 119.12
 GEORGETOWN TOWER ★
 120.225
 AUSTIN DEP CON
 119.0 370.85



TAKEOFF MINIMUMS:

Rwys 11, 29, 36: Standard.
 Rwy 18: 200 - 1¼ or Standard with a minimum climb of 244' per NM to 1000.

NOTE: RADAR required.
 NOTE: DME/DME/IRU or GPS required.
 NOTE: RNAV-1

TAKEOFF OBSTACLES:

- Rwy 11: Trees beginning 11' from DER, 136' right of centerline, up to 39' AGL/796' MSL. Trees beginning 489' from DER, 226' left of centerline, up to 42' AGL/791' MSL. Buildings and poles beginning 183' from DER, 424' left of centerline, 30' AGL/789' MSL. Transmission towers, telephone lines with catenary balls 2019' from DER, crossing centerline, up to 97' AGL/837' MSL.
- Rwy 18: Trees beginning 31' from DER, 38' left of centerline, up to 33' AGL/792' MSL. Trees beginning 176' from DER, 19' right of centerline, up to 43' AGL/792' MSL. Antenna 6012' from DER, 1158' right of centerline, 163' AGL/932' MSL. Transmission tower 3137' from DER, 1036' left of centerline, 90' AGL/835' MSL. Poles beginning 1194' from DER, crossing centerline, up to 48' AGL/785' MSL. Terrain 73' from DER, 246' left of centerline, 1' AGL/751' MSL. REIL 36' from DER, 124' left of centerline, 1' AGL/750' MSL.
- Rwy 29: Trees beginning 204' from DER, 78' left of centerline, up to 37' AGL/789' MSL. Trees beginning 103' from DER, 22' right of centerline, up to 35' AGL/844' MSL. Poles beginning 765' from DER, crossing centerline, up to 45' AGL/844' MSL. Bushes beginning 9' from DER, 117' left of centerline, up to 3' AGL/792' MSL. Bush 216' from DER, 350' right of centerline, 3' AGL/796' MSL.
- Rwy 36: Trees beginning 144' from DER, 301' left of centerline, up to 38' AGL/837' MSL. Trees beginning 284' from DER, 423' right of centerline, up to 45' AGL/823' MSL. Bush 73' from DER, 67' left of centerline, 4' AGL/791' MSL. Bush 68' from DER, 135' right of centerline, 4' AGL/788' MSL. Building 71' from DER, 513' right of centerline, 18' AGL/789' MSL. Antenna 104' from DER, 492' right of centerline, 21' AGL/810' MSL. Pole 269' from DER, 565' left of centerline, 35' AGL/828' MSL. Poles beginning 929' from DER, 440' left of centerline, up to 47' AGL/820' MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 11, 18, 29, 36: Climb on assigned heading for radar vectors to GARDS, then on depicted route to BNDIA, thence

. . . . maintain 3000 or as assigned by ATC. Expect filed altitude 10 minutes after departure.

SC-3, 10 NOV 2016 to 05 JAN 2017

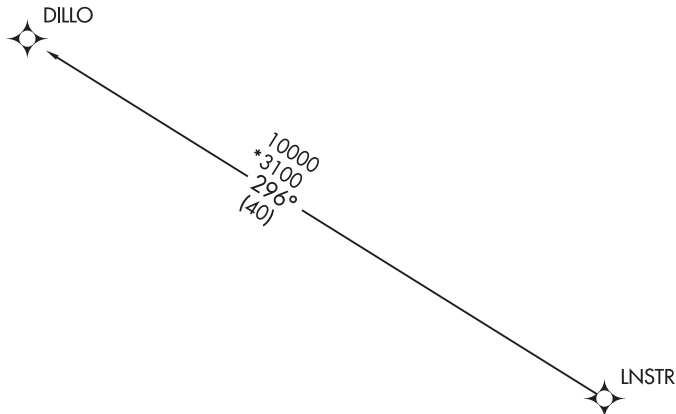
SC-3, 10 NOV 2016 to 05 JAN 2017

TAKEOFF MINIMUMS:

Rwys 11, 29, 36: Standard.
Rwy 18: 200 - 1/4 or Standard with a minimum climb of 244' per NM to 1000.

NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV-1

ATIS 118.6
CLNC DEL 119.12
119.12
AUSTIN CLNC DEL (when tower closed) 121.1
GND CON 119.12
GEORGETOWN TOWER * 120.225
AUSTIN DEP CON 119.0 370.85



TAKEOFF OBSTACLES:

- Rwy 11: Trees beginning 11' from DER, 136' right of centerline, up to 39' AGL/796' MSL. Trees beginning 489' from DER, 226' left of centerline, up to 42' AGL/791' MSL. Buildings and poles beginning 183' from DER, 424' left of centerline, 30' AGL/789' MSL. Transmission towers, telephone lines with catenary balls 2019' from DER, crossing centerline, up to 97' AGL/837' MSL.
- Rwy 18: Trees beginning 31' from DER, 38' left of centerline, up to 33' AGL/792' MSL. Trees beginning 176' from DER, 19' right of centerline, up to 43' AGL/792' MSL. Antenna 6012' from DER, 1158' right of centerline, 163' AGL/932' MSL. Transmission tower 3137' from DER, 1036' left of centerline, 90' AGL/835' MSL. Poles beginning 1194' from DER, crossing centerline, up to 48' AGL/785' MSL. Terrain 73' from DER, 246' left of centerline, 751' MSL. REIL 36' from DER, 124' left of centerline, 1' AGL/750' MSL.
- Rwy 29: Trees beginning 204' from DER, 78' left of centerline, up to 37' AGL/789' MSL. Trees beginning 103' from DER, 22' right of centerline, up to 35' AGL/844' MSL. Poles beginning 765' from DER, crossing centerline, up to 45' AGL/844' MSL. Bushes beginning 9' from DER, 117' left of centerline, up to 3' AGL/792' MSL. Bush 216' from DER, 350' right of centerline, 3' AGL/796' MSL.
- Rwy 36: Trees beginning 144' from DER, 301' left of centerline, up to 38' AGL/837' MSL. Trees beginning 284' from DER, 423' right of centerline, up to 45' AGL/823' MSL. Bush 73' from DER, 67' left of centerline, 4' AGL/791' MSL. Bush 68' from DER, 135' right of centerline, 4' AGL/788' MSL. Building 71' from DER, 513' right of centerline, 18' AGL/789' MSL. Antenna 104' from DER, 492' right of centerline, 21' AGL/810' MSL. Pole 269' from DER, 565' left of centerline, 35' AGL/828' MSL. Poles beginning 929' from DER, 440' left of centerline, up to 47' AGL/820' MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 11, 18, 29, 36: Climb on assigned heading for radar vectors to LNSTR, then on depicted route to DILLO, thence

. . . . maintain 3000 or as assigned by ATC. Expect filed altitude 10 minutes after departure.

ELOEL ONE DEPARTURE (RNAV)

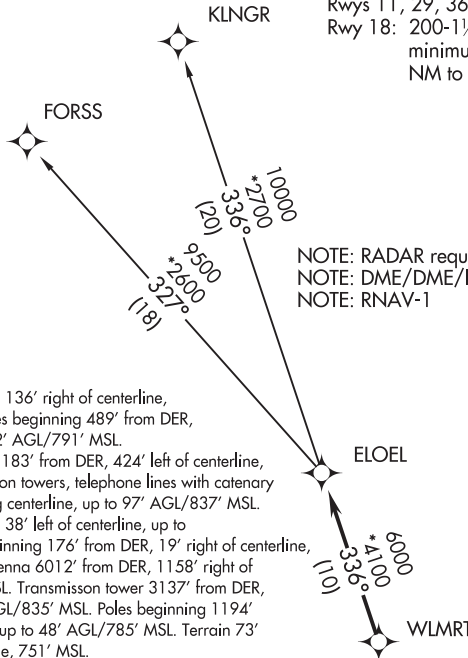
SL-5724 (FAA)

GEORGETOWN, TEXAS

ATIS
 118.6
 CLNC DEL
 119.12
 AUSTIN CLNC DEL
 121.1 (when tower closed)
 GND CON
 119.12
 GEORGETOWN TOWER ★
 120.225
 AUSTIN DEP CON
 119.0 370.85

TAKEOFF MINIMUMS:

Rwys 11, 29, 36: Standard.
 Rwy 18: 200-1¼ or standard with a
 minimum climb of 244' per
 NM to 1000.



NOTE: RADAR required.
 NOTE: DME/DME/IRU or GPS required.
 NOTE: RNAV-1

TAKEOFF OBSTACLES:

- Rwy 11:** Trees beginning 11' from DER, 136' right of centerline, up to 39' AGL/796' MSL. Trees beginning 489' from DER, 226' left of centerline, up to 42' AGL/791' MSL. Buildings and poles beginning 183' from DER, 424' left of centerline, 30' AGL/789' MSL. Transmission towers, telephone lines with catenary balls 2019' from DER, crossing centerline, up to 97' AGL/837' MSL.
- Rwy 18:** Trees beginning 31' from DER, 38' left of centerline, up to 33' AGL/792' MSL. Trees beginning 176' from DER, 19' right of centerline, up to 43' AGL/792' MSL. Antenna 6012' from DER, 1158' right of centerline, 163' AGL/932' MSL. Transmission tower 3137' from DER, 1036' left of centerline, 90' AGL/835' MSL. Poles beginning 1194' from DER, crossing centerline, up to 48' AGL/785' MSL. Terrain 73' from DER, 246' left of centerline, 751' MSL. RELL 36' from DER, 124' left of centerline, 1' AGL/750' MSL.
- Rwy 29:** Trees beginning 204' from DER, 78' left of centerline, up to 37' AGL/789' MSL. Trees beginning 103' from DER, 22' right of centerline, up to 35' AGL/844' MSL. Poles beginning 765' from DER, crossing centerline, up to 45' AGL/844' MSL. Bushes beginning 9' from DER, 117' left of centerline, up to 3' AGL/792' MSL. Bush 216' from DER, 350' right of centerline, 3' AGL/796' MSL.
- Rwy 36:** Trees beginning 144' from DER, 301' left of centerline, up to 38' AGL/837' MSL. Trees beginning 284' from DER, 423' right of centerline, up to 45' AGL/823' MSL. Bush 73' from DER, 67' left of centerline, 4' AGL/791' MSL. Bush 68' from DER, 135' right of centerline, 4' AGL/788' MSL. Building 71' from DER, 513' right of centerline, 18' AGL/789' MSL. Antenna 104' from DER, 492' right of centerline, 21' AGL/810' MSL. Pole 269' from DER, 565' left of centerline, 35' AGL/828' MSL. Poles beginning 929' from DER, 440' left of centerline, up to 47' AGL/820' MSL.

NOTE: Chart not to scale.



SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 11, 18, 29, 36: Climb on assigned heading for radar vectors to WLMRT, then on depicted route to ELOEL, thence . . .

. . . On (transition). Maintain 3000 or as assigned by ATC. Expect filed altitude 10 minutes after departure.

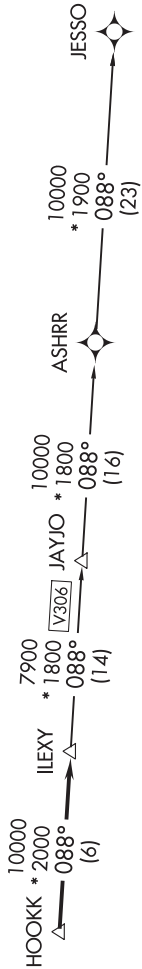
FORSS TRANSITION (ELOEL1 .FORSS):
KLNGR TRANSITION (ELOEL1 .KLNGR):

SC-3, 10 NOV 2016 to 05 JAN 2017

ATIS
118.6
CLNC DEL
119.12

AUSTIN CLNC DEL
121.1 (when tower closed)
GND CON
119.12

GEORGETOWN TOWER *
120.225
AUSTIN DEP CON
119.0 370.85



TAKEOFF MINIMUMS

Rwys 11, 29, 36: Standard.

Rwys 18: 200 - 1/4 or standard with a minimum climb of 244' per NM to 1000.

NOTE: RADAR required.

NOTE: DME/DME/IRU or GPS required.

NOTE: RNAV-1.

NOTE: Houston terminal area arrivals expect routing from ILEXY.

NOTE: JAYJO transition to join V306 only.

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.

SC-3, 10 NOV 2016 to 05 JAN 2017



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWYS 11, 18, 29, 36: Climb on assigned heading for radar vectors to HOOKK, then on depicted route to ILEXY, thence

. . . . on (transition). Maintain 3000 or as assigned by ATC. Expect filed altitude 10 minutes after departure.

JAYJO TRANSITION (ILEXY1 .JAYJO):

JESSO TRANSITION (ILEXY1 .JESSO):

TAKEOFF OBSTACLE NOTES:

- Rwy 11: Trees beginning 11' from DER, 136' right of centerline, up to 39' AGL/796' MSL.
Trees beginning 489' from DER, 226' left of centerline, up to 42' AGL/791' MSL.
Buildings and poles beginning 183' from DER, 424' left of centerline, 30' AGL/789' MSL.
Transmission towers, telephone lines with catenary balls 2019' from DER, crossing centerline, up to 97' AGL/837' MSL.
- Rwy 18: Trees beginning 31' from DER, 38' left of centerline, up to 33' AGL/792' MSL.
Trees beginning 176' from DER, 19' right of centerline, up to 43' AGL/792' MSL.
Antenna 6012' from DER, 1158' right of centerline, 163' AGL/932' MSL.
Transmission tower 3137' from DER, 1036' left of centerline, 90' AGL/835' MSL.
Poles beginning 1194' from DER, crossing centerline, up to 48' AGL/785' MSL.
Terrain 73' from DER, 246' left of centerline, 751' MSL.
REIL 36' from DER, 124' left of centerline, 1' AGL/750 MSL.
- Rwy 29: Trees beginning 204' from DER, 78' left of centerline, up to 37' AGL/789' MSL.
Trees beginning 103' from DER, 22' right of centerline, up to 35' AGL/844' MSL.
Poles beginning 765' from DER, crossing centerline, up to 45' AGL/844' MSL.
Bushes beginning 9' from DER, 117' left of centerline, up to 3' AGL/792' MSL.
Bush 216' from DER, 350' right of centerline, 3' AGL/796' MSL.
- Rwy 36: Trees beginning 144' from DER, 301' left of centerline, up to 38' AGL/837' MSL.
Trees beginning 284' from DER, 423' right of centerline, up to 45' AGL/823' MSL.
Bush 73' from DER, 67' left of centerline, 4' AGL/791' MSL.
Bush 68' from DER, 135' right of centerline, 4' AGL/788' MSL.
Building 71' from DER, 513' right of centerline, 18' AGL/789' MSL.
Antenna 104' from DER, 492' right of centerline, 21' AGL/810' MSL.
Pole 269' from DER, 565' left of centerline, 35' AGL/828' MSL.
Poles beginning 929' from DER, 440' left of centerline, up to 47' AGL/820' MSL.

MUCKY ONE DEPARTURE (RNAV)

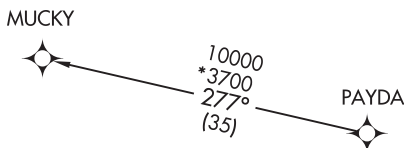
ATIS
118.6
CLNC DEL
119.12
AUSTIN CLNC DEL
121.1 (when tower closed)
GND CON
119.12
GEORGETOWN TOWER *
120.225
AUSTIN DEP CON
119.0 370.85

NOTE: Chart not to scale.

TAKEOFF MINIMUMS:

Rwys 11, 29, 36: Standard.
Rwy 18: 200 - 1/4 or Standard with a minimum
climb of 244' per NM to 1000.

NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV-1



TAKEOFF OBSTACLE NOTES:

- Rwy 11: Trees beginning 11' from DER, 136' right of centerline, up to 39' AGL/796' MSL.
Trees beginning 489' from DER, 226' left of centerline, up to 42' AGL/791' MSL.
Buildings and poles beginning 183' from DER, 424' left of centerline, 30' AGL/789' MSL.
Transmission towers, telephone lines with catenary balls 2019' from DER, crossing centerline, up to 97' AGL/837' MSL.
- Rwy 18: Trees beginning 31' from DER, 38' left of centerline, up to 33' AGL/792' MSL.
Trees beginning 176' from DER, 19' right of centerline, up to 43' AGL/791' MSL.
Antenna 6012' from DER, 1158' right of centerline, 163' AGL/932' MSL.
Transmission tower 3137' from DER, 1036' left of centerline, 90' AGL/835' MSL.
Poles beginning 1194' from DER, crossing centerline, up to 48' AGL/785' MSL.
Terrain 73' from DER, 246' left of centerline, 751' MSL.
REIL 36' from DER, 124' left of centerline, 1' AGL/750 MSL.
- Rwy 29: Trees beginning 204' from DER, 78' left of centerline, up to 37' AGL/789' MSL.
Trees beginning 103' from DER, 22' right of centerline, up to 35' AGL/844' MSL.
Poles beginning 765' from DER, crossing centerline, up to 45' AGL/844' MSL.
Bushes beginning 9' from DER, 117' left of centerline, up to 3' AGL/792' MSL.
Bush 216' from DER, 350' right of centerline, 3' AGL/796' MSL.
- Rwy 36: Trees beginning 144' from DER, 301' left of centerline, up to 38' AGL/837' MSL.
Trees beginning 284' from DER, 423' right of centerline, up to 45' AGL/823' MSL.
Bush 73' from DER, 67' left of centerline, 4' AGL/791' MSL.
Bush 68' from DER, 135' right of centerline, 4' AGL/788' MSL.
Building 71' from DER, 513' right of centerline, 18' AGL/789' MSL.
Antenna 104' from DER, 492' right of centerline, 21' AGL/810' MSL.
Pole 269' from DER, 565' left of centerline, 35' AGL/828' MSL.
Poles beginning 929' from DER, 440' left of centerline, up to 47' AGL/820' MSL.



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 11, 18, 29, 36: Climb on assigned heading for radar vectors to PAYDA, then on depicted route to MUCKY, thence. . . .

. . . .Maintain 3000 or as assigned by ATC. Expect filed altitude 10 minutes after departure.

(SAYBR1.SAYBR) 15176

SAYBR ONE DEPARTURE (RNAV)

SL-5724 (FAA)

GEORGETOWN MUNI(GTU)

GEORGETOWN, TEXAS

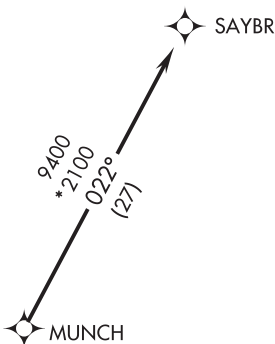
ATIS
118.6
CLNC DEL
119.12
AUSTIN CLNC DEL
121.1 (when tower closed)
GND CON
119.12
GEORGETOWN TOWER *
120.225
AUSTIN DEP CON
119.0 370.85

NOTE: Chart not to scale.

TAKEOFF MINIMUMS:

Rwys 11, 29, 36: Standard.
Rwy 18: 200-1¼ or standard with a minimum climb 244' per NM to 1000.

- NOTE: RADAR required.
- NOTE: DME/DME/IRU or GPS required.
- NOTE: RNAV-1
- NOTE: For DFW Terminal Area Arrivals at FL230 or below only.



TAKEOFF OBSTACLE NOTES:

- Rwy 11: Trees beginning 11' from DER, 136' right of centerline, up to 39' AGL/796' MSL.
Trees beginning 489' from DER, 226' left of centerline, up to 42' AGL/791' MSL.
Buildings and poles beginning 183' from DER, 424' left of centerline, 30' AGL/789' MSL.
Transmission towers, telephone lines with catenary bolls 2019' from DER, crossing centerline, up to 97' AGL/837' MSL.
- Rwy 18: Trees beginning 31' from DER, 38' left of centerline, up to 33' AGL/792' MSL. Trees beginning 176' from DER, 19' right of centerline, up to 43' AGL/792' MSL.
Antenna 6012' from DER, 1158' right of centerline, 163' AGL/932' MSL.
Transmission tower 3137' from DER, 1036' left of centerline, 90' AGL/835' MSL.
Poles beginning 1194' from DER, crossing centerline, up to 48' AGL/785' MSL.
Terrain 73' from DER, 246' left of centerline, 751' MSL.
REIL 36' from DER, 124' left of centerline, 1' AGL/750 MSL.
- Rwy 29: Trees beginning 204' from DER, 78' left of centerline, up to 37' AGL/789' MSL.
Trees beginning 103' from DER, 22' right of centerline, up to 35' AGL/844' MSL.
Poles beginning 765' from DER, crossing centerline, up to 45' AGL/844' MSL.
Bushes beginning 9' from DER, 117' left of centerline, up to 3' AGL/792' MSL.
Bush 216' from DER, 350' right of centerline, 3' AGL/796' MSL.
- Rwy 36: Trees beginning 144' from DER, 301' left of centerline, up to 38' AGL/837' MSL.
Trees beginning 284' from DER, 423' right of centerline, up to 45' AGL/823' MSL.
Bush 73' from DER, 67' left of centerline, 4' AGL/791' MSL.
Bush 68' from DER, 135' right of centerline, 4' AGL/788' MSL.
Building 71' from DER, 513' right of centerline, 18' AGL/789' MSL.
Antenna 104' from DER, 492' right of centerline, 21' AGL/810' MSL.
Pole 269' from DER, 565' left of centerline, 35' AGL/828' MSL.
Poles beginning 929' from DER, 440' left of centerline, up to 47' AGL/820' MSL.



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 11, 18, 29, 36: Climb on assigned heading for radar vectors to MUNCH, then on depicted route to SAYBR, thence

. . . . Maintain 3000 or as assigned by ATC. Expect filed altitude 10 minutes after departure.

SAYBR ONE DEPARTURE (RNAV)

(SAYBR1.SAYBR) 15176

GEORGETOWN, TEXAS

GEORGETOWN MUNI(GTU)

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

RNAV (GPS) RWY 11

APCH CRS	Rwy Idg	8000
105°	THRE	318
	Arpt Elev	322

AL-2440 [USN]

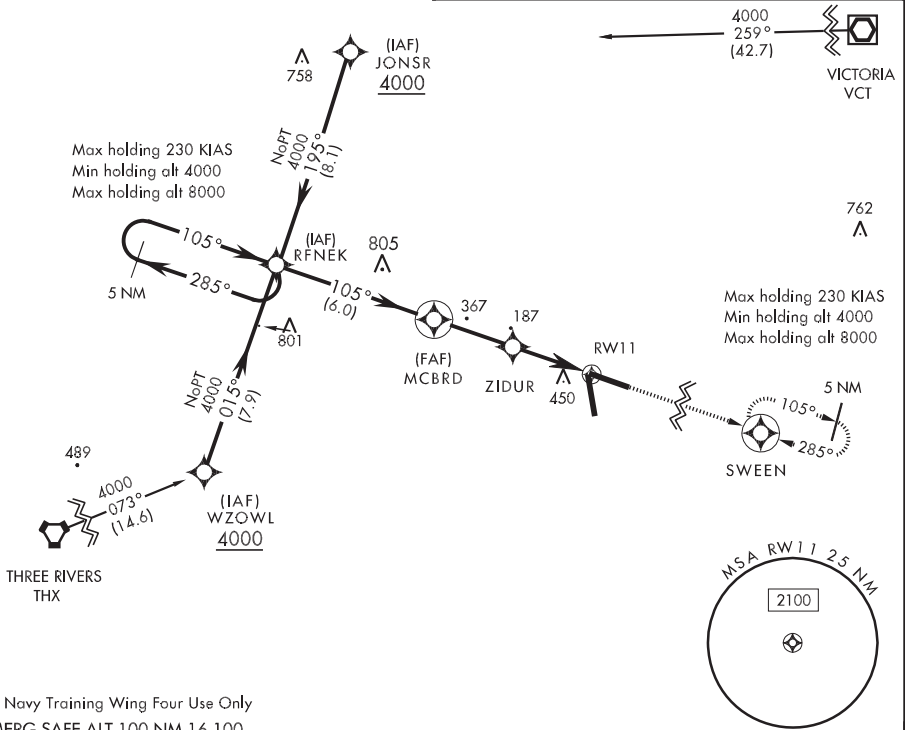
GOLIAD NOLF (KNGT)

When local altimeter setting not received, use Beeville Muni altimeter setting.
DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 4000 to SWEEN and hold, continue climb-in-hold to 4000

ASOS
353.675

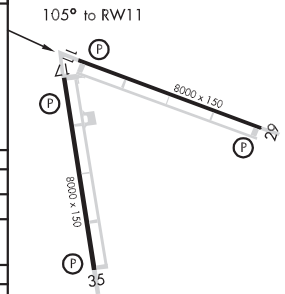
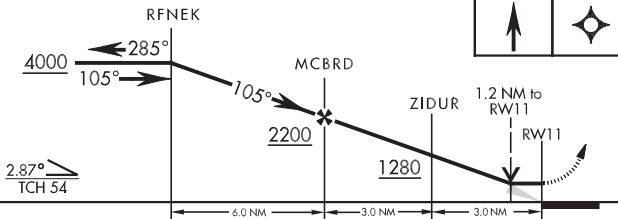
CTAF
132.875 307.075



US Navy Training Wing Four Use Only
EMERG SAFE ALT 100 NM 16,100

VDP NA with Beeville Muni altimeter setting.

4000	SWEEN	ELEV 322	THRE 318
------	-------	----------	----------



CATEGORY	A	B	C	D
LNAV MDA	760-1	442 (500-1)	760-1 $\frac{3}{8}$	442 (500-1 $\frac{3}{8}$)
CIRCLING	800-1	478 (500-1)	800-1 $\frac{1}{2}$	880-2
			478 (500-1 $\frac{1}{2}$)	558 (600-2)
BEEVILLE MUNI ALTIMETER SETTING MINIMA				
LNAV MDA	800-1	482 (500-1)	800-1 $\frac{3}{8}$	482 (500-1 $\frac{3}{8}$)
CIRCLING	860-1	538 (600-1)	860-1 $\frac{1}{2}$	880-2
			538 (600-1 $\frac{1}{2}$)	558 (600-2)

HIRL Rwy 11-29, 17-35
TDZL Rwy 11-29, 17-35

RNAV (GPS) RWY 11

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

BERCLAIR, TEXAS

RNAV (GPS) RWY 17

APCH CRS	Rwy Idg	8000
166°	THRE	322
	Arpt Elev	322

AL-2440 [USN]

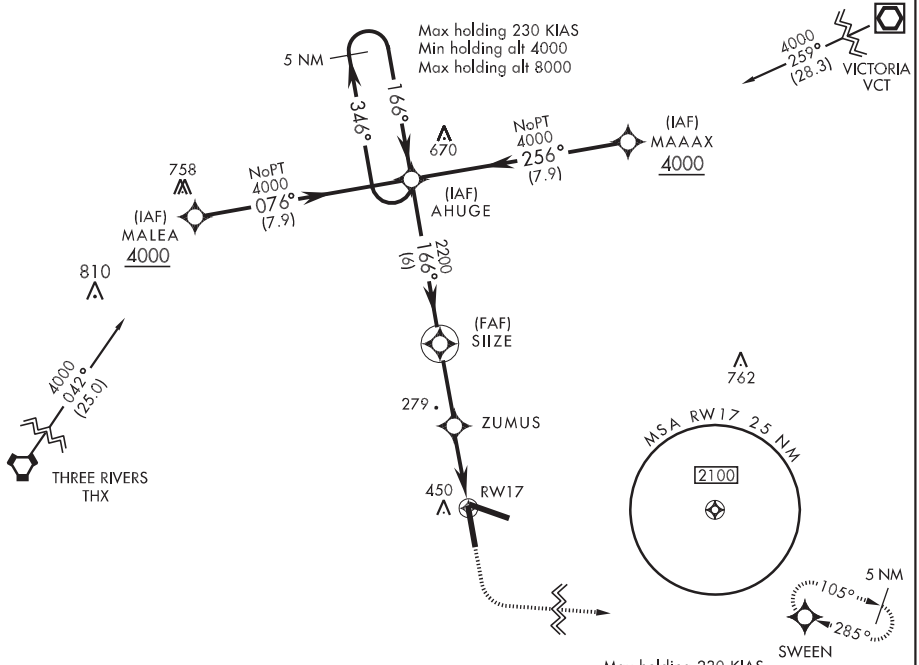
GOLIAD NOLF (KNGT)

When local altimeter setting not received, use Beeville Muni altimeter setting.
DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 1000 do not exceed 240 KIAS then climbing left turn to 4000 direct SWEEN and hold, continue climb-in-hold to 4000

ASOS
353.675

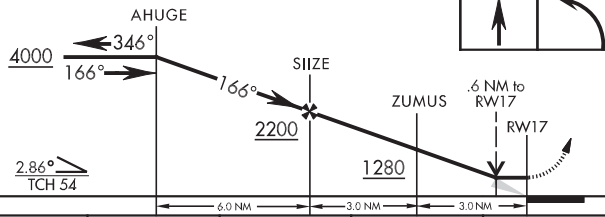
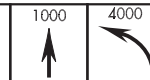
CTAF
132.875 307.075



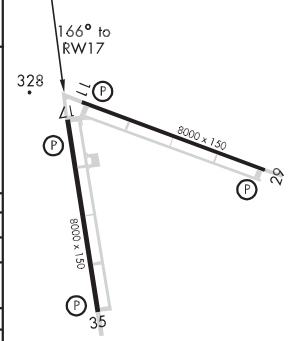
US NAVY Training Wing Four Use Only
EMERG SAFE ALT 100 NM 16,100

Max holding 230 KIAS
Min holding alt 4000
Max holding alt 8000

VDP NA with Beeville Muni altimeter setting.



ELEV	322	THRE	322
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CATEGORY	A	B	C	D
RNAV MDA	580-1 258 (300-1)			
CIRCLING	800-1 478 (500-1)	800-1½ 478 (500-1½)		880-2 558 (600-2)
BEEVILLE MUNI ALTIMETER SETTING MINIMA				
RNAV MDA	640-1 318 (400-1)			
CIRCLING	860-1 538 (600-1)	860-1½ 538 (600-1½)		880-2 558 (600-2)

HIRL Rwy 11-29, 17-35
TDZL Rwy 11-29, 17-35

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

BERCLAIR, TEXAS
Orig 17OCT13

28°37'N-97°37'W

GOLIAD NOLF (KNGT)

RNAV (GPS) RWY 17

RNAV (GPS) RWY 29

APCH CRS **285°** Rwy Idg **8000**
 THRE **265**
 Arpt Elev **322**

AL-2440 [USN]

GOLIAD NOLF (KNGT)

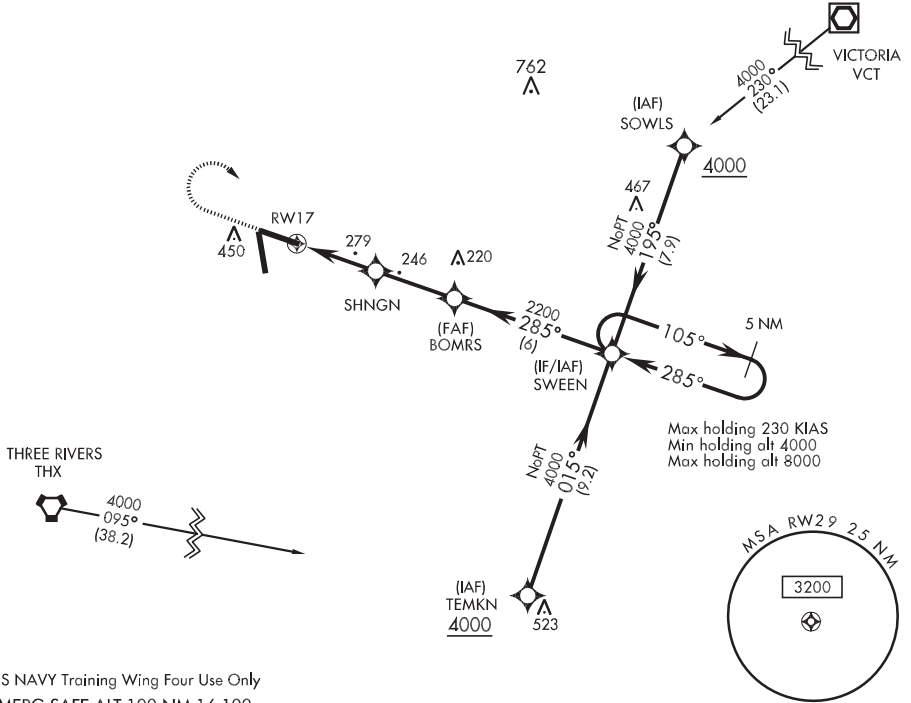
When local altimeter setting not received, use Beeville Muni altimeter setting.

MISSED APPROACH: Climb to 1000 (Max 240 KIAS), then climbing right turn to 4000 direct SWEEN and hold, continue climb-in-hold to 4000

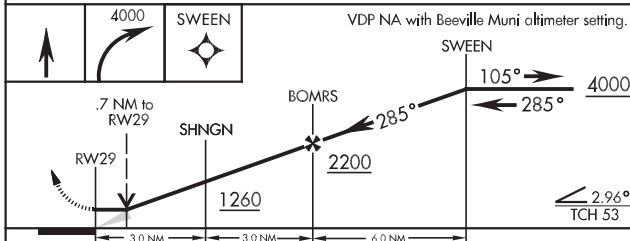
DME/DME RNP-0.3 NA.

ASOS
353.675

CTAF
132.875 307.075

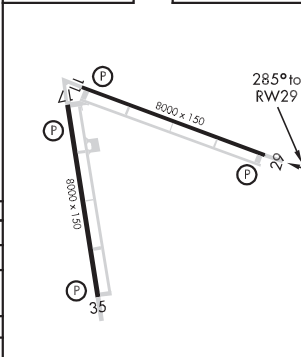


US NAVY Training Wing Four Use Only
 EMERG SAFE ALT 100 NM 16,100



ELEV 322 | THRE 265

CATEGORY	A	B	C	D
RNAV MDA	540-1 275 (300-1)			
CIRCLING	800-1 478 (500-1)	800-1½ 478 (500-1½)		880-2 558 (600-2)
BEEVILLE MUNI ALTIMETER SETTING MINIMA				
RNAV MDA	580-1 315 (300-1)			
CIRCLING	860-1 538 (600-1)	860-1½ 538 (600-1½)		880-2 558 (600-2)



HIRL Rwy 11-29, 17-35
 TDZL Rwy 11-29, 17-35

RNAV (GPS) RWY 29

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

BERCLAIR, TEXAS

RNAV (GPS) RWY 35

APCH CRS	Rwy Idg	8000
346°	THRE	298
	Arpt Elev	322

AL-2440 [USN]

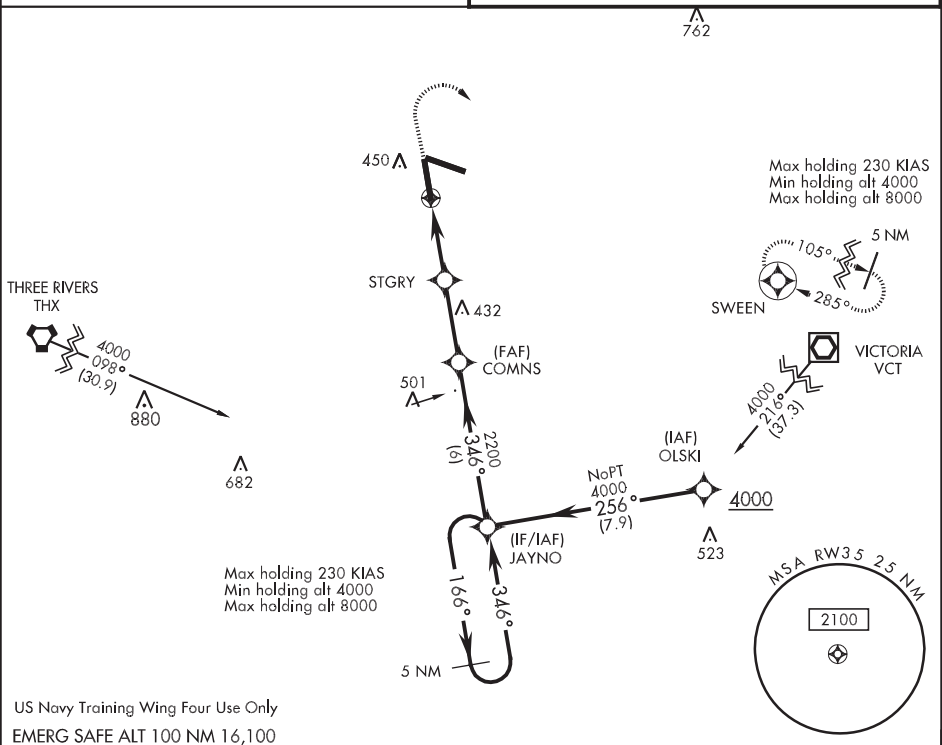
GOLIAD NOLF (KNGT)

When local altimeter setting not received, use Beeville Muni altimeter setting.
DME/DME RNP-0.3 NA.

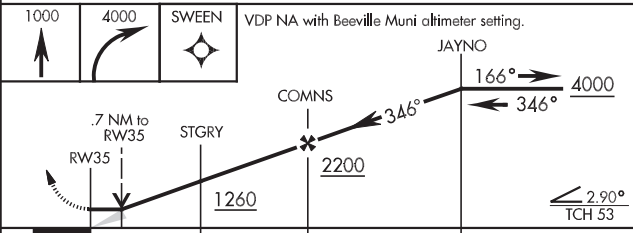
MISSED APPROACH: Climb to 1000 (Max 240 KIAS), then climbing right turn to 4000 direct SWEEN and hold, continue climb-in-hold to 4000

ASOS
353.675

CTAF
132.875 307.075

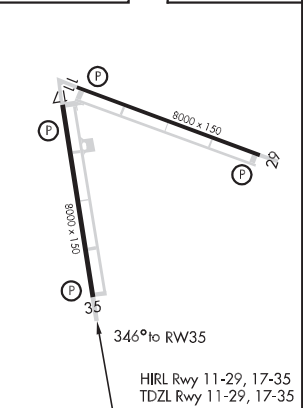


US Navy Training Wing Four Use Only
EMERG SAFE ALT 100 NM 16,100



ELEV	322	THRE	298
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CATEGORY	A	B	C	D
LNAV MDA	560-1 262 (300-1)			
CIRCLING	800-1 478 (500-1)	800-1½ 478 (500-1½)		880-2 558 (600-2)
BEEVILLE MUNI ALTIMETER SETTING MINIMA				
LNAV MDA	600-1 302 (300-1)			
CIRCLING	860-1 538 (600-1)	860-1½ 538 (600-1½)		880-2 558 (600-2)



BERCLAIR, TEXAS
Orig 17OCT13

28°37'N-97°37'W

GOLIAD NOLF (KNGT)

RNAV (GPS) RWY 35

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

WAAS CH 72629 W18A	APP CRS 182°	Rwy Idg 4998 TDZE 1305 Apt Elev 1305
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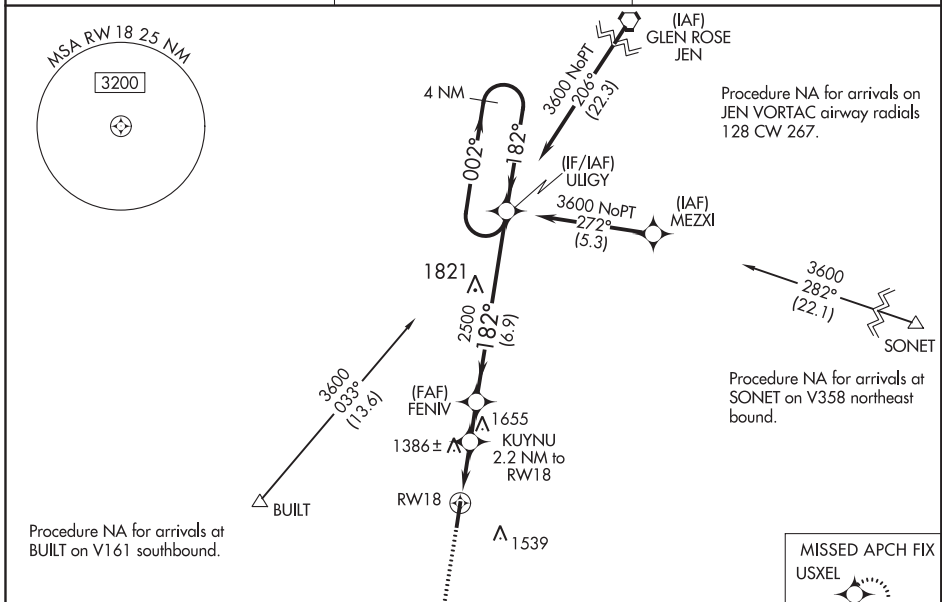
RNAV (GPS) RWY 18

HAMILTON MUNI (MNZ)

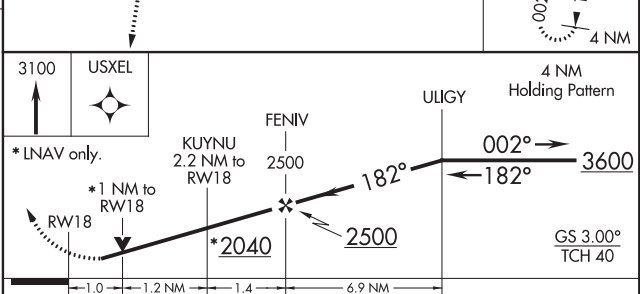
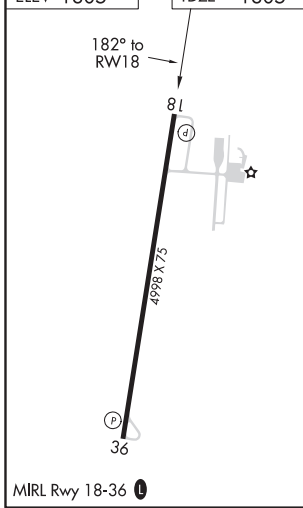
⚠ Baro-VNAV NA when using Comanche altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. Helicopter visibility reduction below ¼ SM NA. VDP NA with Comanche altimeter setting. When local altimeter setting not received, use Comanche altimeter setting and increase all DA 75 feet and all visibility ¼ mile. Increase all MDA 80 feet and LNAV Cat C visibility ½ mile and Circling Cat C visibility ½ mile.

⚠ MISSED APPROACH: Climb to 3100 direct USXEL and hold.

AWOS-3 118.525	GRAY APP CON 120.075 323.15	UNICOM 122.7 (CTAF) 📻
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ELEV 1305	TDZE 1305
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CATEGORY	A	B	C	D
LPV DA	1555-7/8	250 (300-7/8)		NA
LNAV/VNAV DA	1555-7/8	250 (300-7/8)		NA
LNAV MDA	1640-1	335 (400-1)		NA
CIRCLING	1680-1 375 (400-1)	1760-1 455 (500-1)	1900-1½ 595 (600-1½)	NA

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

HAMILTON, TEXAS

AL-6984 (FAA)

15008

WAAS CH 50229 W36A	APP CRS 002°	Rwy Idg TDZE Apt Elev	4998 1304 1305
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RNAV (GPS) RWY 36

HAMILTON MUNI (MNZ)

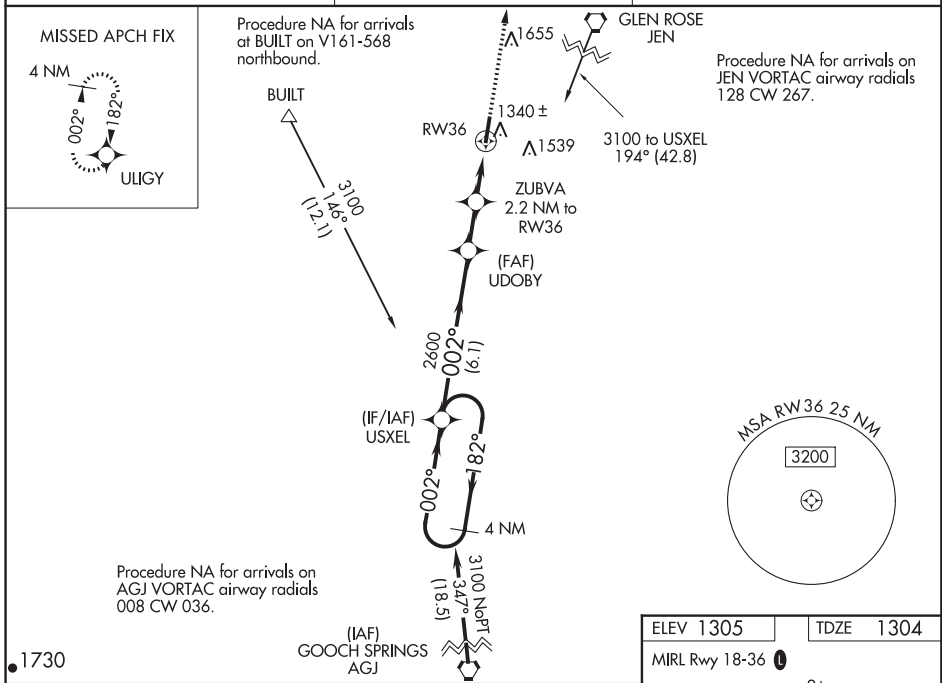
⚠ Baro-VNAV NA when using Comanche altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. Helicopter visibility reduction below ¾ SM NA. When local altimeter setting not received, use Comanche altimeter setting and increase all DA 75 feet and all visibility ½ mile. Increase all MDA 80 feet and Circling Cat C visibility ½ mile.

MISSED APPROACH:
Climb to 3600 direct ULIGY and hold

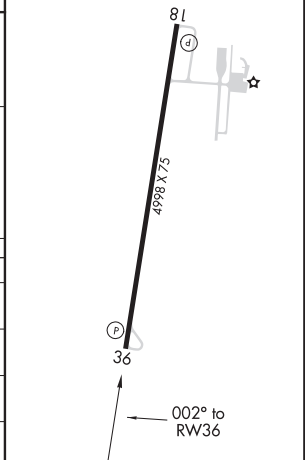
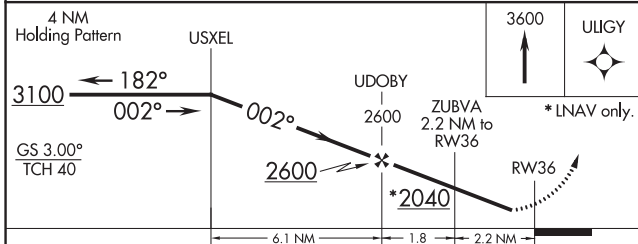
AWOS-3
118.525

GRAY APP CON
120.075 323.15

UNICOM
122.7 (CTAF) ①



ELEV 1305	TDZE 1304
MIRL Rwy 18-36 ①	



CATEGORY	A	B	C	D
LPV DA	1554-1	250 (300-1)		NA
LNAV/VNAV DA	1554-1	250 (300-1)		NA
LNAV MDA	1600-1	296 (300-1)		NA
CIRCLING	1680-1 375 (400-1)	1760-1 455 (500-1)	1900-1½ 595 (600-1½)	NA

HAMILTON, TEXAS
Amdt 1A 26JUN14

31°40' N-98°09' W

RNAV (GPS) RWY 36

HAMILTON MUNI (MNZ)

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

HARLINGEN, TEXAS

AL-827 (FAA)

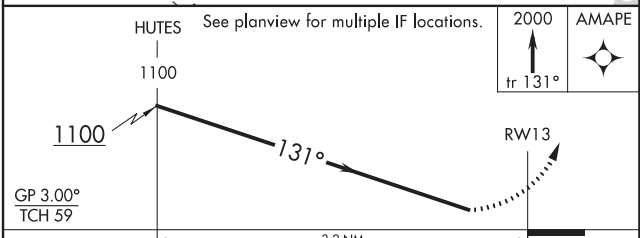
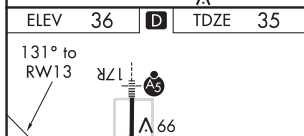
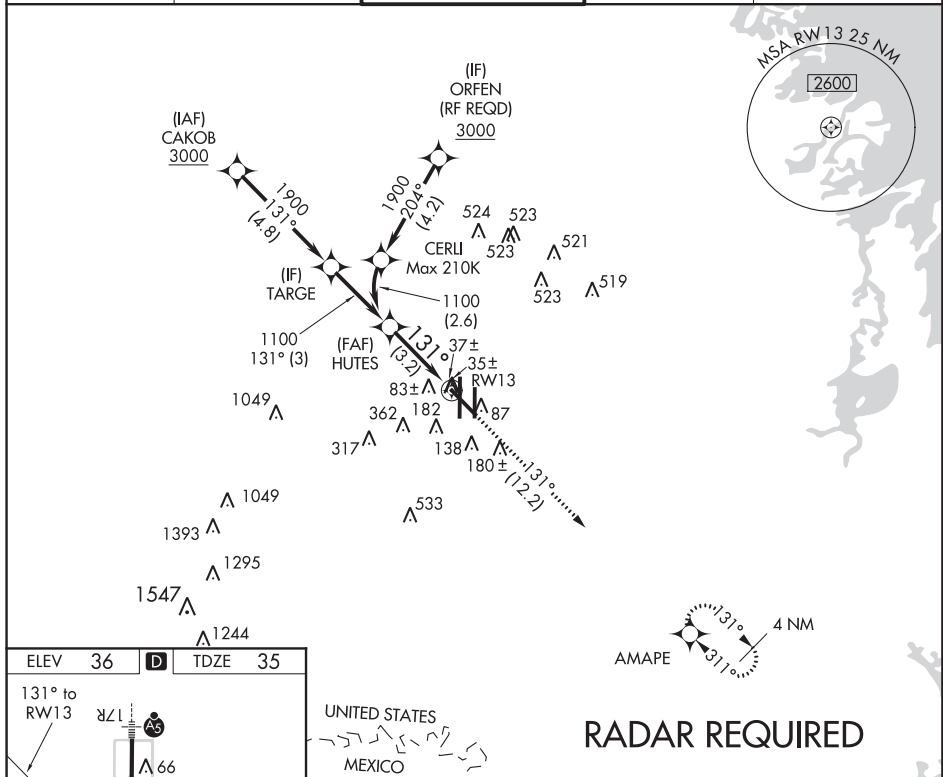
16035

APP CRS	Rwy Idg	7257
131°	TDZE	35
	Apt Elev	36

RNAV (RNP) Z RWY 13

VALLEY INTL (HRL)

<p>▼ For uncompensated Baro-VNAV systems, procedure NA below 2°C (36°F) or above 54°C (130°F). GPS required.</p>		<p>MISSED APPROACH: Climb to 2000 on track 131° to AMAPE and hold.</p>		
ATIS	VALLEY APP CON	HARLINGEN TOWER ★	GND CON	UNICOM
124.85	120.7 279.5	119.3 (CTAF) 317.6	121.7	122.95



CATEGORY	A	B	C	D
RNP 0.15 DA		302-7/8	267 (300-7/8)	
RNP 0.30 DA		393-1/8	358 (400-1/8)	

MIRL Rwy 17L-35R
 REIL Rwys 13 and 17L
 HIRL Rwys 13-31 and 17R-35L

HARLINGEN, TEXAS
 Orig-A 02APR15

26°14'N-97°39'W

VALLEY INTL (HRL) RNAV (RNP) Z RWY 13

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

APP CRS	Rwy Idg	8301
176°	TDZE	35
	Apt Elev	36

RNAV (RNP) Z RWY 17R

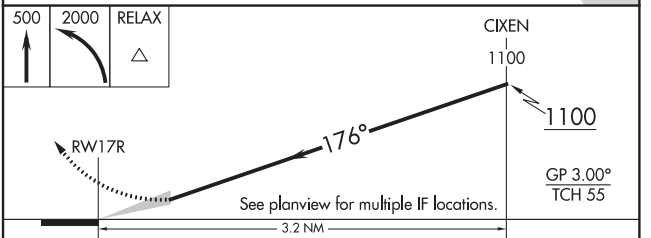
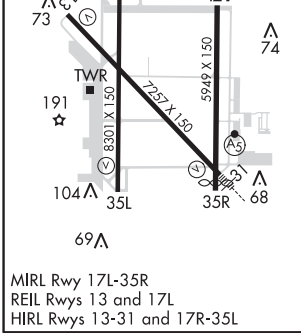
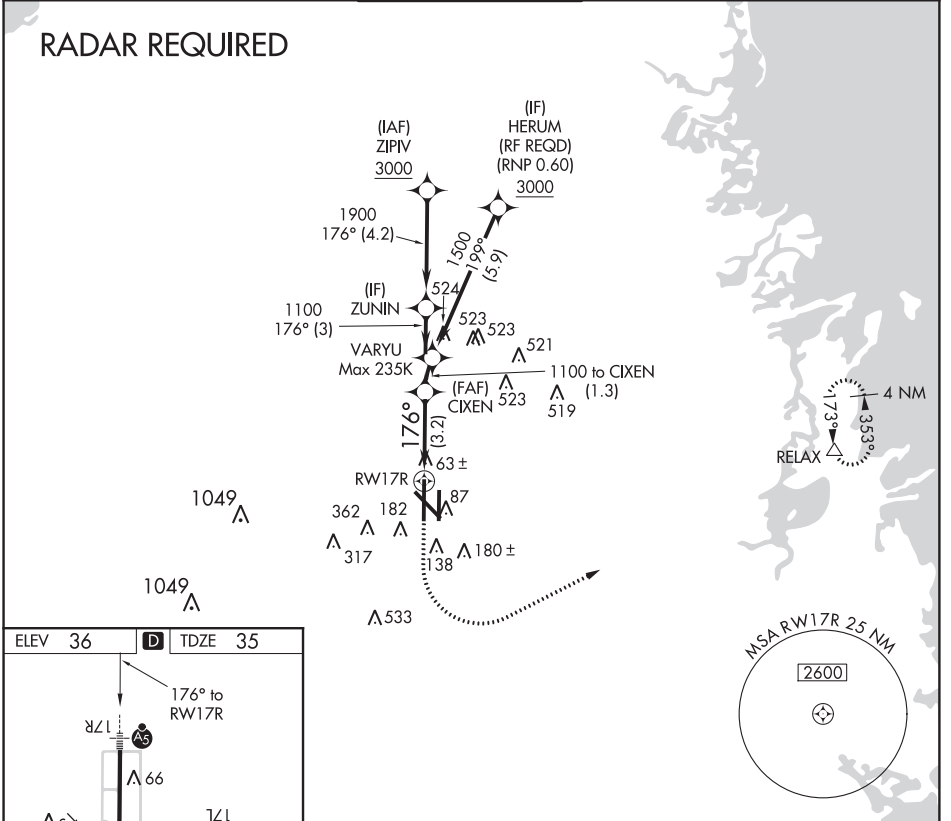
VALLEY INTL (HRL)

▽ For uncompensated Baro-VNAV systems, procedure NA below 2°C (36°F) or above 54°C (130°F). For inoperative MALSR, increase RNP 0.3 all Cats visibility to RVR 4500. GPS Required.



MISSED APPROACH: Climb to 500 then climbing left turn to 2000 direct RELAX and hold.

ATIS 124.85	VALLEY APP CON 120.7 279.5	HARLINGEN TOWER★ 119.3 (CTAF) 317.6	GND CON 121.7	UNICOM 122.95
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CATEGORY	A	B	C	D
RNP 0.30 DA		305/40	270 (300-3/4)	

AUTHORIZATION REQUIRED

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

HARLINGEN, TEXAS

AL-827 (FAA)

16035

APP CRS	Rwy Idg	7257
311°	TDZE	36
	Apr Elev	36

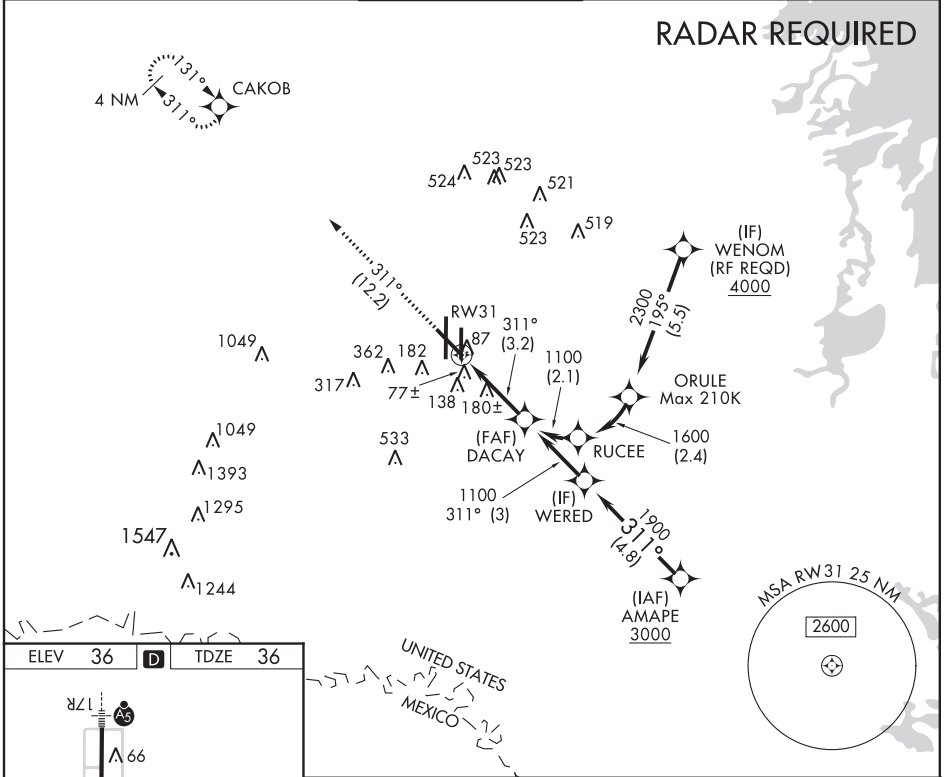
RNAV (RNP) Z RWY 31

VALLEY INTL (H.R.L.)

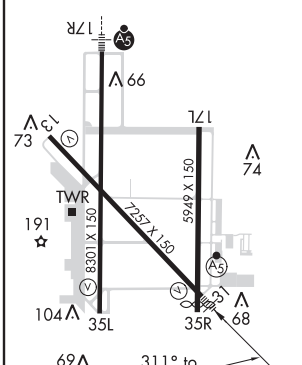
▽ For uncompensated Baro-VNAV systems, procedure NA below 2°C (36°F) or above 54°C (130°F). GPS Required.

MALSR MISSED APPROACH: Climb to 2000 on track 311° to CAKOB and hold.

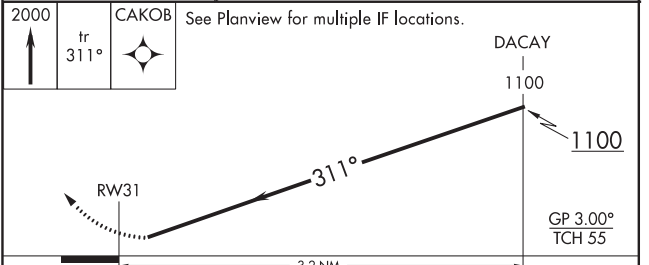
ATIS 124.85	VALLEY APP CON 120.7 279.5	HARLINGEN TOWER ★ 119.3 (CTAF) 317.6	GND CON 121.7	UNICOM 122.95
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ELEV 36	D	TDZE 36
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MIRL Rwy 17L-35R
REIL Rwys 13 and 17L
HIRL Rwys 13-31 and 17R-35L



CATEGORY	A	B	C	D
RNP 0.17 DA		310-7/8	274 (300-7/8)	
RNP 0.30 DA		360-1	324 (400-1)	

AUTHORIZATION REQUIRED

HARLINGEN, TEXAS
Orig-A 02APR15

26°14'N-97°39'W

VALLEY INTL (H.R.L.) RNAV (RNP) Z RWY 31

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

APP CRS	Rwy Idg	8301
356°	TDZE	36
	Apt Elev	36

RNAV (RNP) Z RWY 35L

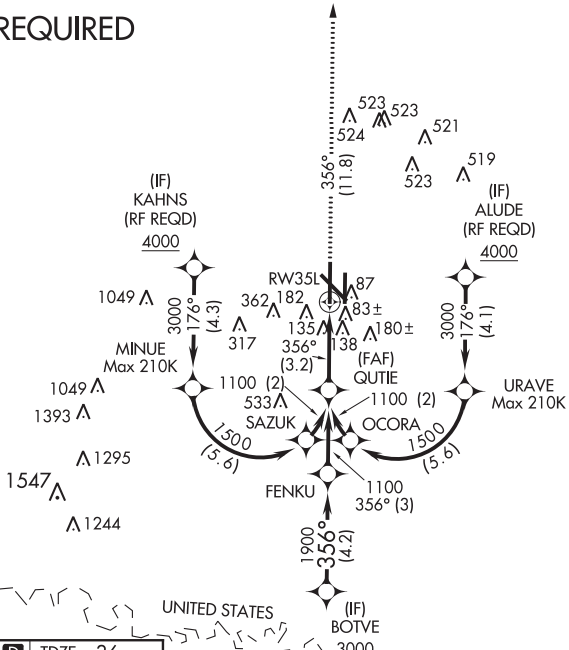
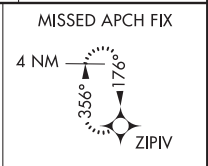
VALLEY INTL (H.R.L.)

▼ For uncompensated Baro-VNAV systems, procedure NA below 2°C (36°F) or above 54°C (130°F). When VGSI inoperative procedure NA at night. GPS required.

MISSED APPROACH: Climb to 2000 on track 356° to ZIPIV and hold.

ATIS 124.85	VALLEY APP CON 120.7 279.5	HARLINGEN TOWER★ 119.3 (CTAF) 0 317.6	GND CON 121.7	UNICOM 122.95
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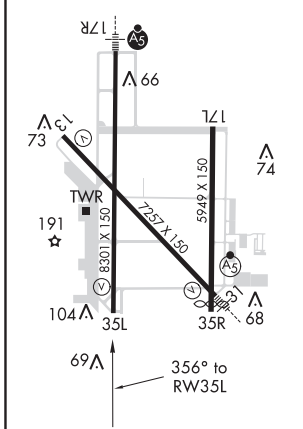
RADAR REQUIRED



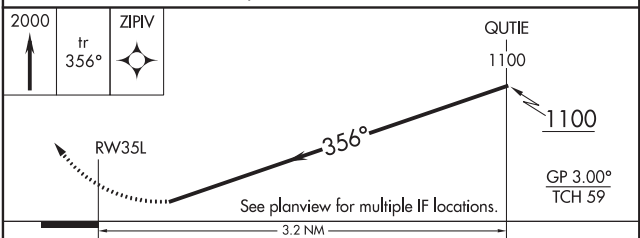
SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

ELEV 36	D	TDZE 36
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MIRL Rwy 17L-35R
REIL Rwys 13 and 17L
HIRL Rwys 13-31 and 17R-35L



CATEGORY	A	B	C	D
RNP 0.14 DA		334-1	298 (300-1)	
RNP 0.29 DA		388-1½	352 (400-1½)	
RNP 0.30 DA		479-1½	443 (500-1½)	

AUTHORIZATION REQUIRED

HARLINGEN, TEXAS

AL-827 (FAA)

16035

WAAS CH 90430 W17B	APP CRS 176°	Rwy Idg TDZE Apt Elev	5949 34 36
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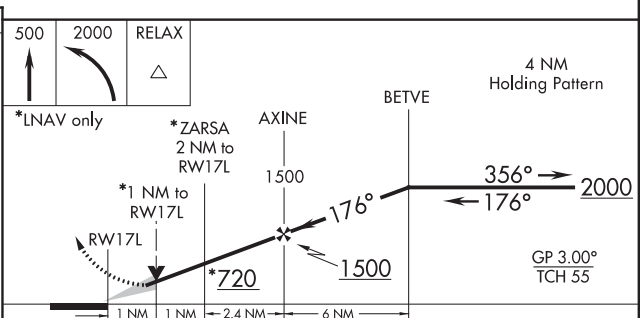
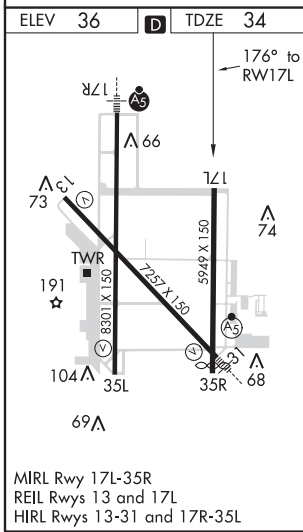
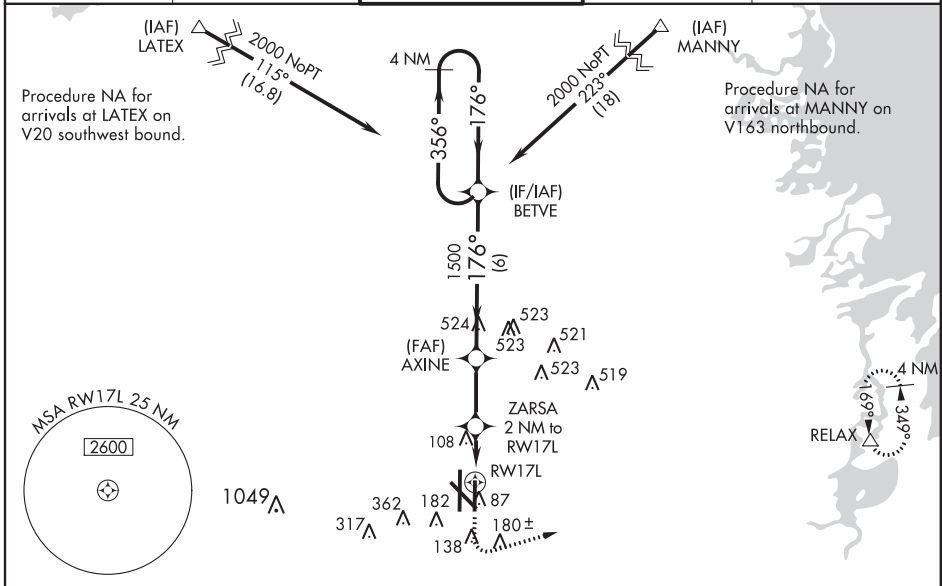
RNAV (GPS) RWY 17L

VALLEY INTL (HRL)

⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. When local altimeter setting not received, use Port Isabel altimeter setting and increase all DA 42 feet and all MDA 60 feet; increase LPV and LNAV/VNAV all Cats visibility ¼ mile, LNAV Cats C/D and Circling Cat D visibility ¼ mile. Baro-VNAV and VDP NA with Port Isabel altimeter setting.

MISSED APPROACH: Climb to 500 then climbing left turn to 2000 direct RELAX and hold.

ATIS 124.85	VALLEY APP CON 120.7 279.5	HARLINGEN TOWER ★ 119.3(CTAF) 0 317.6	GND CON 121.7	UNICOM 122.95
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CATEGORY	A	B	C	D
LPV DA		284-¾	250 (300-¾)	
LNAV/VNAV DA		350-1½	316 (400-1½)	
LNAV MDA		400-1	366 (400-1)	
CIRCLING	500-1	464 (500-1)	500-1½ 464 (500-1½)	680-2 644 (700-2)

HARLINGEN, TEXAS
Amdt 2B 02APR15

26°14'N-97°39'W

RNAV (GPS) RWY 17L

VALLEY INTL (HRL)

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SC-3, 10 NOV 2016 to 05 JAN 2017

WAAS CH 72830 W35A	APP CRS 356°	Rwy Idg TDZE Apt Elev	5759 36 36
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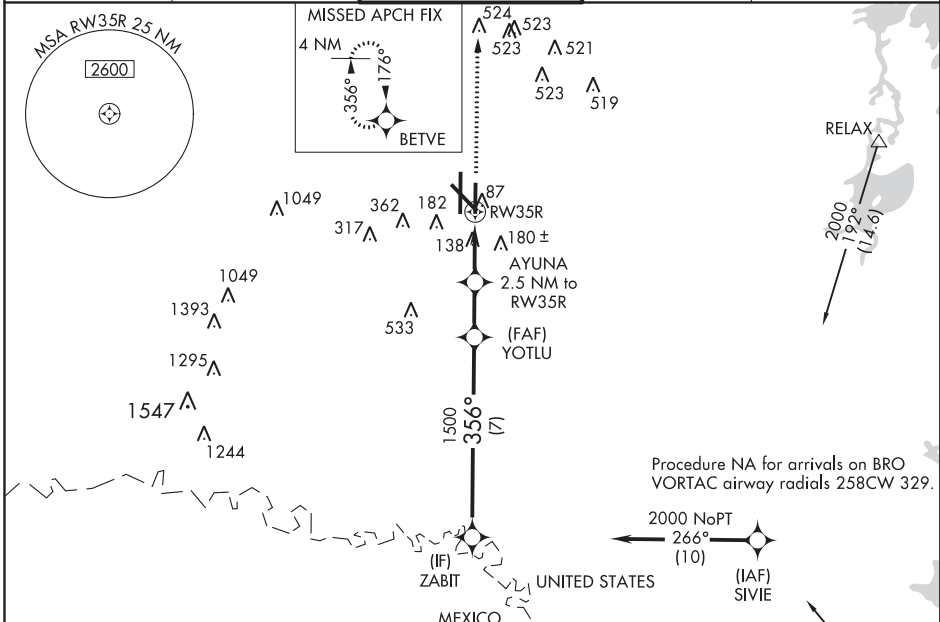
RNAV (GPS) RWY 35R

VALLEY INTL (H.R.L.)

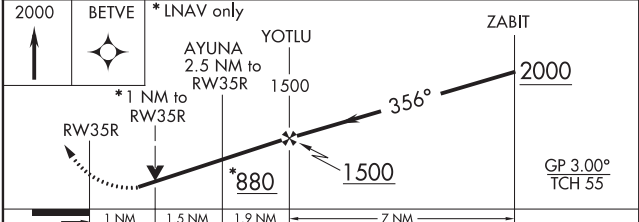
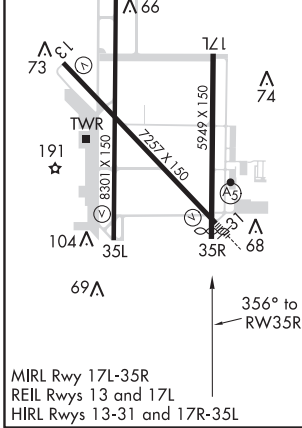
⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Port Isabel altimeter setting and increase all DA 42 feet and all MDA 60 feet; increase LPV and LNAV/VNAV all Cats visibility 1/8 mile, LNAV Cats C/D and Circling Cat D visibility 1/4 mile. Baro-VNAV and VDP NA with Port Isabel altimeter setting.

MISSED APPROACH:
Climb to 2000 direct BETVE and hold.

ATIS 124.85	VALLEY APP CON 120.7 279.5	HARLINGEN TOWER ★ 119.3 (CTAF)	GND CON 121.7	UNICOM 122.95
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ELEV 36	D	TDZE 36
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CATEGORY	A	B	C	D
LPV DA		286-3/4	250 (300-3/4)	
LNAV/VNAV DA		286-3/4	250 (300-3/4)	
LNAV MDA		400-1	364 (400-1)	
CIRCLING	500-1	464 (500-1)	500-1 1/2 464 (500-1 1/2)	680-2 644 (700-2)

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

HARLINGEN, TEXAS

AL-827 (FAA)

16035

WAAS CH 78230 W13A	APP CRS 131°	Rwy Idg TDZE Apt Elev	7257 35 36
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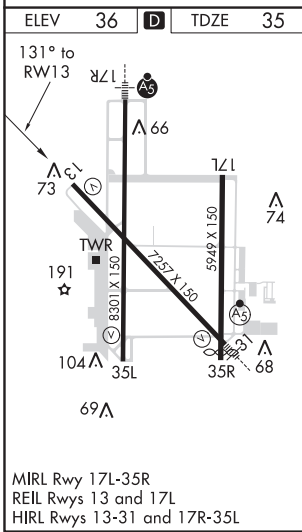
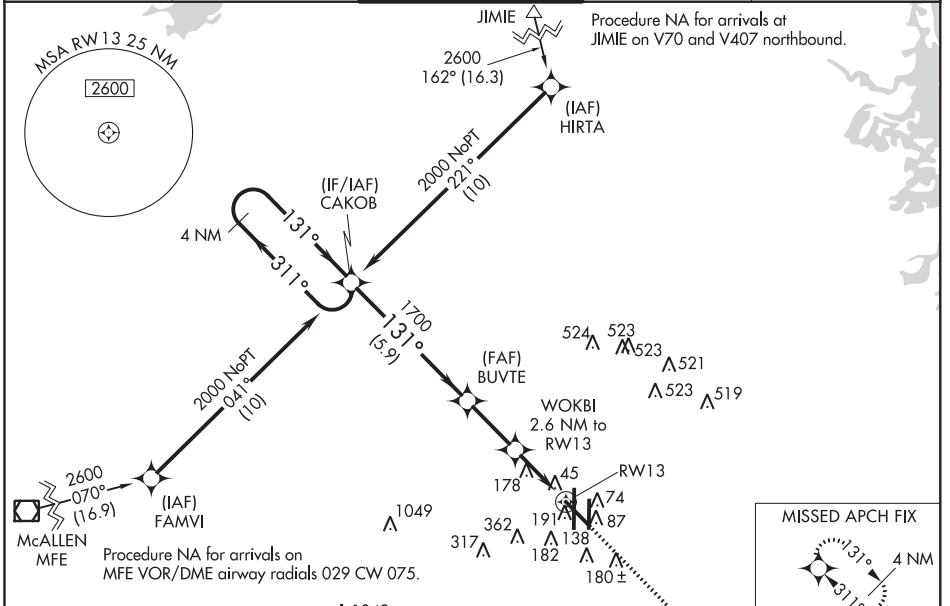
RNAV (GPS) Y RWY 13

VALLEY INTL (HRL)

⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Port Isabel altimeter setting and increase all DA 42 feet and all MDA 60 feet; increase LPV and LNAV/VNAV all Cats visibility 1/8 mile, LNAV Cats C/D and Circling Cat D visibility 1/4 mile. Baro-VNAV and VDP NA with Port Isabel altimeter setting.

MISSED APPROACH:
Climb to 2000 direct AMAPE and hold.

ATIS 124.85	VALLEY APP CON 120.7 279.5	HARLINGEN TOWER ★ 119.3 (CTAF) 0 317.6	GND CON 121.7	UNICOM 122.95
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ELEV 36	D	TDZE 35				
<p>4 NM Holding Pattern CAKOB</p> <p>2000 ← 311° 131° →</p> <p>GP 3.00° TCH 59</p> <p>1700 ↘ 131° ↘</p> <p>5.9 NM 2.4 NM 1.5 NM 1.1</p>			2000	AMAPE		
			<p>BUVTE WOKBI</p> <p>1700 2.6 NM to RW13</p> <p>*1.1 NM to RW13</p> <p>*LNAV only</p>			
CATEGORY	A	B	C	D		
LPV DA	285-3/4		250 (300-3/4)			
LNAV/VNAV DA	328-7/8		293 (300-7/8)			
LNAV MDA	440-1 405 (500-1)		440-1 1/8 405 (500-1 1/8)			
CIRCLING	500-1 464 (500-1)		500-1 1/2 464 (500-1 1/2)		680-2 644 (700-2)	

HARLINGEN, TEXAS
Amdt 2A 02APR15

26°14'N-97°39'W

RNAV (GPS) Y RWY 13

VALLEY INTL (HRL)

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

WAAS CH 50131 W17A	APP CRS 176°	Rwy Idg 8301 TDZE 35 Apt Elev 36
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RNAV (GPS) Y RWY 17R

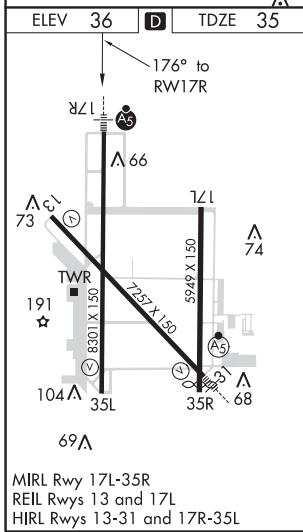
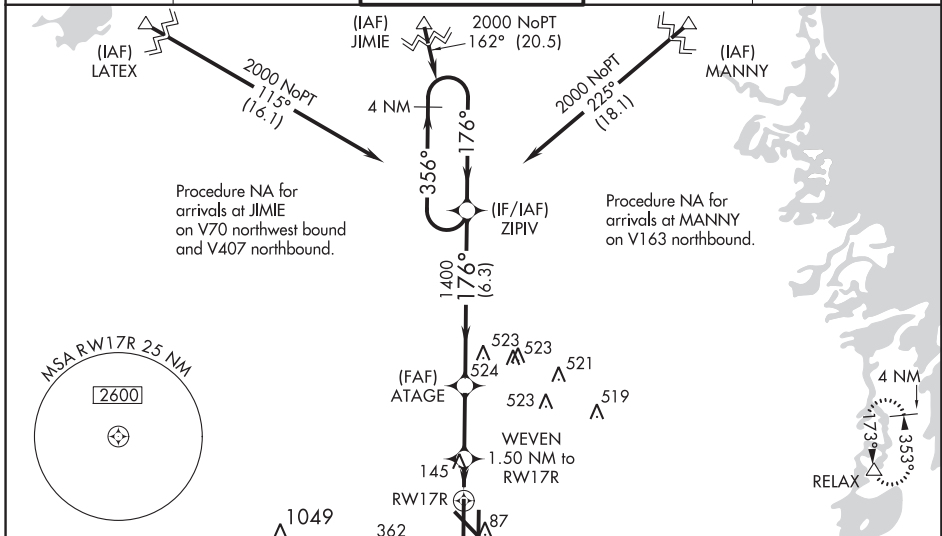
VALLEY INTL (H.R.L.)

⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below 2°C (36°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. When local altimeter setting not received, use Port Isabel altimeter setting and increase all DA 42 feet and all MDA 60 feet; increase LNAV Cats C and D visibility to RVR 4000, and Circling Cat D visibility ¼ mile. For inoperative MALSR, increase LNAV/VNAV all Cats visibility to RVR 4000, LNAV all Cats visibility to RVR 5500. For inoperative MALSR, when using Port Isabel altimeter setting, increase LNAV/VNAV all Cats visibility to RVR 4500, LNAV Cats A and B visibility to RVR 5500 and Cats C and D visibility to ¼ mile. Barro-VNAV NA with Port Isabel altimeter setting. VDP NA with Port Isabel altimeter setting.

MALSR

MISSED APPROACH:
Climb to 500 then climbing left turn to 2000 direct RELAX and hold

ATIS 124.85	VALLEY APP CON 120.7 279.5	HARLINGEN TOWER* 119.3 (CTAF) 0 317.6	GND CON 121.7	UNICOM 122.95
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500	2000	RELAX	WEVEN 1.5 NM to RWY 17R	ATAGE 1400	ZIPIV 4 NM Holding Pattern	2000
*LNAV only		*1 NM to RWY 17R	560*	1400	356°	176°
1 NM		0.5	2.6 NM	6.3 NM	GP 3.00° TCH 55	
CATEGORY	A	B	C	D		
LPV DA	235/24		200 (200-½)			
LNAV/VNAV DA	285/24		250 (300-½)			
LNAV MDA	400/24	365 (400-½)	400/35	365 (400-¾)		
CIRCLING	500-1	464 (500-1)	500-1½	680-2	644 (700-2)	

SC-3, 10 NOV 2016 to 05 JAN 2017

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HARLINGEN, TEXAS

AL-827 (FAA)


16035

WAAS CH 82530 W31A	APP CRS 311°	Rwy Idg 7257 TDZE 36 Apt Elev 36
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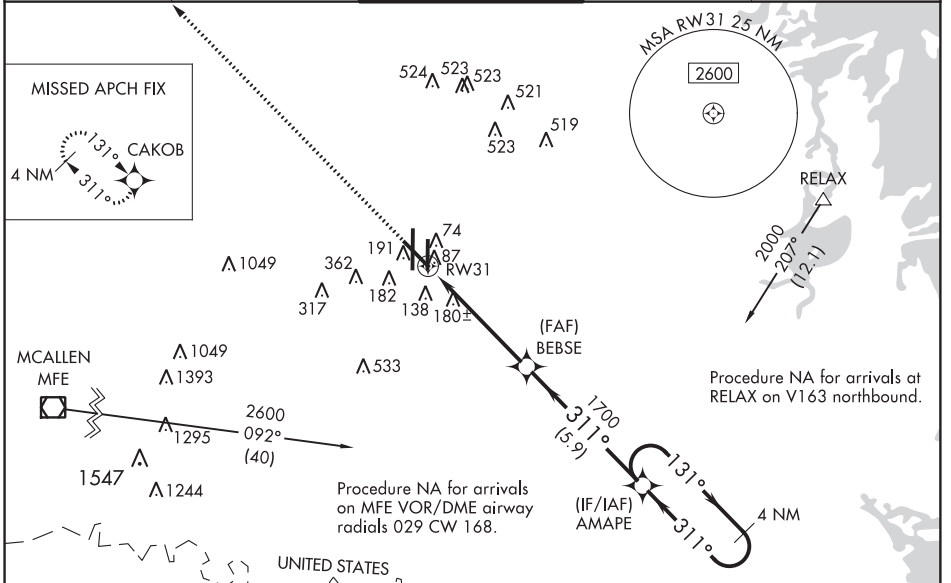
RNAV (GPS) Y RWY 31

VALLEY INTL (HRL)

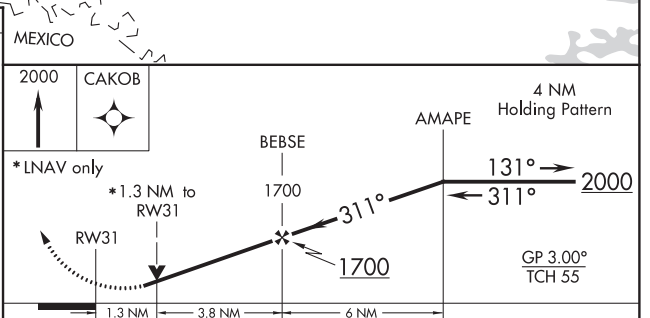
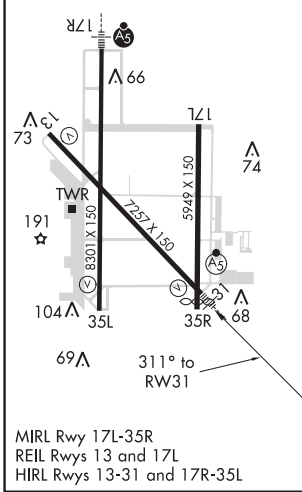
▼ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Port Isabel altimeter setting and increase all DA 42 feet and all MDA 60 feet; increase LPV and LNAV/VNAV all Cats and LNAV Cots C/D visibility 1/8 mile, Circling Cat D visibility 1/4 mile. Baro-VNAV and VDP NA with Port Isabel altimeter setting.

MALSR  MISSED APPROACH: Climb to 2000 direct CAKOB and hold.

ATIS 124.85	VALLEY APP CON 120.7 279.5	HARLINGEN TOWER ★ 119.3 (CTAF) 317.6	GND CON 121.7	UNICOM 122.95
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ELEV 36	D	TDZE 36
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CATEGORY	A	B	C	D
LPV DA	286-3/4 250 (300-3/4)			
LNAV/VNAV DA	286-3/4 250 (300-3/4)			
LNAV MDA	500-1	464 (500-1)	500-1 3/8	464 (500-1 3/8)
CIRCLING	500-1	464 (500-1)	500-1 1/2	680-2 464 (500-1 1/2) 644 (700-2)

HARLINGEN, TEXAS
Amdt 2A 02APR15

26°14'N-97°39'W

RNAV (GPS) Y RWY 31

VALLEY INTL (HRL)

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

WAAS CH 86530 W35B	APP CRS 356°	Rwy Idg TDZE Apt Elev	8301 36 36
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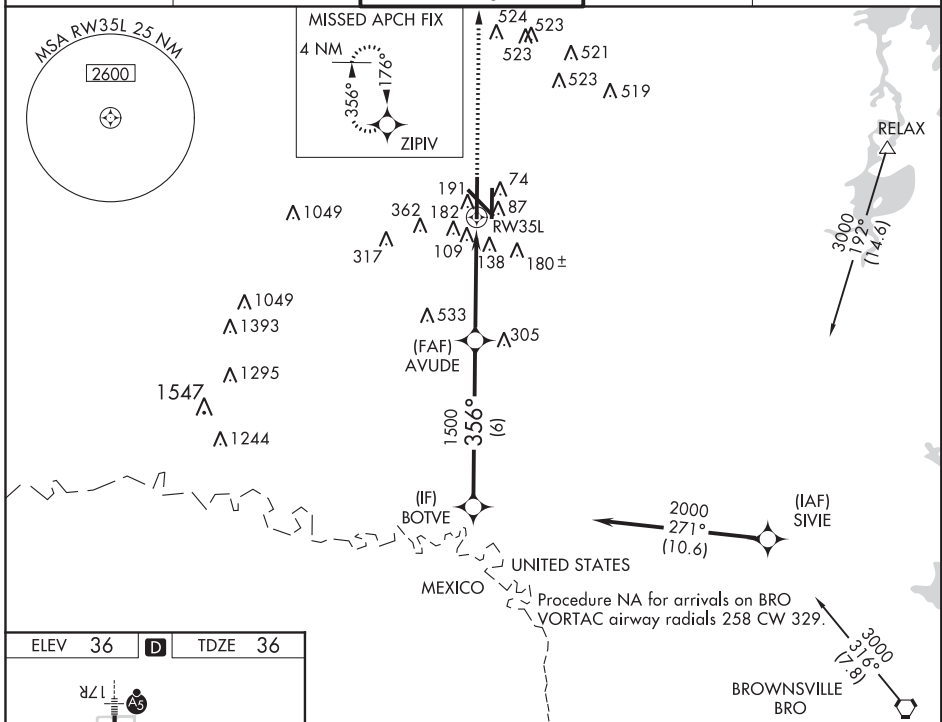
RNAV (GPS) Y RWY 35L

VALLEY INTL (H.R.L.)

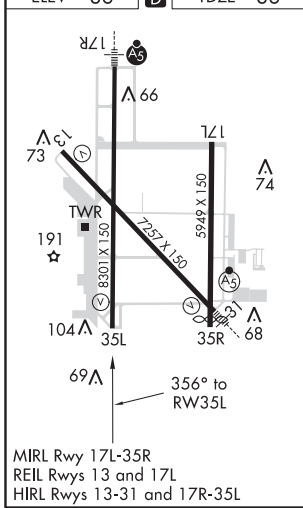
⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. When local altimeter setting not received, use Port Isabel altimeter setting and increase all DA 42 feet and all MDA 60 feet; increase LPV and LNAV/VNAV all Cats and LNAV Cats C/D visibility 1/8 mile, Circling Cat D visibility 1/4 mile. Baro-VNAV and VDP NA with Port Isabel altimeter setting.

MISSED APPROACH:
Climb to 2000 direct ZIPIV and hold.

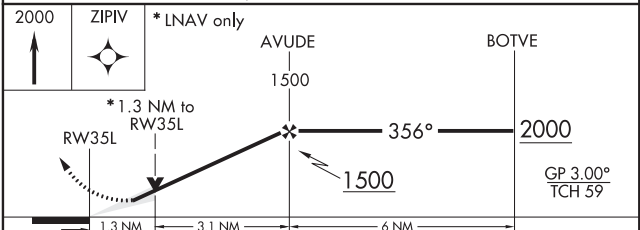
ATIS 124.85	VALLEY APP CON 120.7 279.5	HARLINGEN TOWER * 119.3 (CTAF) 317.6	GND CON 121.7	UNICOM 122.95
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ELEV 36	D	TDZE 36
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HARLINGEN, TEXAS
Amdt 2A 02APR15



CATEGORY	A	B	C	D
LPV DA		286-3/4	250 (300-3/4)	
LNAV/VNAV DA		376-1 1/8	340 (400-1 1/8)	
LNAV MDA	500-1	464 (500-1)	500-1 3/8	464 (500-1 3/8)
CIRCLING	500-1	464 (500-1)	500-1 1/2	680-2
			464 (500-1 1/2)	644 (700-2)

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

HARLINGEN, TEXAS

AL-827 (FAA)

16035

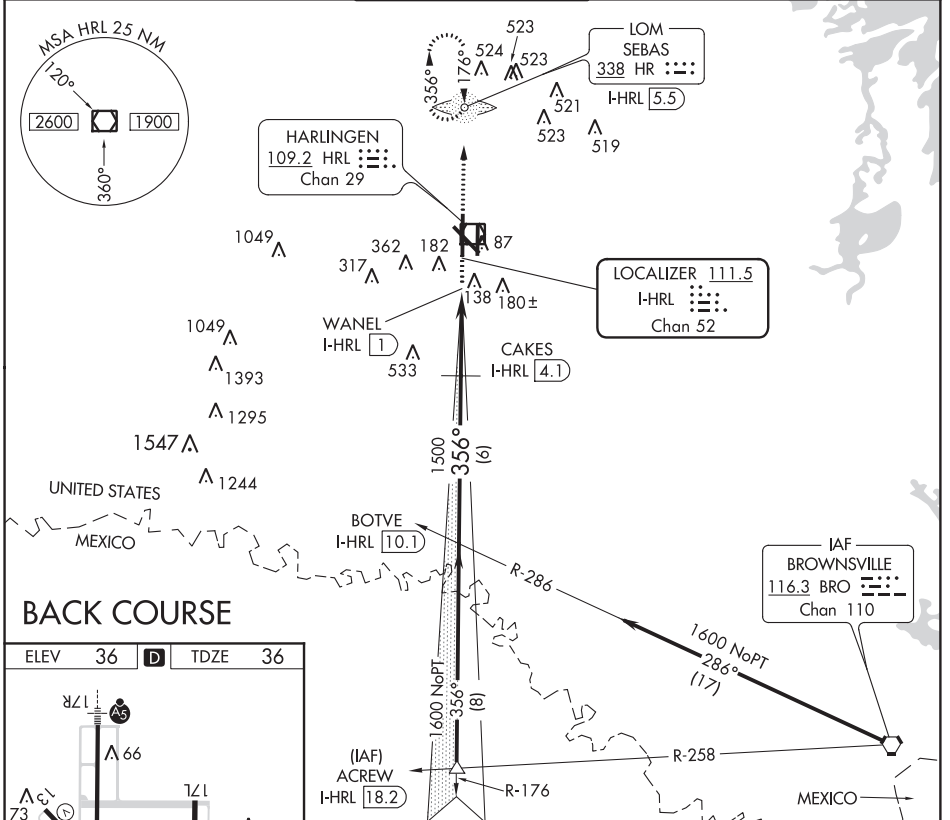
LOC/DME I-HRL 111.5 Chan 52	APP CRS 356°	Rwy Idg TDZE Apt Elev	8301 36 36
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LOC/DME BC RWY 35L

VALLEY INTL (H.R.L)

⚠ LOC BC unusable from 1NM inbound. Disregard glide slope indications. **⚠** MISSED APPROACH: Climb to 1600 via I-HRL north course to SEBAS/I-HRL 5.5 DME and hold.

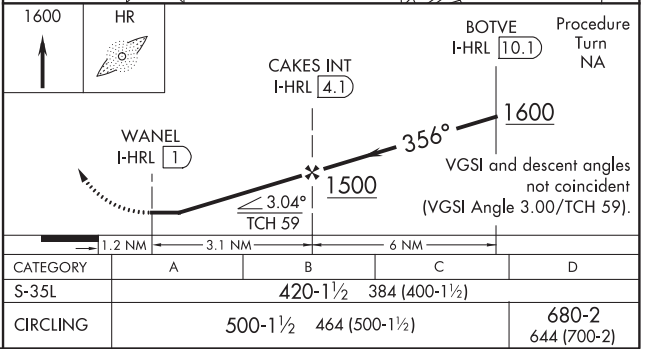
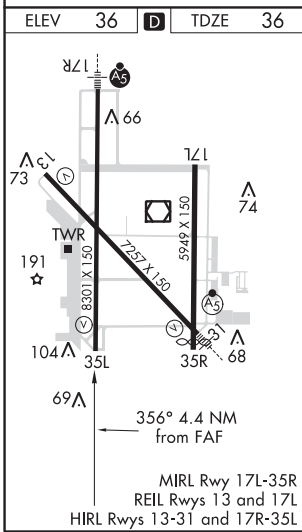
ATIS 124.85	VALLEY APP CON 120.7 279.5	HARLINGEN TOWER ★ 119.3 (CTAF) 317.6	GND CON 121.7	UNICOM 122.95
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SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

BACK COURSE



HARLINGEN, TEXAS
Orig 300CT03

26°14'N-97°39'W

VALLEY INTL (H.R.L) LOC/DME BC RWY 35L

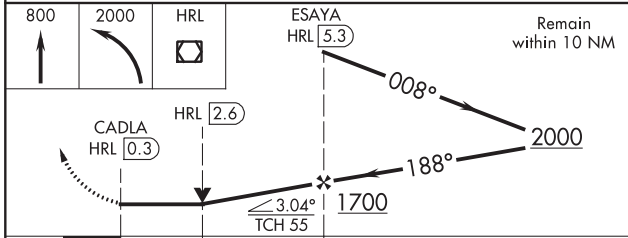
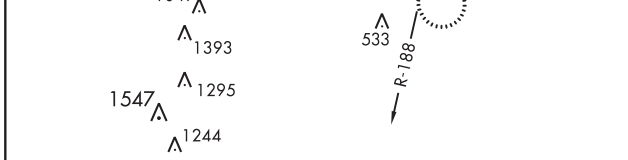
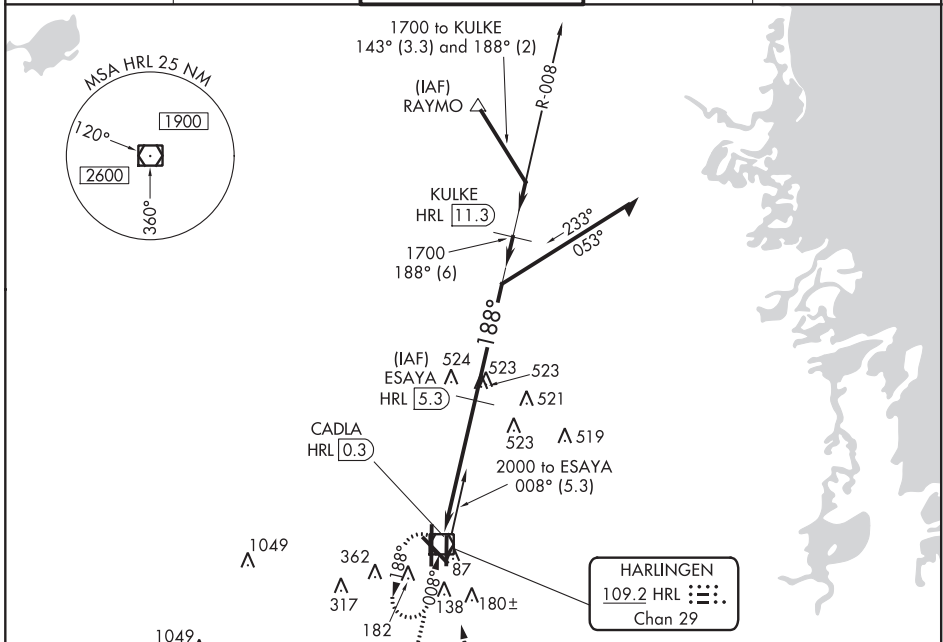
VOR/DME HRL	APP CRS	Rwy Idg	5949
109.2	188°	TDZE	34
Chan 29		Apt Elev	36

VOR/DME RWY 17L

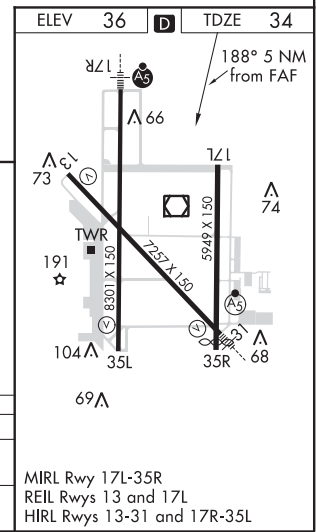
VALLEY INTL (HRL)

MISSED APPROACH: Climb to 800 then climbing left turn to 2000 direct HRL VOR/DME and hold.

ATIS 124.85	VALLEY APP CON 120.7 279.5	HARLINGEN TOWER ★ 119.3 (CTAF) 0 317.6	GND CON 121.7	UNICOM 122.95
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CATEGORY	A	B	C	D
S-17L	840-1 806 (900-1)	840-1¼ 806 (900-1¼)	840-2½	806 (900-2½)
CIRCLING	840-1 804 (900-1)	840-1¼ 804 (900-1¼)	840-2½	804 (900-2½)



SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

HARLINGEN, TEXAS

AL-827 (FAA)

16035

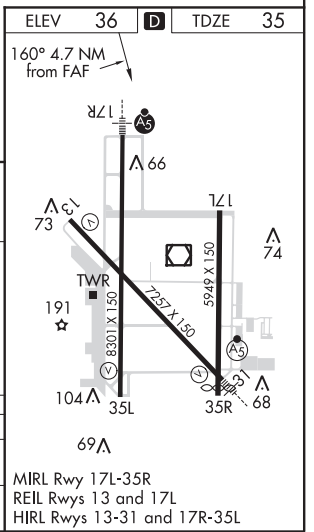
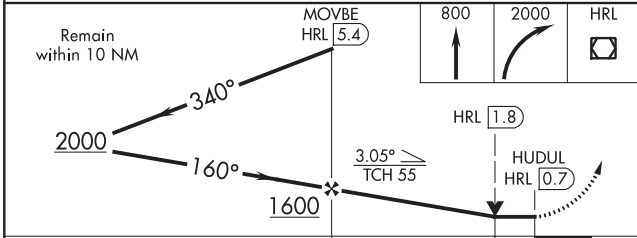
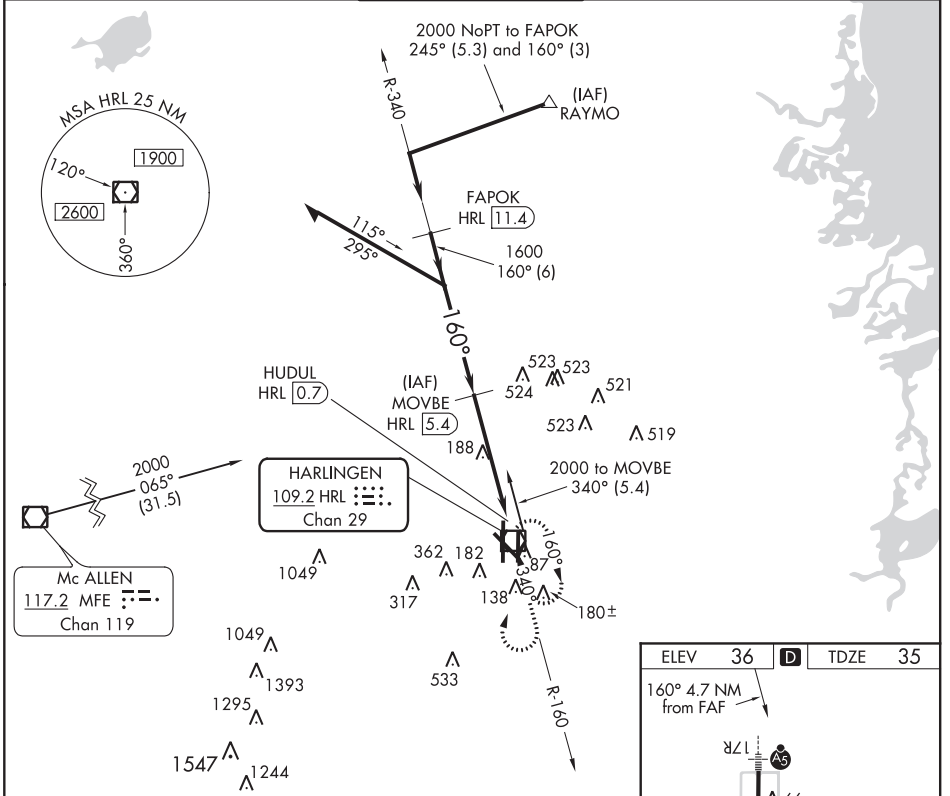
VOR/DME HRL 109.2 Chan 29	APP CRS 160°	Rwy Idg TDZE Apt Elev	8301 35 36
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VOR/DME RWY 17R

VALLEY INTL (HRL)

MISSED APPROACH: Climb to 800 then climbing right turn to 2000 direct HRL VOR/DME and hold.

ATIS 124.85	VALLEY APP CON 120.7 279.5	HARLINGEN TOWER ★ 119.3 (CTAF) 317.6	GND CON 121.7	UNICOM 122.95
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CATEGORY	A	B	C	D
S-17R	440/24	405 (500-1/2)	440/40	405 (500-3/4)
CIRCLING	500-1	464 (500-1)	500-3/4 464 (500-1 1/2)	680-3/4 644 (700-2)

HARLINGEN, TEXAS
Orig-A 25JUN15

26°14'N-97°39'W

VALLEY INTL (HRL)

VOR/DME RWY 17R

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

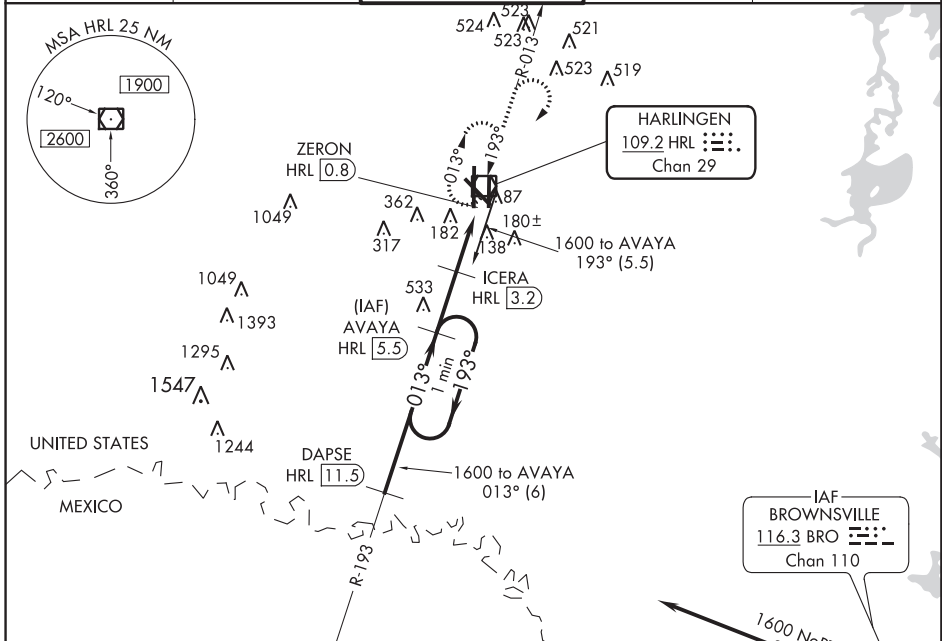
VOR/DME HRL	APP CRS	Rwy Idg	8301
109.2	013°	TDZE	36
Chan 29		Apt Elev	36

VOR/DME RWY 35L

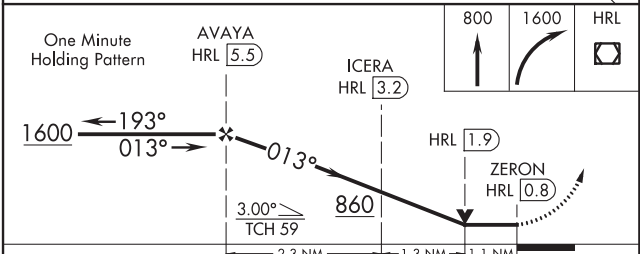
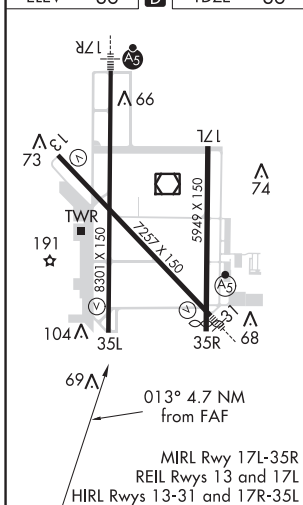
VALLEY INTL (H.R.L.)

MISSED APPROACH: Climb to 800 then climbing right turn to 1600 direct HRL VOR/DME and hold.

ATIS 124.85	VALLEY APP CON 120.7 279.5	HARLINGEN TOWER * 119.3 (CTAF) 317.6	GND CON 121.7	UNICOM 122.95
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ELEV	36	D	TDZE	36
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CATEGORY	A	B	C	D
S-35L	440-1	404 (500-1)	440-1¼	404 (500-1¼)
CIRCLING	500-1	464 (500-1)	500-1½ 464 (500-1½)	680-2 644 (700-2)

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

HARLINGEN, TEXAS

AL-827 (FAA)

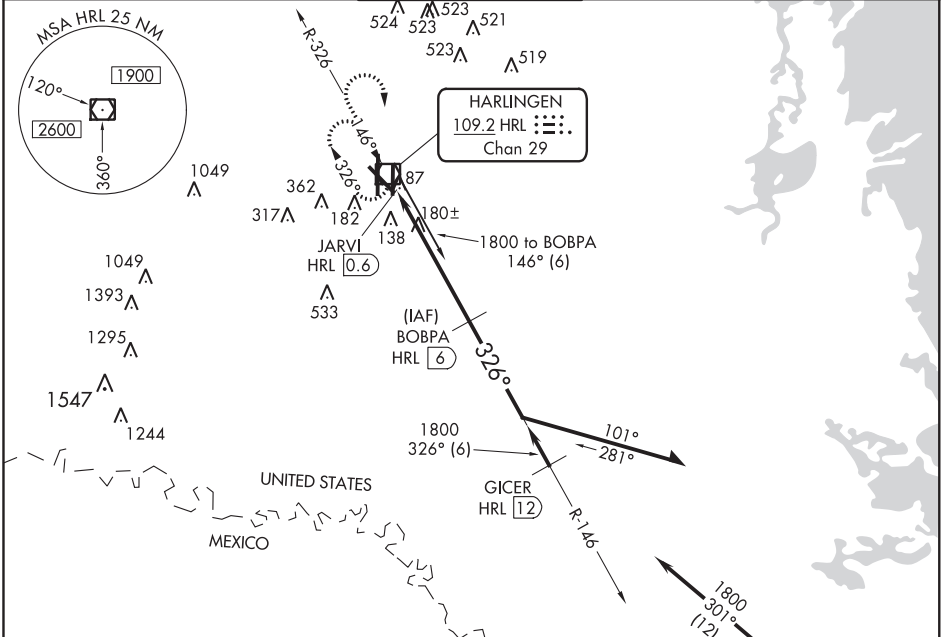
16035

VOR/DME HRL 109.2 Chan 29	APP CRS 326°	Rwy Idg TDZE Apt Elev 7257 36 36
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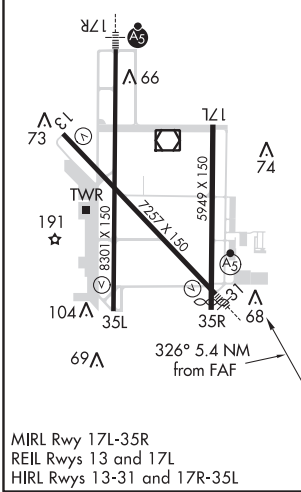
VOR/DME Z RWY 31

VALLEY INTL (HRL)

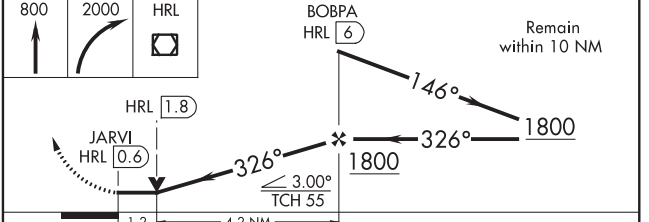
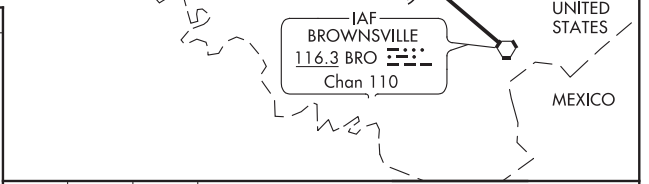
	MALS R 	MISSED APPROACH: Climb to 800 then climbing right turn to 2000 direct HRL VOR/DME and hold.		
ATIS 124.85	VALLEY APP CON 120.7 279.5	HARLINGEN TOWER * 119.3 (CTAF) 317.6	GND CON 121.7	UNICOM 122.95



ELEV 36	D	TDZE 36
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MIRL Rwy 17L-35R
REIL Rwys 13 and 17L
HIRL Rwys 13-31 and 17R-35L



CATEGORY	A	B	C	D
S-31	480-1 444 (500-1)		480-1 $\frac{3}{8}$ 444 (500-1 $\frac{3}{8}$)	
CIRCLING	500-1 464 (500-1)		500-1 $\frac{1}{2}$ 644 (500-1 $\frac{1}{2}$)	680-2 644 (700-2)

HARLINGEN, TEXAS
Orig-A 23JUL15

26°14'N-97°39'W

VALLEY INTL (HRL) VOR/DME Z RWY 31

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

VOR/DME Y or TACAN RWY 31

VALLEY INTL (HRL)

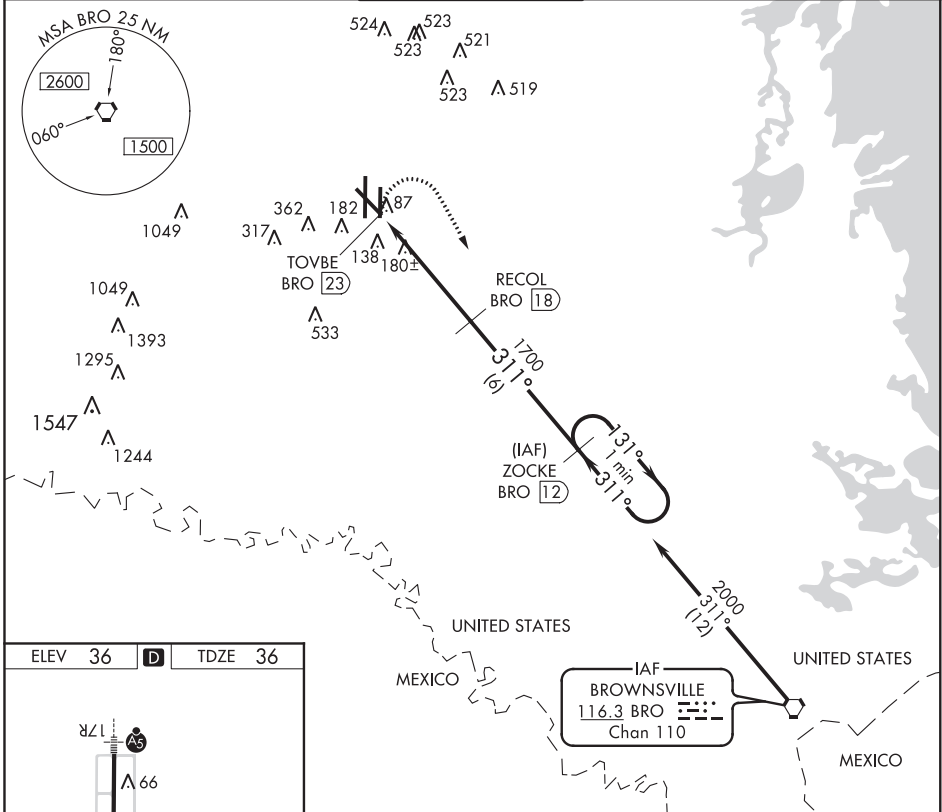
VORTAC BRO 116.3 Chan 110	APP CRS 311°	Rwy Idg 7257 TDZE 36 Apt Elev 36
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▼ When local altimeter setting not received, use Port Isabel altimeter setting and increase all MDA 60 feet.

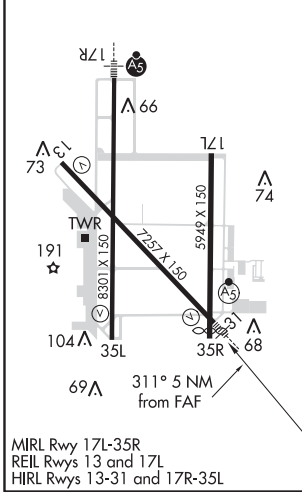
MALS R 

MISSED APPROACH: Climbing right turn to 2000 via BRO R-311 to ZOCKE/12 DME and hold.

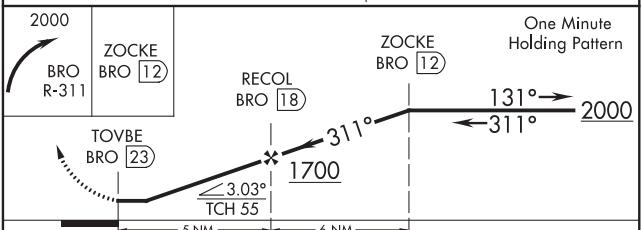
ATIS 124.85	VALLEY APP CON 120.7 279.5	HARLINGEN TOWER ★ 119.3 (CTAF) 317.6	GND CON 121.7	UNICOM 122.95
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ELEV 36	D	TDZE 36
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MIRL Rwy 17L-35R
REIL Rwy 13 and 17L
HIRL Rwy 13-31 and 17R-35L



CATEGORY	A	B	C	D
S-31	1000-1¼ 964 (1000-1¼)	1000-1½ 964 (1000-1½)	1000-3	964 (1000-3)
CIRCLING	1000-1¼ 964 (1000-1¼)	1000-1½ 964 (1000-1½)	1000-3	964 (1000-3)

VOR/DME Y or TACAN RWY 31

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

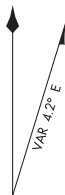
AIRPORT DIAGRAM

AL-827 (FAA)

VALLEY INTL (HRL)
HARLINGEN, TEXAS

ATIS
124.85
HARLINGEN TOWER ★
119.3 317.6
GND CON
121.7

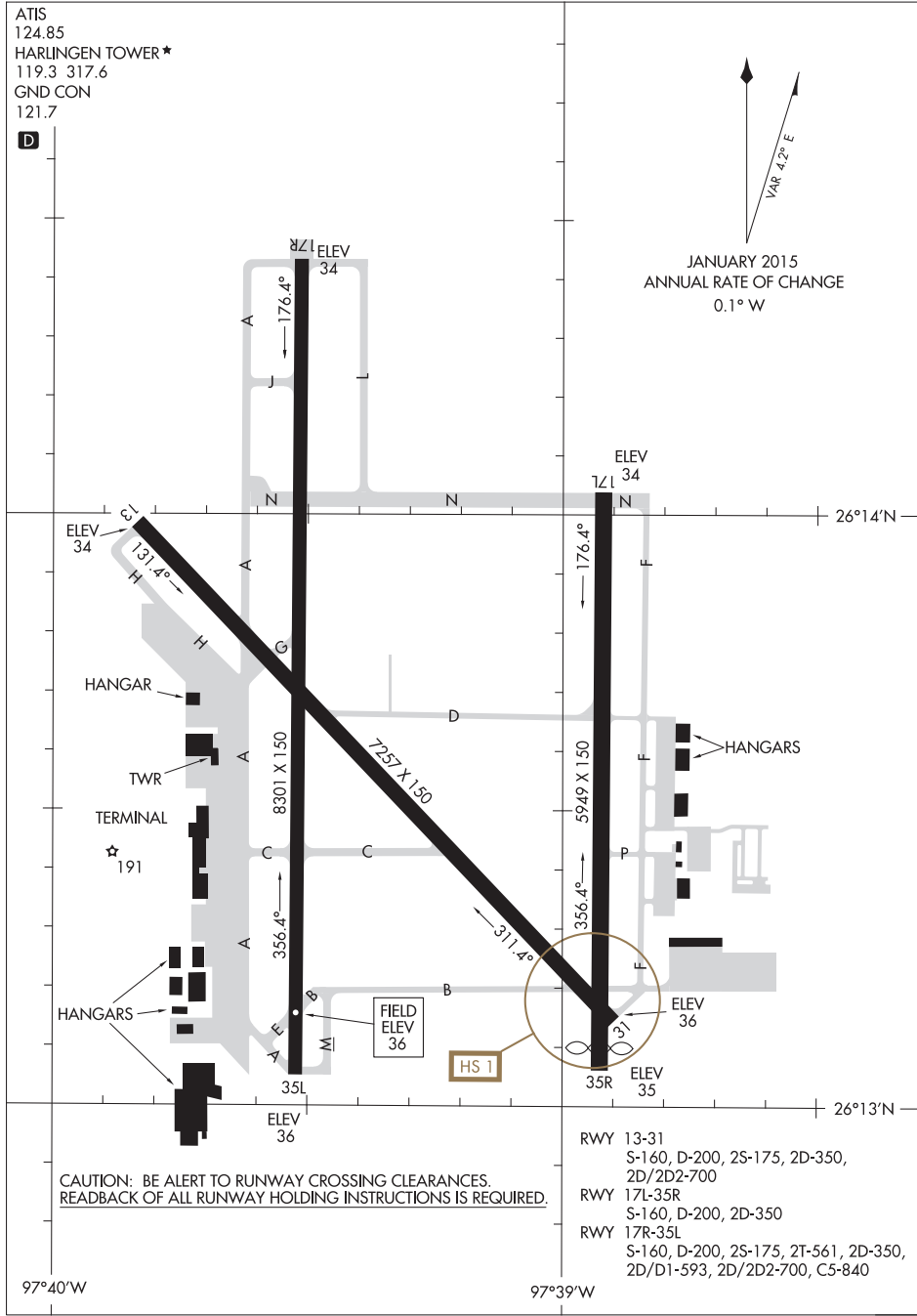
D



JANUARY 2015
ANNUAL RATE OF CHANGE
0.1° W

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017



CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

- RWY 13-31
S-160, D-200, 2S-175, 2D-350,
2D/2D2-700
- RWY 17L-35R
S-160, D-200, 2D-350
- RWY 17R-35L
S-160, D-200, 2S-175, 2T-561, 2D-350,
2D/D1-593, 2D/2D2-700, C5-840

97°40'W

97°39'W

AIRPORT DIAGRAM

15176

HARLINGEN, TEXAS
VALLEY INTL (HRL)

WAAS CH 45918 W13A	APP CRS 128°	Rwy Idg TDZE Apt Elev	5003 661 663
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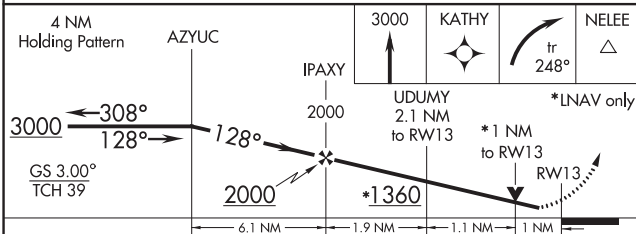
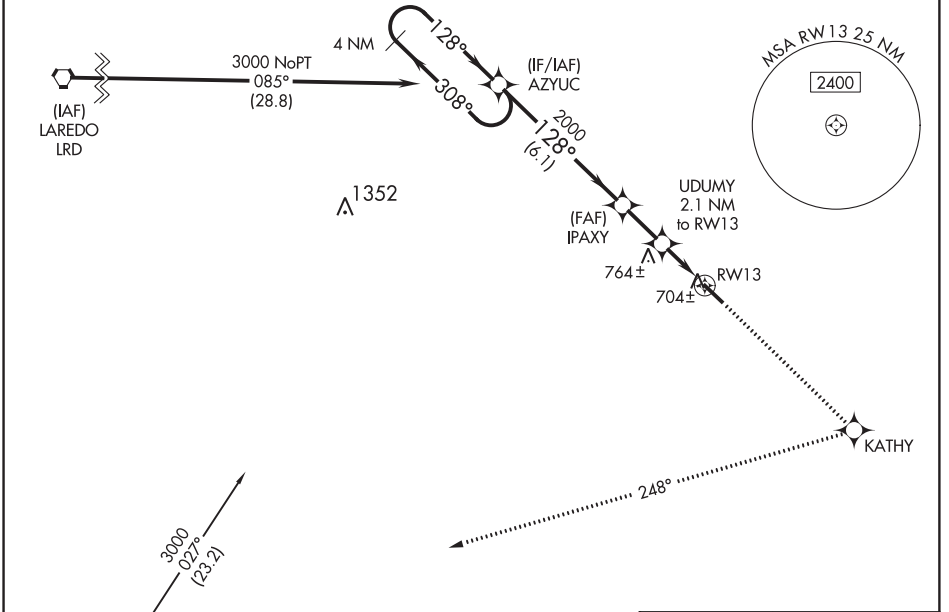
RNAV (GPS) RWY 13

HEBBRONVILLE/JIM HOGG COUNTY (HBV)

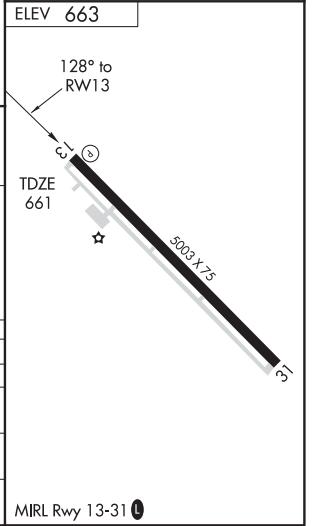
⚠ Baro-VNAV NA when using Laredo altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Laredo altimeter setting and increase all DA 115 feet and all MDA 120 feet; increase LPV all Cats, and LNAV Cat C visibility ¼ mile and LNAV/VNAV all Cats visibility ½ mile. VDP NA with Laredo altimeter setting.

⚠ MISSED APPROACH: Climb to 3000 direct KATHY and right turn on track 248° to NELEE and hold

AWOS-3 118.075	HOUSTON CENTER 127.8 307.2	UNICOM 122.8 (CTAF) 0
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CATEGORY	A	B	C	D
LPV DA	911-1	250 (300-1)		NA
LNAV/VNAV DA	974-1	313 (400-1)		NA
LNAV MDA	1020-1	359 (400-1)		NA
CIRCLING	1020-1 357 (400-1)	1120-1 457 (500-1)	1120-1½ 457 (500-1½)	NA



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SC-3, 10 NOV 2016 to 05 JAN 2017

WAAS CH 69619 W17A	APP CRS 172°	Rwy Idg TDZE Apt Elev	6002 929 930
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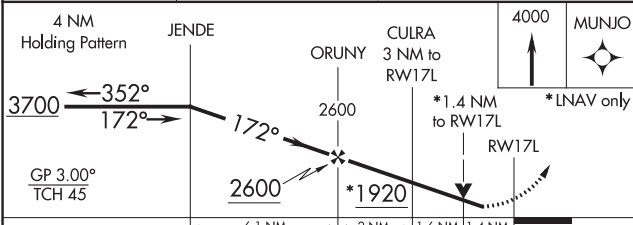
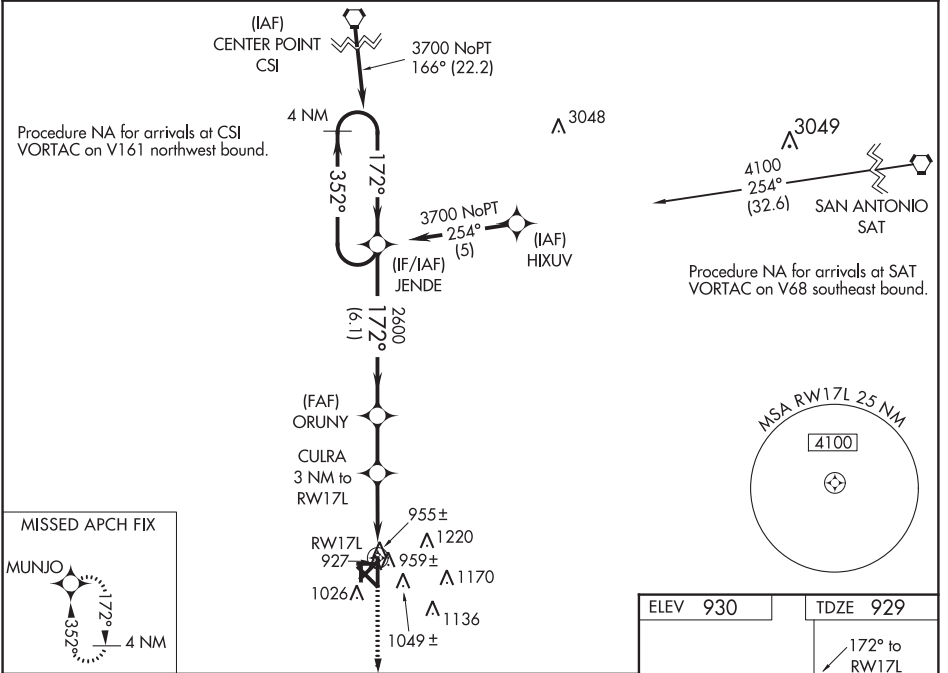
RNAV (GPS) RWY 17L

SOUTH TEXAS RGNL AT HONDO (HDO)

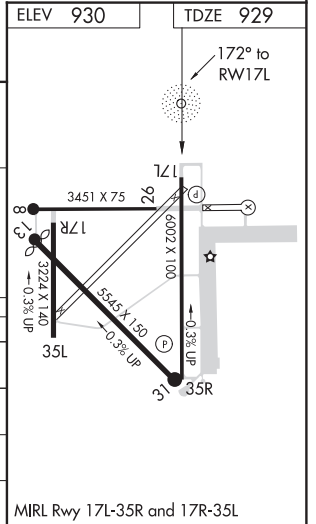
Baro-VNAV NA when using Castroville altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 47°C (116°F).
DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Castroville altimeter setting and increase all DA 62 feet and all MDA 80 feet, increase LNAV/VNAV all Cats, and LNAV and Circling Cats C and D visibility ¼ mile. VDP NA with Castroville altimeter setting.

MISSED APPROACH: Climb to 4000 direct MUNJO and hold, continue climb-in-hold to 4000.

ASOS 119.675	HOUSTON CENTER 134.95 269.4	UNICOM 122.725 (CTAF)
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CATEGORY	A	B	C	D
LPV DA		1179-1	250 (300-1)	
LNAV/VNAV DA		1314-1¼	385 (400-1¼)	
LNAV MDA	1420-1	491 (500-1)	1420-1¼ 491 (500-1¼)	1420-1½ 491 (500-1½)
CIRCLING	1420-1	490 (500-1)	1580-1¾ 650 (700-1¾)	1580-2 650 (700-2)



SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

WAAS CH 48820 W35A	APP CRS 352°	Rwy Idg 6002 TDZE 920 Apt Elev 930
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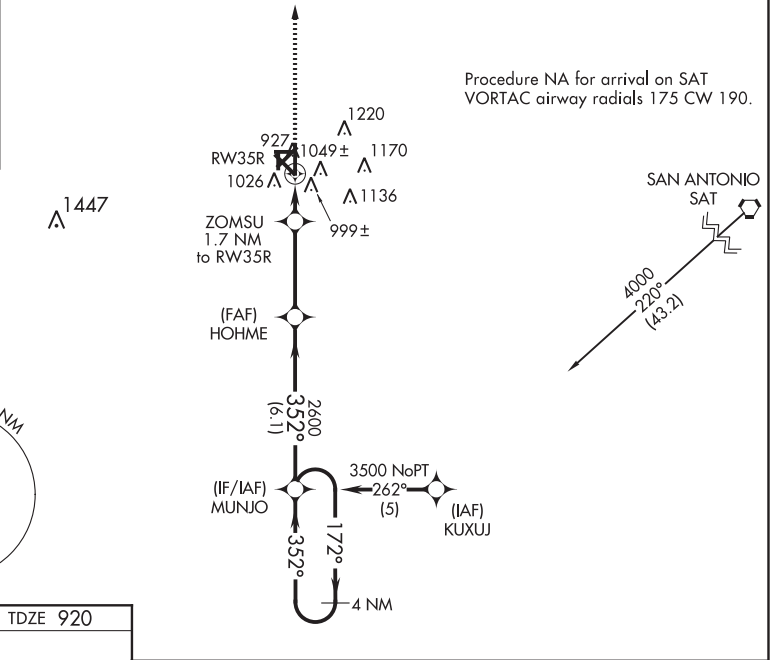
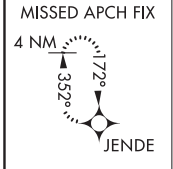
RNAV (GPS) RWY 35R

SOUTH TEXAS RGNL AT HONDO (HDO)

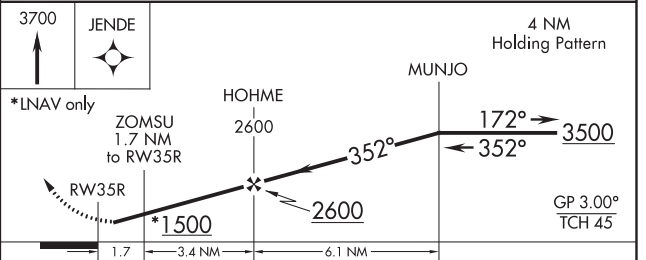
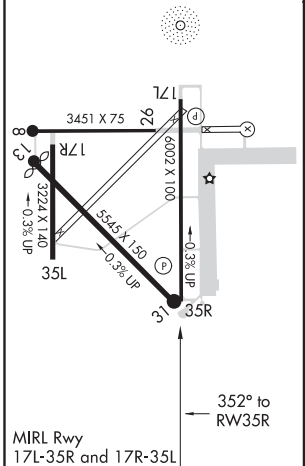
⚠ Baro-VNAV NA when using Castroville altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -1.6°C (4°F) or above 47°C (116°F). DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Castroville altimeter setting and increase all DA 62 feet and all MDA 80 feet, increase LNAV/VNAV all Cats, and LNAV and Circling Cats C and D visibility 1/4 mile.

MISSED APPROACH:
Climb to 3700 direct JENDE and hold.

ASOS 119.675	HOUSTON CENTER 134.95 269.4	UNICOM 122.725 (CTAF)
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ELEV 930	TDZE 920
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CATEGORY	A	B	C	D
LPV DA		1170-1	253 (300-1)	
LNAV/VNAV DA		1293-1¼	376 (400-1¼)	
LNAV MDA	1360-1	440 (500-1)	1360-1½ 440 (500-1¼)	1360-1½ 440 (500-1½)
CIRCLING	1420-1	490 (500-1)	1580-1¾ 650 (700-1¾)	1580-2 650 (700-2)

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

NDB HMA 329	APP CRS 352°	Rwy Idg TDZE Apt Elev	6002 920 930
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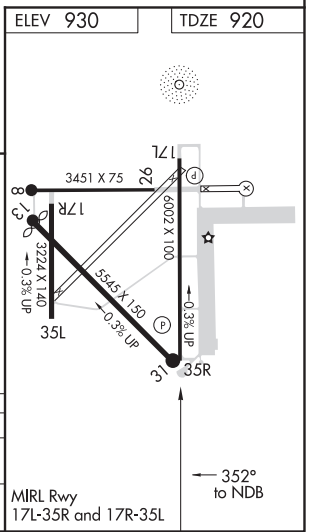
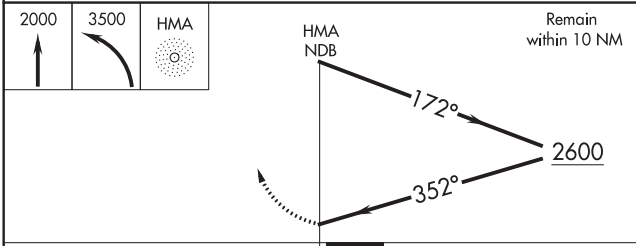
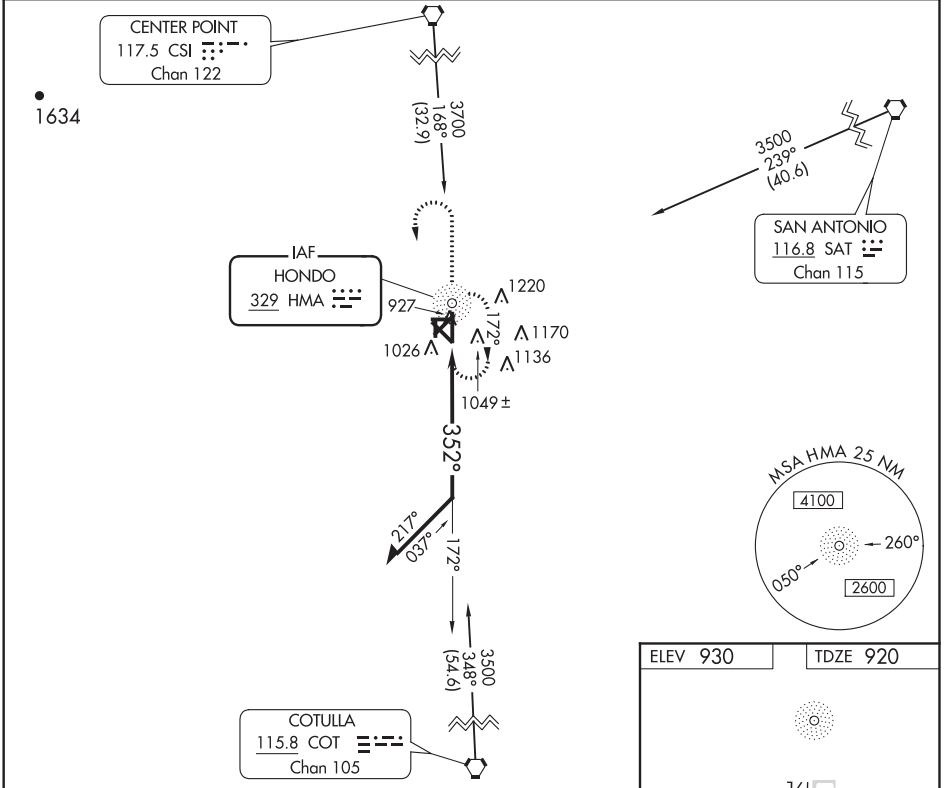
NDB RWY 35R

SOUTH TEXAS RGNL AT HONDO (HDO)

▼ Visibility reduction by helicopters NA.
▲ When local altimeter setting not received, use Castroville altimeter setting and increase all MDA 80 feet, increase all Cats C/D visibility ¼ mile.

MISSED APPROACH: Climb to 2000 then climbing left turn to 3500 direct to HMA NDB and hold.

ASOS 119.675	HOUSTON CENTER 134.95 269.4	UNICOM 122.725 (CTAF)
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CATEGORY	A	B	C	D
S-35R	1560-1	640 (700-1)	1560-1¾ 640 (700-1¾)	1560-2 640 (700-2)
CIRCLING	1560-1	630 (700-1)	1580-1¾ 650 (700-1¾)	1580-2 650 (700-2)

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

FORT HOOD (KILLEEN), TEXAS

COPTER RNAV (GPS) RWY 34

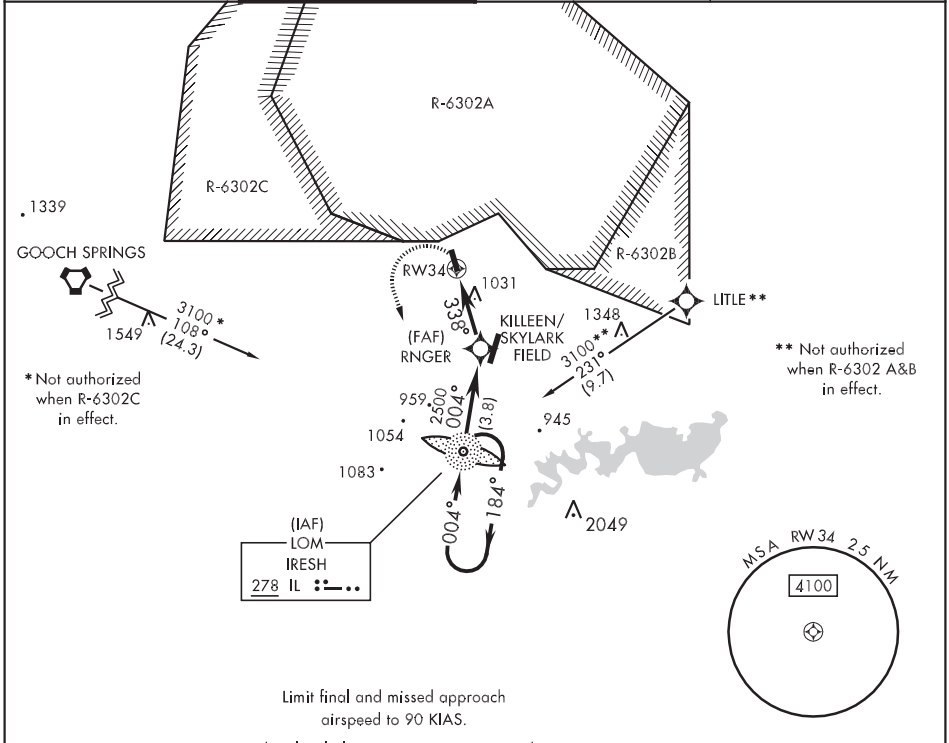
APCH CRS	Rwy Idg	3701
338°	TDZE	914
	Arpt Elev	924

AL-5031 [USA]

HOOD AAF (KHLR)

NA	DME/DME RNP -0.3 NA	MISSED APPROACH: Climbing left turn to 3100 direct IRESH LOM and hold.	
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GRAY APP CON 120.075 323.15	HOOD TOWER ★ 119.65 0 269.45	GND CON 133.85 225.4	CLNC DEL 225.4
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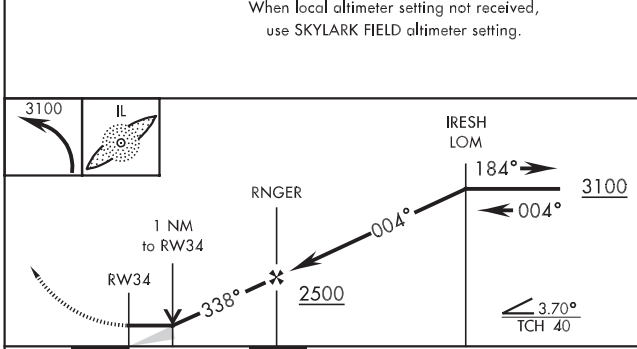


** Not authorized when R-6302 A&B in effect.

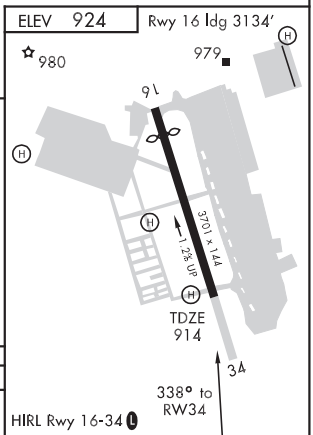
* Not authorized when R-6302C in effect.

Limit final and missed approach airspeed to 90 KIAS.

When local altimeter setting not received, use SKYLARK FIELD altimeter setting.



CATEGORY	COPTER		
LNAV MDA	1320-½	406	(500-½)



FORT HOOD (KILLEEN), TEXAS
Orig 11153

31°09'N-97°43'W

HOOD AAF (KHLR)

COPTER RNAV (GPS) RWY 34

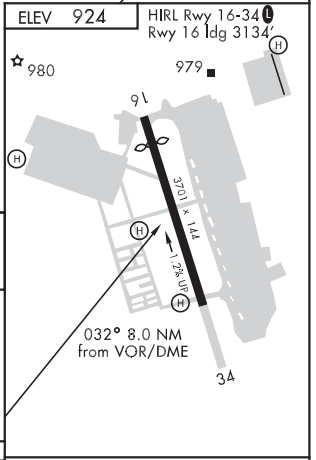
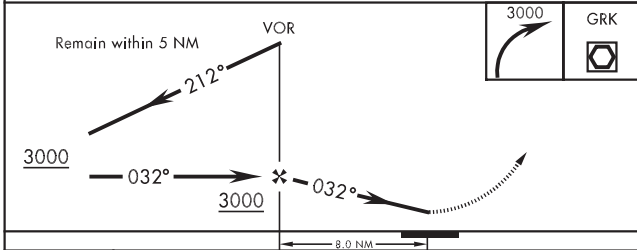
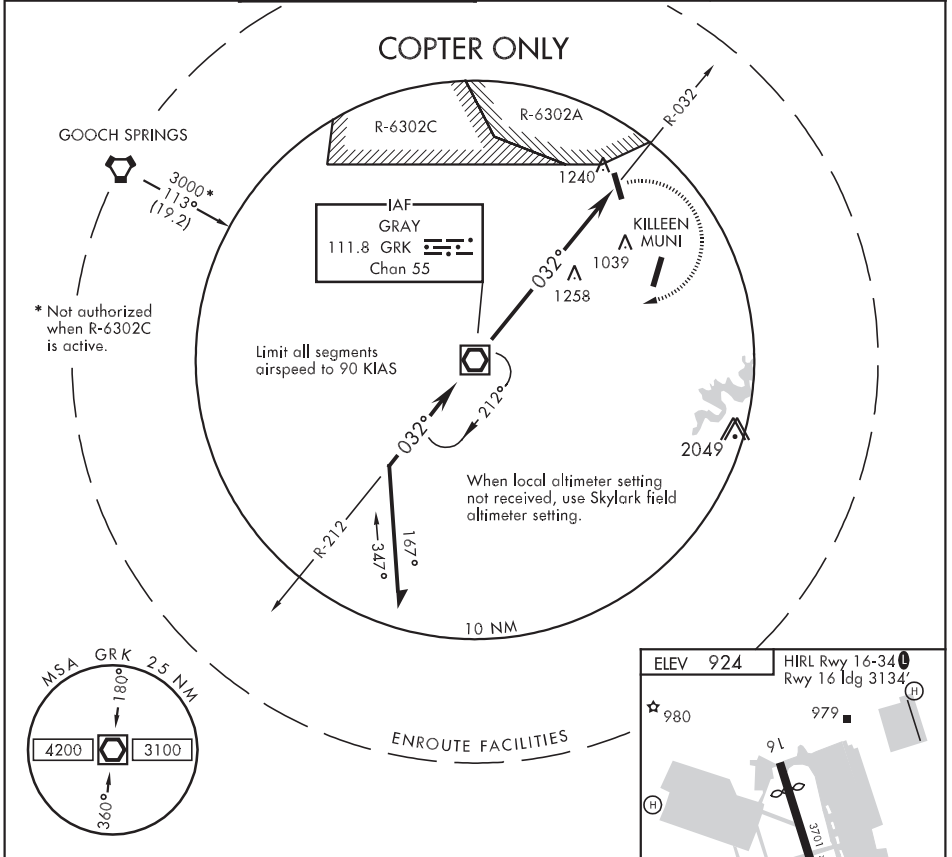
SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

VOR/DME GRK 111.8 Chan 55	APCH CRS 032°	Rwy Idg TDZE N/A N/A Arpt Elev 924	AL-5031 [USA]	HOOD AAF (KHLR)
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▼ MISSED APPROACH: Climbing right turn to 3000 direct to GRK VOR/DME and hold.

GRAY APP CON 120.075 323.15	HOOD TOWER ★ 119.650 269.45	GND CON 133.85 225.4	CLNC DEL 225.4
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CATEGORY	COPTER					FAF to MAP 8.0 NM					
H-032°	1600-¾ 676 (700-¾)					Knots	45	60	75	90	105
						Min:Sec	10:40	8:00	6:24	5:20	4:34

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

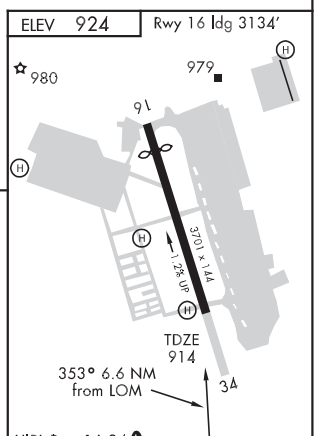
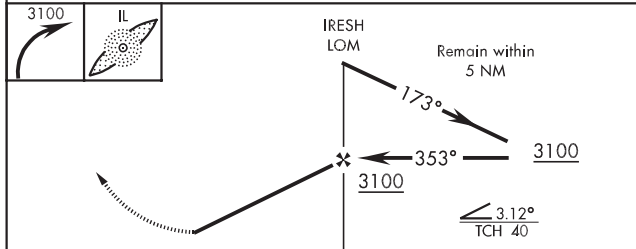
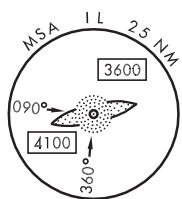
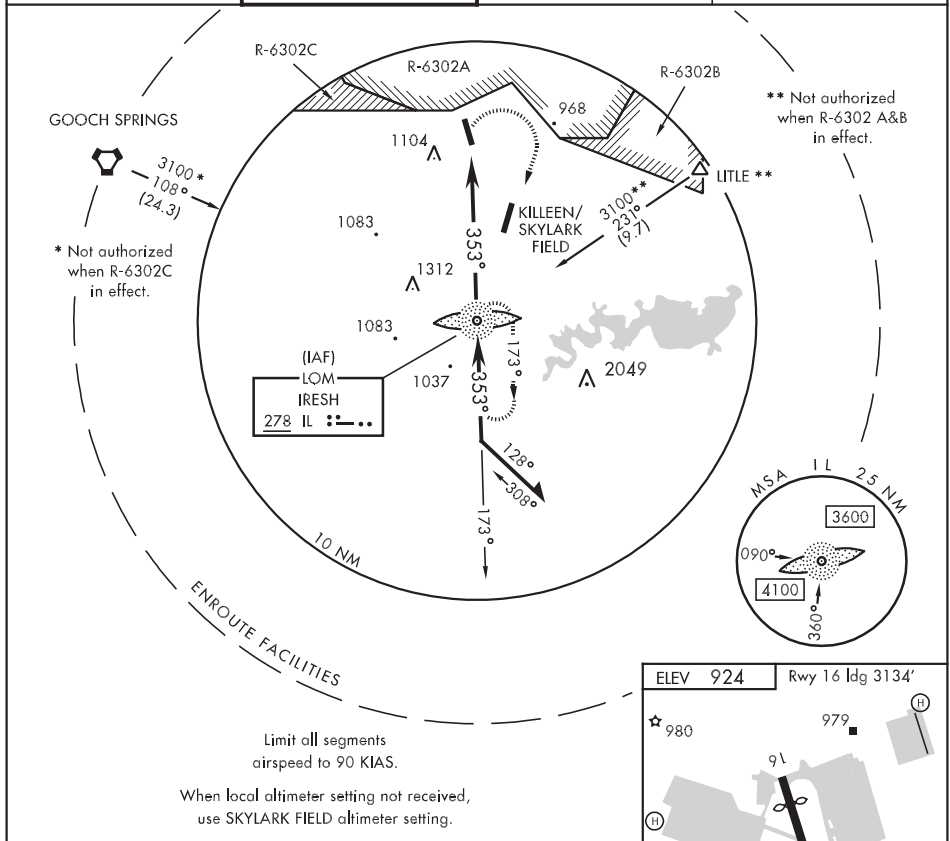
FORT HOOD (KILLEEN), TEXAS

COPTER NDB RWY 34

HOOD AAF (KHLR)

LOM IL 278	APCH CRS 353°	Rwy ldg TDZE Arpt Elev 3701 914 924	AL-5031 [USA]
<p>NA MISSED APPROACH: Climbing right turn to 3100 direct I.L LOM and hold.</p>			

GRAY APP CON 120.075 323.15	HOOD TOWER ★ 119.65 0 269.45	GND CON 133.85 225.4	CLNC DEL 225.4
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CATEGORY	COPTER			FAF to MAP 6.6 NM					
S-34	1400-¾	486	(500-¾)	Knots	45	60	75	90	105
				Min:Sec	8:48	6:36	5:17	4:24	3:46

FORT HOOD (KILLEEN), TEXAS 31°09'N-97°43'W HOOD AAF (KHLR)
Orig 11153

COPTER NDB RWY 34

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

AIRPORT DIAGRAM

AFD-5031 [USA]

FT HOOD, TEXAS

FT. HOOD TOWER ★
 119.65 269.45
 GND CON
 133.85 225.4
 CLNC DEL
 225.4

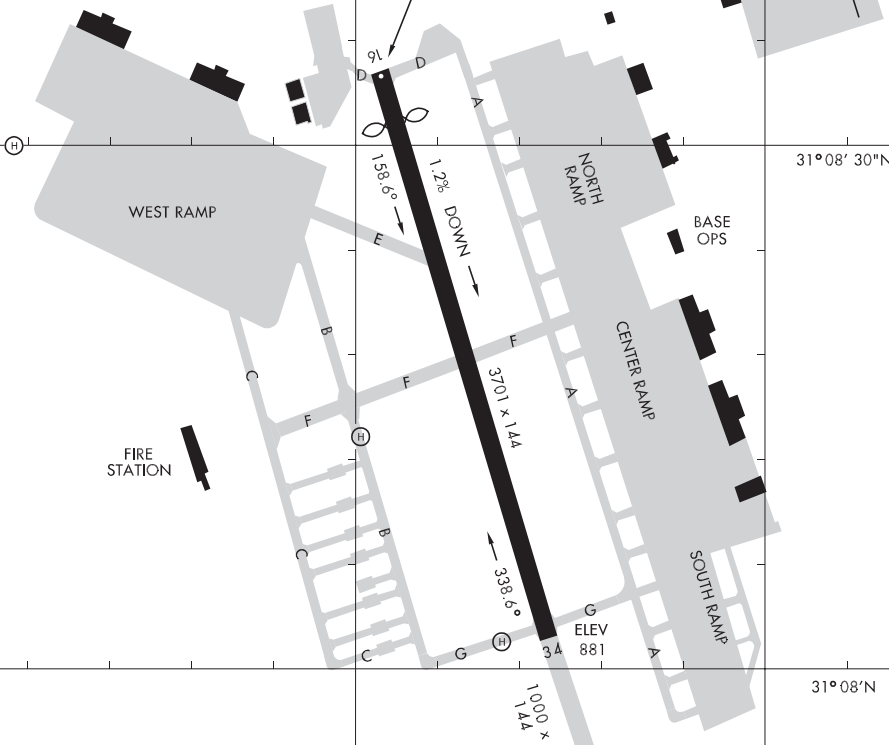
MAY 2012
 ANNUAL RATE OF CHANGE
 0.1°W



980
★

FIELD ELEV 924

CONTROL TOWER 979



31°08' 30"N

31°08'N

Rwy 16-34
 PCN 15 F/B/W/T

Rwy 16 ldg 3134'

97°43'W

W 03°24' 69

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

AIRPORT DIAGRAM

FT HOOD, TEXAS

HOOD AAF (KHLR)

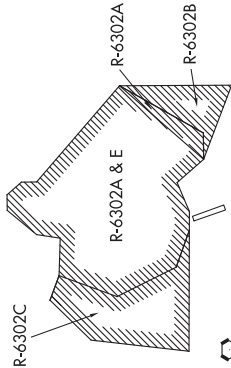
CONRA TWO DEPARTURE

Z101Z NAT VON VON 2016 to 05 JAN 2017

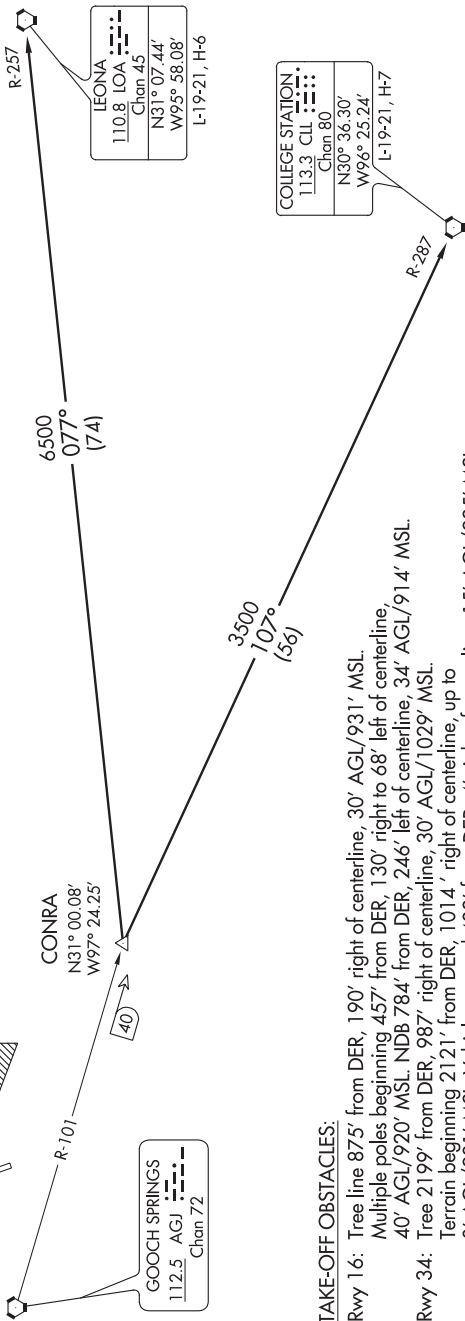
TOP ALTITUDE:
12000

- CINC DEL 225.4
- GND CON 133.85 225.4
- HOOD TOWER* 119.65 269.45
- GRAY DEP CON 120.075 323.15
- 120.75 285.5

TAKE-OFF MINIMUMS:
Rwy 16, 34, Standard.



NOTE: RADAR Required.



LEONA
110.8 LOA
Chan 45
N31° 07.44'
W95° 58.08'
L-19-21, H-6

COLLEGE STATION
113.3 CL
Chan 80
N30° 36.30'
W96° 25.24'
L-19-21, H-7

NOTE: Chart not to scale.

CONRA TWO DEPARTURE

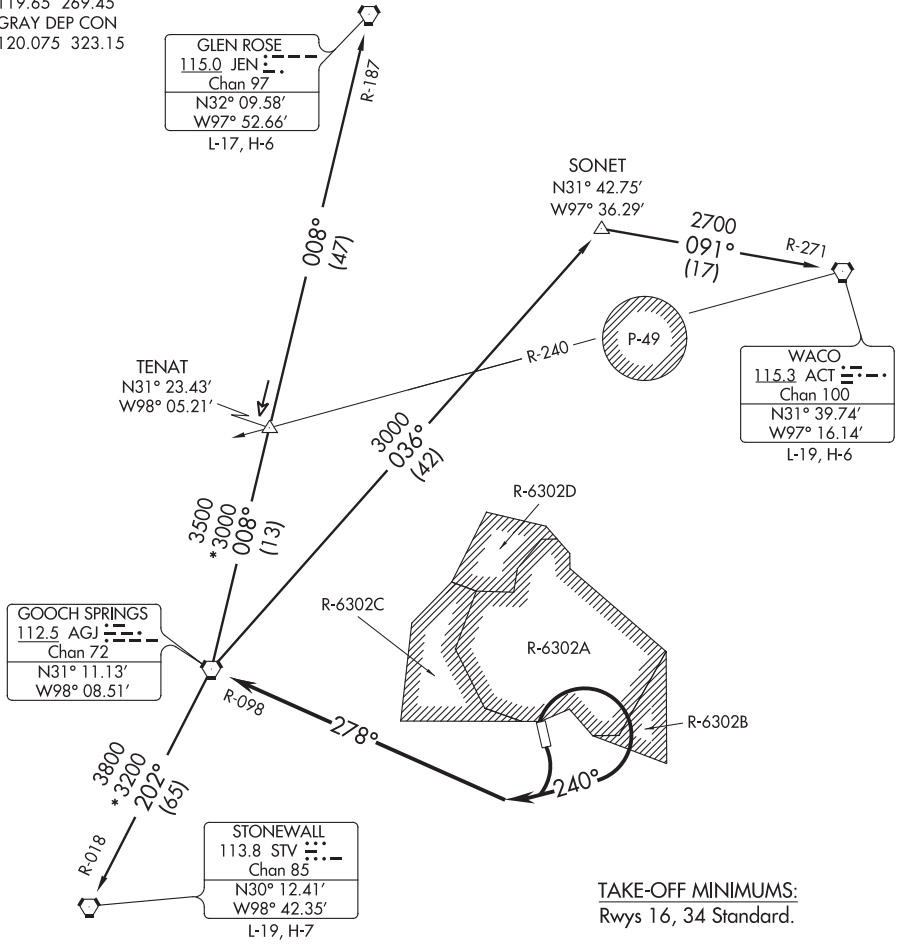
SC-3, 10 NOV 2016 to 05 JAN 2017

LAMPS FIVE DEPARTURE

CLNC DEL
225.4
GND CON
133.85 225.4
HOOD TOWER★
119.65 269.45
GRAY DEP CON
120.075 323.15

NOTE: RADAR Required.
NOTE: MRA at TENAT Int 4000 for Non-DME aircraft.

**TOP ALTITUDE:
12000**



TAKE-OFF OBSTACLES:

- Rwy 16, Tree line 875' from DER, 190' right of centerline, 30' AGL/931' MSL.
Multiple poles beginning 457' from DER, 130' right to 68' left of centerline, 40' AGL/920' MSL.
NDB 784' from DER, 246' left of centerline, 34' AGL/914' MSL.
- Rwy 34, Tree 2, 199' from DER, 987' right of centerline, 30' AGL/1029' MSL.
Terrain beginning 2121' from DER, 1014' right of centerline, up to 0' AGL/981' MSL.
Vehicle on road 483' from DER, 4' right of centerline, 15' AGL/935' MSL.

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.

LAMPS FIVE DEPARTURE

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

LAMPS FIVE DEPARTURE



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 16/34: Climbing right turn heading 240° (to assigned altitudes), to intercept and proceed on AGJ R-098. Thence

. . . . on (transition) or (assigned route).

GLEN ROSE TRANSITION (LAMPS5.JEN): (For aircraft inbound to Dallas/Fort Worth terminal area airports.) From over AGJ VORTAC on AGJ R-008 and JEN R-187 to JEN VORTAC.

STONEWALL TRANSITION (LAMPS5.STV): From over AGJ VORTAC on AGJ R-202 and STV R-018 to STV VORTAC.

WACO TRANSITION (LAMPS5.ACT): (For aircraft inbound to terminal area airports.) From over AGJ VORTAC on AGJ R-036 to SONET INT, then on ACT R-271 to ACT VORTAC.

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

WAAS Ch 78301 W13A	APP CRS 133°	Rwy Idg 5000 TDZE 18 Apt Elev 18
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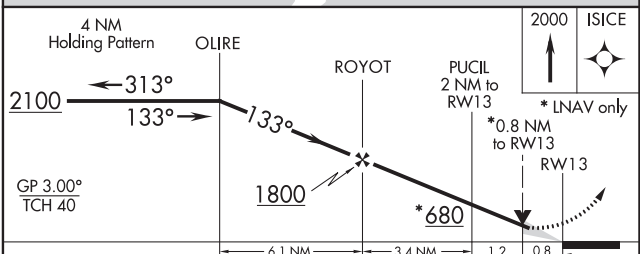
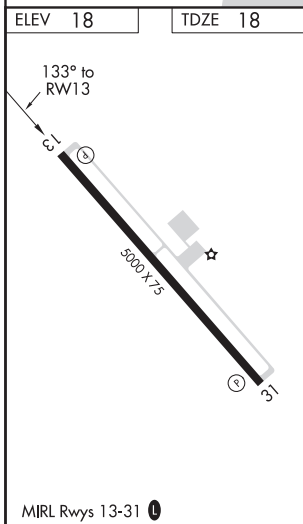
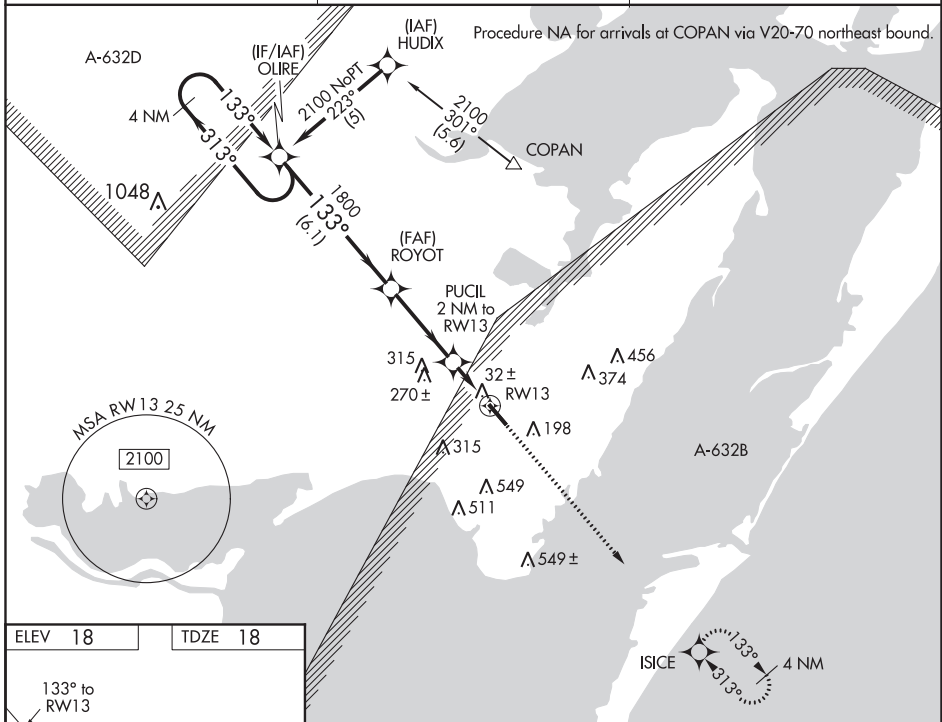
RNAV (GPS) RWY 13

MC CAMPBELL-PORTER (TFP)

⚠ BARO-VNAV NA when using Mustang Beach altimeter setting. DME/DME RNP-0.3 NA. For uncompensated BARO-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 49°C (120°F). When local altimeter setting not received, use Mustang Beach altimeter setting and increase LPV DA 291 feet; LNAV/VNAV DA to 309 feet; and all MDAs 40 feet. VDP NA when using Mustang Beach altimeter setting.

MISSED APPROACH:
Climb to 2000 direct ISICE and hold.

AWOS-3 118.775	CORPUS APP CON 120.9 348.725	UNICOM 122.7 (CTAF) 0
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CATEGORY	A	B	C	D
LPV DA		268-1	250 (300-1)	
LNAV/VNAV DA		286-1	268 (300-1)	
LNAV MDA		300-1	282 (300-1)	
CIRCLING	520-1	502 (600-1)	520-1½ 502 (600-1½)	580-2 562 (600-2)

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

WAAS Ch 82601 W31A	APP CRS 313°	Rwy Idg 5000 TDZE 18 Apt Elev 18
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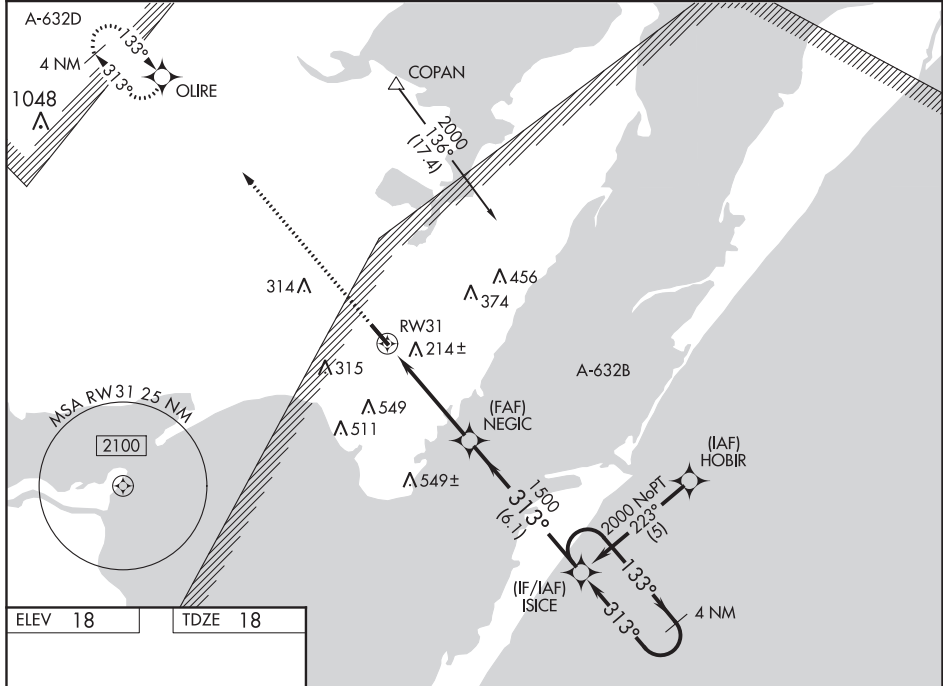
RNAV (GPS) RWY 31

MC CAMPBELL-PORTER (TFP)

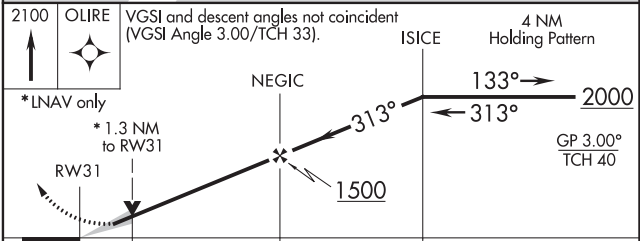
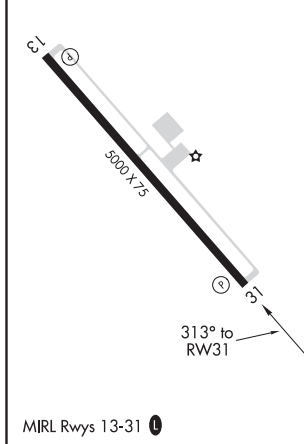
A BARO-VNAV NA when using Mustang Beach altimeter setting. For uncompensated BARO-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F).
W When local altimeter setting not received, use Mustang Beach altimeter setting and increase LPV DA to 291 feet; LNAV/VNAV DA to 533 feet; and all MDA's 40 feet; increase LNAV Cat C visibility ¼ mile. VDP NA when using Mustang Beach altimeter setting. DME/DME RNP-0.3 NA.

MISSED APPROACH:
Climb to 2100 direct OLIRE and hold.

AWOS-3 118.775	CORPUS APP CON 120.9 348.725	UNICOM 122.7 (CTAF) 0
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ELEV 18	TDZE 18
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CATEGORY	A	B	C	D
LPV DA	268-1		250 (300-1)	
LNAV/VNAV DA	510-1¾		492 (500-1¾)	
LNAV MDA	480-1	462 (500-1)	480-1¼ 462 (500-1¼)	480-1½ 462 (500-1½)
CIRCLING	520-1	502 (600-1)	520-1½ 502 (600-1½)	580-2 562 (600-2)

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

JUNCTION, TEXAS

AL-922 (FAA)

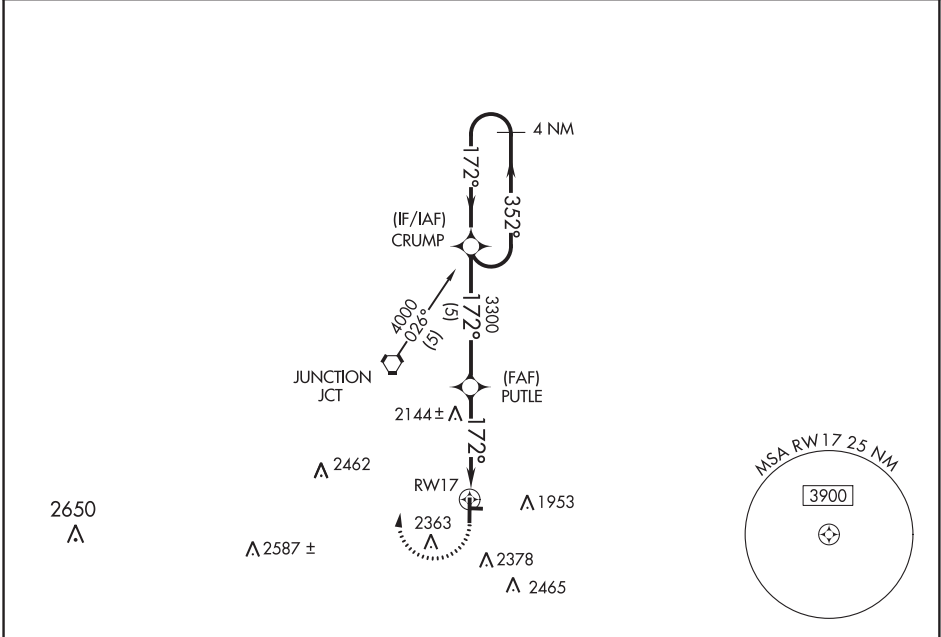
RNAV (GPS) RWY 17

JUNCTION/KIMBLE COUNTY (JCT)

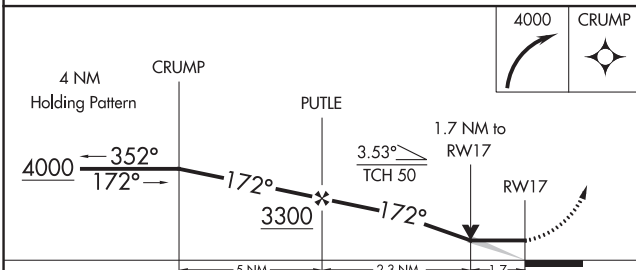
APP CRS 172°	Rwy Idg 5004
	TDZE 1751
	Apt Elev 1751

NA Circling NA to Rwy 8-26. GPS or RNP-0.3 REQUIRED. DME/DME RNP-0.3 NA. MISSED APPROACH: Climbing right turn to 4000 direct CRUMP WP and hold.

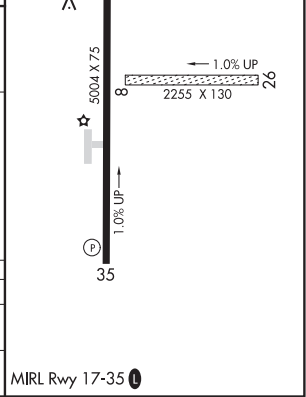
ASOS 119.275	HOUSTON CENTER 125.75 346.4	UNICOM 122.8 (CTAF) 0
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ELEV 1751	TDZE 1751
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CATEGORY	A	B	C	D
LNVA MDA	2420-1	669 (700-1)	2420-1¾ 669 (700-1¾)	NA
CIRCLING	2420-1	669 (700-1)	2740-3 989 (1000-3)	NA



JUNCTION, TEXAS
Orig 12040

30°31'N-99°46'W
231

JUNCTION/KIMBLE COUNTY (JCT)

RNAV (GPS) RWY 17

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

JUNCTION, TEXAS

AL-922 (FAA)

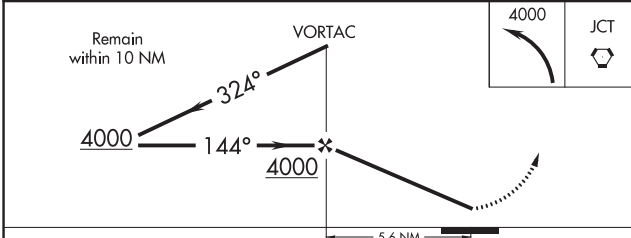
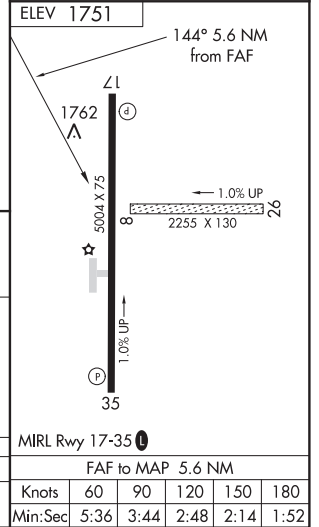
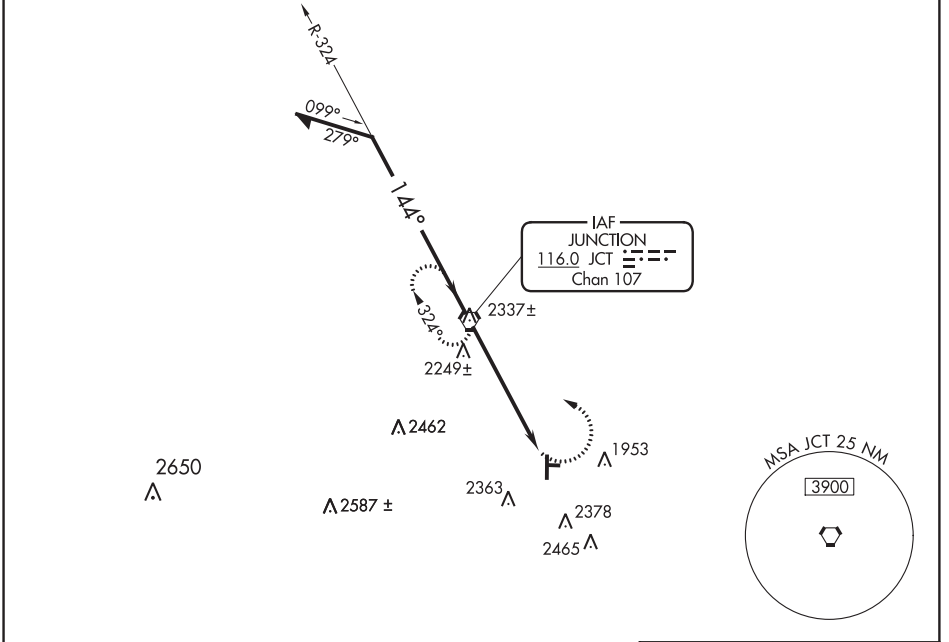
VORTAC JCT 116.0 Chan 107	APP CRS 144°	Rwy Idg TDZE Apt Elev	N/A N/A 1751
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VOR-A

JUNCTION/KIMBLE COUNTY (JCT)

▽ △ NA	Circling NA to Rwy 8-26.	MISSED APPROACH: Climbing left turn to 4000 direct to JCT VORTAC and hold.
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ASOS 119.275	HOUSTON CENTER 125.75 346.4	UNICOM 122.8 (CTAF) 0
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CATEGORY	A	B	C	D	FAF to MAP 5.6 NM					
CIRCLING	2560-1 809(900-1)	2560-1 ¼ 809 (900-1 ¼)	2740-3 989 (1000-3)	NA	Knots	60	90	120	150	180
					Min:Sec	5:36	3:44	2:48	2:14	1:52

JUNCTION, TEXAS
Amdt 12 12040

30°31' N-99°46' W

JUNCTION/KIMBLE COUNTY (JCT)

VOR-A

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

SAN ANTONIO, TEXAS

RNAV (GPS) RWY 15

APCH CRS 155°	Rwy Idg 11,550
THRE 690	Arpt Elev 690

AL-371 [USAF]

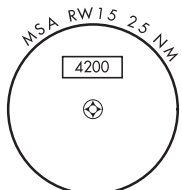
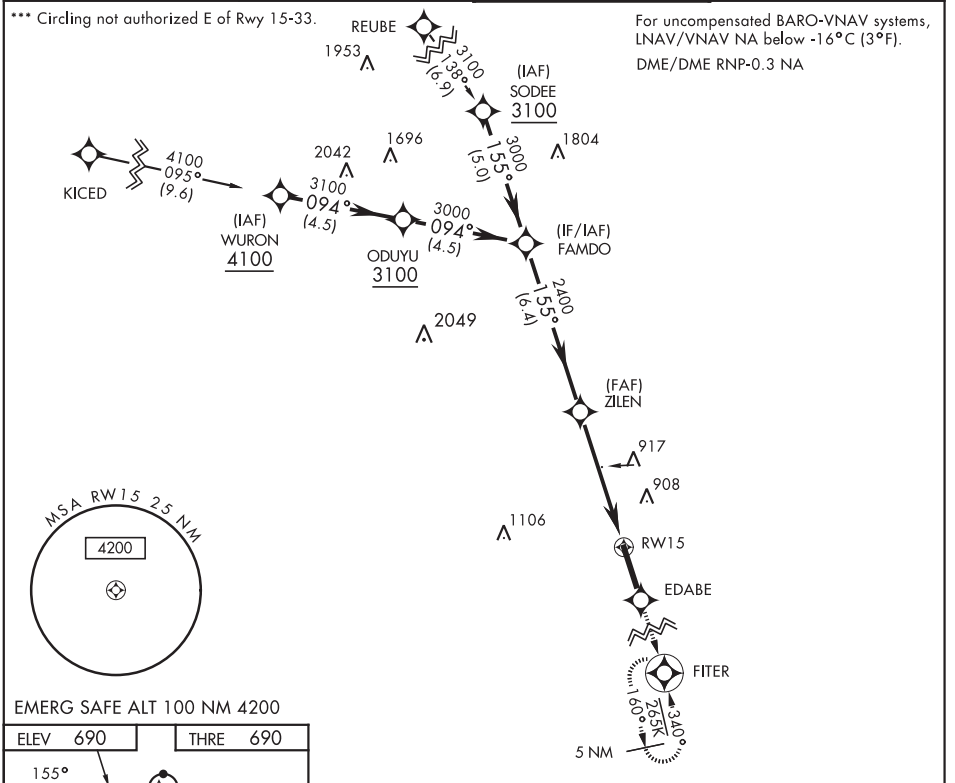
KELLY FLD (KSKF)

▼ * When ALS inop, increase all CAT vis to 1½ miles.
 ** When ALS inop, increase CAT AB RVR to 55 and vis to 1 mile, CAT CDE vis to 1½ miles.

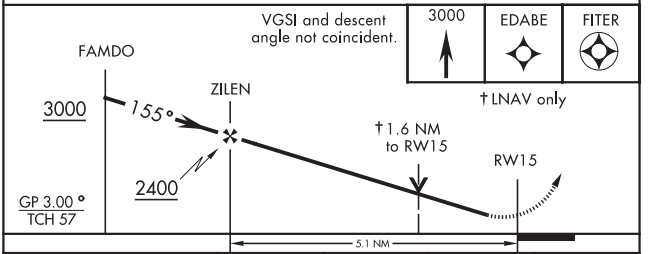
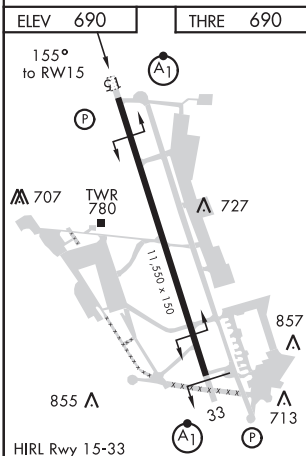


MISSED APPROACH: Climb to 3000 direct EDABE, then track 160° to FITER and hold.

ATIS 120.45 273.5	SAN ANTONIO APP CON 118.05 353.5	KELLY TOWER 124.3 322.35	GND CON 121.8 289.4
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EMERG SAFE ALT 100 NM 4200



CATEGORY	A	B	C	D	E
LNAV/VNAV DA*	1220-1½		530	(600-1½)	
LNAV MDA**	1260/24	570 (600-½)	1260-1¼	570	(600-1¼)
***	1260-1	1300-1	1360-1¾	1440-2½	1900-3
☑ CIRCLING	570 (600-1)	610 (700-1)	670 (700-1¾)	750 (800-2½)	1210 (1300-3)

SAN ANTONIO, TEXAS
 Orig 12DEC13

29° 23' N - 98° 35' W

KELLY FLD (KSKF)

RNAV (GPS) RWY 15

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

SAN ANTONIO, TEXAS

RNAV (GPS) RWY 33

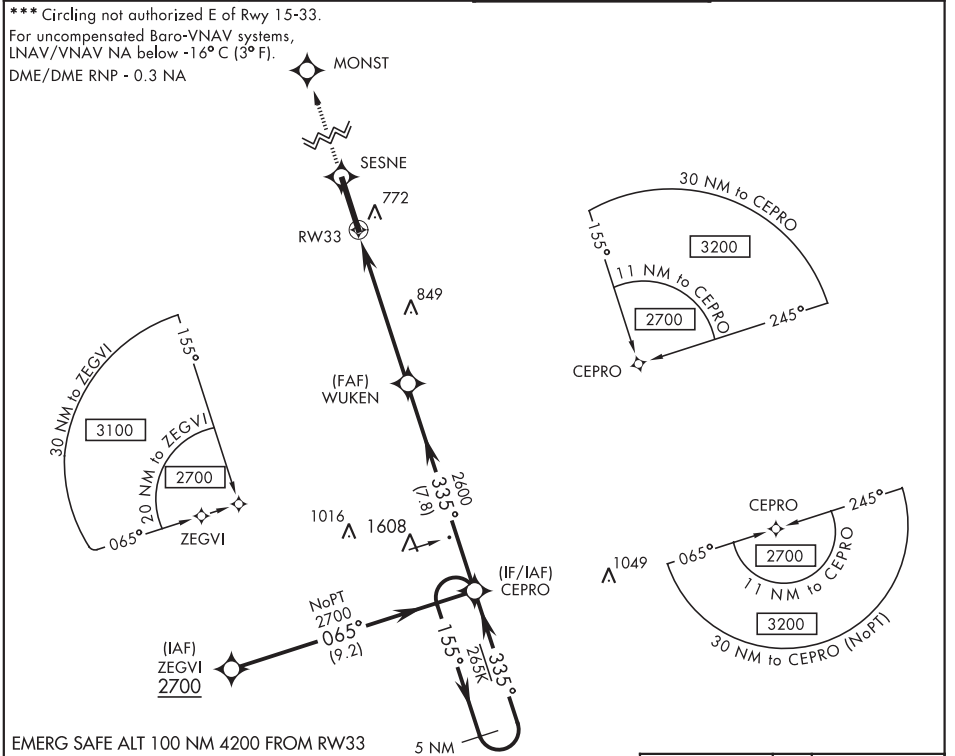
APCH CRS 335°	Rwy Idg 11,550 THRE 660 Arpt Elev 690
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AL-371 [USAF]

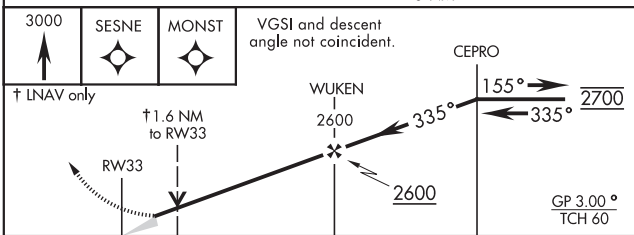
KELLY FLD (KSKF)

<p>▼ * When ALS inop, increase all CAT vis to 1½ miles. ** When ALS inop, increase CAT AB RVR to 55 and vis to 1 mile. CAT CDE vis to 1½ miles.</p>	<p>ALSF-1 A1</p>	<p>MISSED APPROACH: Climb to 3000 direct SESNE then track 335° to MONST. Expect ATC instructions.</p>
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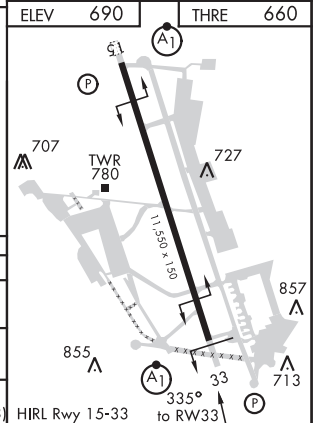
<p>ATIS 120.45 273.5</p>	<p>SAN ANTONIO APP CON 118.05 353.5</p>	<p>KELLY TOWER 124.3 322.35</p>	<p>GND CON 121.8 289.4</p>
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EMERG SAFE ALT 100 NM 4200 FROM RW33



<p>3000 ↑ LNAV only</p>	<p>SESNE</p>	<p>MONST</p>	<p>VGSI and descent angle not coincident.</p>	<p>CEPRO</p>	
<p>WUKEN 2600</p>		<p>335°</p>		<p>155° → 2700 ← 335°</p>	
<p>RW33</p>		<p>2600</p>		<p>GP 3.00° TCH 60</p>	
CATEGORY	A	B	C	D	E
LNAV/VNAV DA*	1220-1¾		560	(600-1¾)	
LNAV MDA**	1240/24	580 (600-½)	1240-1¼	580	(600-1¼)
CIRCLING***	1240-1 550 (600-1)	1300-1 610 (700-1)	1360-1¾ 670 (700-1¾)	1440-2½ 750 (800-2½)	1900-3 1210 (1300-3)



SAN ANTONIO, TEXAS

29°23'N-98°35'W

KELLY FLD (KSKF)

Orig 25JUL13

RNAV (GPS) RWY 33

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

TACAN RWY 15

TACAN KSY Chan 57	APCH CRS 148°	Rwy ldg 11,550 THRE Arprt Elev 690
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AL-371 [USAF]

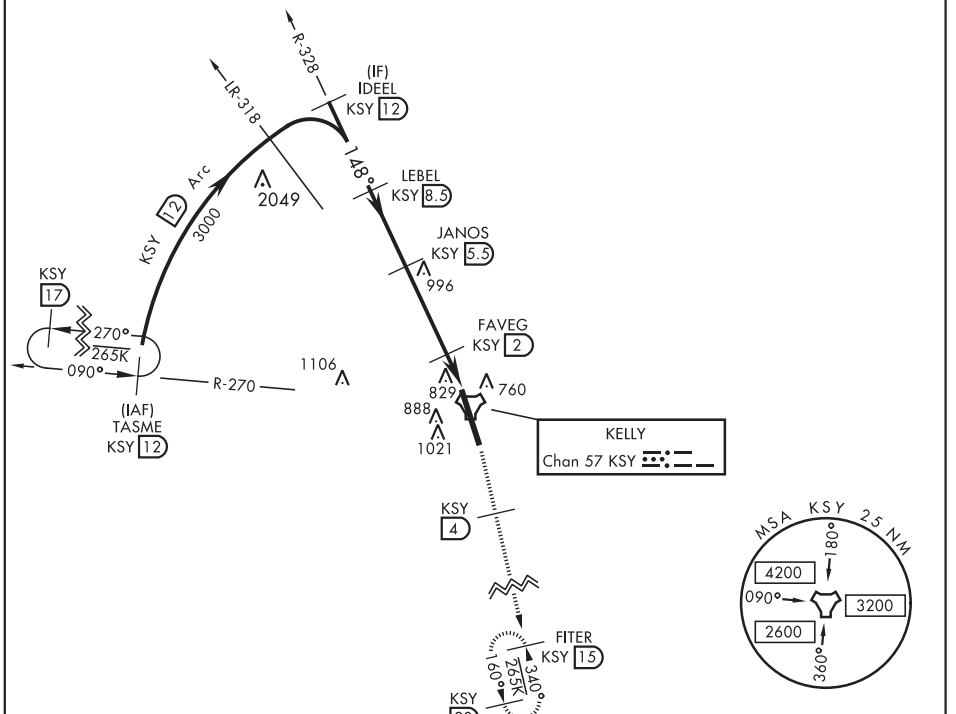
KELLY FLD (KSKF)

▼ * When ALS inop, increase CAT AB RVR to 55 and vis to 1 mile, CAT CDE RVR to 60 and vis to 1½ miles.
** Circling not authorized E of Rwy 15-33.



MISSED APPROACH: Climb on 2500 via KSY R-160 until 4 DME, then climb to 3000 to FITER/15 DME and hold.

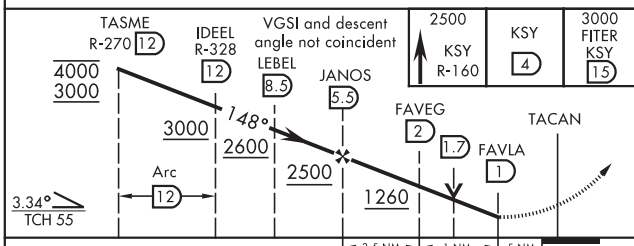
ATIS 120.45 273.5	SAN ANTONIO APP CON 118.05 353.5	KELLY TOWER 124.3 322.35	GND CON 121.8 289.4
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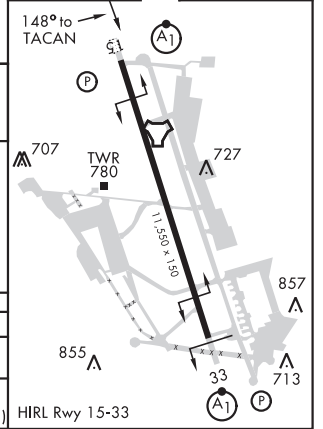
SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

EMERG SAFE ALT 100 NM 4200



ELEV 690	THRE 690
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	← 3.5 NM →			← 1 NM →		← .5 NM →				
CATEGORY	A		B		C		D		E	
S-15 *	1100/24		410 (500-½)		1100/40		410		(500-¾)	
CIRCLING **	1220-1 530 (600-1)		1300-1 610 (700-1)		1360-1¼ 670 (700-1¾)		1440-2½ 750 (800-2½)		1900-3 1210(1300-3)	

HIRL Rwy 15-33

TACAN RWY 15

SAN ANTONIO, TEXAS

TACAN RWY 33

TACAN KSY Chan 57	APCH CRS 340°	Rwy ldg 11,550 THRE 660 Arpt Elev 690
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AL-371 [USAF]

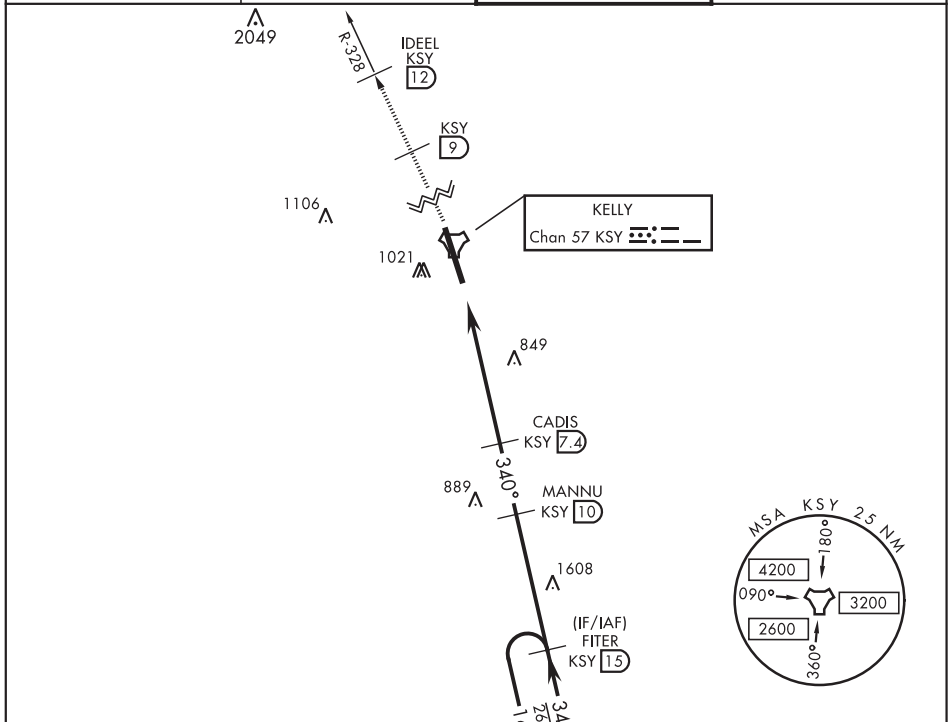
KELLY FLD (KSKF)

▼ * When ALS inop, increase CAT AB RVR to 55 and vis to 1 mile, CAT CDE vis to 1 1/8 miles.
 ** Circling not authorized E of Rwy 15-33.

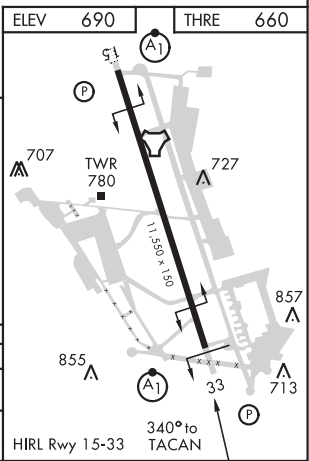
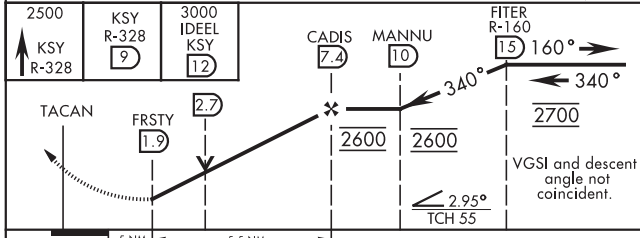
ALS-1

MISSED APPROACH: Climb to 2500 via KSY TACAN R-328 until 9 DME then continue climb to 3000 to IDEEL/12 DME. Expect ATC instructions.

ATIS 120.45 273.5	SAN ANTONIO APP CON 118.05 353.5	KELLY TOWER 124.3 322.35	GND CON 121.8 289.4
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ELEV 690	THRE 660
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	.5 NM		5.5 NM		
CATEGORY	A	B	C	D	E
S-33 *	1140/24	480 (500-1/2)	1140/50	480	(500-1)
CIRCLING **	1220-1 530 (600-1)	1300-1 610 (700-1)	1360-1 1/4 670 (700-1 3/4)	1440-2 1/2 750 (800-2 1/2)	1900-3 1210 (1300-3)

SAN ANTONIO, TEXAS 29° 23' N - 98° 35' W KELLY FLD (KSKF)

Amtd 4 25JUL13

TACAN RWY 33

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

AIRPORT DIAGRAM

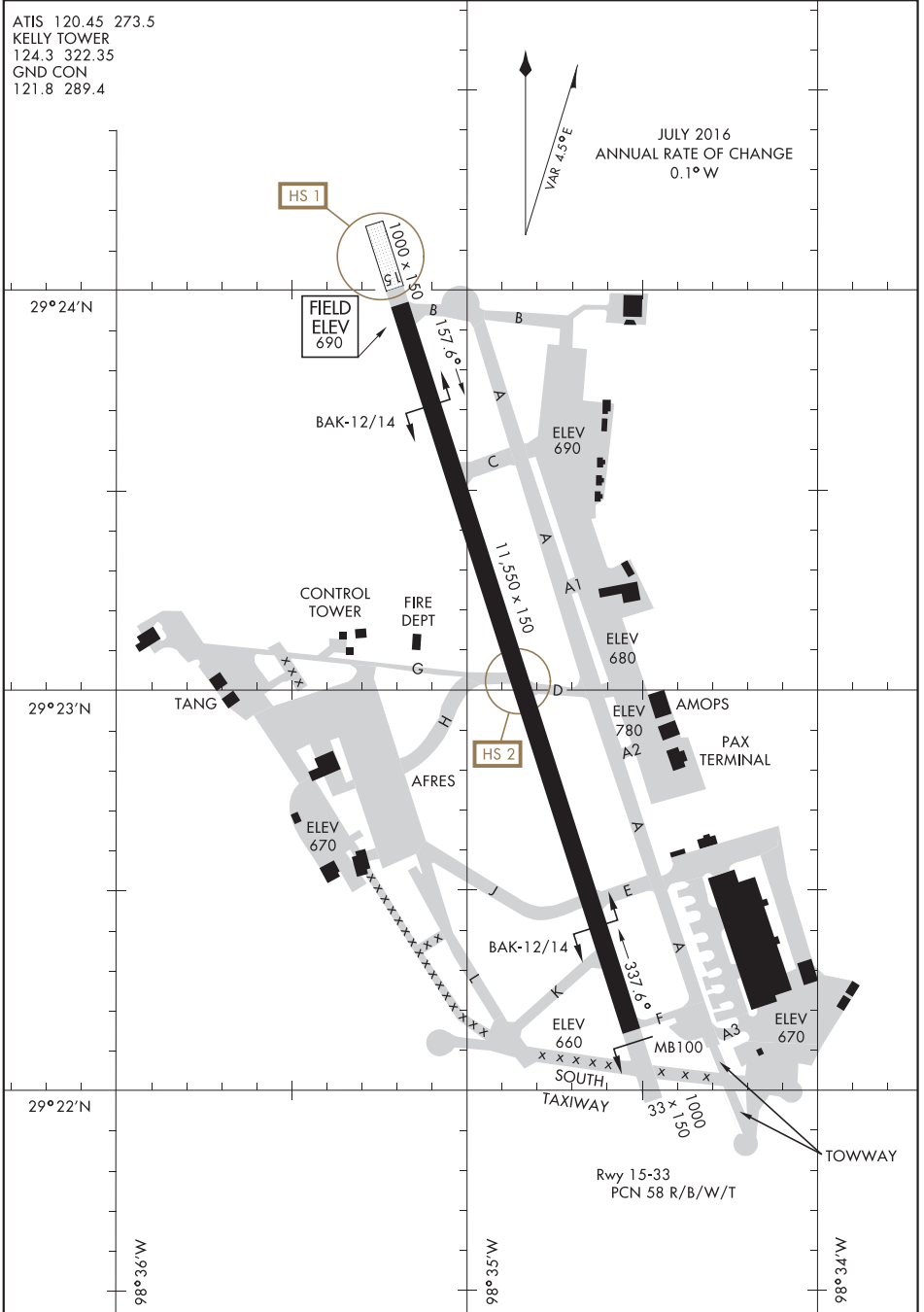
AFD-371 [USAF]

KELLY FLD (KSKF)

SAN ANTONIO, TEXAS

ATIS 120.45 273.5
 KELLY TOWER
 124.3 322.35
 GND CON
 121.8 289.4

JULY 2016
 ANNUAL RATE OF CHANGE
 0.1° W



SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

AIRPORT DIAGRAM

SAN ANTONIO, TEXAS

KELLY FLD (KSKF)

KENEDY, TEXAS

AL-5975 (FAA)

15092

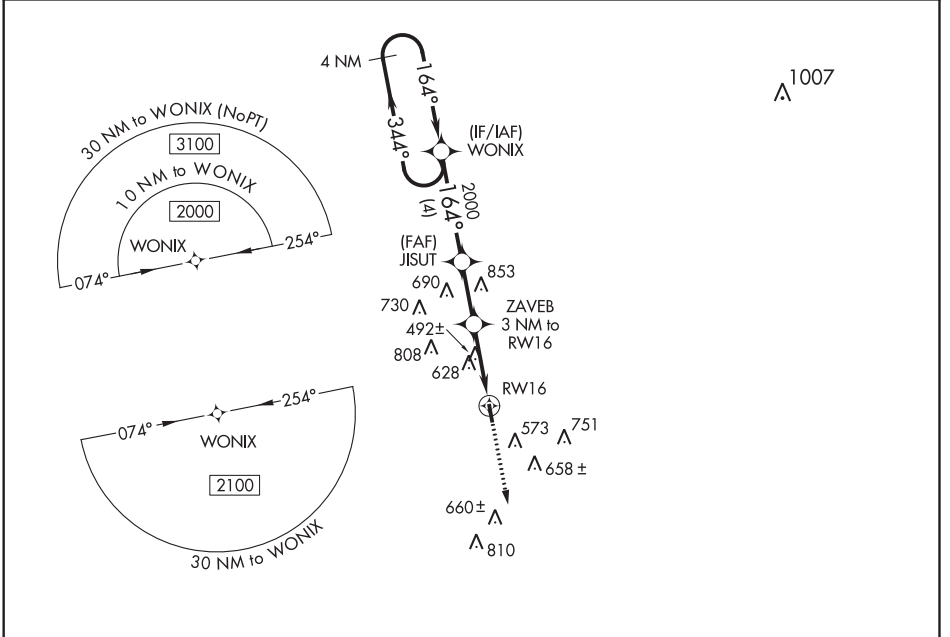
WAAS CH 87125 W16A	APP CRS 164°	Rwy Idg 3218 TDZE 289 Apt Elev 289
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RNAV (GPS) RWY 16

KENEDY/ KARNES COUNTY (2R.9)

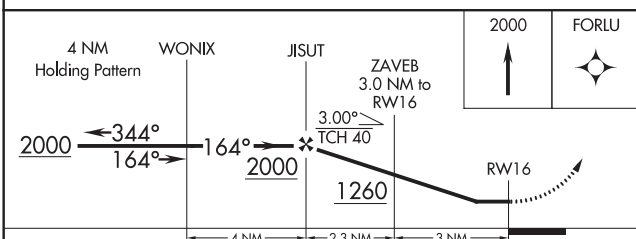
<p>▽ Use Pleasanton altimeter setting; when not received, use Victoria altimeter setting and increase all MDA 40 feet. DME/DME RNP-0.3 NA. Procedure NA at night. Visibility reduction by helicopters NA.</p> <p>▲ NA</p>	<p>MISSED APPROACH: Climb to 2000 direct FORLU and hold.</p>
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<p>PLEASANTON AWOS-3 118.575</p>	<p>HOUSTON CENTER 134.6 322.5</p>	<p>UNICOM 123.0 (CTAF) 0</p>
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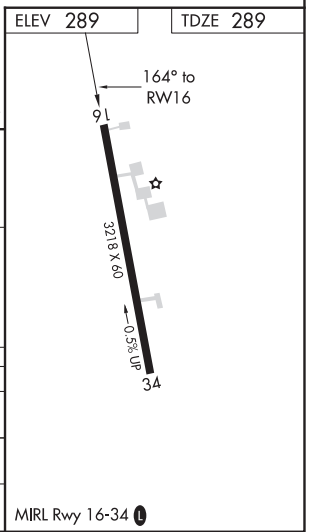


SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017



CATEGORY	A	B	C	D
LP MDA	860-1	571 (600-1)		NA
RNAV MDA	1040-1 751 (800-1)	1040-1½ 751 (800-1½)		NA
CIRCLING	1040-1 751 (800-1)	1040-1½ 751 (800-1½)		NA



KENEDY, TEXAS
Orig-A 02APR15

28°49'N-97°52'W

KENEDY/ KARNES COUNTY (2R.9) RNAV (GPS) RWY 16

WAAS CH 93925 W34A	APP CRS 344°	Rwy Idg 3218 TDZE 288 Apt Elev 289
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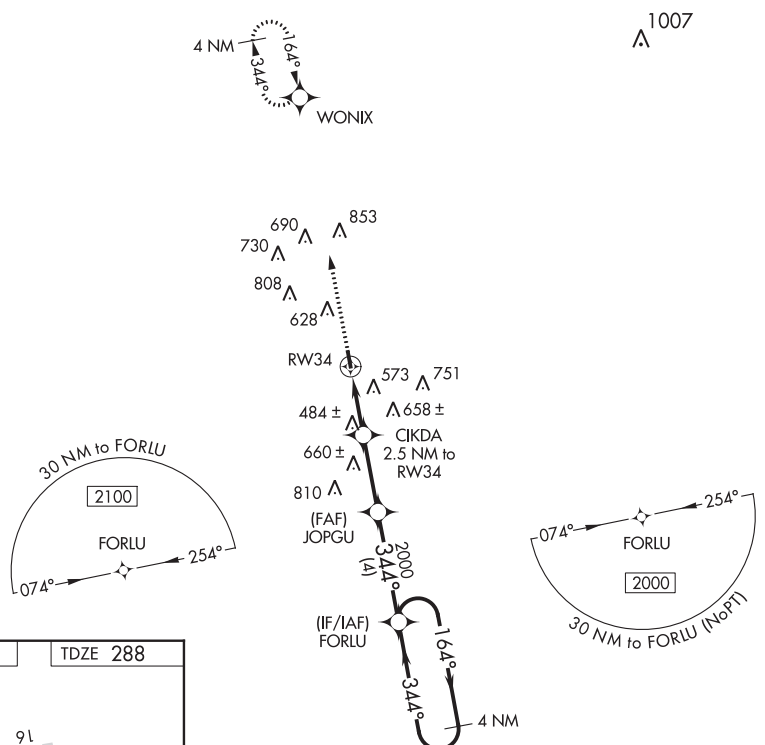
RNAV (GPS) RWY 34

KENEDY/ KARNES COUNTY (2R.9)

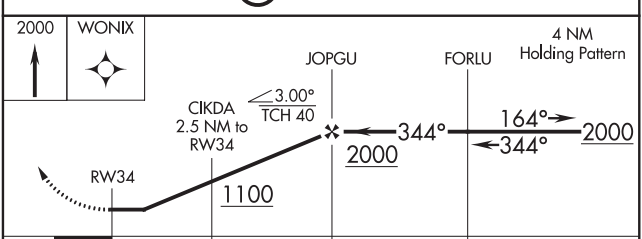
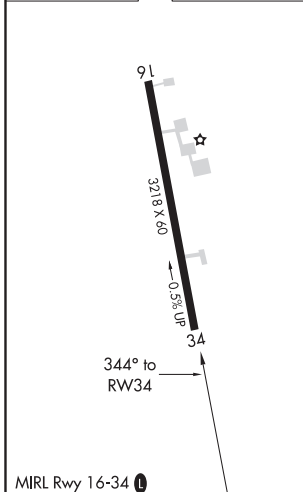
▽ Use Pleasanton altimeter setting; when not received, use Victoria altimeter setting and increase all MDA 40 feet. DME/DME RNP-0.3 NA. Procedure NA at night. Visibility reduction by helicopters NA.

△ NA MISSED APPROACH: Climb to 2000 direct WONIX and hold.

PLEASANTON AWOS-3 118.575	HOUSTON CENTER 134.6 322.5	UNICOM 123.0 (CTAF) 0
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ELEV 289	TDZE 288
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CATEGORY	A	B	C	D
LP MDA	840-1	552 (600-1)		NA
LNAV MDA	880-1	592 (600-1)		NA
CIRCLING	980-1	691 (700-1)		NA

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

KENEDY, TEXAS

AL-5975 (FAA)

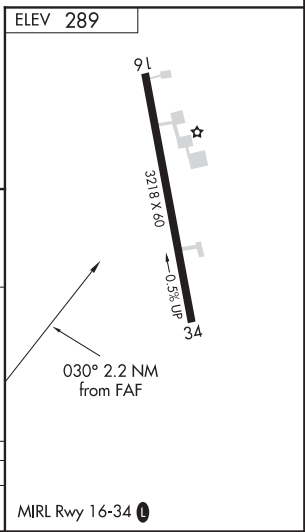
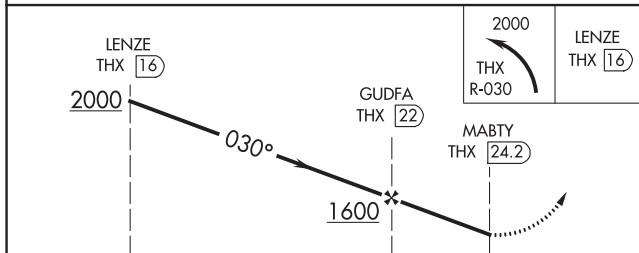
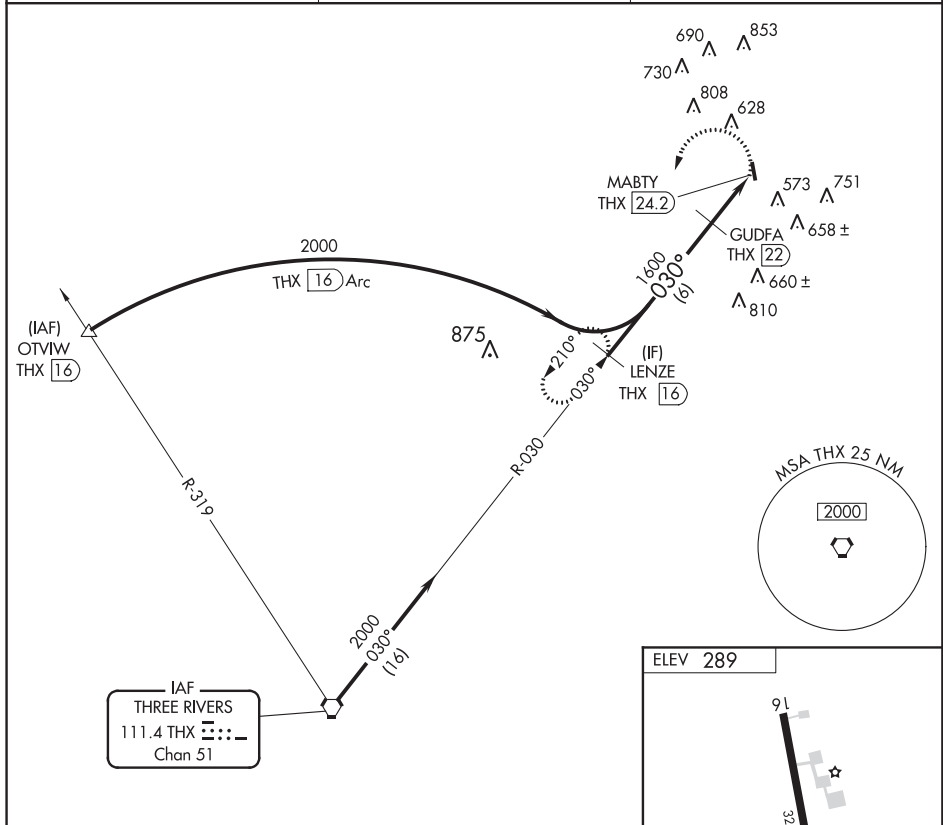
11349

VORTAC THX 111.4 Chan 51	APP CRS 030°	Rwy Idg TDZE Apt Elev	N/A N/A 289
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VOR/DME-A
KENEDY/ KARNES COUNTY (2R.9)

<p>▽ Use Pleasanton altimeter setting; when not received, use Victoria altimeter setting and increase all MDA 40 feet. Procedure NA at night. Visibility reduction by helicopters NA.</p> <p>▲ NA</p>	<p>MISSED APPROACH: Climbing left turn to 2000 via THX VORTAC R-030 to LENZE/16 DME and hold.</p>
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<p>PLEASANTON AWOS-3 118.575</p>	<p>HOUSTON CENTER 134.6 322.5</p>	<p>UNICOM 123.0 (CTAF) ①</p>
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CATEGORY	A	B	C	D
CIRCLING	1140-1¼	851 (900-1¼)	NA	

KENEDY, TEXAS
Amdt 7 15DEC11

28°49'N-97°52'W

KENEDY/ KARNES COUNTY (2R.9)
VOR/DME-A

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

WAAS CH 45628 W12A	APP CRS 124°	Rwy Idg THRE 1576 Apt Elev 1617
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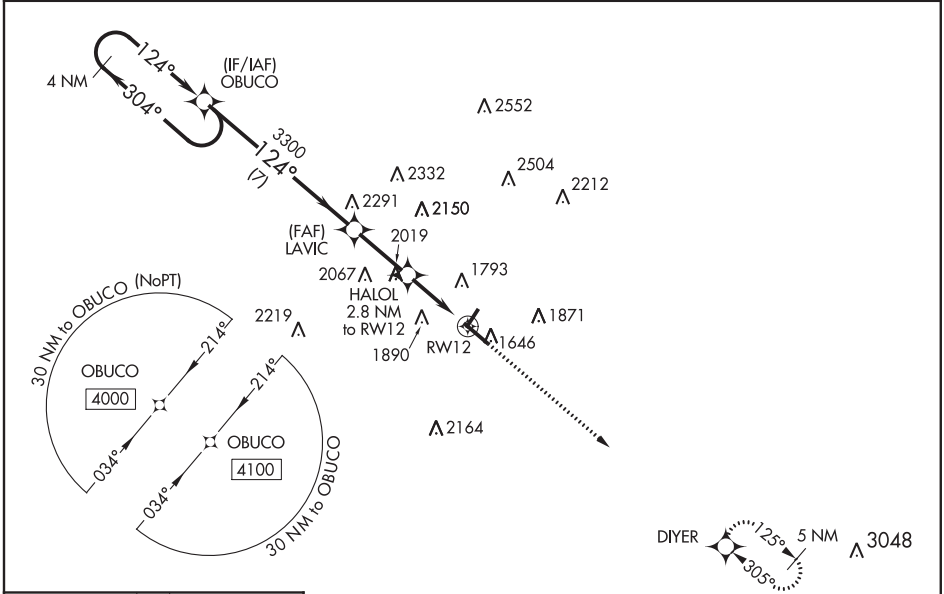
RNAV (GPS) RWY 12

KERRVILLE MUNI/LOUIS SCHREINER FIELD (ERV)

⚠ Baro-VNAV NA when using Gillespie County altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -18°C (0°F) or above 34°C (93°F). DME/DME RNP-0.3 NA.
⚠ Visibility reduction by helicopters NA. When VGSi inop procedure NA at night. When VGSi inop Circling Rwy 3/21 NA at night. When local altimeter setting not received, use Gillespie County altimeter setting and increase all DA 54 feet, and all MDA 60 feet, increase LNAV/VNAV all Cats, LNAV and Circling Cat C/D visibility ¼ mile.

MISSED APPROACH:
Climb to 4100 direct DIYER and hold.

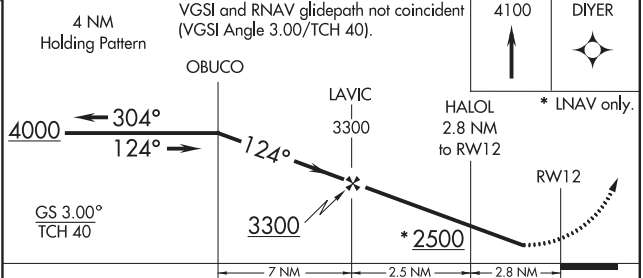
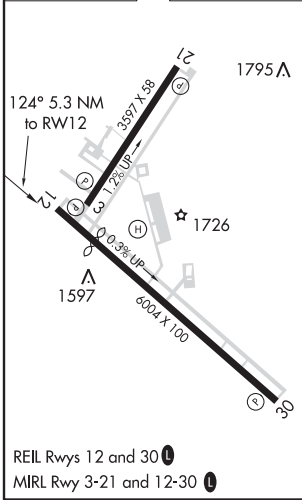
AWOS-3 118.125	HOUSTON CENTER 134.95 269.4	CLNC DEL 134.95	UNICOM 122.7 (CTAF) L
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SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

ELEV 1617	D	THRE 1576
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CATEGORY	A	B	C	D
LPV DA		1826-1	250 (300-1)	
LNAV/VNAV DA		1926-1½	350 (400-1½)	
LNAV MDA	1980-1	404 (400-1)	1980-1½	404 (400-1½)
CIRCLING	2320-1 703 (800-1)	2340-1 723 (800-1)	2380-2¼ 763 (800-2¼)	2380-2½ 763 (800-2½)

KERRVILLE, TEXAS

AL-5690 (FAA)

14317

WAAS CH 77527 W30A	APP CRS 305°	Rwy Idg TDZE Apt Elev	5300 1589 1617
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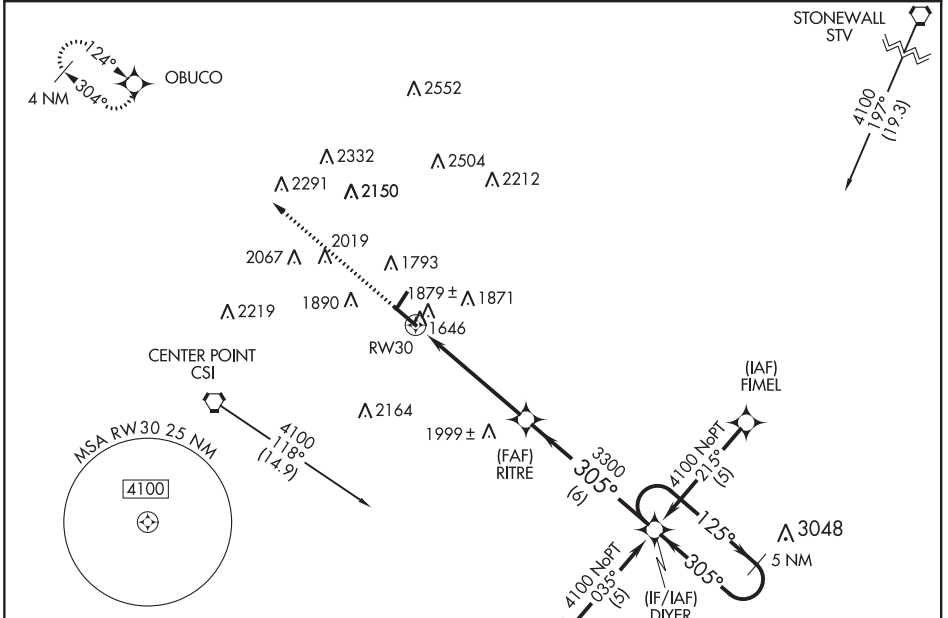
RNAV (GPS) RWY 30

KERRVILLE MUNI/LOUIS SCHREINER FIELD (E.R.V)

▼ DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. When VGSI inop, Circling Rwy 3/12/21 NA at night. When local altimeter setting not received, use Gillespie County altimeter setting and increase all DA 54 feet, and all MDA 60 feet, increase LPV all Cats, LNAV Cat D, and Circling Cat C visibility ¼ mile.

MISSED APPROACH: Climb to 4000 direct OBUCO and hold.

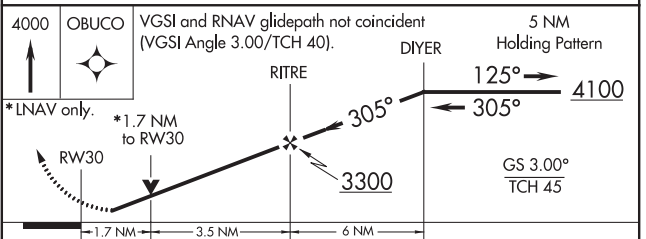
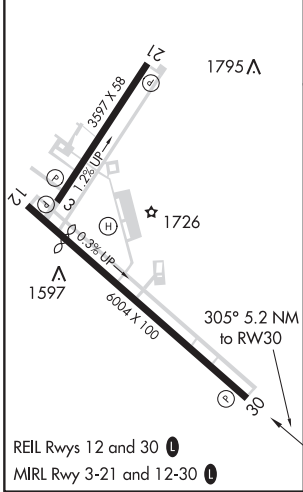
AWOS-3 118.125	HOUSTON CENTER 134.95 269.4	CLNC DEL 134.95	UNICOM 122.7 (CTAF) 0
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SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

ELEV 1617	D	TDZE 1589
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CATEGORY	A	B	C	D
LPV DA	1860-1 271 (300-1)			NA
LNAV MDA	2140-1	551 (600-1)	2140-1½ 551 (600-1½)	NA
CIRCLING	2320-1 703 (800-1)	2340-1 723 (800-1)	2380-2¼ 763 (800-2¼)	NA

KERRVILLE, TEXAS
Orig-A 05APR12

KERRVILLE MUNI/LOUIS SCHREINER FIELD (E.R.V)
29°59'N-99°05'W
RNAV (GPS) RWY 30

LOC I-ERV 109.1	APP CRS 305°	Rwy Idg TDZE Apt Elev	5300 1589 1617
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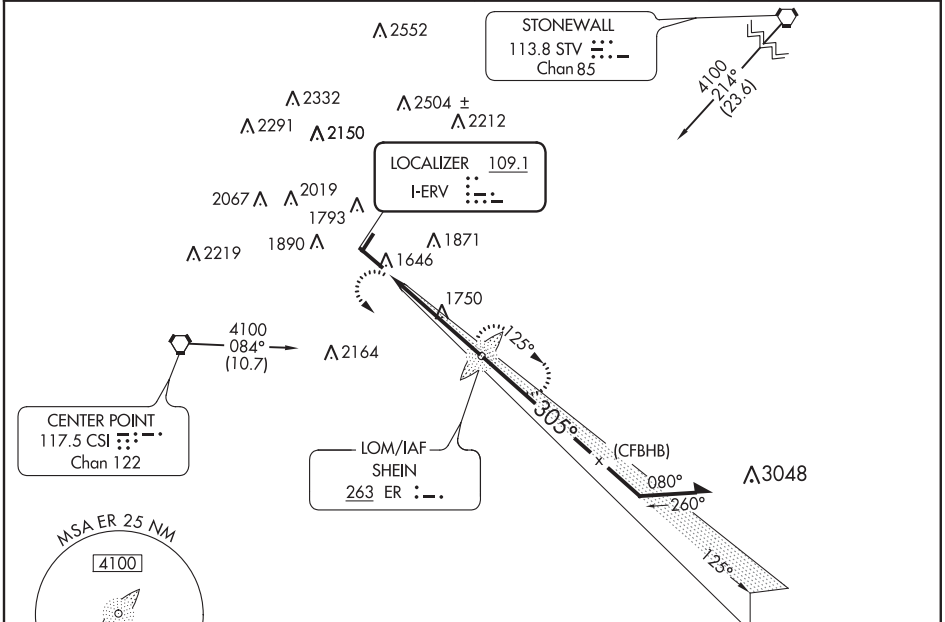
LOC RWY 30

KERRVILLE MUNI/LOUIS SCHREINER FIELD (ERV)

⚠ When VGSi inop, Circling Rwy 3/12/21 NA at night. Visibility reduction by helicopters NA. When local altimeter setting not received, use Gillespie County altimeter setting and increase all MDA 60 feet, increase S-30 Cat C and Circling Cat C visibility ¼ mile.

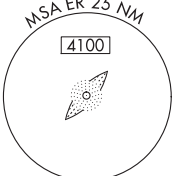
MISSED APPROACH: Climbing left turn to 4100 direct ER LOM and hold.

AWOS-3 118.125	HOUSTON CENTER 134.95 269.4	CLNC DEL 134.95	UNICOM 122.7 (CTAF)
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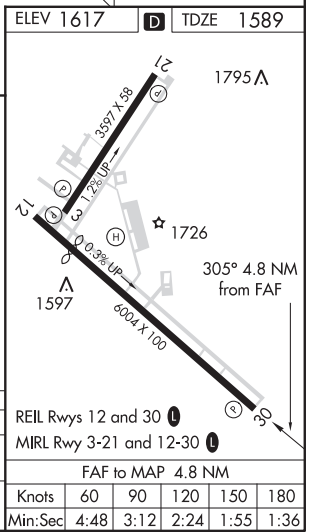
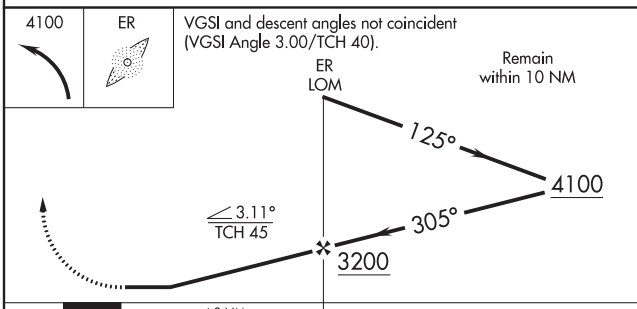


SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017



ADF REQUIRED



CATEGORY	A	B	C	D
S-30	2060-1 471 (500-1)	2340-1 723 (800-1)	2060-1¼ 471 (500-1¼)	NA
CIRCLING	2320-1 703 (800-1)	2340-1 723 (800-1)	2380-2¼ 763 (800-2¼)	NA

REIL Rwy 12 and 30					
MIRL Rwy 3-21 and 12-30					
FAF to MAP 4.8 NM					
Knots	60	90	120	150	180
Min:Sec	4:48	3:12	2:24	1:55	1:36

KERRVILLE, TEXAS

AL-5690 (FAA)

13122

VORTAC CSI 117.5 Chan 122	APP CRS 055°	Rwy Idg TDZE Apt Elev 1617	N/A N/A 1617
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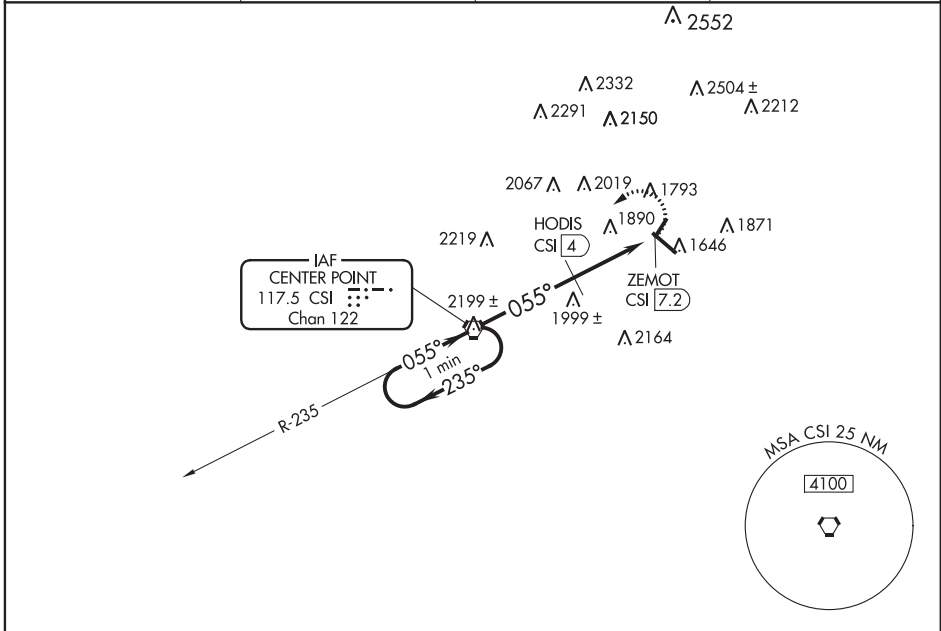
VOR-A

KERRVILLE MUNI/ LOUIS SCHREINER FIELD (ERV)

- ▼ When local altimeter setting not received, use Gillespie County altimeter setting and increase all MDA 60 feet, increase Circling Cat A and C visibility ¼ mile.
- ▲ Increase HODIS fix minimums Circling Cat B/C visibility ¼ mile. When VGSI inop, Circling Rwy 3/12/21 NA at night.

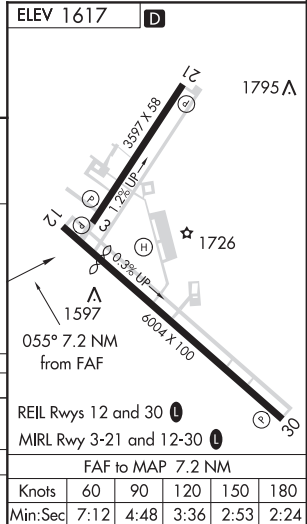
MISSED APPROACH: Climbing left turn to 4000 direct CSI VORTAC.

AWOS-3 118.125	HOUSTON CENTER 134.95 269.4	CLNC DEL 134.95	UNICOM 122.7 (CTAF) 0
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SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017



One Minute Holding Pattern	VORTAC	HODIS CSI 4	ZEMOT CSI 7.2
4000	← 235°	055° →	055°
*2500 when using Gillespie County altimeter setting.		4 NM	3.2 NM

CATEGORY	A	B	C	D
CIRCLING	2440-1 823 (900-1)	2440-1¼ 823 (900-1¼)	2440-2½ 823 (900-2½)	NA
HODIS FIX MINIMUMS				
CIRCLING	2320-1 703 (800-1)	2340-1 723 (800-1)	2380-2¼ 763 (800-2¼)	NA

REIL Rwys 12 and 30	0
MRL Rwy 3-21 and 12-30	0
FAF to MAP 7.2 NM	
Knots	60 90 120 150 180
Min:Sec	7:12 4:48 3:36 2:53 2:24

KERRVILLE, TEXAS
Amdt 3A 03MAY12

KERRVILLE MUNI/ LOUIS SCHREINER FIELD (ERV)

29°59'N-99°05'W

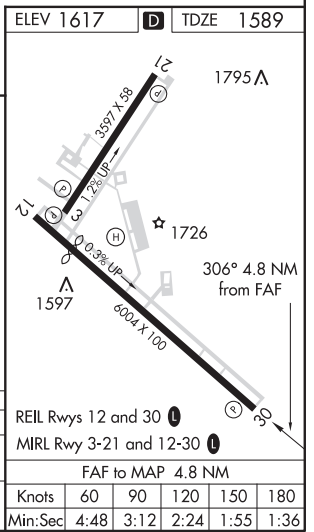
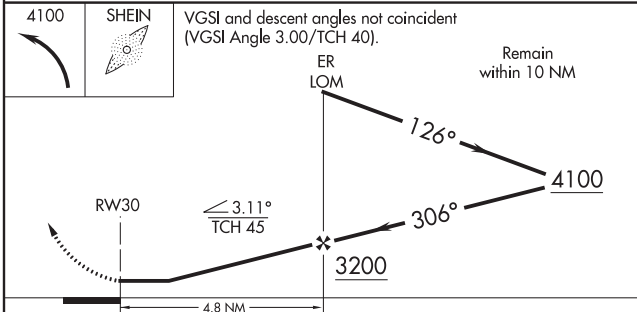
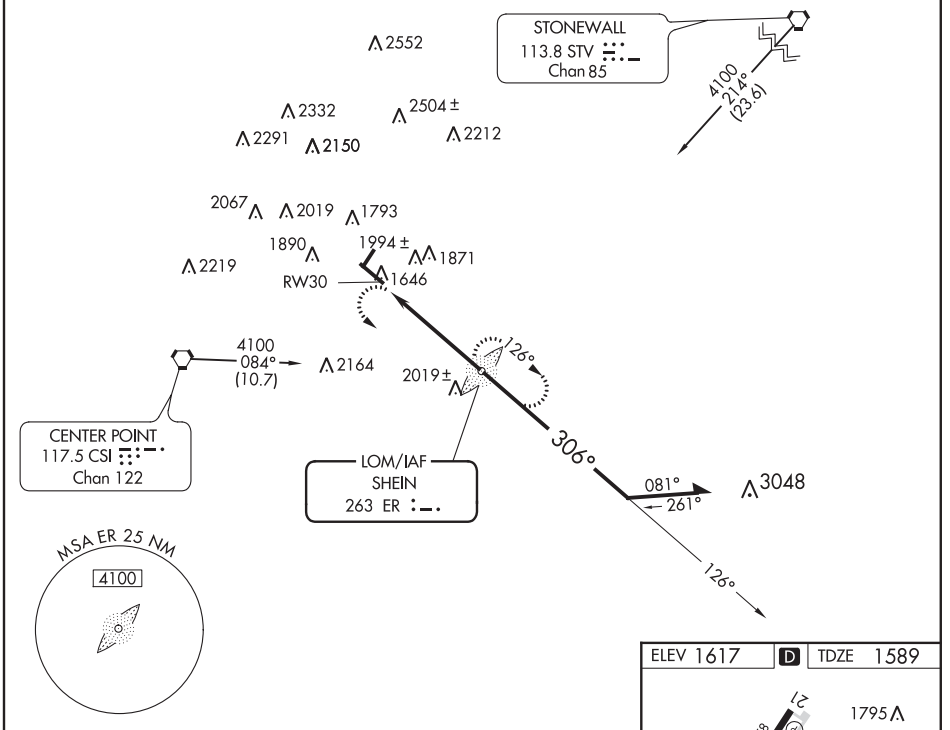
VOR-A

LOM ER 263	APP CRS 306°	Rwy Idg TDZE Apt Elev	5300 1589 1617
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NDB RWY 30

KERRVILLE MUNI/LOUIS SCHREINER FIELD (E.R.V)

		MISSED APPROACH: Climbing left turn to 4100 direct SHEIN LOM and hold.	
AWOS-3 118.125	HOUSTON CENTER 134.95 269.4	CLNC DEL 134.95	UNICOM 122.7 (CTAF)



CATEGORY	A	B	C	D
S-30	2300-1	711 (700-1)	2300-2 711 (700-2)	NA
CIRCLING	2320-1 703 (800-1)	2340-1 723 (800-1)	2380-2¼ 763 (800-2¼)	NA

ELEV 1617		TDZE 1589			
Knots	60	90	120	150	180
Min:Sec	4:48	3:12	2:24	1:55	1:36

NDB RWY 30

SC-3, 10 NOV 2016 to 05 JAN 2017

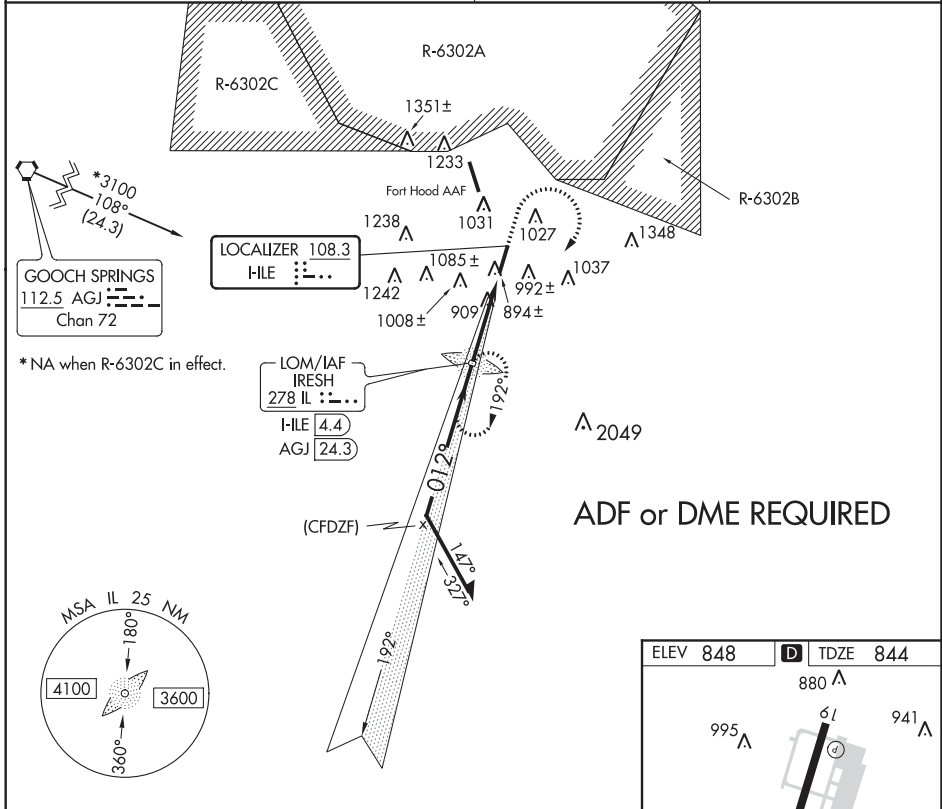
SC-3, 10 NOV 2016 to 05 JAN 2017

LOC HLE 108.3	APP CRS 012°	Rwy Idg 4651
		TDZE 844
		Apt Elev 848

LOC RWY 1
SKYLARK FIELD (I.L.E.)

<p>▽ ADF or DME required.</p> <p>▲ NA Circling to Rwy 19 NA at night.</p>	<p>MISSED APPROACH: Climb to 1500 then climbing right turn to 3100 direct IRESH HLD/I-LF 4.4 DME and hold, continue climb in hold to 3100.</p>
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AWOS-3PT 128.575	GRAY APP CON 120.075 323.15	CLNC DEL 121.7	UNICOM 122.7 (CTAF) 0
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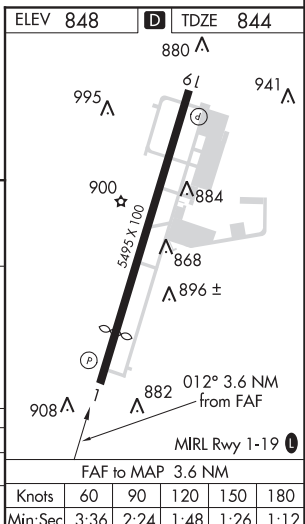
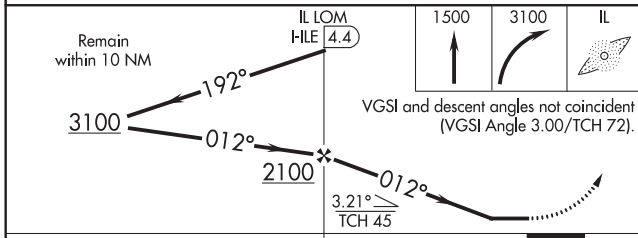
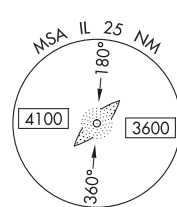


*NA when R-6302C in effect.

GOOCH SPRINGS
112.5 AGJ
Chan 72

LOCALIZER 108.3
HLE

LOM/IAF IRESH
278 IL
HLE 4.4
AGJ 24.3



CATEGORY	A	B	C	D
S-LOC 1	1160-1	316 (400-1)		NA
C CIRCLING	1300-1 452 (500-1)	1340-1 492 (500-1)	1440-1½ 592 (600-1½)	NA

ELEV 848	D TDZE 844
880	884
995	941
900	868
896±	882
908	012° 3.6 NM from FAF
MIRA Rwy 1-19 0	
FAF to MAP 3.6 NM	
Knots	60 90 120 150 180
Min:Sec	3:36 2:24 1:48 1:26 1:12

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

KILLEEN, TEXAS

AL-5344 (FAA)

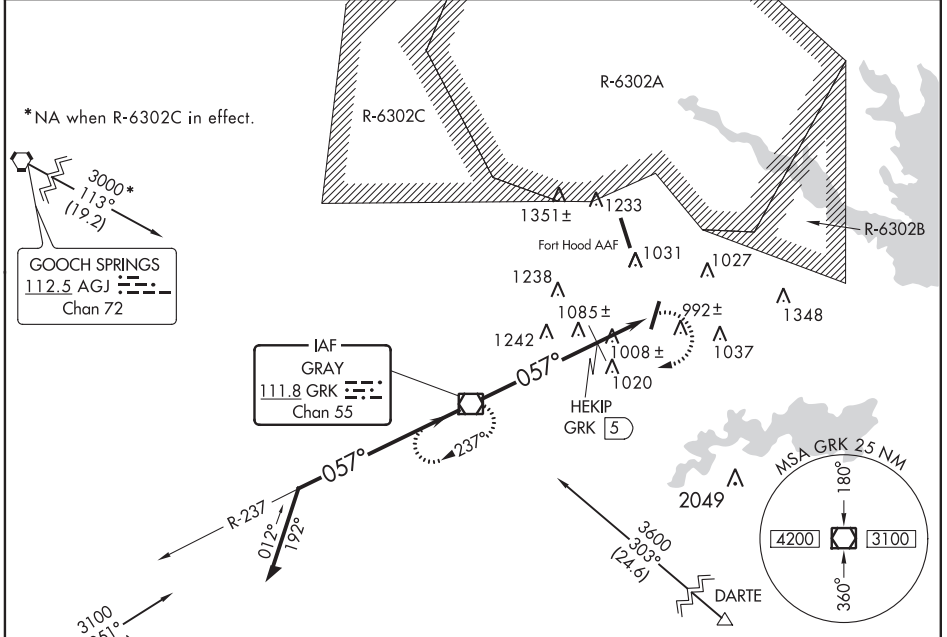
16035

VOR/DME GRK 111.8 Chan 55	APP CRS 057°	Rwy Idg TDZE Apt Elev N/A N/A 848
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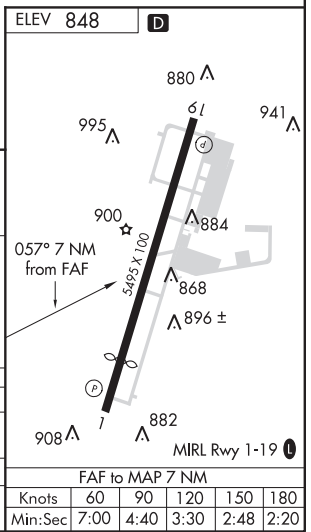
VOR-A
SKYLARK FIELD (ILE)

▲ When local altimeter setting not received, use Robert Gray AAF altimeter setting and increase all MDA 60 feet.
▲ NA MISSED APPROACH: Climbing right turn to 3000 direct GRK VOR/DME and hold.

AWOS-3PT 128.575	GRAY APP CON 120.075 323.15	CLNC DEL 121.7	UNICOM 122.7 (CTAF) ①
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**1680 when using Robert Gray AAF altimeter setting.



CATEGORY	A	B	C	D
CIRCLING	1620-1 772 (800-1)	1620-1 ¼ 772 (800-1 ¼)	1620-2 ¼ 772 (800-2 ¼)	NA
HEKIP FIX MINIMUMS				
CIRCLING	1320-1 472 (500-1)	1360-1 512 (600-1)	1360-1 ½ 512 (600-1 ½)	NA

KILLEEN, TEXAS
Amdt 4 17DEC09

31°05'N - 97°41'W

SKYLARK FIELD (ILE)
VOR-A

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

CONRA TWO DEPARTURE

Z101Z NATL AVON 2016 to 05 JAN 2017

DEPARTURE ROUTE DESCRIPTION

Climb on assigned heading for RADAR vectors to CONRA INT, maintain 3500. Thence

. . . . (transition). Expect filed altitude 10 minutes after departure.

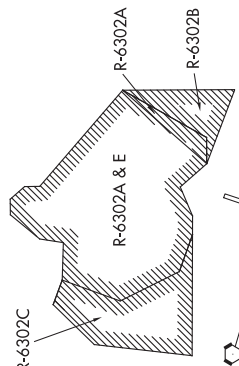
COLLEGE STATION TRANSITION [CONRA2.CIL]: From over CONRA INT via CLL R-287 to CLL VORTAC.

LEONA TRANSITION [CONRA2.LOA]: From over CONRA INT via LOA R-257 to LOA VORTAC.

TOP ALTITUDE:
12000

TAKE-OFF MINIMUMS:
Rwy 1, 19, Standard.

AWOS-3PT
128.575
CLNC DEL
121.7
CTAF
122.7
GRAY DEP CON
120.075 323.15
120.75 285.5



NOTE: RADAR Required.



COLLEGE STATION:
113.3 CLL
Chon 80
N30° 36.30'
W96° 25.24'
L-19-21, H-7

LEONA
110.8 LOA
Chon 45
N31° 07.44'
W95° 58.08'
L-19-21, H-6

GOOCH SPRINGS
112.5 AGJ
Chon 72

TAKE-OFF OBSTACLES:

Rwy 1: Multiple Poles beginning 317' from DER, 384' left of centerline, up to 27' AGL/868' MSL. Tree 973' from DER, 100' left of centerline, 28' AGL/876' MSL. Bldg 486' from DER, 9' right of centerline, 13' AGL/854' MSL. Antenna 351' from DER, 277' right of centerline, 11' AGL/852' MSL.

Rwy 19: Pole 288' from DER, 588' right of centerline, 32' AGL/880' MSL. Bldg 102' from DER, 411' right of centerline, 8' AGL/856' MSL. Vehicle on road 232' from DER, 499' right of centerline, 15' AGL/867' MSL. Pole 256' from DER, 497' left of centerline, 32' AGL/873' MSL. Bldg 276' from DER, 342' left of centerline, 11' AGL/859' MSL. Bldg 298' from DER, 83' left of centerline, 9' AGL/857' MSL.

NOTE: Chart not to scale.

CONRA TWO DEPARTURE

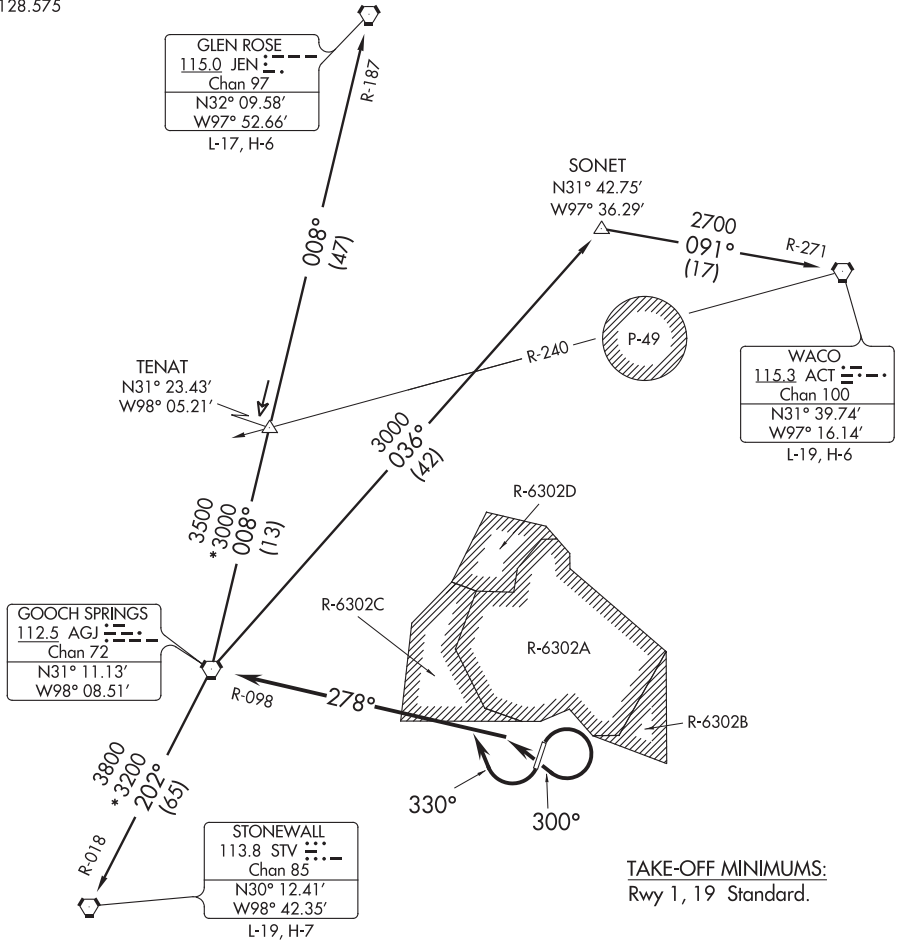
SC-3, 10 NOV 2016 to 05 JAN 2017

LAMP5 FIVE DEPARTURE

TOP ALTITUDE:
12000

CLNC DEL
121.7
GRAY DEP CON
120.075 323.15
AWOS-3PT
128.575

NOTE: RADAR Required.
NOTE: MRA at TENAT Int 4000 for Non-DME aircraft.



TAKE-OFF MINIMUMS:
Rwy 1, 19 Standard.

TAKE-OFF OBSTACLES:

- Rwy 1: Multiple poles beginning 317' from DER, 384' left of centerline, up to 27' AGL/868' MSL.
Tree, 973' from DER, 100' left of centerline, 28' AGL/876' MSL.
Building, 486' from DER, 9' right of centerline, 13' AGL/854' MSL.
Antenna, 351' from DER, 277' right of centerline, 11' AGL/852' MSL.
- Rwy 19: Pole, 288' from DER, 588' right of centerline, 32' AGL/880' MSL.
Building, 102' from DER, 411' right of centerline, 8' AGL/856' MSL.
Vehicle on road, 232' from DER, 499' right of centerline, 15' AGL/867' MSL.
Pole, 256' from DER, 497' left of centerline, 32' AGL/873' MSL.
Building, 276' from DER, 342' left of centerline, 11' AGL/859' MSL.
Building, 298' from DER, 83' left of centerline, 9' AGL/857' MSL.

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

LAMP5 FIVE DEPARTURE

LAMPS FIVE DEPARTURE



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 1: Climbing right turn heading 300° (to assigned altitude), to intercept and proceed on AGJ R-098. Thence

TAKE-OFF RWY 19: Climbing right turn heading 330° (to assigned altitude), to intercept and proceed on AGJ R-098. Thence

. . . . on (transition) or (assigned route).

GLEN ROSE TRANSITION (LAMPS5.JEN): (For aircraft inbound to Dallas/Fort Worth terminal area airports.) From over AGJ VORTAC on AGJ R-008 and JEN R-187 to JEN VORTAC.

STONEWALL TRANSITION (LAMPS5.STV): From over AGJ VORTAC on AGJ R-202 and STV R-018 to STV VORTAC.

WACO TRANSITION (LAMPS5.ACT): (For aircraft inbound to terminal area airports.) From over AGJ VORTAC on AGJ R-036 to SONET INT, then on ACT R-271 to ACT VORTAC.

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

KINGSVILLE, TEXAS

AL-5740 (FAA)

16259

WAAS CH 86618 W13A	APP CRS 134°	Rwy Idg TDZE Apt Elev	6000 130 130
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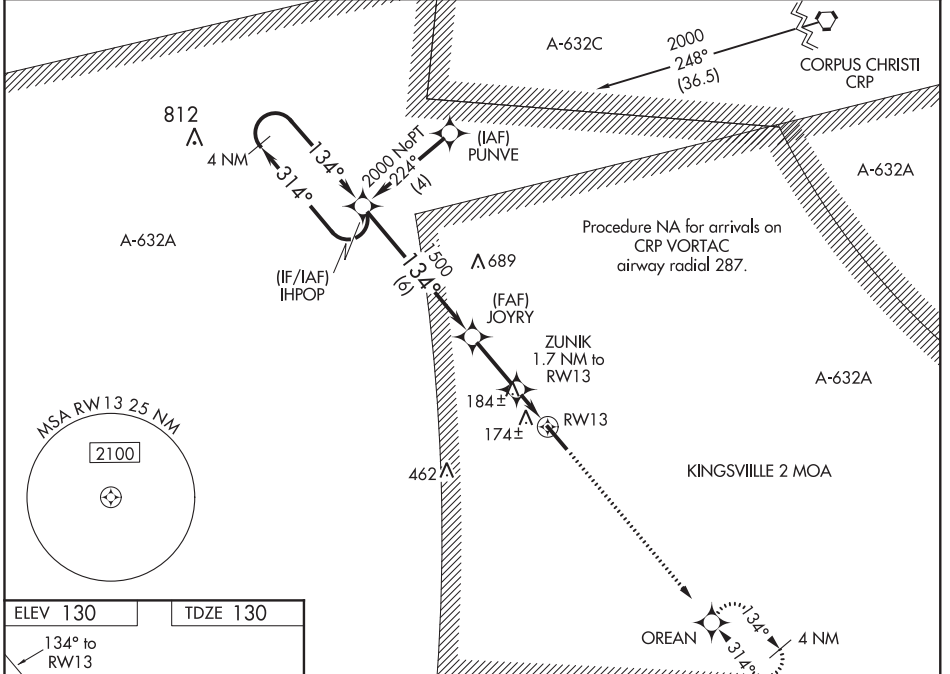
RNAV (GPS) RWY 13

KLEBERG COUNTY (IKG)

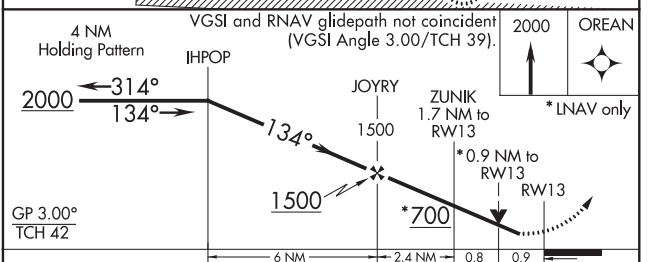
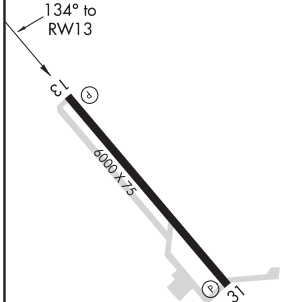
⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F). DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. **⚠** NA When local altimeter setting not received, use Alice altimeter setting and increase all DA 33 feet and all MDA 40 feet and LPV all Cats, LNAV/VNAV all Cats, and LNAV Cat D visibility 1/4 mile. Baro-VNAV and VDP NA when using Alice altimeter setting.

MISSED APPROACH: Climb to 2000 direct OREAN and hold. When authorized by ATC, climb-in-hold to 2500.

AWOS-3P 119.075	KINGSVILLE APP CON * 119.9 290.45	UNICOM 122.7 (CTAF) 0
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ELEV 130	TDZE 130
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CATEGORY	A	B	C	D
LPV DA		380-3/4	250 (300-3/4)	
LNAV/ VNAV DA		444-1	314 (400-1)	
LNAV MDA		440-1	310 (400-1)	
CIRCLING	500-1	580-1	580-1/2	680-2
	370 (400-1)	450 (500-1)	450 (500-1/2)	550 (600-2)

REIL Rwy 13 and 31 **1**
MIRL Rwy 13-31 **1**

KINGSVILLE, TEXAS
Orig 29JUL10

27°33'N - 98°02'W

RNAV (GPS) RWY 13

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

ILS or LOC/DME RWY 13R

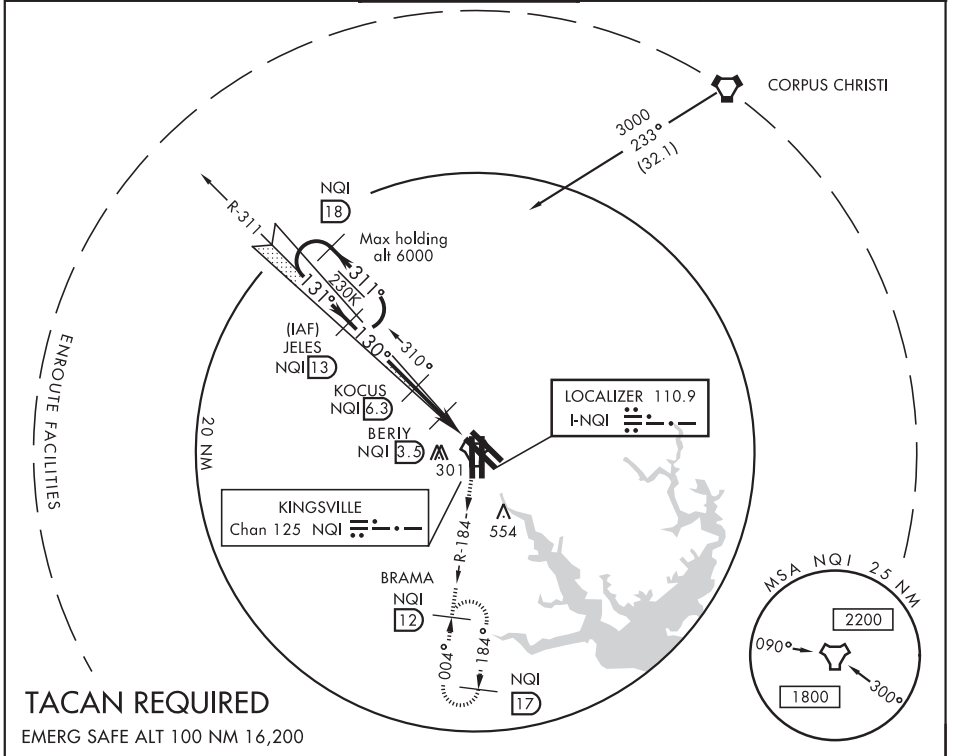
LOC I-NQI 110.9	APCH CRS 130°	Rwy ldg THRE Arpt Elev 8000 50 50
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AL-918 [USN]

KINGSVILLE NAS (KNQI)

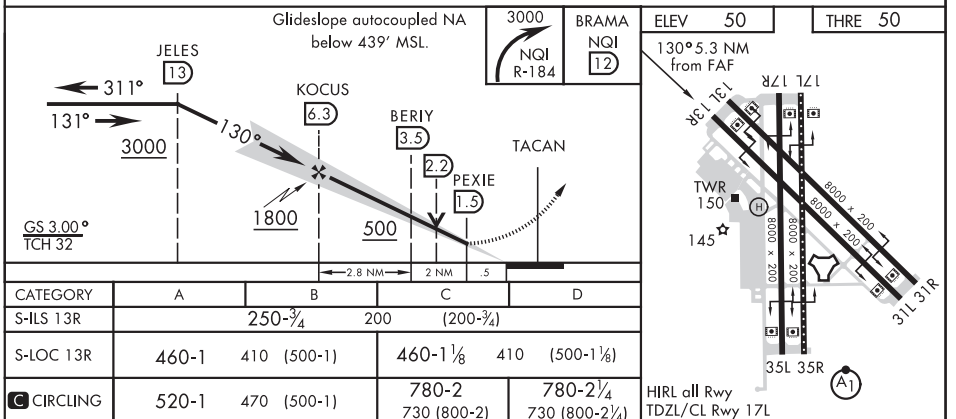
MISSED APPROACH: Climbing right turn to 3000 via NQI TACAN R-184 to BRAMA and hold.

ATIS ★ 276.2	KINGSVILLE APP CON 119.9 290.45	KINGSVILLE TOWER ★ 124.1 377.05	GND CON 239.05	CLNC DEL 328.4	ASR/PAR
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TACAN REQUIRED

EMERG SAFE ALT 100 NM 16,200



ILS or LOC/DME RWY 13R

KINGSVILLE, TEXAS

TACAN RWY 13L/R

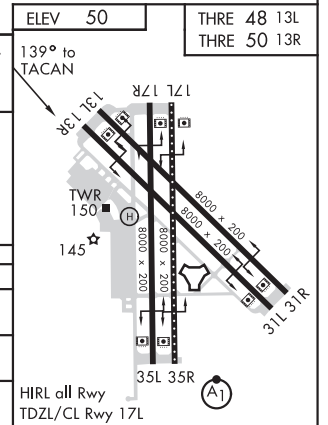
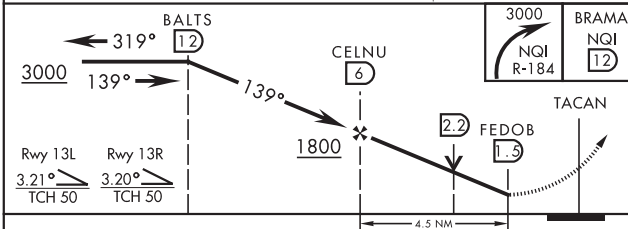
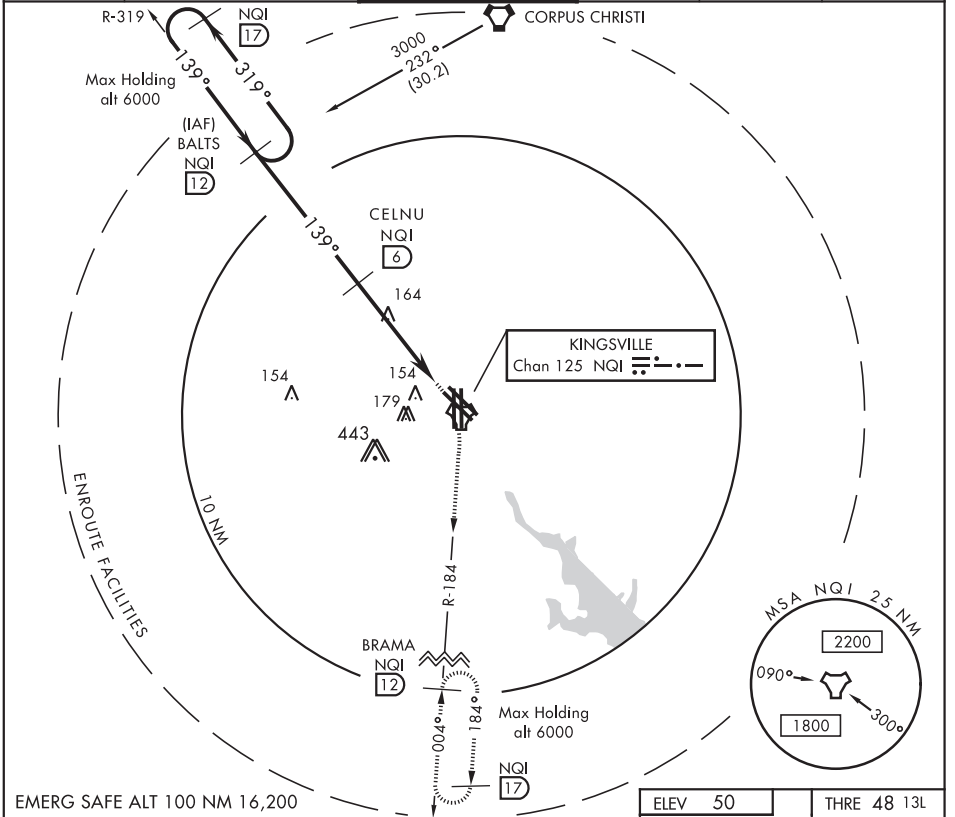
TACAN NQI Chan 125	APCH CRS 139°	Rwy 13L Idg THRE 48 Arpt Elev 50	Rwy 13R Idg THRE 50 Arpt Elev 50
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AL-918 [USN]

KINGSVILLE NAS (KNQI)

MISSED APPROACH: Climbing right turn to 3000 via NQI TACAN R-184 to BRAMA and hold.

ATIS ★ 276.2	KINGSVILLE APP CON 119.9 290.45	KINGSVILLE TOWER ★ 124.1 377.05	GND CON 239.05	CLNC DEL 328.4	ASR/PAR
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CATEGORY	A	B	C	D
S-13L	500-1	452 (500-1)	500-1 3/8 452 (500-1 3/8)	
S-13R	500-1	450 (500-1)	500-1 3/8 450 (500-1 3/8)	
CIRCLING	520-1	470 (500-1)	780-2 730 (800-2)	780-2 1/4 730 (800-2 1/4)

KINGSVILLE, TEXAS
Orig 13NOV14

27°30'N-97°49'W

KINGSVILLE NAS (KNQI)

TACAN RWY 13L/R

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

TACAN RWY 17L

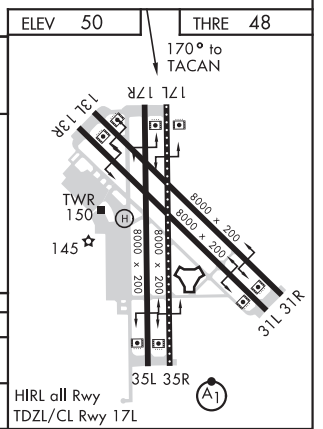
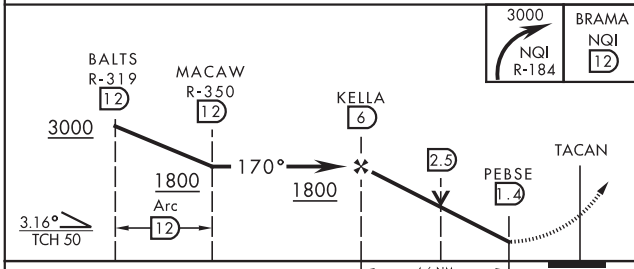
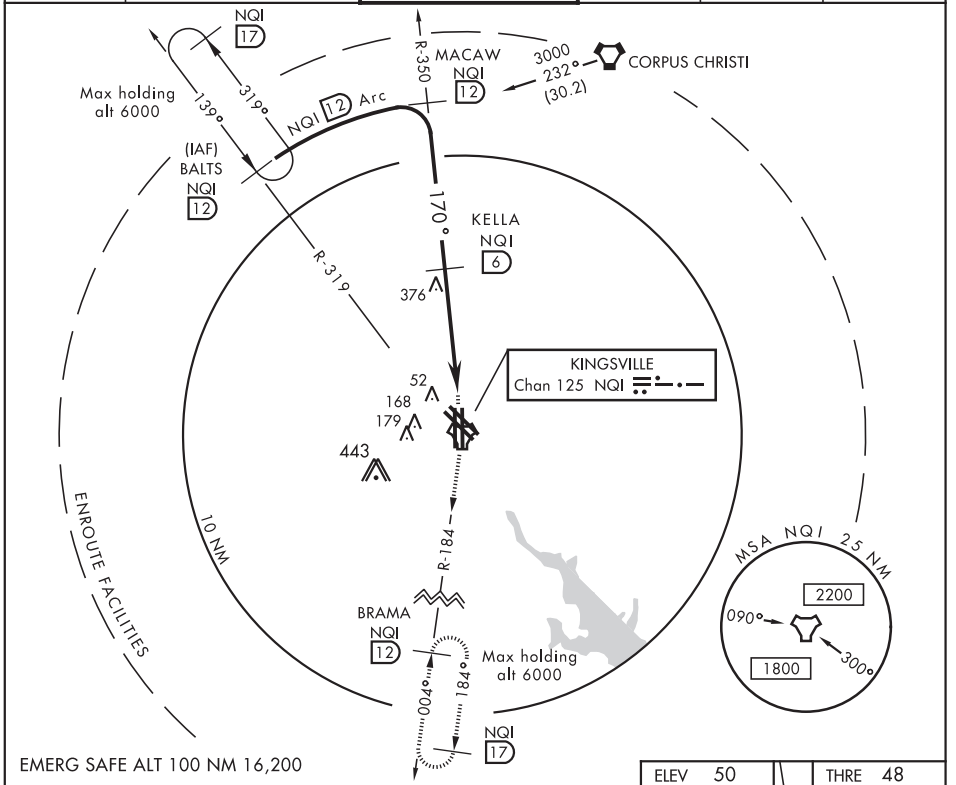
TACAN NQI Chan 125	APCH CRS 170°	Rwy ldg THRE Arprt Elev	8000 48 50
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AL-918 [USN]

KINGSVILLE NAS (KNQI)

MISSED APPROACH: Climbing right turn to 3000 via NQI TACAN R-184 to BRAMA and hold.

ATIS ★ 276.2	KINGSVILLE APP CON 119.9 290.45	KINGSVILLE TOWER ★ 124.1 377.05	GND CON 239.05	CLNC DEL 328.4	ASR/PAR
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CATEGORY	A	B	C	D
S-17L	640-1 592 (600-1)	640-1 592 (600-1)	640-1 592 (600-1)	640-1 592 (600-1)
CIRCLING	640-1 590 (600-1)	640-1 590 (600-1)	780-2 730 (800-2)	780-2 730 (800-2)

KINGSVILLE, TEXAS
Orig 13NOV14

27°30'N-97°49'W

KINGSVILLE NAS (KNQI)

TACAN RWY 17L

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

KINGSVILLE, TEXAS

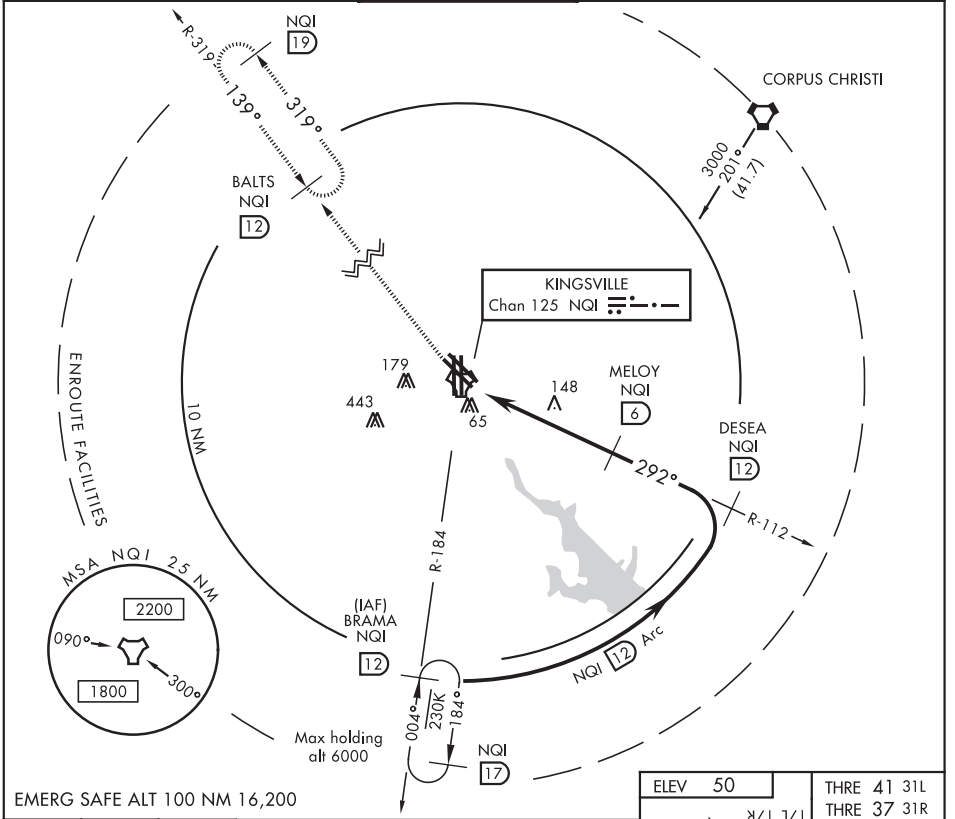
TACAN RWY 31L/R

TACAN NQI Chan 125	APCH CRS 292°	Rwy 31L Idg 8000 THRE 41 Arprt Elev 50	Rwy 31R Idg 8000 THRE 37 Arprt Elev 50
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AL-918 [USN] KINGSVILLE NAS (KNQI)

MISSED APPROACH: Climb to 3000 via NQI TACAN R-112 to NQI TACAN and NQI TACAN R-319 to BALTS and hold. Continue climb-in-hold.

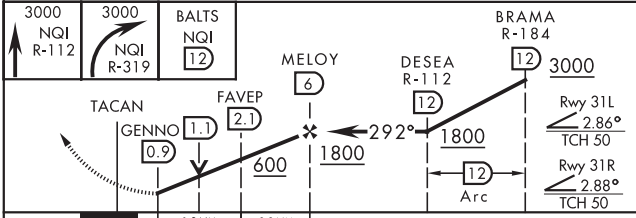
ATIS ★ 276.2	KINGSVILLE APP CON 119.9 290.45	KINGSVILLE TOWER ★ 124.1 377.05	GND CON 239.05	CLNC DEL 328.4	ASR/PAR
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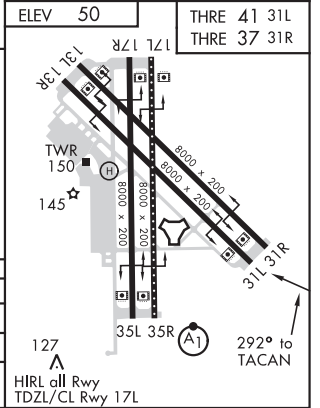
SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

EMERG SAFE ALT 100 NM 16,200



CATEGORY	A	B	C	D
S-31L		320-1	279 (300-1)	
S-31R		320-1	283 (300-1)	
CIRCLING	520-1	470 (500-1)	780-2 730 (800-2)	780-2¼ 730 (800-2¼)



KINGSVILLE, TEXAS
Orig 13NOV14

27°30'N-97°49'W

KINGSVILLE NAS (KNQI)

TACAN RWY 31L/R

TACAN RWY 35R

TACAN NQI Chan 125	APCH CRS 004°	Rwy Ldg THRE 47 Arprt Elev 50	8000
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AL-918 [USN]

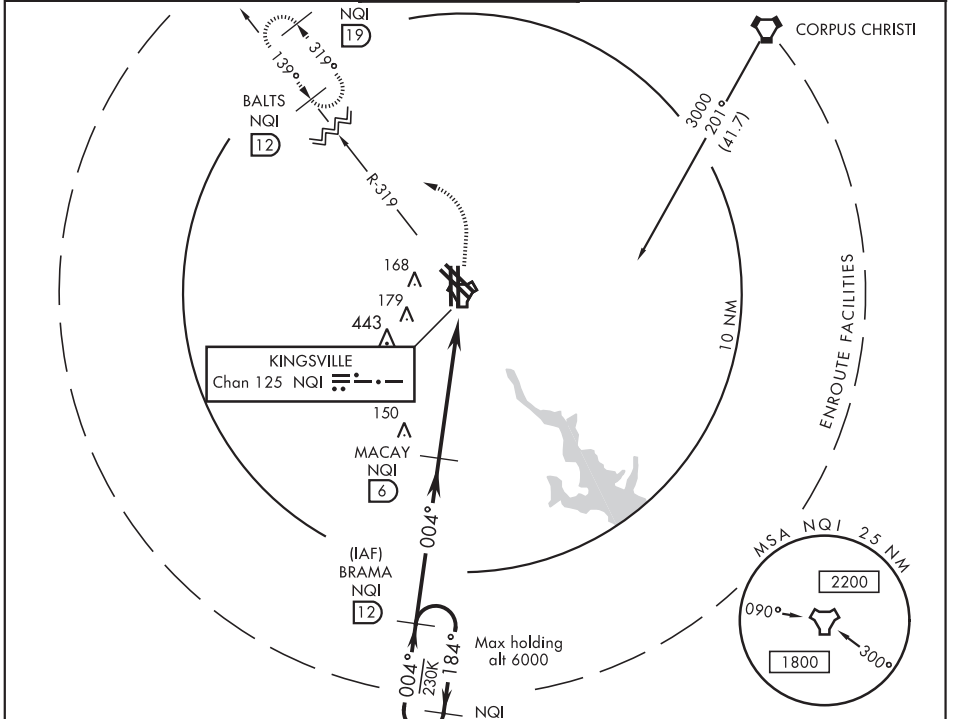
KINGSVILLE NAS (KNQI)

* When ALS inop, increase vis CAT ABCD to 1 mile.

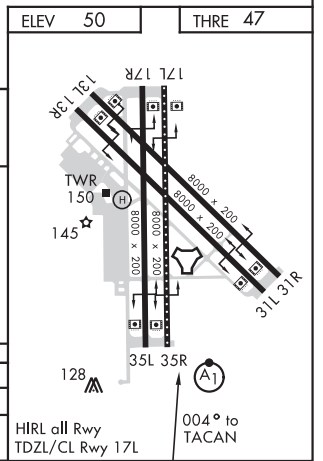
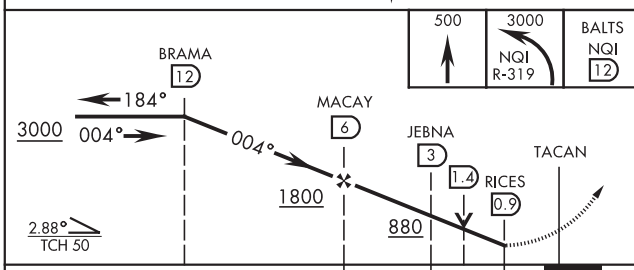
ALSF-1 

MISSED APPROACH: Climb to 500, then climbing left turn to 3000 via NQI TACAN R-319 to BALTS and hold. Continue climb-in-hold.

ATIS ★ 276.2	KINGSVILLE APP CON 119.9 290.45	KINGSVILLE TOWER ★ 124.1 377.05	GND CON 239.05	CLNC DEL 328.4	ASR/PAR
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EMERG SAFE ALT 100 NM 16,200



CATEGORY	A	B	C	D
S-35R *	420-1/2	373 (400-1/2)	420-3/4	373 (400-3/4)
CIRCLING	520-1	470 (500-1)	780-2 730 (800-2)	780-2 1/4 730 (800-2 1/4)

KINGSVILLE, TEXAS
Orig 13NOV14

27°30'N-97°49'W

KINGSVILLE NAS (KNQI)

TACAN RWY 35R

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

KINGSVILLE, TEXAS

TACAN Y RWY 17R

TACAN Chan 63	APCH CRS 146°	Rwy Idg THRE Arpt Elev 8000 48 50
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AL-918 [USN]

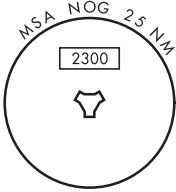
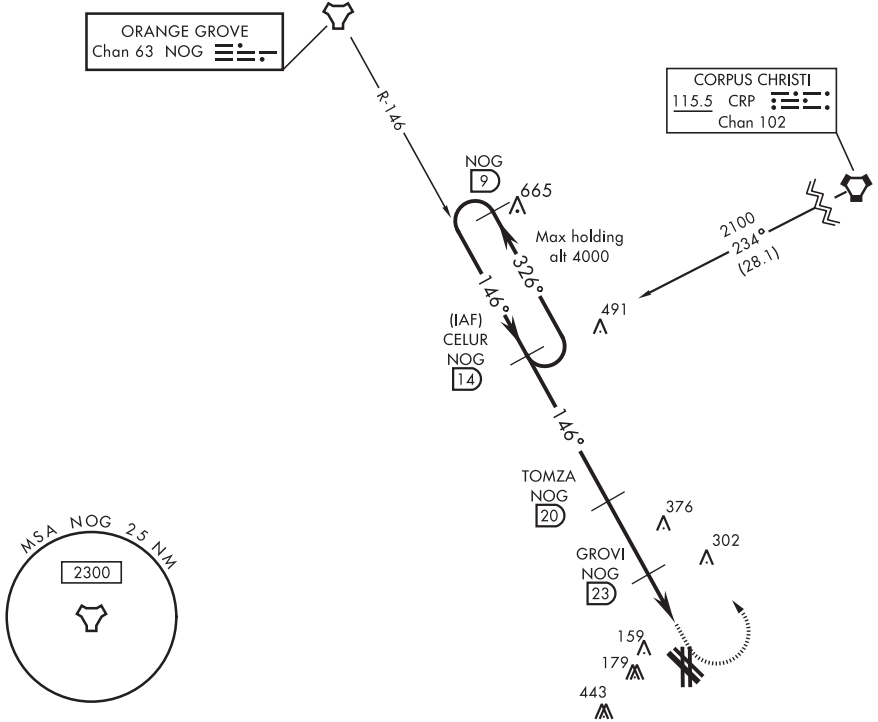
KINGSVILLE NAS (KNQI)

MISSED APPROACH: Climbing left turn to 1800, intercept NOG TACAN R-146 to CELUR and hold.

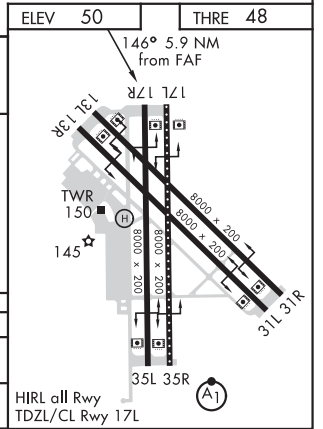
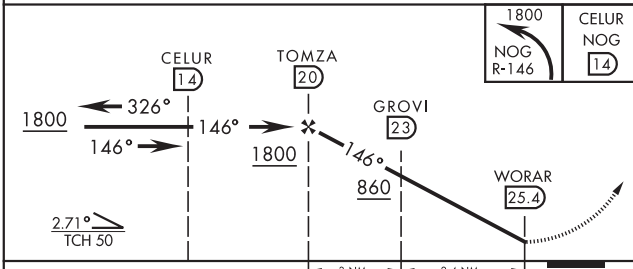
ATIS ★ 276.2	KINGSVILLE APP CON 119.9 290.45	KINGSVILLE TOWER ★ 124.1 377.05	GND CON 239.05	CLNC DEL 328.4	ASR/PAR
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ORANGE GROVE
Chan 63 NOG

CORPUS CHRISTI
115.5 CRP
Chan 102



EMERG SAFE ALT 100 NM 16,200



CATEGORY	A		B		C		D	
S-17R	620-1	572 (600-1)	620-1 ⁵ / ₈	572 (600-1 ⁵ / ₈)				
CIRCLING	620-1 570 (600-1)	620-1 ¹ / ₄ 570 (600-1 ¹ / ₄)	780-2 730 (800-2)	780-2 ¹ / ₄ 730 (800-2 ¹ / ₄)				

KINGSVILLE, TEXAS
Orig 13NOV14

27°30'N-97°49'W

KINGSVILLE NAS (KNQI)

TACAN Y RWY 17R

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

TACAN Z RWY 17R

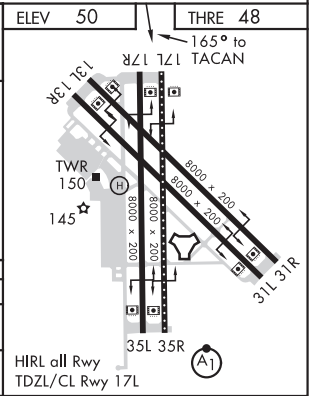
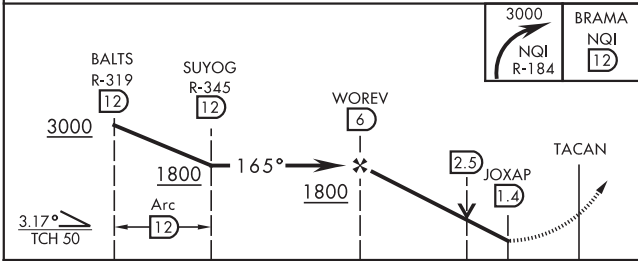
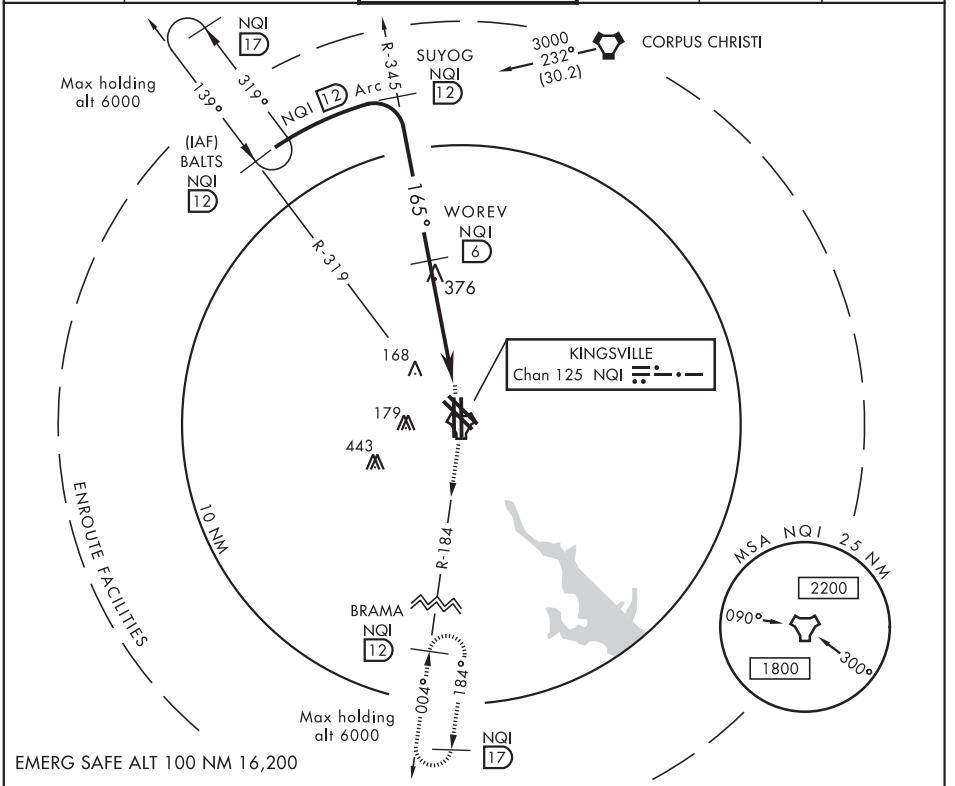
TACAN NQI Chan 125	APCH CRS 165°	Rwy Ldg THRE Arpt Elev	8000 48 50
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AL-918 [USN]

KINGSVILLE NAS (KNQI)

MISSED APPROACH: Climbing right turn to 3000 via NQI TACAN R-184 to BRAMA and hold.

ATIS ★ 276.2	KINGSVILLE APP CON 119.9 290.45	KINGSVILLE TOWER ★ 124.1 377.05	GND CON 239.05	CLNC DEL 328.4	ASR/PAR
------------------------	---	---	--------------------------	--------------------------	---------



CATEGORY	A		B		C		D	
S-17R	640-1	592	(600-1)	640-1¾	592	(600-1¾)		
CIRCLING	640-1	590	(600-1)	780-2	730 (800-2)	780-2¼	730 (800-2¼)	

KINGSVILLE, TEXAS
Orig 13NOV14

27°30'N-97°49'W

KINGSVILLE NAS (KNQI)

TACAN Z RWY 17R

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

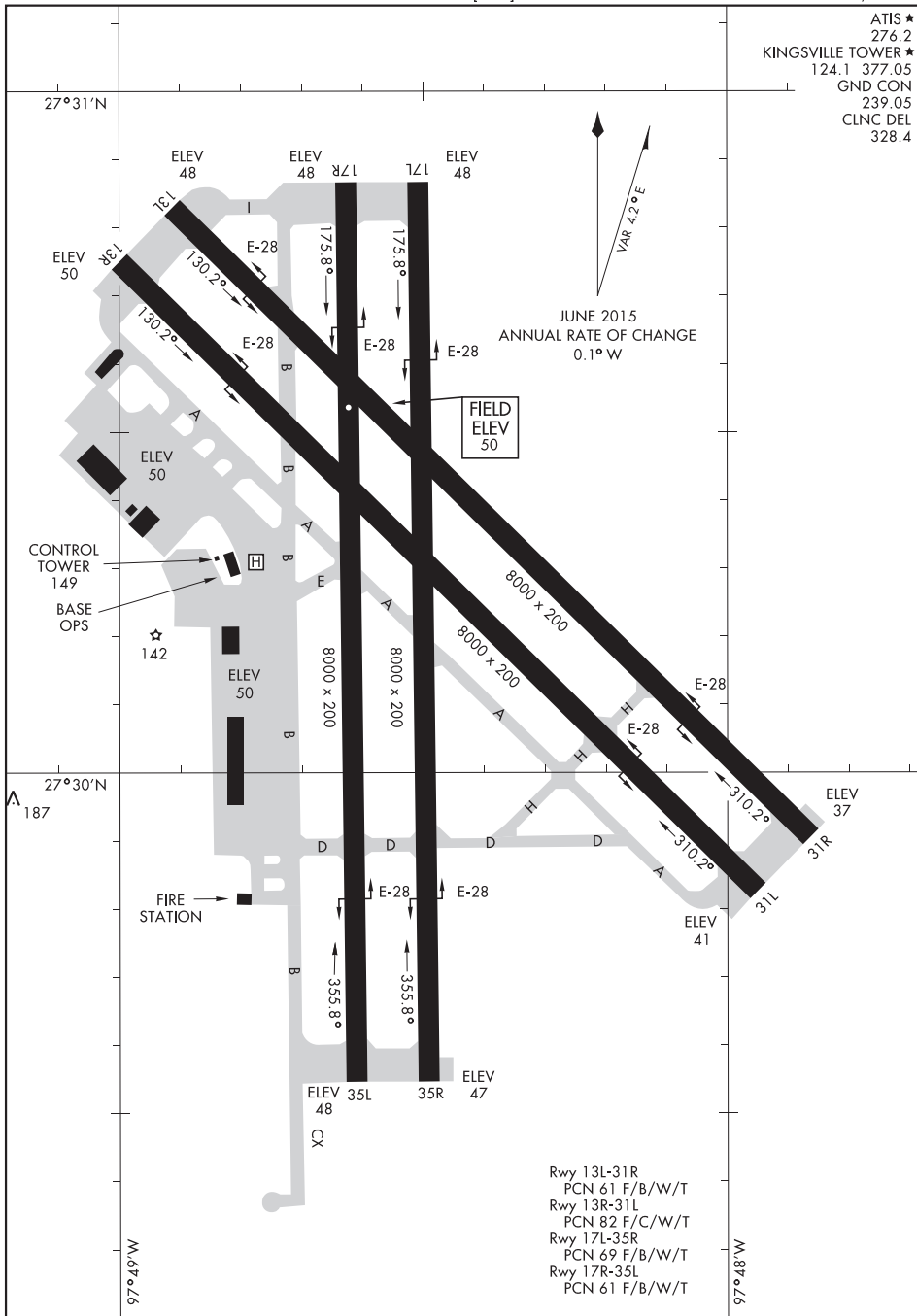
AIRPORT DIAGRAM

AFD-918 [USN]

KINGSVILLE NAS (KNQI)

KINGSVILLE, TEXAS

- ATIS ★ 276.2
- KINGSVILLE TOWER ★ 124.1 377.05
- GND CON 239.05
- CLNC DEL 328.4



SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

AIRPORT DIAGRAM

KINGSVILLE, TEXAS

KINGSVILLE NAS (KNQI)

KINGSVILLE-TWO DEPARTURE (NQI2 • NQI)

SHL-918 [USN]

KINGSVILLE NAS (KNQI)

KINGSVILLE, TEXAS

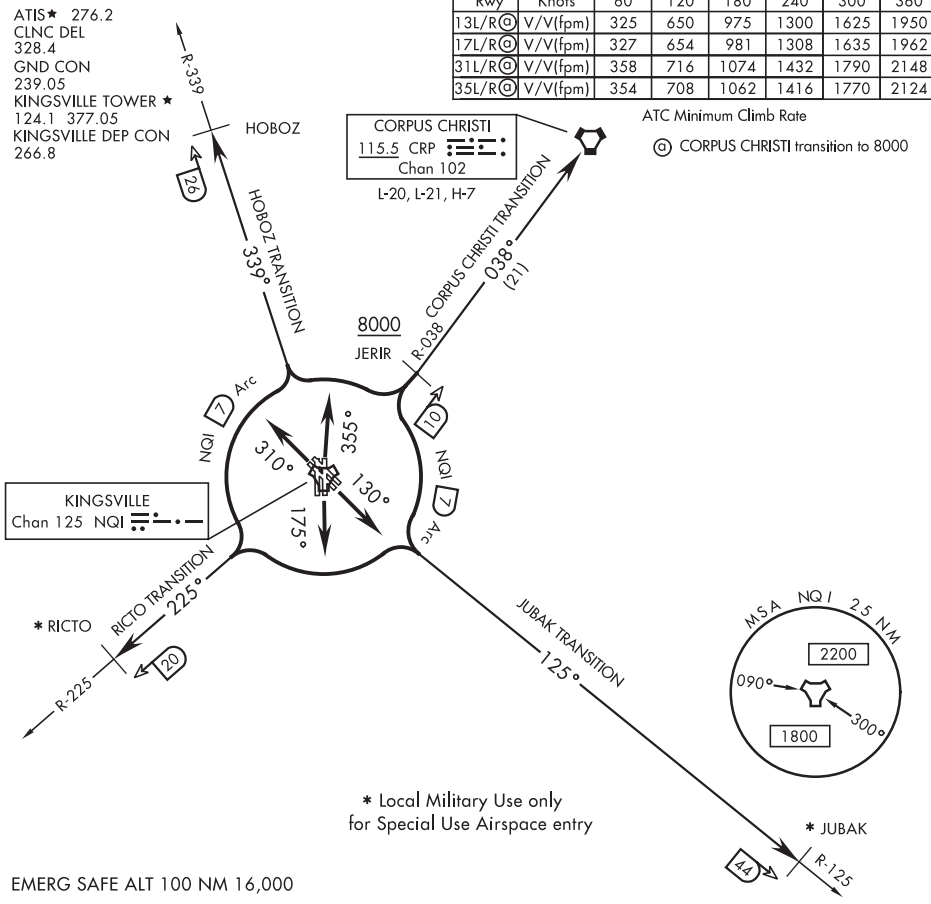
Rwy	Knots	60	120	180	240	300	360
13L/R	V/V (fpm)	325	650	975	1300	1625	1950
17L/R	V/V (fpm)	327	654	981	1308	1635	1962
31L/R	V/V (fpm)	358	716	1074	1432	1790	2148
35L/R	V/V (fpm)	354	708	1062	1416	1770	2124

ATIS ★ 276.2
 CLNC DEL
 328.4
 GND CON
 239.05
 KINGSVILLE TOWER ★
 124.1 377.05
 KINGSVILLE DEP CON
 266.8

CORPUS CHRISTI
 115.5 CRP
 Chan 102
 L-20, L-21, H-7

ATC Minimum Climb Rate

Ⓢ CORPUS CHRISTI transition to 8000



EMERG SAFE ALT 100 NM 16,000

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 13L/R: Climb via heading 130° to join NQI TACAN 7 DME Arc, thence....

TAKE-OFF RWY 17L/R: Climb via heading 175° to join NQI TACAN 7 DME Arc, thence....

TAKE-OFF RWY 31L/R: Climb via heading 310° to join NQI TACAN 7 DME Arc, thence....

TAKE-OFF RWY 35L/R: Climb via heading 355° to join NQI TACAN 7 DME Arc, thence....

CORPUS CHRISTI TRANSITION (NQI2 • CRP):

Rwys 13L/R and 17L/R: Turn left to join and arc SE on the NQI 7 DME arc to join and fly NQI R-038 to CRP VORTAC. Cross JERIR (NQI R-038/10) at 8000 min.

Rwys 31L/R and 35L/R: Turn right to join and arc N on the NQI 7 DME arc to join and fly NQI R-038 to CRP VORTAC. Cross JERIR (NQI R-038/10) at 8000 min. Departure Rwy 35L/R military use only.

(Continued on next page)

KINGSVILLE-TWO DEPARTURE (NQI2 • NQI)

KINGSVILLE, TEXAS

KINGSVILLE NAS (KNQI)

DEPARTURE ROUTE DESCRIPTION

(Continued)

HOBOZ TRANSITION (NQI2 • HOBOZ):

Rwys 13L/R and 35L/R: Turn left to join and arc NE on the NQI 7 DME arc to join and fly NQI R-339 to HOBOZ.

Rwys 17L/R and 31L/R: Turn right to join and arc W on the NQI 7 DME arc to join and fly NQI R-339 to HOBOZ.

JUBAK TRANSITION (NQI2 • JUBAK): *

Rwys 13L/R and 17L/R: Turn left to join and arc SE on the NQI 7 DME arc to join and fly NQI R-125 to JUBAK.

Rwys 31L/R and 35L/R: Turn right to join and arc NE on the NQI 7 DME arc to join and fly NQI R-125 to JUBAK.

RICTO TRANSITION (NQI2 • RICTO): *

Rwys 13L/R and 17L/R: Turn right to join and arc S on the NQI 7 DME arc to join and fly NQI R-225 to RICTO.

Rwys 31L/R and 35L/R: Turn left to join and arc W on the NQI 7 DME arc to join and fly NQI R-225 to RICTO.

* RICTO and JUBAK transitions are for local use for Special Use Airspace entry only.

LOST COMMUNICATIONS: If no transmissions are received one minute after departure, climb to assigned altitude, proceed direct assigned navaid or intercept NQI TACAN 7 DME arc, arc to respective departure radial then via departure radial to assigned departure fix. Then via assigned transition or route. Once established on departure radial climb to filed altitude.

WAAS CH 81831 W15A	APP CRS 154°	Rwy Idg TDZE Apt Elev	3808 1230 1230
--	------------------------	-----------------------------	---

RNAV (GPS) RWY 15

LAGO VISTA TX-RUSTY ALLEN (RYW)

⚠ When local altimeter setting not received, use Burnet altimeter setting and increase all MDA 60 feet. DME/DME RNP-0.3 NA. Helicopter visibility reduction below $\frac{3}{4}$ SM NA.

MISSED APPROACH: Climb to 1700 then climbing right turn to 4100 direct DIFFA and hold.

AWOS-3

119.375

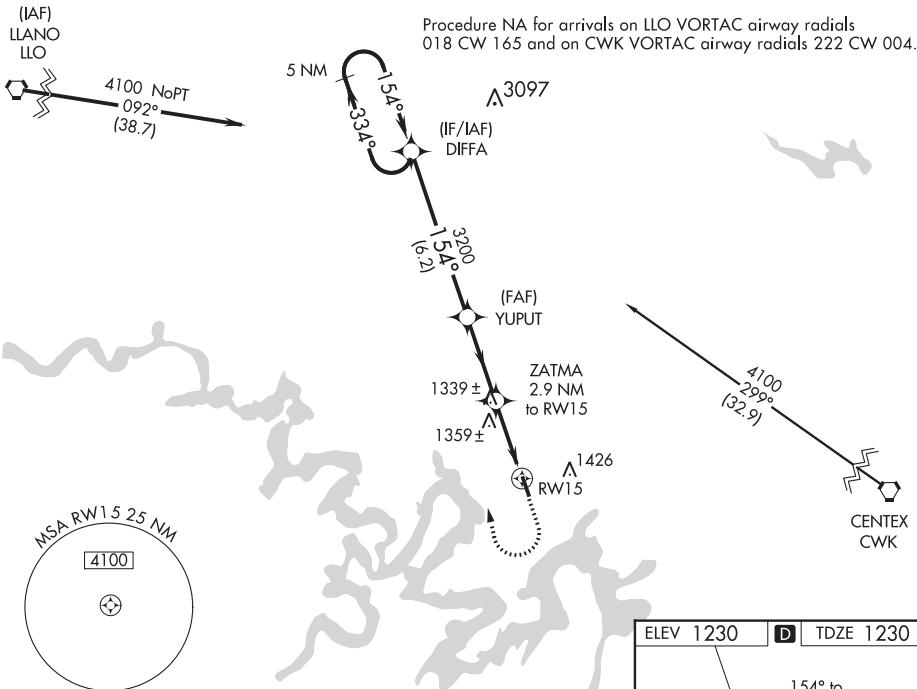
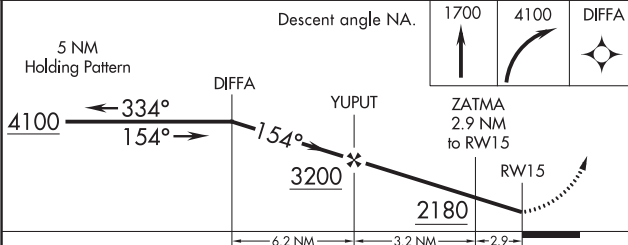
AUSTIN APP CON

119.0 370.85

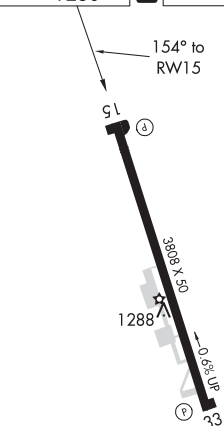
UNICOM

122.725 (CTAF) **U**

Procedure NA for arrivals on LLO VORTAC airway radials 018 CW 165 and on CWK VORTAC airway radials 222 CW 004.

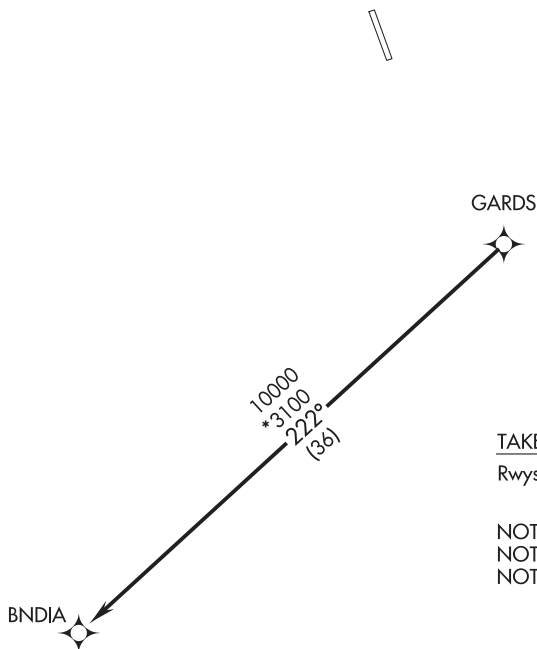
ELEV 1230 **D** TDZE 1230

CATEGORY	A	B	C	D
LP MDA	1600-1	370 (400-1)	NA	NA
LNAV MDA	1620-1	390 (400-1)	NA	NA
CIRCLING	1660-1 430 (500-1)	1700-1 470 (500-1)	NA	NA

MIRL Rwy 15-33 **U**

BNDIA ONE DEPARTURE (RNAV)

AWOS-3
119.375
AUSTIN DEP CON
119.0 370.85



TAKEOFF MINIMUMS:

Rwys 15, 33: Standard.

- NOTE: RADAR required.
- NOTE: DME/DME/IRU or GPS required.
- NOTE: RNAV-1

TAKEOFF OBSTACLES:

- Rwy 15: Trees beginning 18' from DER, 468' left of centerline, up to 33' AGL/1232' MSL.
Buildings beginning 5' from DER, 157' right of centerline, 25' AGL/1225' MSL.
Building 160' from DER, 248' left of centerline, 20' AGL/1224' MSL.
- Rwy 33: Trees beginning 44' from DER, 132' left of centerline, up to 27' AGL/1266' MSL.
Trees beginning 604' from DER, 148' left of centerline, up to 33' AGL/1272' MSL.
Trees beginning 14' from DER, 159' right of centerline, up to 20' AGL/1259' MSL.
Trees beginning 494' from DER, 395' right of centerline, up to 31' AGL/1270' MSL.
Vertical structures beginning 272' from DER, 66' left of centerline, up to 5' AGL/1240' MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 15, 33: Climb on assigned heading for radar vectors to GARDS, then on depicted route to BNDIA, thence

. . . . maintain 3000 or as assigned by ATC. Expect filed altitude 10 minutes after departure.

(DILLO1.DILLO) 15064

DILLO ONE DEPARTURE (RNAV) SL-6111 (FAA)

LAGO VISTA TX-RUSTY ALLEN (RYW)

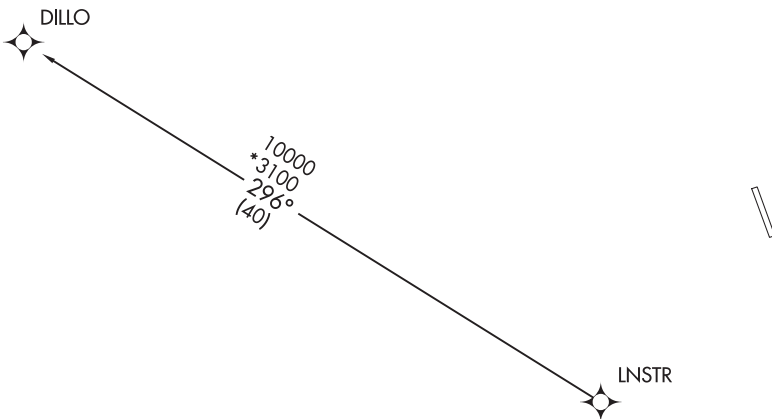
LAGO VISTA, TEXAS

AWOS-3
119.375
AUSTIN DEP CON
119.0 370.85

TAKEOFF MINIMUMS:

Rwys 15, 33: Standard.

- NOTE: RADAR required.
- NOTE: DME/DME/IRU or GPS required.
- NOTE: RNAV-1



TAKEOFF OBSTACLES:

- Rwy 15: Trees beginning 18' from DER, 468' left of centerline, up to 33' AGL/1232' MSL.
Buildings beginning 5' from DER, 157' right of centerline, 25' AGL/1225' MSL.
Building 160' from DER, 248' left of centerline, 20' AGL/1224' MSL.
- Rwy 33: Trees beginning 44' from DER, 132' left of centerline, up to 27' AGL/1266' MSL.
Trees beginning 604' from DER, 148' left of centerline, up to 33' AGL/1272' MSL.
Trees beginning 14' from DER, 159' right of centerline, up to 20' AGL/1259' MSL.
Trees beginning 494' from DER, 395' right of centerline, up to 31' AGL/1270' MSL.
Vertical structures beginning 272' from DER, 66' left of centerline, up to 5' AGL/1240' MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 15, 33: Climb on assigned heading for radar vectors to LNSTR, then on depicted route to DILLO, thence

. . . . maintain 3000 or as assigned by ATC. Expect filed altitude 10 minutes after departure.

DILLO ONE DEPARTURE (RNAV)
(DILLO1.DILLO) 15064

LAGO VISTA, TEXAS
LAGO VISTA TX-RUSTY ALLEN (RYW)

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

ELOEL ONE DEPARTURE (RNAV)

SL-6111 (FAA)

LAGO VISTA, TEXAS

AWOS-3
119.375
AUSTIN DEP CON
119.0 370.85

TAKEOFF MINIMUMS:
Rwys 15, 33: Standard.

NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV-1

TAKEOFF OBSTACLES:

- Rwy 15: Trees beginning 18' from DER, 468' left of centerline, up to 33' AGL/1232' MSL.
Buildings beginning 5' from DER, 157' right of centerline, 25' AGL/1225' MSL.
Building 160' from DER, 248' left of centerline, 20' AGL/1224' MSL.
- Rwy 33: Trees beginning 44' from DER, 132' left of centerline, up to 27' AGL/1266' MSL.
Trees beginning 604' from DER, 148' left of centerline, up to 33' AGL/1272' MSL.
Trees beginning 14' from DER, 159' right of centerline, up to 20' AGL/1259' MSL.
Trees beginning 494' from DER, 395' right of centerline, up to 31' AGL/1270' MSL.
Vertical structures beginning 272' from DER, 66' left of centerline, up to 5' AGL/1240' MSL.

NOTE: Chart not to scale.

▼ DEPARTURE ROUTE DESCRIPTION

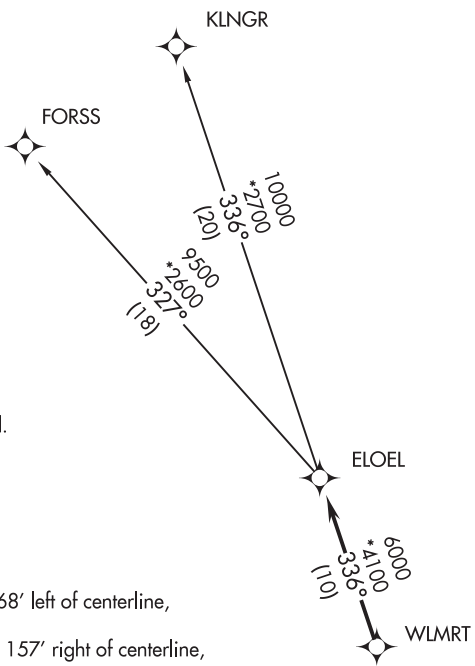
TAKEOFF RUNWAYS 15, 33: Climb on assigned heading for radar vectors to WLMRT, then on depicted route to ELOEL, thence

. . . . On (transition). Maintain 3000 or as assigned by ATC. Expect filed altitude 10 minutes after departure.

FORSS TRANSITION (ELOEL1.FORSS):
KLNGR TRANSITION (ELOEL1.KLNGR):

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017



AWOS-3
119.375
AUSTIN DEP CON
119.0 370.85

TAKEOFF MINIMUMS:

Rwys 15, 33: Standard.

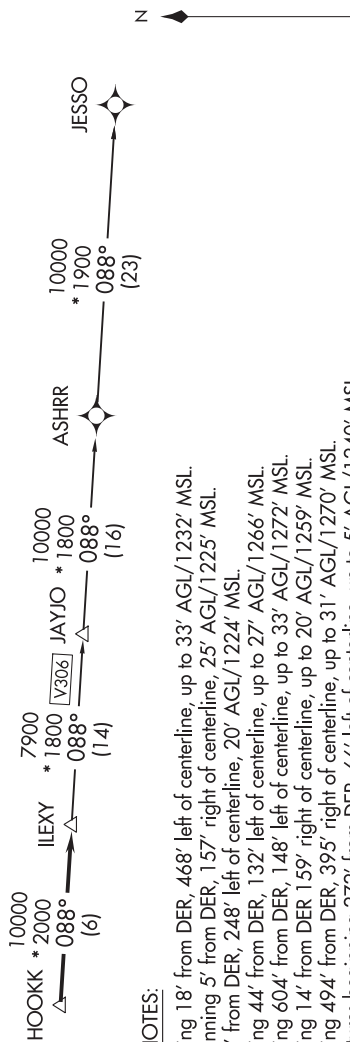
NOTE: RADAR required.

NOTE: DME/DME/IRU or GPS required.

NOTE: RNAV-1.

NOTE: Houston terminal area arrivals expect routing from ILEXY.

NOTE: JAYJO transition to join V306 only.



TAKEOFF OBSTACLE NOTES:

- Rwy 15: Trees beginning 18' from DER, 468' left of centerline, up to 33' AGL/1232' MSL.
Building beginning 5' from DER, 157' right of centerline, 25' AGL/1225' MSL.
Building 160' from DER, 248' left of centerline, 20' AGL/1224' MSL.
- Rwy 33: Trees beginning 44' from DER, 132' left of centerline, up to 27' AGL/1266' MSL.
Trees beginning 604' from DER, 148' left of centerline, up to 33' AGL/1272' MSL.
Trees beginning 14' from DER 159' right of centerline, up to 20' AGL/1259' MSL.
Trees beginning 494' from DER, 395' right of centerline, up to 31' AGL/1270' MSL.
Vertical structures beginning 272' from DER, 66' left of centerline, up to 5' AGL/1240' MSL.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWYS 15, 33: Climb on assigned heading for radar vectors to HOOKK, then on depicted route to ILEXY, thence on (transition). Maintain 3000 or as assigned by ATC. Expect filed altitude 10 minutes after departure.

JAYJO TRANSITION (ILEXY1 .JAYJO):
JESSO TRANSITION (ILEXY1 .JESSO):

(MUCKY1 .MUCKY) 15176

270
SL-6111 (FAA)

LAGO VISTA TX-RUSTY ALLEN (RYW)

MUCKY ONE DEPARTURE (RNAV)

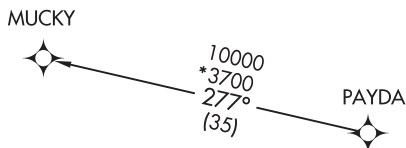
LAGO VISTA, TEXAS

AWOS-3
119.375
AUSTIN DEP CON
119.0 370.85

TAKEOFF MINIMUMS:

Rwys 15, 33: Standard.

NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV-1



TAKEOFF OBSTACLE NOTES:

- Rwy 15: Trees beginning 18' from DER, 468' left of centerline, up to 33' AGL/1232' MSL.
Building beginning 5' from DER, 157' right of centerline, 25' AGL/1225' MSL.
Building 160' from DER, 248' left of centerline, 20' AGL/1224' MSL.
- Rwy 33: Trees beginning 44' from DER, 132' left of centerline, up to 27' AGL/1266' MSL.
Trees beginning 604' from DER, 148' left of centerline, up to 33' AGL/1272' MSL.
Trees beginning 14' from DER 159' right of centerline, up to 20' AGL/1259' MSL.
Trees beginning 494' from DER, 395' right of centerline, up to 31' AGL/1270' MSL.
Vertical structures beginning 272' from DER, 66' left of centerline, up to 5' AGL/1240' MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 15, 33: Climb on assigned heading for radar vectors to PAYDA, then on depicted route to MUCKY, thence

. . . . Maintain 3000 or as assigned by ATC. Expect filed altitude 10 minutes after departure.

MUCKY ONE DEPARTURE (RNAV)
(MUCKY1 .MUCKY) 15176

LAGO VISTA, TEXAS
LAGO VISTA TX-RUSTY ALLEN (RYW)

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

(SAYBR1.SAYBR) 15176

SAYBR ONE DEPARTURE (RNAV)

LAGO VISTA TX-RUSTY ALLEN (RYW)

SL-6111 (FAA)

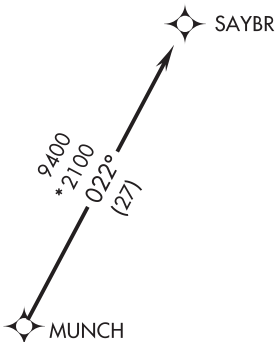
LAGO VISTA, TEXAS

AWOS-3
119.375
AUSTIN DEP CON
119.0 370.85

TAKEOFF MINIMUMS:

Rwys 15, 33: Standard.

- NOTE: RADAR required.
- NOTE: DME/DME/IRU or GPS required.
- NOTE: RNAV-1
- NOTE: For DFW Terminal Area Arrivals at FL230 or below only.



SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

TAKEOFF OBSTACLE NOTES:

- Rwy 15: Trees beginning 18' from DER, 468' left of centerline, up to 33' AGL/1232' MSL. Building beginning 5' from DER, 157' right of centerline, 25' AGL/1225' MSL. Building 160' from DER, 248' left of centerline, 20' AGL/1224' MSL.
- Rwy 33: Trees beginning 44' from DER, 132' left of centerline, up to 27' AGL/1266' MSL. Trees beginning 604' from DER, 148' left of centerline, up to 33' AGL/1272' MSL. Trees beginning 14' from DER 159' right of centerline, up to 20' AGL/1259' MSL. Trees beginning 494' from DER, 395' right of centerline, up to 31' AGL/1270' MSL. Vertical structures beginning 272' from DER, 66' left of centerline, up to 5' AGL/1240' MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 15, 33: Climb on assigned heading for radar vectors to MUNCH, then on depicted route to SAYBR, thence

. . . . Maintain 3000 or as assigned by ATC. Expect filed altitude 10 minutes after departure.

SAYBR ONE DEPARTURE (RNAV)

(SAYBR1.SAYBR) 15176

LAGO VISTA, TEXAS

LAGO VISTA TX-RUSTY ALLEN (RYW)

LAKEWAY, TEXAS

AL-6677 (FAA)

15092

WAAS CH 42531 W16A	APP CRS 165°	Rwy Idg TDZE Apt Elev	3148 903 909
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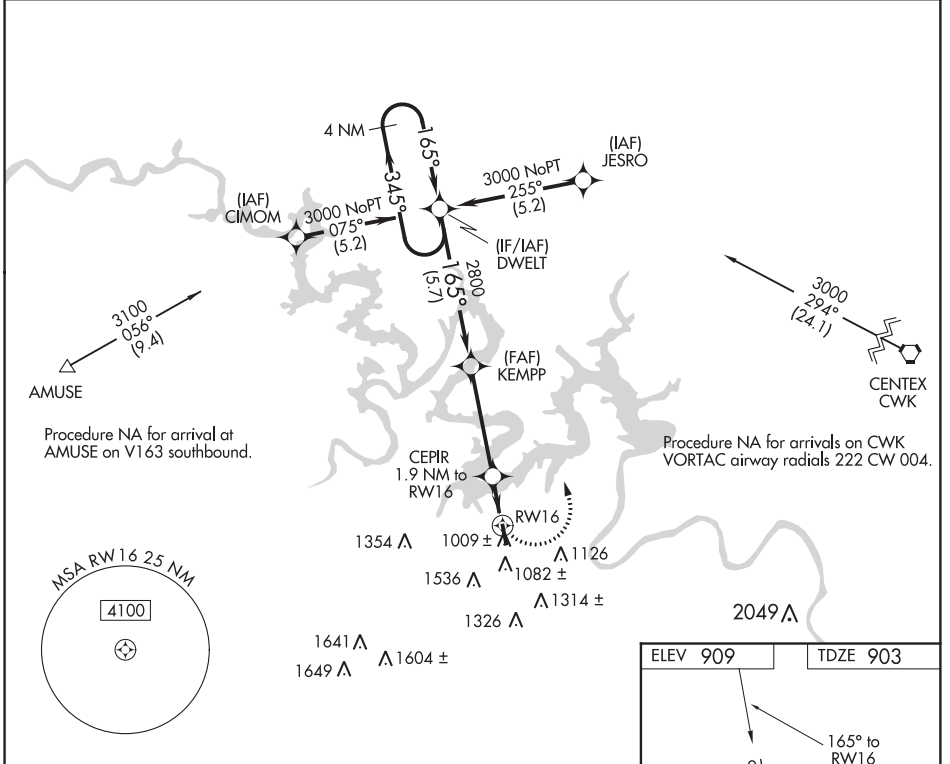
RNAV (GPS) RWY 16

LAKEWAY AIRPARK (3R.9)

▼ Use Lago Vista altimeter setting; when not received, use Austin-Bergstrom Intl altimeter setting and increase all MDA 40 feet. Procedure NA at night. DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.

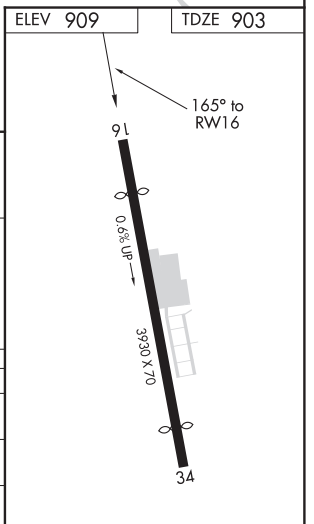
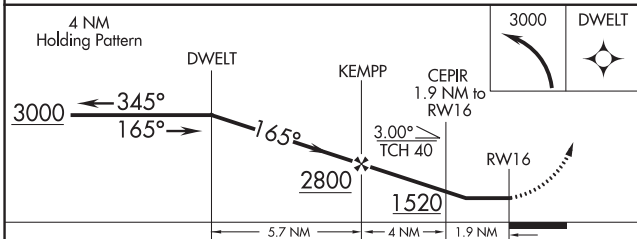
▲ NA MISSED APPROACH: Climbing left turn to 3000 direct DWELT and hold.

LAGO VISTA AWOS-3 119.375	AUSTIN APP CON 119.0 370.85	UNICOM 123.0 (CTAF)
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SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017



CATEGORY	A	B	C	D
LP MDA	1340-1	437 (500-1)		NA
LNAV MDA	1360-1	457 (500-1)		NA
CIRCLING	1620-1 711 (800-1)	1960-1 ½ 1051 (1100-1½)		NA

LAKEWAY, TEXAS
Amdt 1A 02APR15

30°21'N-98°00'W

LAKEWAY AIRPARK (3R.9)

RNAV (GPS) RWY 16

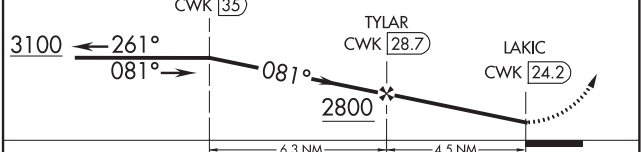
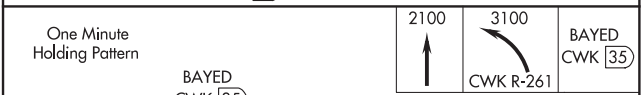
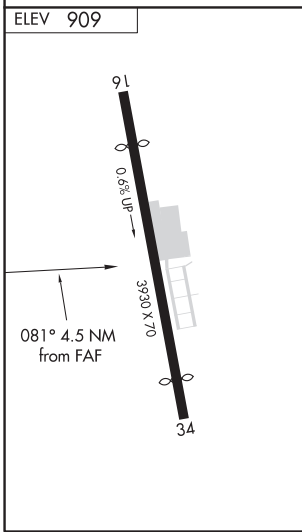
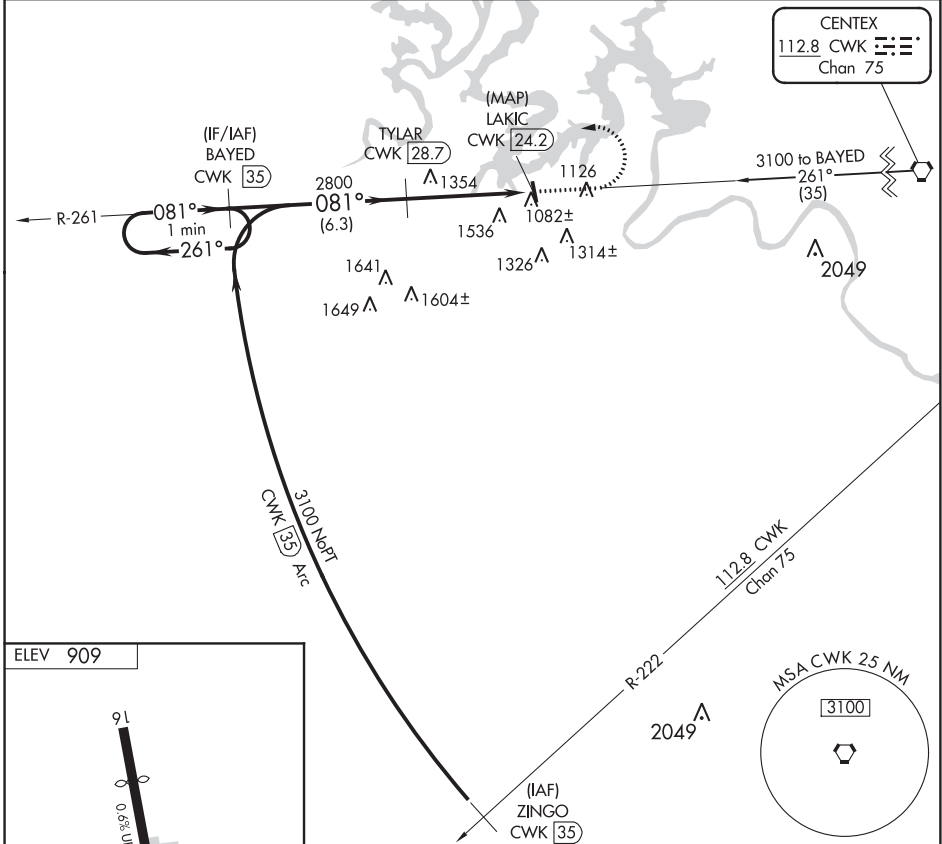
VORTAC CWK 112.8 Chan 75	APP CRS 081°	Rwy Idg TDZE Apt Elev 909	N/A N/A 909
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VOR/DME-A
LAKEWAY AIRPARK (3R9)

Procedure NA at night. Visibility reduction by helicopters NA.
NA Use Lago Vista altimeter setting; when not received, use Austin-Bergstrom Intl altimeter setting and increase all MDA 40 feet.

MISSED APPROACH: Climb to 2100 then climbing left turn to 3100 on CWK VORTAC R-261 to BAYED/35 DME and hold.

LAGO VISTA AWOS-3 119.375	AUSTIN APP CON 119.0 370.85	UNICOM 123.0 (CTAF)
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CATEGORY	A	B	C	D
CIRCLING	1920-1¼ 1011 (1100-1¼)	1960-1½ 1051 (1100-1½)	NA	

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

BNDIA ONE DEPARTURE (RNAV)

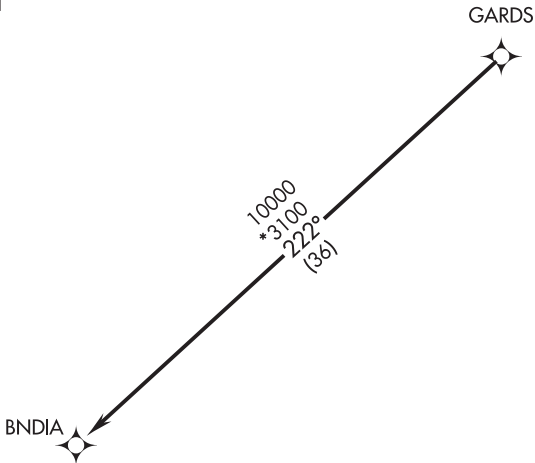
AUSTIN DEP CON
119.0 370.85

TAKEOFF MINIMUMS:

Rwy 16: 500-2¾ or standard with a minimum climb of 265' per NM to 1500.
Rwy 34: Standard



- NOTE: RADAR required.
- NOTE: DME/DME/IRU or GPS required.
- NOTE: RNAV-1



TAKEOFF OBSTACLES:

- Rwy 16: Trees on rising terrain beginning 26' from DER, 161' right of centerline, up to 50' AGL/975' MSL.
 Building 38' from DER, 229' right of centerline, 50' AGL/989' MSL.
 Tree 194' from DER, 221' left of centerline, 50' AGL/943' MSL.
 Building and trees beginning 534' from DER, 165' left of centerline, 40' AGL/941' MSL.
 Powerlines with catenary markers beginning 776' from DER, crossing centerline, up to 80' AGL/999' MSL.
 Tower 2.1 NM from DER, 1314' right of centerline, 195' AGL/1326' MSL.
- Rwy 34: Trees beginning abeam DER, right of centerline, up to 50' AGL/931' MSL.
 Trees and buildings beginning abeam DER, 161' left of centerline, up to 50' AGL/965' MSL.
 Trees and buildings on rising terrain beginning 3405' from DER, crossing centerline, up to 50' AGL/1009' MSL.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 16: Climb on heading 165° to 1700, then as assigned by ATC for radar vectors to GARDS, then on depicted route to BNDIA, thence

TAKEOFF RUNWAY 34: Climb on assigned heading for radar vectors to GARDS, then on depicted route to BNDIA, thence

. . . . maintain 3000 or as assigned by ATC. Expect filed altitude 10 minutes after departure.

(DILLO1.DILLO) 15064

LAKEWAY AIRPARK (3R9)

DILLO ONE DEPARTURE (RNAV) SL-6677 (FAA)

LAKEWAY, TEXAS

AUSTIN DEP CON
119.0 370.85

TAKEOFF MINIMUMS:

Rwy 16: 500-2¾ or standard with a minimum climb of 265' per NM to 1500.
Rwy 34: Standard

NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV-1



10000
*3100
296°
(40)

LNSTR



TAKEOFF OBSTACLES:

- Rwy 16: Trees on rising terrain beginning 26' from DER, 161' right of centerline, up to 50' AGL/975' MSL.
 Building 38' from DER, 229' right of centerline, 50' AGL/989' MSL.
 Tree 194' from DER, 221' left of centerline, 50' AGL/943' MSL.
 Building and trees beginning 534' from DER, 165' left of centerline, 40' AGL/941' MSL.
 Powerlines with catenary markers beginning 776' from DER, crossing centerline, up to 80' AGL/999' MSL.
 Tower 2.1 NM from DER, 1314' right of centerline, 195' AGL/1326' MSL.
- Rwy 34: Trees beginning abeam DER, right of centerline, up to 50' AGL/931' MSL.
 Trees and buildings beginning abeam DER, 161' left of centerline, up to 50' AGL/965' MSL.
 Trees and buildings on rising terrain beginning 3405' from DER, crossing centerline, up to 50' AGL/1009' MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 16: Climb on heading 165° to 1700, then as assigned by ATC for radar vectors to LNSTR, then on depicted route to DILLO, thence
TAKEOFF RUNWAY 34: Climb on assigned heading for radar vectors to LNSTR, then on depicted route to DILLO, thence

. . . . maintain 3000 or as assigned by ATC. Expect filed altitude 10 minutes after departure.

DILLO ONE DEPARTURE (RNAV)

(DILLO1.DILLO) 15064

LAKEWAY, TEXAS

LAKEWAY AIRPARK (3R9)

ELOEL ONE DEPARTURE (RNAV)

SL-6677 (FAA)

LAKEWAY, TEXAS

AUSTIN DEP CON
119.0 370.85

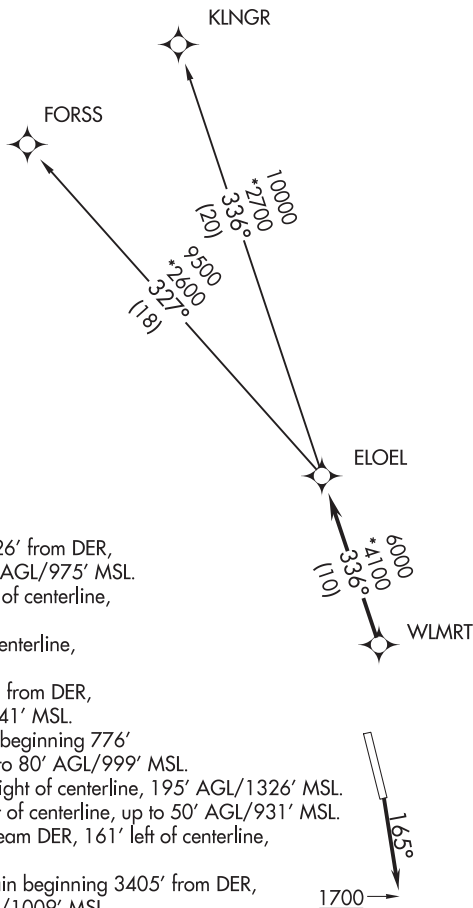
TAKEOFF MINIMUMS:

Rwy 16: 500-2¾ or standard with a minimum climb of 265' per NM to 1500.
Rwy 34: Standard

NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV-1

TAKEOFF OBSTACLES:

Rwy 16: Trees on rising terrain beginning 26' from DER, 161' right of centerline, up to 50' AGL/975' MSL.
Building 38' from DER, 229' right of centerline, 50' AGL/989' MSL.
Tree 194' from DER, 221' left of centerline, 50' AGL/943' MSL.
Building and trees beginning 534' from DER, 165' left of centerline, 40' AGL/941' MSL.
Powerlines with catenary markers beginning 776' from DER, crossing centerline, up to 80' AGL/999' MSL.
Tower 2.1 NM from DER, 1314' right of centerline, 195' AGL/1326' MSL.
Rwy 34: Trees beginning abeam DER, right of centerline, up to 50' AGL/931' MSL.
Trees and buildings beginning abeam DER, 161' left of centerline, up to 50' AGL/965' MSL.
Trees and buildings on rising terrain beginning 3405' from DER, crossing centerline, up to 50' AGL/1009' MSL.



NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 16: Climb on heading 165° to 1700, then as assigned by ATC for radar vectors to WLMRT, then on depicted route to ELOEL, thence
TAKEOFF RUNWAY 34: Climb on assigned heading for radar vectors to WLMRT, then on depicted route to ELOEL, thence
 On (transition). Maintain 3000 or as assigned by ATC. Expect filed altitude 10 minutes after departure.

FORSS TRANSITION (ELOEL .FORSS):
KLNGR TRANSITION (ELOEL .KLNGR):

MUCKY ONE DEPARTURE (RNAV)

AUSTIN DEP CON
119.0 370.85

TAKEOFF MINIMUMS:

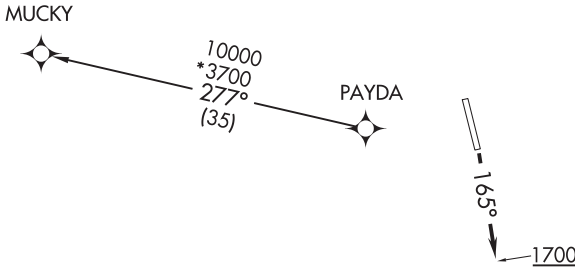
Rwy 16: 500-2¾ or Standard with a minimum climb of 265' per NM to 1500.

Rwy 34: Standard

NOTE: RADAR required.

NOTE: DME/DME/IRU or GPS required.

NOTE: RNAV-1



TAKEOFF OBSTACLE NOTES:

- Rwy 16: Trees on rising terrain beginning 26' from DER, 161' right of centerline, up to 50' AGL/975' MSL.
 Building 38' from DER, 229' right of centerline, 50' AGL/989' MSL.
 Tree 194' from DER, 221' left of centerline, 50' AGL/943' MSL.
 Building and trees beginning 534' from DER, 165' left of centerline, 40' AGL/941' MSL.
 Powerlines with catenary markers beginning 776' from DER, crossing centerline, up to 80' AGL/999' MSL.
 Tower 2.1 NM from DER, 1314' right of centerline, 195' AGL/1326' MSL.
- Rwy 34: Trees beginning abeam DER, right of centerline, up to 50' AGL/931' MSL.
 Trees and buildings beginning abeam DER, 161' left of centerline, up to 50' AGL/965' MSL.
 Trees and buildings on rising terrain beginning 3405' from DER, crossing centerline, up to 50' AGL/1009' MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 16: Climb heading 165° to 1700, then as assigned by ATC for radar vectors to PAYDA, then on depicted route to MUCKY, thence. . .

TAKEOFF RWY 34: Climb on assigned heading for radar vectors to PAYDA, then on depicted route to MUCKY, thence

. . . . Maintain 3000 or as assigned by ATC. Expect filed altitude 10 minutes after departure.

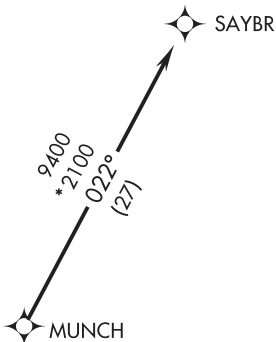
AUSTIN DEP CON
119.0 370.85

TAKEOFF MINIMUMS:

Rwy 16: 500-2¾ or Standard with a minimum climb
of 265' per NM to 1500.

Rwy 34: Standard

- NOTE: RADAR required.
- NOTE: DME/DME/IRU or GPS required.
- NOTE: RNAV-1
- NOTE: For DFW Terminal Area Arrivals
at FL230 or below only.



TAKEOFF OBSTACLE NOTES:

- Rwy 16: Trees on rising terrain beginning 26' from DER, 161' right of centerline, up to 50' AGL/975' MSL.
Building 38' from DER, 229' right of centerline, 50' AGL/989' MSL.
Tree 194' from DER, 221' left of centerline, 50' AGL/943' MSL.
Building and trees beginning 534' from DER, 165' left of centerline, 40' AGL/941' MSL.
Powerlines with catenary markers beginning 776' from DER, crossing centerline, up to 80' AGL/999' MSL.
Tower 2.1 NM from DER, 1314' right of centerline, 195' AGL/1326' MSL.
- Rwy 34: Trees beginning abeam DER, right of centerline, up to 50' AGL/931' MSL.
Trees and buildings beginning abeam DER, 161' left of centerline, up to 50' AGL/965' MSL.
Trees and buildings on rising terrain beginning 3405' from DER, crossing centerline, up to 50' AGL/1009' MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 16: Climb heading 165° to 1700, then as assigned by ATC for radar vectors to MUNCH, then on depicted route to SAYBR, thence . . .

TAKEOFF RWY 34: Climb on assigned heading for radar vectors to MUNCH, then on depicted route to SAYBR, thence . . .

. . . Maintain 3000 or as assigned by ATC. Expect filed altitude 10 minutes after departure.

LAMPASAS, TEXAS

AL-6267 (FAA)

12040

APP CRS 343°	Rwy Idg 4202
	TDZE 1198
	Apt Elev 1215

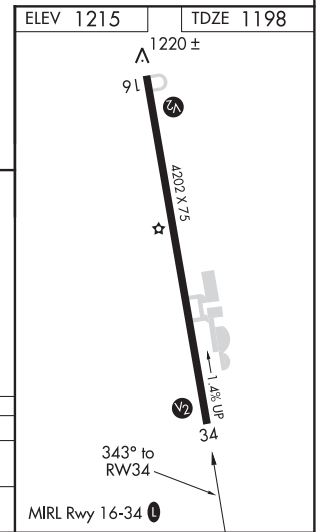
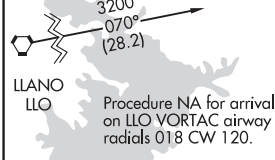
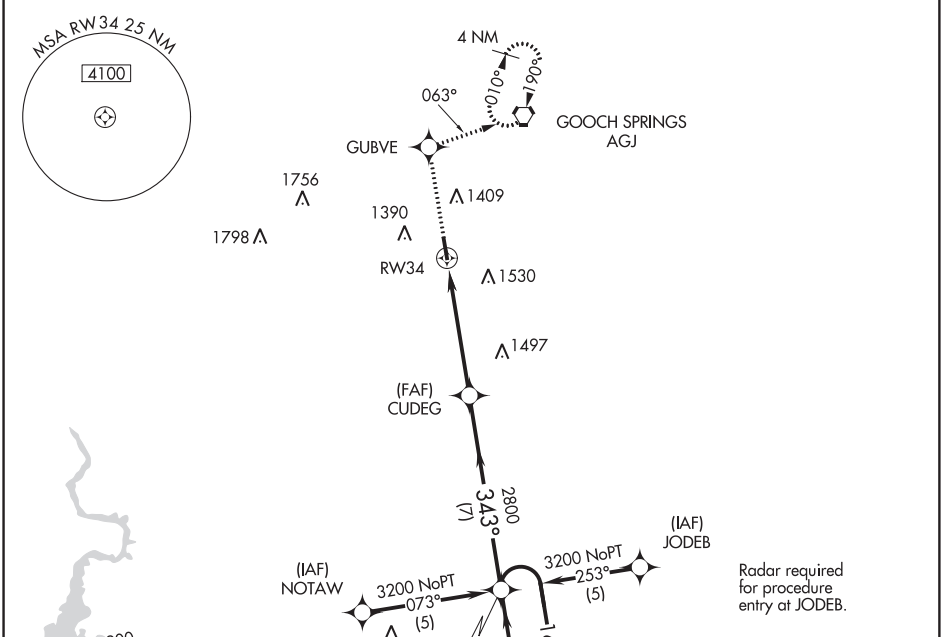
RNAV (GPS) RWY 34

LAMPASAS (LZZ)

⚠ DME/DME RNP-0.3 NA. When local altimeter setting not received, use Robert Gray AAF altimeter setting and increase all MDA 80 feet and LNAV
⚠ Cat C visibility ¼ mile. VDP NA when using Robert Gray AAF altimeter setting.

MISSED APPROACH: Climb to 3000 direct GUBVE and via track 063° to AGJ VORTAC and hold.

AWOS-3 119.075	GRAY APP CON 120.075 323.15	UNICOM 122.8 (CTAF) 📻
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3000	GUBVE	tr 063°	AGJ	HUGOD	4 NM Holding Pattern
				CUDEG	163° → 3200
				RW34	← 343°
					1.3 NM to RW34
					3.04° TCH 40
					1.3 NM 3.7 NM 7 NM
CATEGORY	A	B	C	D	
LNAV MDA	1620-1	422 (500-1)	1620-1¼ 422 (500-1¼)	NA	
CIRCLING	1680-1 465 (500-1)	1720-1 505 (600-1)	1720-1½ 505 (600-1½)	NA	

LAMPASAS, TEXAS
Orig 17DEC09

31°06' N-98°12' W

RNAV (GPS) RWY 34

LAMPASAS (LZZ)

SC-3, 10 NOV 2016 to 05 JAN 2017

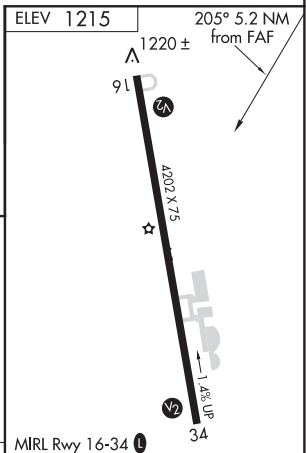
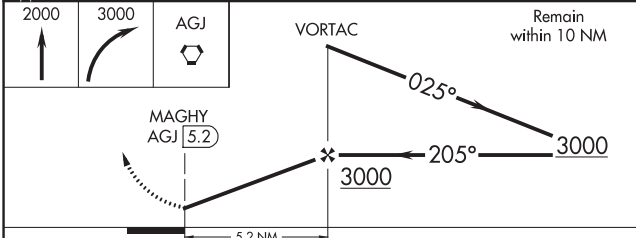
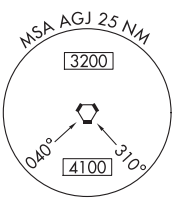
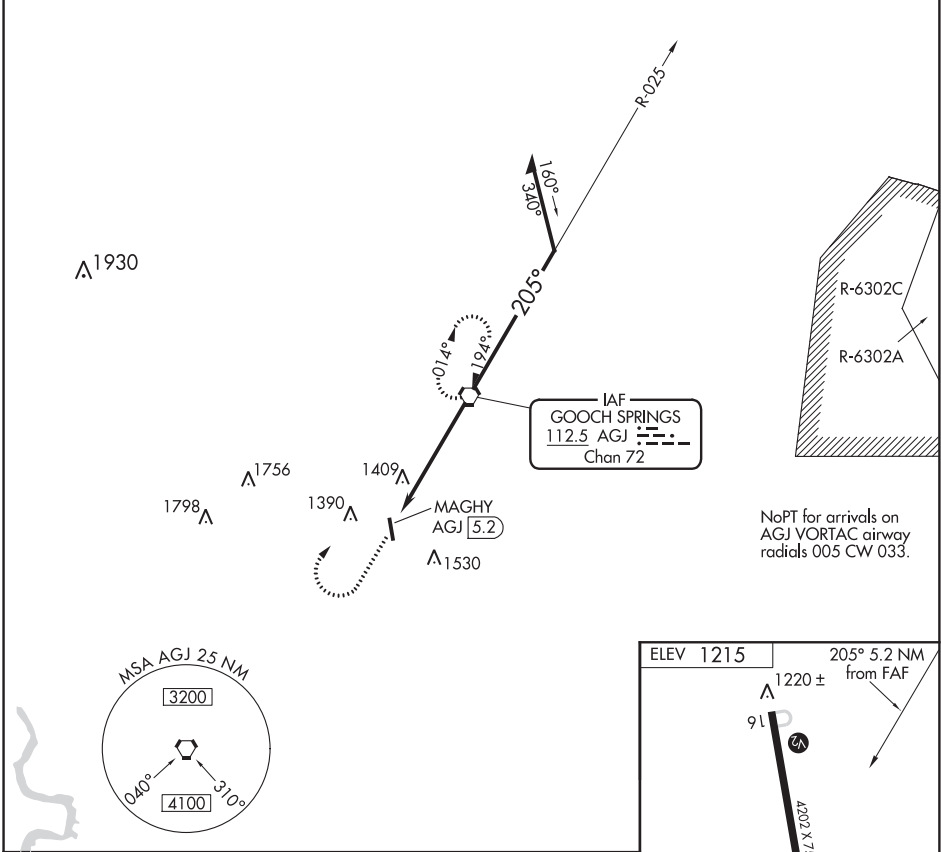
SC-3, 10 NOV 2016 to 05 JAN 2017

VORTAC AGJ 112.5 Chan 72	APP CRS 205°	Rwy Idg TDZE Apt Elev N/A N/A 1215
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VOR-A
LAMPASAS (LZZ)

⚠ When local altimeter setting not received, use Robert Gray AAF altimeter setting and increase all MDA 80 feet. **MISSED APPROACH:** Climb to 2000 then climbing right turn to 3000 direct AGJ VORTAC and hold.

AWOS-3 119.075	GRAY APP CON 120.075 323.15	UNICOM 122.8 (CTAF) ①
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CATEGORY	A	B	C	D	FAF to MAP 5.2 NM					
CIRCLING	1680-1 465 (500-1)	1720-1 505 (600-1)	1720-1½ 505 (600-1½)	NA	Knots	60	90	120	150	180
					Min:Sec	5:12	3:28	2:36	2:05	1:44

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

LAREDO, TEXAS

AL-226 (FAA)

16035

LOC/DME I-LRD	APP CRS	Rwy Idg	17R	17L
111.9	175°	TDZE	8743	8236
Chan 56		Apt Elev	504	499
			508	508

ILS or LOC/DME RWY 17R

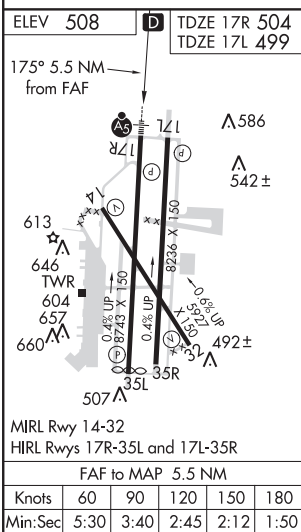
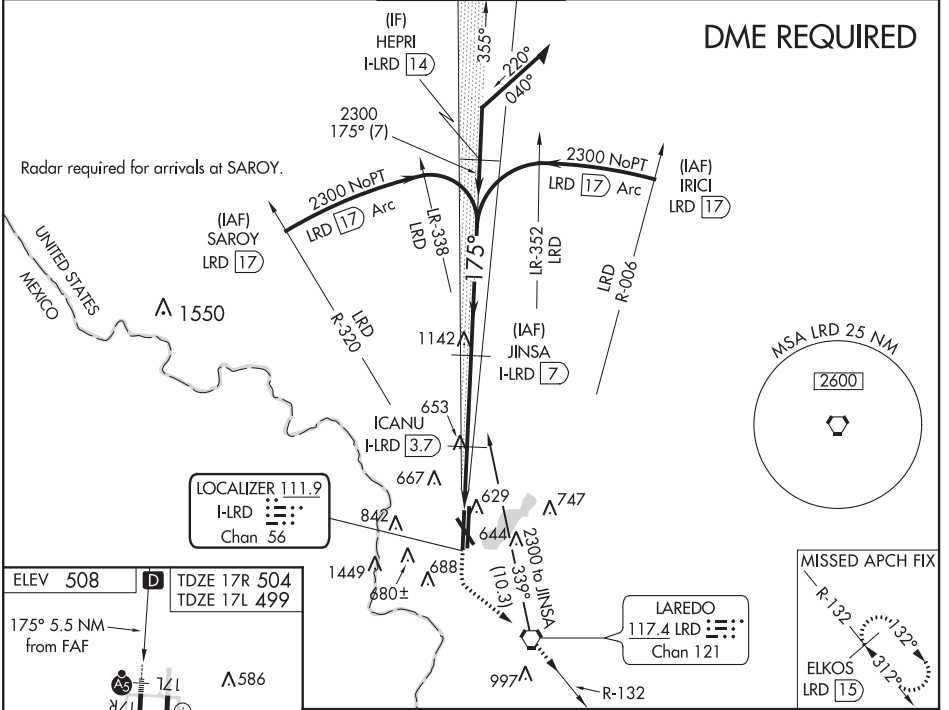
LAREDO INTL (L.R.D)

▼ Circling NA west of Rwy 14 and 35L. When local altimeter setting not received, use Hebbronville altimeter setting and increase all DA 115 feet and all MDA 120 feet, increase S-LOC 17R Cats C/D/E visibility ¼ mile, increase Circling Cat B visibility ¼ mile, Cat C visibility ⅝ mile, Cats D/E visibility ½ mile, increase sidestep 17L Cat C visibility ¼ mile and Cats D/E visibility ½ mile. For inoperative MALSR, increase S-ILS 17R Cat E visibility to ¾ and increase S-LOC 17R Cats C/D/E visibility to 1⅝. For inoperative MALSR when using Hebbronville altimeter setting, increase S-ILS 17R all Cats visibility to 1.

MISSED APPROACH:
Climb to 1100 then climbing left turn to 2500 direct LRD VORTAC and LRD VORTAC R-132 to ELKOS/LRD 15 DME and hold.



ATIS 125.775	HOUSTON CENTER 127.8 307.2	LAREDO TOWER ★ 120.1(CTAF) 257.9	GND CON 121.8	UNICOM 122.95
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1100	2500	LRD ELKOS LRD 15	*LOC only	JINSA I-LRD 7	Remain within 15 NM
↑	↙	R-132			GS 3.00° TCH 56
Use I-LRD DME when on the localizer course.		*I-LRD 2.7	ICANU I-LRD 3.7	2300	355°
		I-LRD 1.5		2300	175°
				1260*	2300
VGSIs and ILS glidepath not coincident (VGSi Angle 3.00/TCH 50).					
		1.1 NM	1 NM	3.3 NM	

CATEGORY	A	B	C	D	E
S-ILS 17R		704-½	200 (200-½)		
S-LOC 17R	920-½	416 (500-½)	920-¾	416 (500-¾)	
SIDESTEP RWY 17L	1140-1	641 (700-1)	1140-1⅞ 641 (700-1⅞)	1140-2	641 (700-2)
CIRCLING	1140-1	632 (700-1)	1140-1⅞ 632 (700-1⅞)	1140-2 632 (700-2)	1240-2½ 732 (800-2½)

LAREDO, TEXAS
Amdt 11A 02APR15

27°33'N-99°28'W

ILS or LOC/DME RWY 17R

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

LAREDO, TEXAS

AL-226 (FAA)

RNAV (GPS) RWY 17L

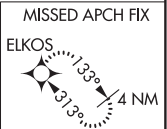
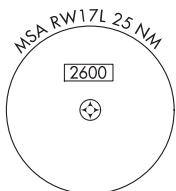
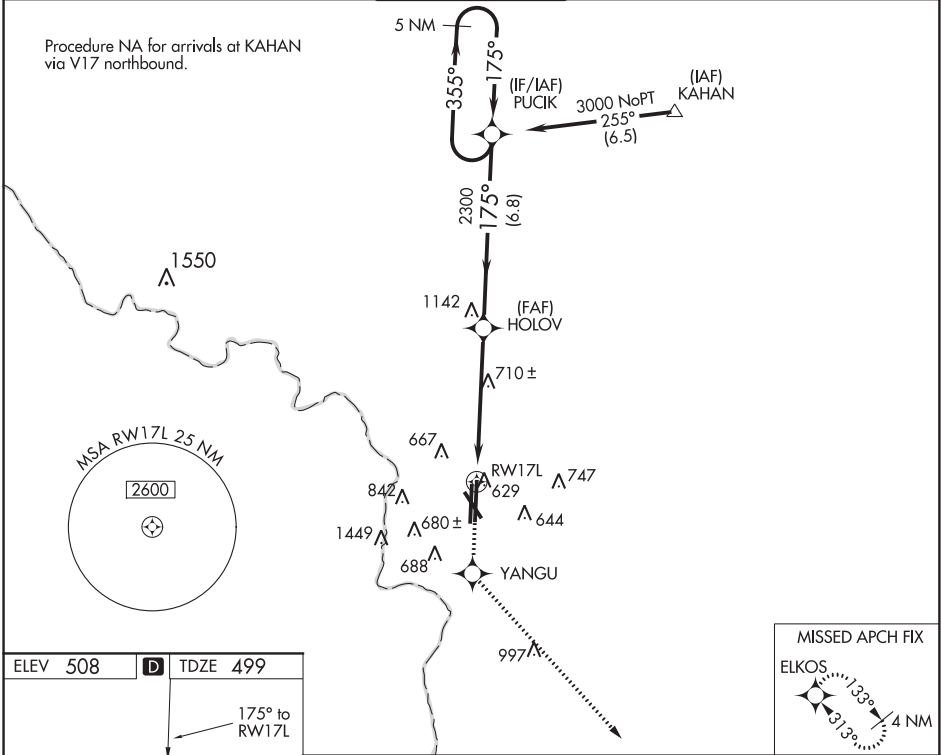
LAREDO INTL (L.R.D)

WAAS Ch 77899 W17B	APP CRS 175°	Rwy Idg 8236 TDZE 499 Apt Elev 508
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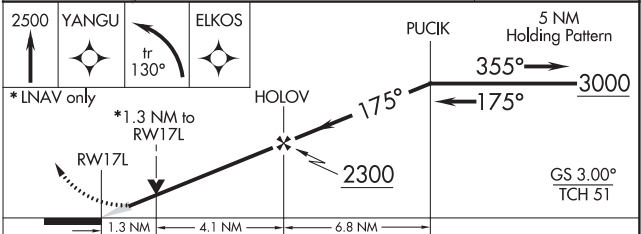
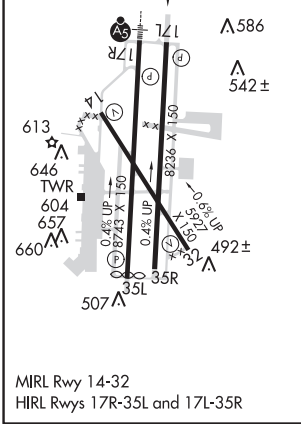
MISSED APPROACH: Climb to 2500 direct YANGU and via 130° track to ELKOS and hold.

ATIS 125.775	HOUSTON CENTER 127.8 307.2	LAREDO TOWER * 120.1(CTAF) 0 257.9	GND CON 121.8	UNICOM 122.95
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Procedure NA for arrivals at KAHAN via V17 northbound.



ELEV 508	D	TDZE 499
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CATEGORY	A	B	C	D	E
LPV DA	749-3/4 250 (300-3/4)				
LNAV/VNAV DA	954-1 1/2 455 (500-1 1/2)				
LNAV MDA	960-1	461 (500-1)	960-1 1/4 461 (500-1 1/4)	960-1 1/2 461 (500-1 1/2)	960-1 3/4 461 (500-1 3/4)
CIRCLING	960-1 1/2 452 (500-1 1/2)	980-1 1/2	472 (500-1 1/2)	1060-2 552 (600-2)	1240-2 1/2 732 (800-2 1/2)

LAREDO, TEXAS
Orig-A 14037

27°33'N-99°28'W

RNAV (GPS) RWY 17L

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

WAAS Ch 82599 W17A	APP CRS 175°	Rwy Idg 8743 TDZE 504 Apt Elev 508
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RNAV (GPS) RWY 17R

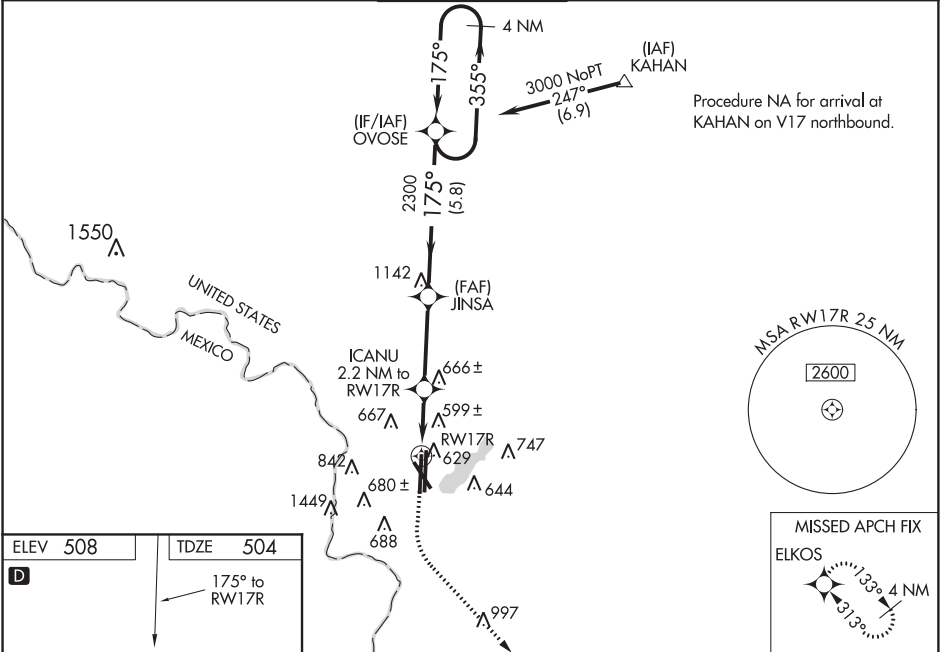
LAREDO INTL (L.R.D)

⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -1.6°C (4°F) or above 40°C (104°F). Circling NA West of Rwy 14 and 35L. DME/DME RNP-0.3 NA. When local altimeter setting not received, use Hebronville altimeter setting and increase all DA 115 feet and all MDA 120 feet, increase visibility LNAV/VNAV all Cats 3/8 mile, LNAV Cats C/D/E 1/2 mile, Circling Cats C/D 1/4 mile and Cat E 1/2 mile. For inoperative MALSR, increase LPV Cat E visibility to 3/4, increase LNAV/VNAV all Cats to 1/4, increase LNAV Cats C/D/E to 1/8. For inoperative MALSR when using Hebronville altimeter setting, increase LPV all Cats visibility to 1, increase LNAV/VNAV all Cats to 1/4, increase LNAV Cat E to 1/4. Baro-VNAV and VDP NA when using Hebronville altimeter setting.



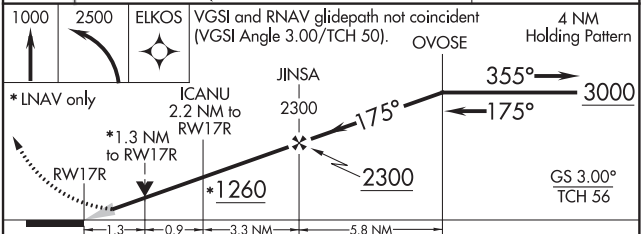
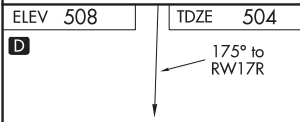
MISSED APPROACH:
Climb to 1000 then climbing left turn to 2500 direct ELKOS and hold.

ATIS 125.775	HOUSTON CENTER 127.8 307.2	LAREDO TOWER ★ 120.1(CTAF) 257.9	GND CON 121.8	UNICOM 122.95
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SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017



CATEGORY	A	B	C	D	E
LPV DA	704-1/2 200 (200-1/2)				
LNAV/VNAV DA	896-7/8 392 (400-7/8)				
LNAV MDA	980-1/2 476 (500-1/2)		980-1 476 (500-1)		
CIRCLING	980-1 472 (500-1)		980-1 1/2 472 (500-1 1/2)	1060-2 552 (600-2)	1240-2 1/2 732 (800-2 1/2)

LAREDO, TEXAS

AL-226 (FAA)

15092

WAAS CH 86633 W32A	APP CRS 319°	Rwy Idg TDZE 494 Apt Elev 508	5927
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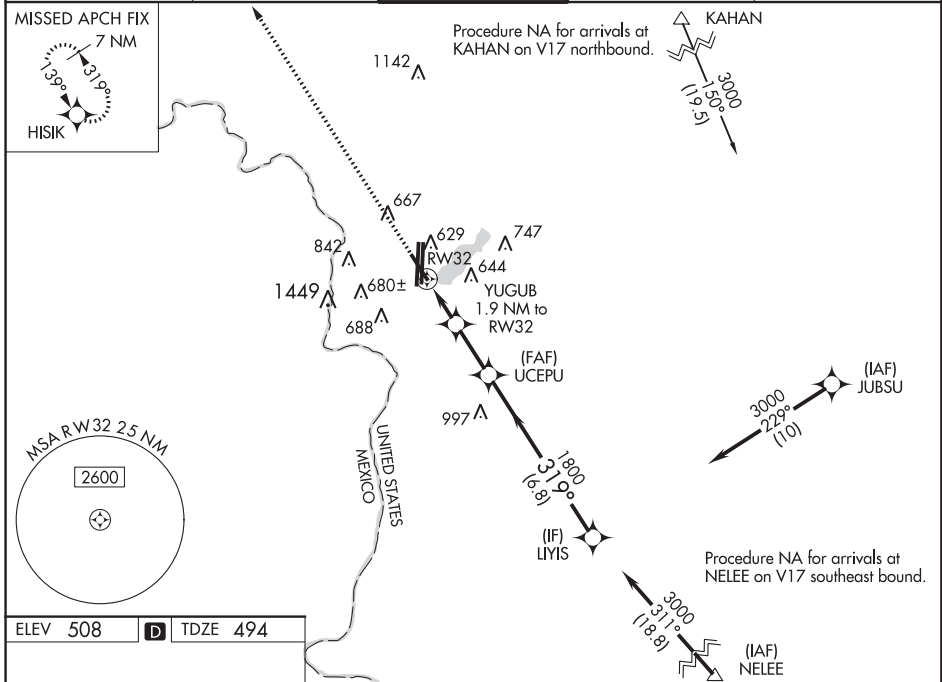
RNAV (GPS) RWY 32

LAREDO INTL (L.R.D)

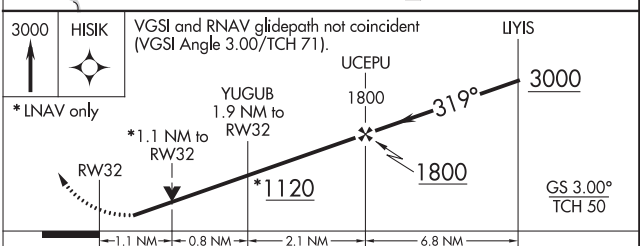
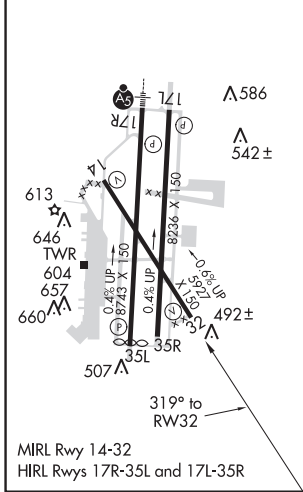
⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 54°C (130°F).
⚠ Circling NA west of Rwy 14 and 35L. DME/DME RNP-0.3 NA. VDP and Baro-VNAV NA with Hebronville altimeter setting. Helicopter visibility reduction below 3/4 SM NA. When local altimeter setting not received, use Hebronville altimeter setting and increase all DA 115 feet and all MDA 120 feet, increase visibility LPV all Cats 1/2 mile, LNAV/VNAV all Cats 3/5 mile, LNAV Cats C/D/E 3/5 mile, Circling Cats C/D/E 1/2 mile.

MISSED APPROACH: Climb to 3000 direct HISIK and hold.

ATIS 125.775	HOUSTON CENTER 127.8 307.2	LAREDO TOWER * 120.1(CTAF) 257.9	GND CON 121.8	UNICOM 122.95
------------------------	--------------------------------------	--	-------------------------	-------------------------



ELEV 508	D	TDZE 494
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CATEGORY	A	B	C	D	E
LPV DA		744-3/4	250 (300-3/4)		
LNAV/VNAV DA		788-1	294 (300-1)		
LNAV MDA	880-1	386 (400-1)	880-1 1/8	386 (400-1 1/8)	
C CIRCLING	960-1 452 (500-1)	980-1 472 (500-1)	1100-1 1/2 592 (600-1 1/2)	1200-2 1/4 692 (700-2 1/4)	1240-2 1/2 732 (800-2 1/2)

LAREDO, TEXAS
Amdt 1A 02APR15

27°33'N-99°28'W

LAREDO INTL (L.R.D)

RNAV (GPS) RWY 32

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

LAREDO, TEXAS

AL-226 (FAA)

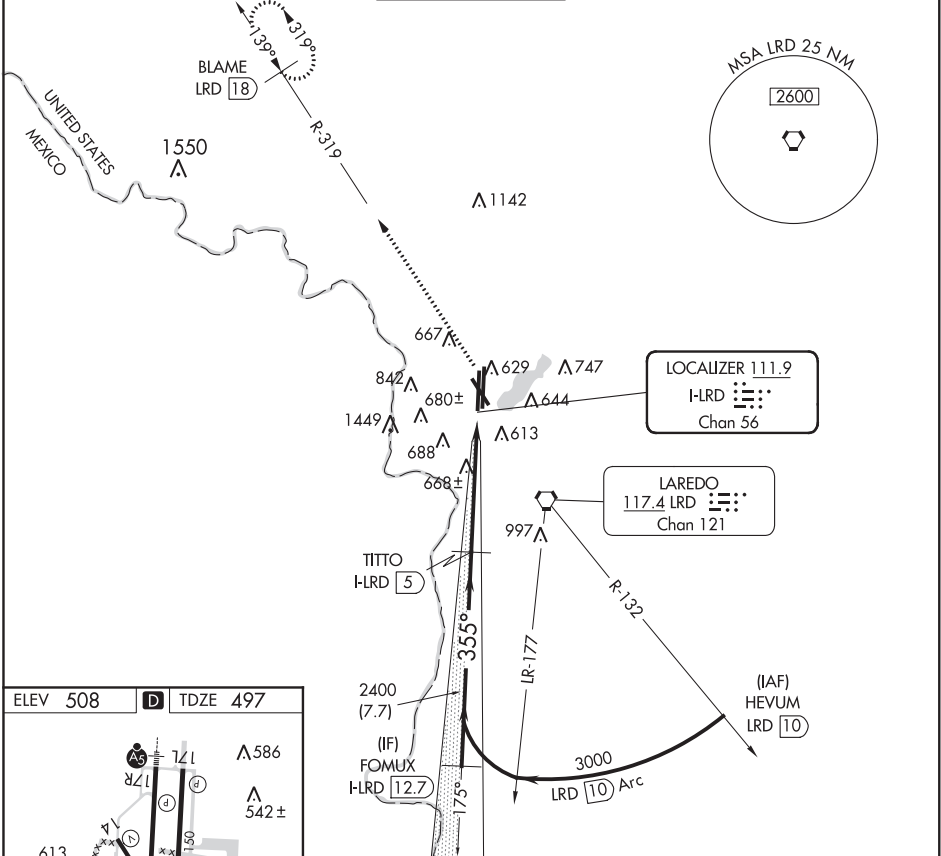
LOC/DME I-LRD 111.9 Chan 56	APP CRS 355°	Rwy Idg TDZE Apt Elev	8623 497 508
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LOC/DME BC RWY 35L

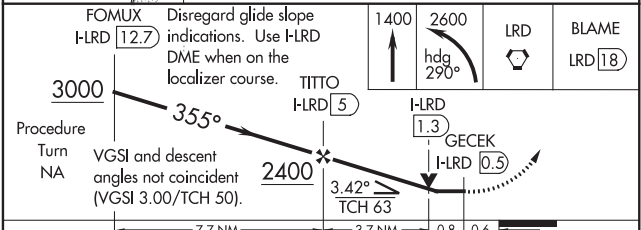
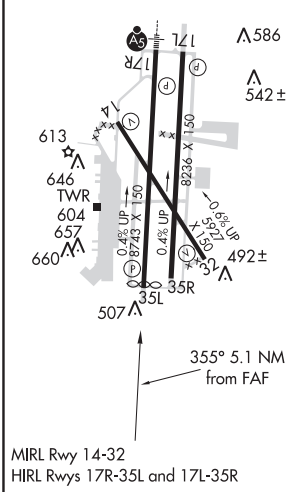
LAREDO INTL (L.R.D)

⚠ Circling NA west of Rwy 14 and 35L. MISSED APPROACH: Climb to 1400, then climbing left turn to 2600 via heading 290° and LRD VORTAC R-319 to BLAME/LRD 18 DME and hold.

ATIS 125.775	HOUSTON CENTER 127.8 307.2	LAREDO TOWER * 120.1(CTAF) 257.9	GND CON 121.8	UNICOM 122.95
------------------------	--------------------------------------	--	-------------------------	-------------------------



ELEV 508	D	TDZE 497
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CATEGORY	A	B	C	D	E
S-35L	980-1	483 (500-1)	980-1¼ 483 (500-1¼)	980-1½ 483 (500-1½)	980-1¾ 483 (500-1¾)
CIRCLING	980-1	472 (500-1)	980-1½ 472 (500-1½)	1060-2 552 (600-2)	1240-2½ 732 (800-2½)

LAREDO, TEXAS
Amdt 2 14037

27°33'N-99°28'W

LAREDO INTL (L.R.D)

LOC/DME BC RWY 35L

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

LAREDO, TEXAS

AL-226 (FAA)

16259

VORTAC LRD 117.4 Chan 121	APP CRS 320°	Rwy Idg 5927 TDZE 494 Apt Elev 508
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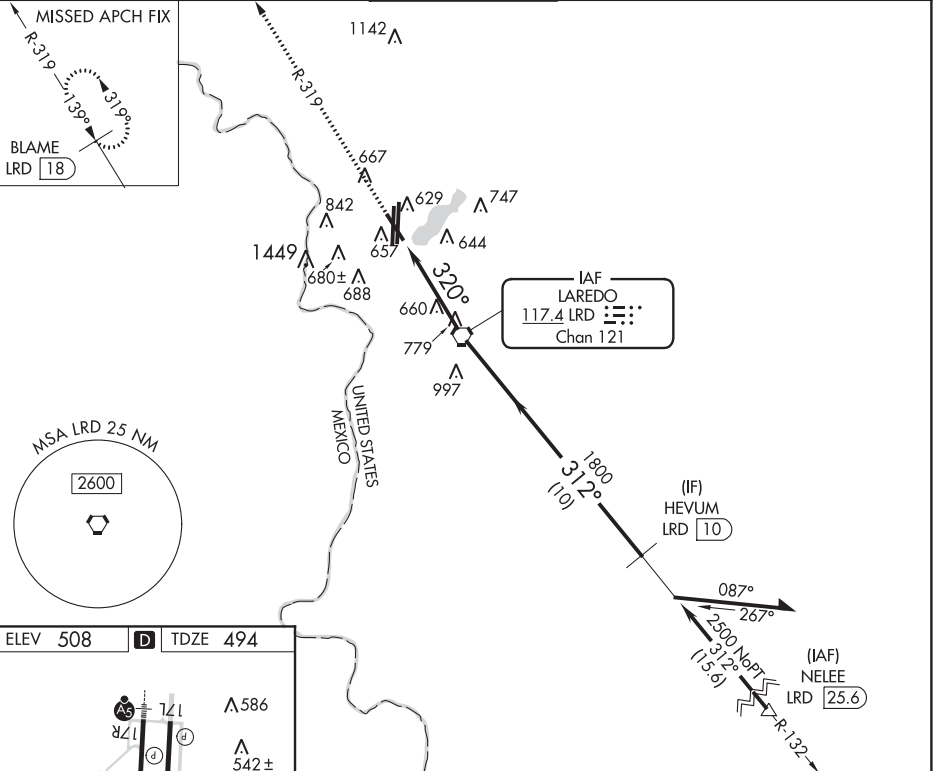
VOR or TACAN RWY 32

LAREDO INTL (L.R.D)

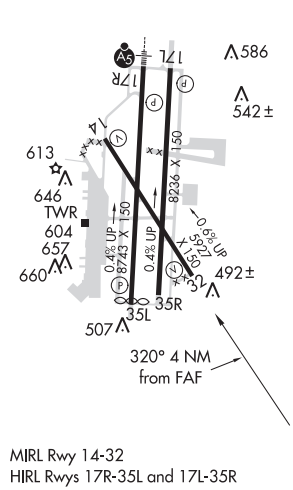
▼ Helicopter visibility reduction below 3/4 SM NA. DME required.
▲ When local altimeter setting not received, use Hebronville altimeter setting and increase all MDA 120 feet, increase S-32 and Circling Cats C/D/E visibility 1/2 mile. Circling NA west of Rwy 14 and 35L.

MISSED APPROACH: Climb to 2600 on LRD VORTAC R-319 to BLAME/LRD 18 DME and hold.

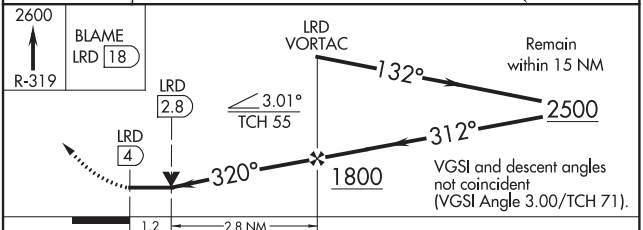
ATIS 125.775	HOUSTON CENTER 127.8 307.2	LAREDO TOWER * 120.1(CTAF) 257.9	GND CON 121.8	UNICOM 122.95
------------------------	--------------------------------------	--	-------------------------	-------------------------



ELEV 508	D	TDZE 494
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LAREDO, TEXAS
Amdt 11 15SEP16



CATEGORY	A	B	C	D	E
S-32	920-1	426 (500-1)	920-1¼ 426 (500-1¼)		
C CIRCLING	960-1 452 (500-1)	980-1 472 (500-1)	1100-1½ 592 (600-1½)	1200-2¼ 692 (700-2¼)	1240-2½ 732 (800-2½)

27°33'N-99°28'W

LAREDO INTL (L.R.D) VOR or TACAN RWY 32

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

AIRPORT DIAGRAM

AL-226 (FAA)

LAREDO INTL (L.R.D)
LAREDO, TEXAS

ATIS
125.775
LAREDO TOWER ★
120.1 257.9
GND CON
121.8



BLAST PAD
200 X 150

ELEV
504

998 X
150

ELEV
499

JANUARY 2015
ANNUAL RATE
OF CHANGE
0.1° W



FIELD
ELEV
508

ELEV
505

27°33'N

CARGO
HANGARS

GENERAL
AVIATION
HANGARS

FBO

BORDER
PATROL

FIRE
STATION

TWR
604

TERMINAL

HANGARS

HANGARS

FBO

FREIGHT
WAREHOUSES

AIR CARGO

U.S.
CUSTOMS/
TERMINAL

- RWY 14-32
S-50, D-60, 2D-125
- RWY 17L-35R
S-90, D-190, 2S-175, 2D-360
- RWY 17R-35L
S-90, D-190, 2S-140, 2D-415, 2D/2D2-820

ELEV
467

322.2°

35

ELEV
474

35R

ELEV
484

CAUTION: BE ALERT TO
RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY
HOLDING INSTRUCTIONS IS REQUIRED.

99°28'W

27°32'N

99°27'W

EMAS

AIRPORT DIAGRAM

LAREDO, TEXAS
LAREDO INTL (L.R.D)

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

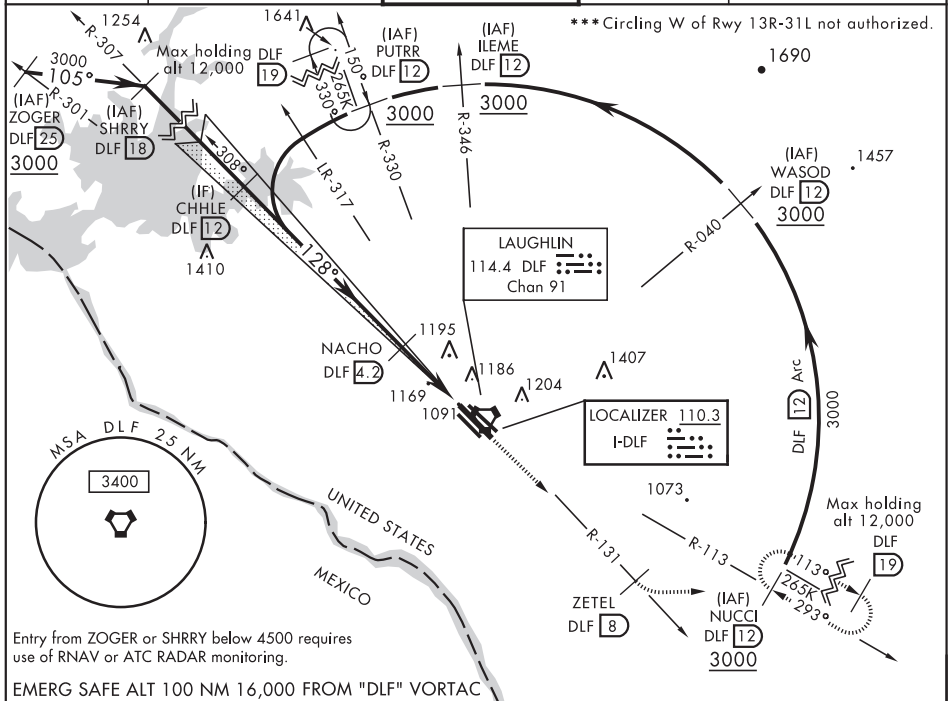
DEL RIO, TEXAS

ILS or LOC/DME RWY 13C

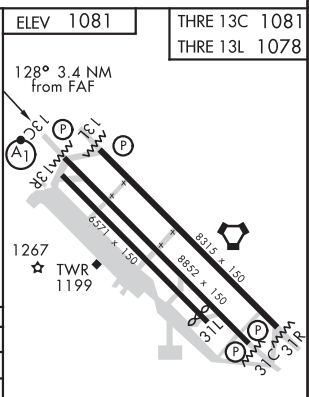
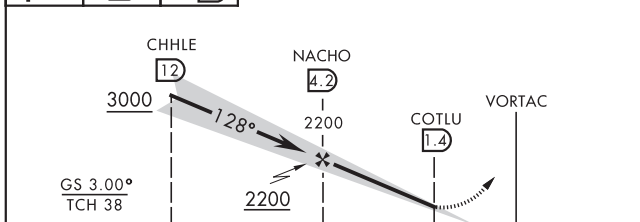
LOC I-DLF 110.3	APCH CRS 128°	Rwy ldg THRE 13C 8852 13L 8315 13C 1081 13L 1078 Arpt Elev 1081	AL-111 [USAF]	LAUGHLIN AFB (KDLF)
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A1
MISSED APPROACH: Climb to 3000 on DLF VORTAC R-131 to 8 DME (ZETEL), then turn left to intercept DLF R-113 to 12 DME (NUCCI) and hold.

ATIS ★ 114.4 269.9	DEL RIO APP CON 119.6 259.1	LAUGHLIN TOWER ★ 125.2 307.375	GND CON 275.8	CLNC DEL 120.5 335.8
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3000 DLF R-131	ZETEL DLF R-113 DLF [8]	NUCCI R-113 DLF [12]	ELEV 1081	THRE 13C 1081 THRE 13L 1078
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CATEGORY	A	B	C	D	E
S-ILS 13C*		1281/24	200	(200-½)	
S-LOC 13C**	1420/24	339 (400-½)	1420/26	339 (400-½)	
SIDESTEP 13L		1440-1	362	(400-1)	
CIRCLING ***	1500-1 419 (500-1)	1540-1 459 (500-1)	1700-1¾ 619(700-1¾)	1700-2 619 (700-2)	1720-2¼ 639 (700-2¼)

Rwy 31L ldg 6241'
 MRL Rwy 13R-31L
 HRL Rwy 13C-31C, 13L-31R

DEL RIO, TEXAS 29°22'N-100°47'W LAUGHLIN AFB (KDLF)

Amtd 4 07JAN16

ILS or LOC/DME RWY 13C

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

DEL RIO, TEXAS

RNAV (GPS) RWY 13C

APCH CRS 128°	Rwy ldg 13C 8852 THRE 13C 1081 Arpt Elev 1081	13L 8315 13L 1078	13R 6571 13R 1076
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AL-111 [USAF]

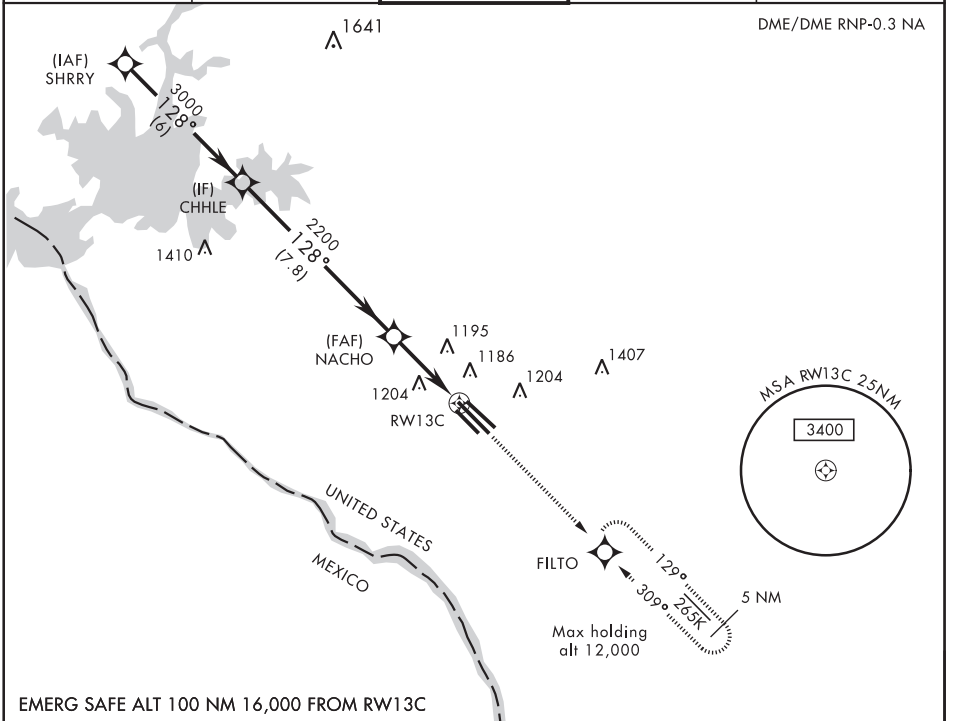
LAUGHLIN AFB (KDLF)

⚠ * When ALS inop, increase CAT AB RVR to 55 and vis to 1 mile, CAT CDE RVR to 50 and vis to 1½ miles.
** Circling SW of Rwy 13R-31L not authorized.



MISSED APPROACH: Climb to 3000 direct FILTO and hold.

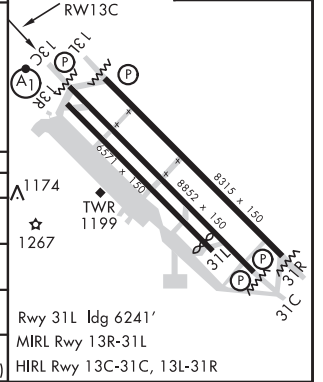
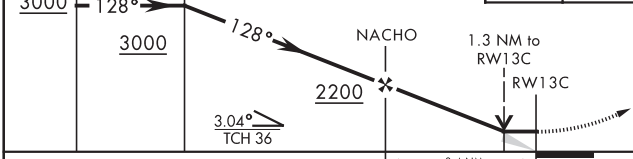
ATIS ★ 114.4 269.9	DEL RIO APP CON 119.6 259.1	LAUGHLIN TOWER ★ 125.2 307.375	GND CON 275.8	CLNC DEL 120.5 335.8
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SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

SHRRY	CHHLE	3000	FILTO	ELEV 1081	THRE 13C 1081
128°	128°	3000			THRE 13L 1078
					THRE 13R 1076



CATEGORY	A	B	C	D	E
LNAV MDA*	1520/24 439 (500-½)		1520/40	439	(500-¾)
SIDESTEP 13L	1520-1	442 (500-1)	1520-1¾	442	(500-1¾)
SIDESTEP 13R	1520-1	444 (500-1)	1520-1¾	444	(500-1¾)
CIRCLING**	1520-1 439 (500-1)	1540-1 459 (500-1)	1700-1¾ 619 (700-1¾)	1700-2 619 (700-2)	1720-2¼ 639 (700-2¼)

DEL RIO, TEXAS

29°22'N-100°47'W

LAUGHLIN AFB (KDLF)

Amdt 3 05MAR15

RNAV (GPS) RWY 13C

RNAV (GPS) RWY 31C

APCH CRS 309°	Rwy ldg 31C 8852 THRE 31C 1067 Arpt Elev 1081	31L 6241 31L 1077	31R 8315 31R 1063
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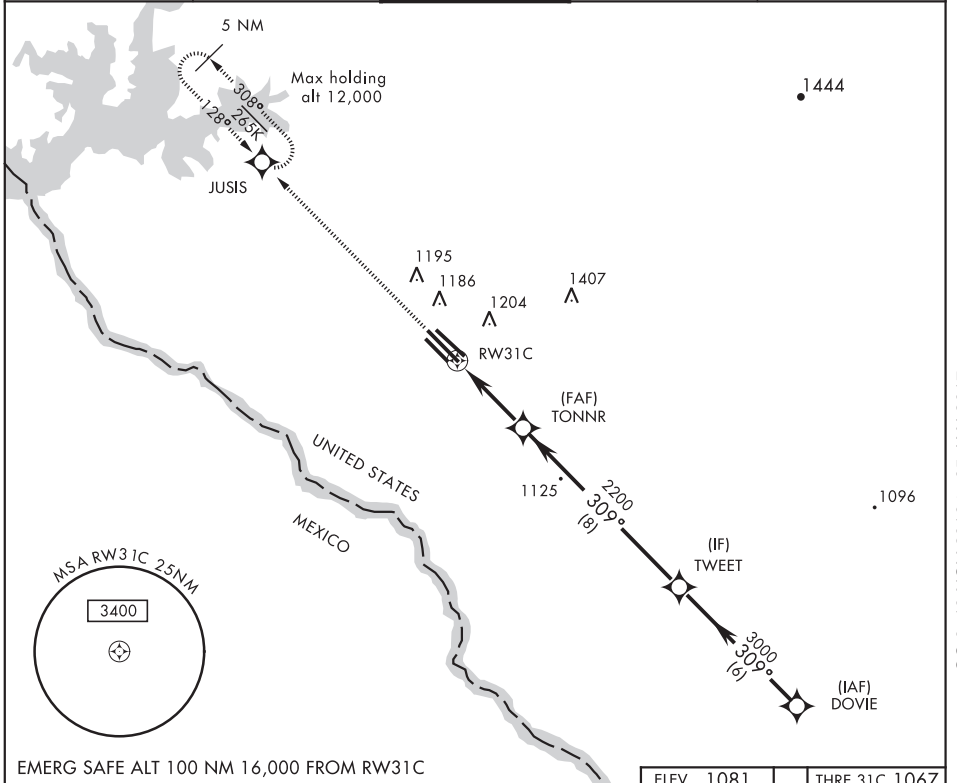
AL-111 (USAF)

LAUGHLIN AFB (KDLF)

▽ * Circling not authorized SW of Rwy 13R-31L
DME/DME RNP-0.3 NA

MISSED APPROACH: Climb to 3000 direct JUSIS and hold.

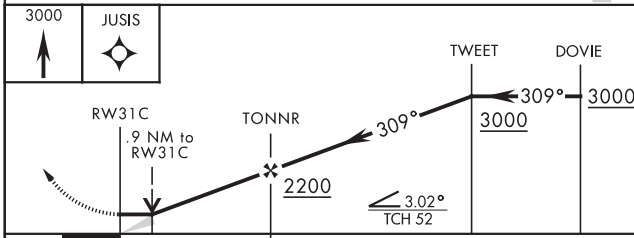
ATIS * 114.4 269.9	DEL RIO APP CON 119.6 259.1	LAUGHLIN TOWER * 125.2 307.375	GND CON 275.8	CLNC DEL 120.5 335.8
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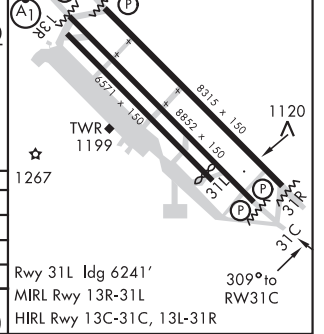
SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

EMERG SAFE ALT 100 NM 16,000 FROM RW31C



ELEV 1081	THRE 31C 1067
	THRE 31L 1077
	THRE 31R 1063



CATEGORY	A	B	C	D	E
LNNAV MDA		1420-1	353	(400-1)	
SIDESTEP 31L		1420-1	343	(400-1)	
SIDESTEP 31R		1420-1	357	(400-1)	
CIRCLING*	1500-1 419 (500-1)	1540-1 459 (500-1)	1700-1¾ 619 (700-1¾)	1700-2 619 (700-2)	1720-2¼ 639 (700-2¼)

RNAV (GPS) RWY 31C

DEL RIO, TEXAS

RNAV (GPS) B

APCH CRS 340°	Rwy Idg TDZE Arpt Elev N/A N/A 1081
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AL-111 [USAF]

LAUGHLIN AFB (KDLF)

▼ * Circling not authorized in sector NE of RWY 13R-31L.
DME/DME RNP-0.3 NA

† MISSED APPROACH: Climbing left turn to 4000 direct ZOBUS, cross SCIFI at 4000, expect radar vectors.

ATIS ★
114.4 269.9

DEL RIO APP CON
127.75 326.2

LAUGHLIN TOWER ★
125.2 307.375

GND CON
275.8

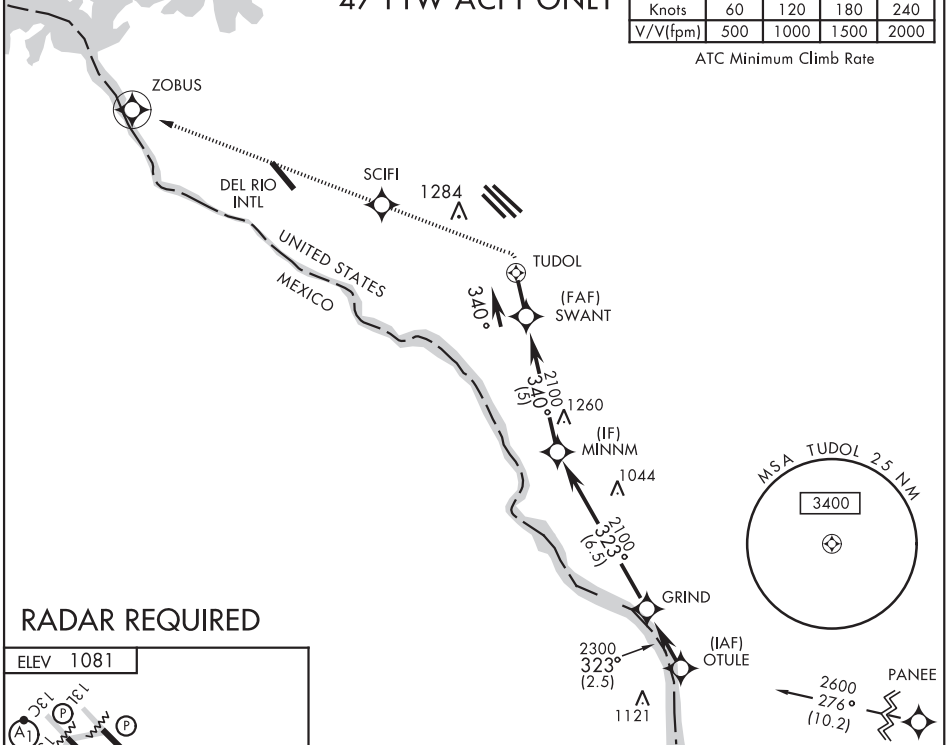
CLNC DEL
120.5 335.8

**FOR USE BY
47 FTW ACFT ONLY**

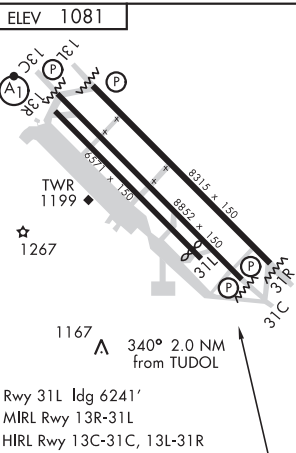
† CAUTION: Missed Approach
Minimum Climb Rate to SCIFI

Knots	60	120	180	240
V/V(fpm)	500	1000	1500	2000

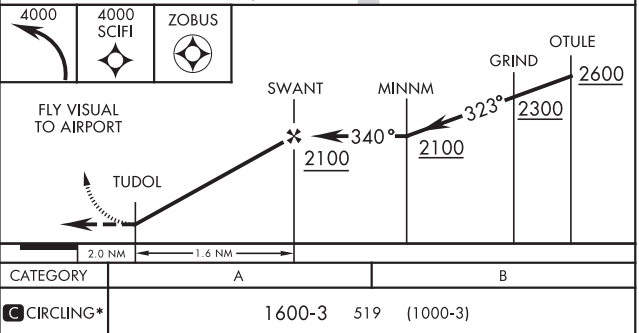
ATC Minimum Climb Rate



RADAR REQUIRED



EMERG SAFE ALT 100 NM 16,000 FROM TUDOL



DEL RIO, TEXAS
Amdt 4 08JAN15

29°22'N-100°47'W

LAUGHLIN AFB (KDLF)

RNAV (GPS) B

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

VOR/DME RWY 13C

VORTAC DLF 114.4 Chan 91	APCH CRS 118°	Rwy ldg THRE 1081 Arpt Elev 1081
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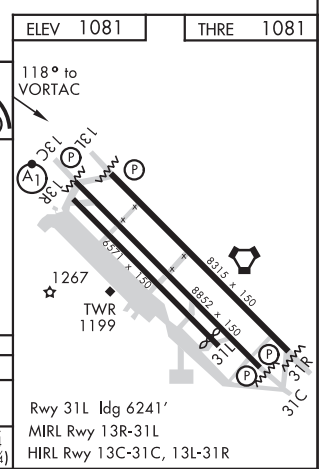
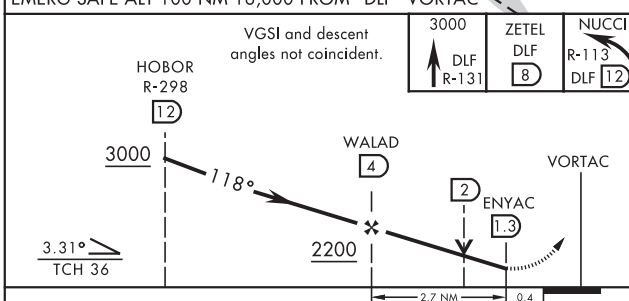
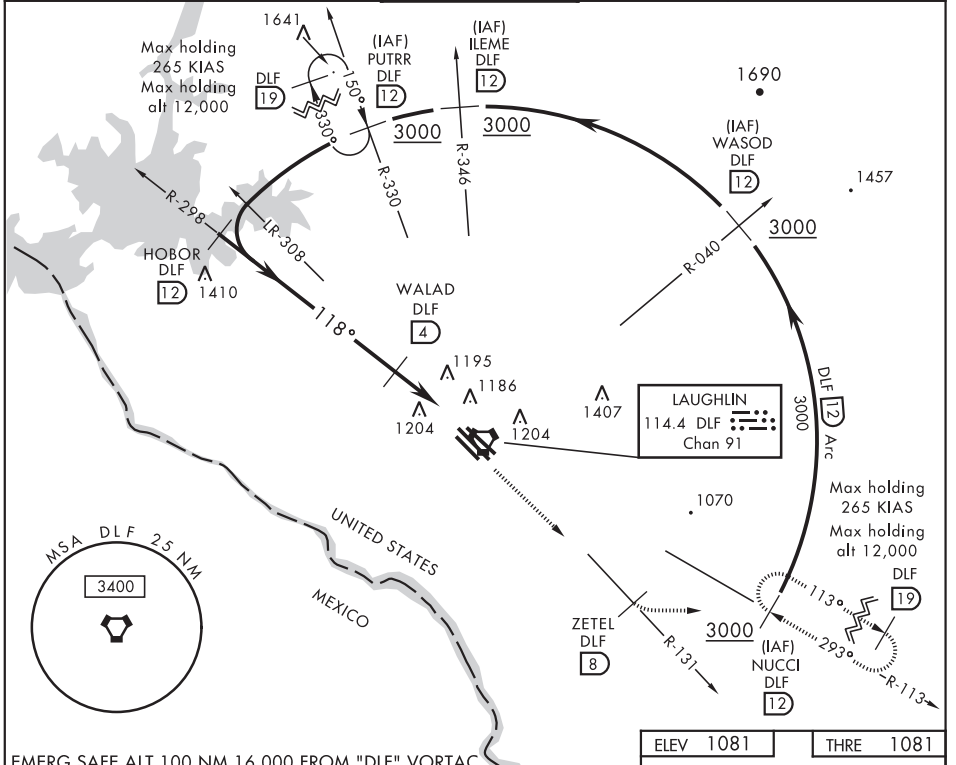
AL-111 [USAF]

LAUGHLIN AFB (KDLF)

⚠ When ALS inop, increase CAT AB RVR to 55 and vis to 1 mile, CAT CDE RVR to 60 and vis to 1 1/8 miles.
** Circling not authorized in sector SW of Rwy 13R-31L.

ALSF-1 MISSED APPROACH: Climb to 3000 on DLF VORTAC R-131 to 8 DME (ZETEL), then turn left to intcp DLF R-113 to 12 DME (NUCCI) and hold.

ATIS ★ 114.4 269.9	DEL RIO APP CON 119.6 259.1	LAUGHLIN TOWER ★ 125.2 307.375	GND CON 275.8	CLNC DEL 120.5 335.8
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CATEGORY	A	B	C	D	E
S-13C *	1480/24 399 (400-1/2)		1480/40	399	(400-3/4)
CIRCLING **	1520-1 439 (500-1)	1540-1 459 (500-1)	1700-1 3/4 619 (700-1 3/4)	1700-2 619 (700-2)	1720-2 1/4 639 (700-2 1/4)

VOR/DME RWY 13C

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

DEL RIO, TEXAS

VOR/DME RWY 31C

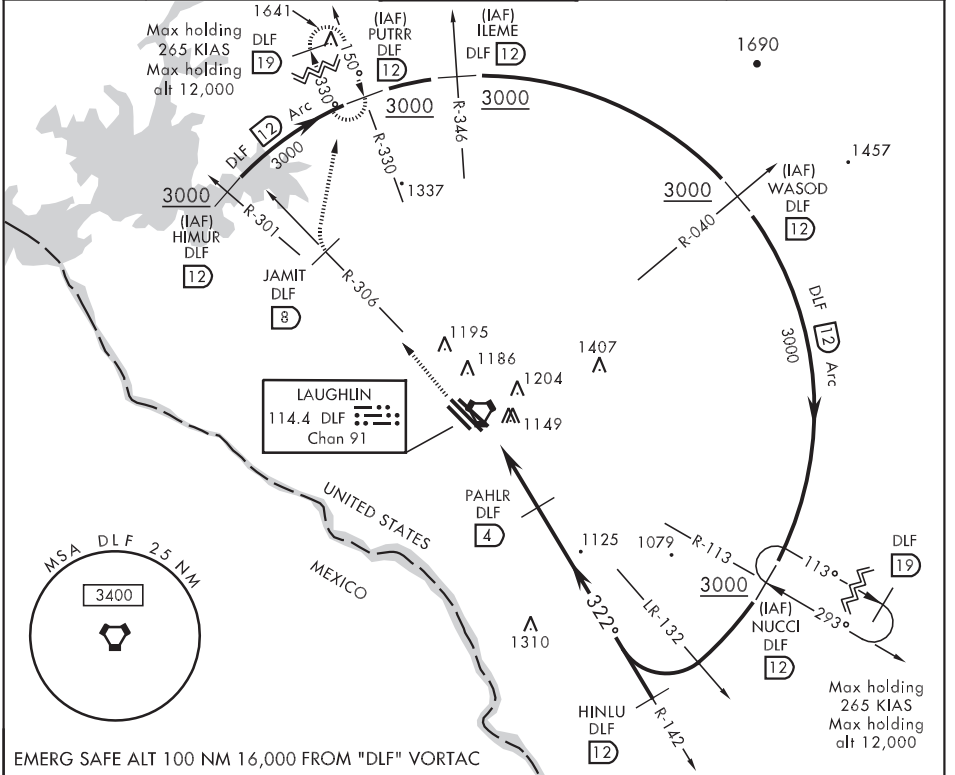
VORTAC DLF 114.4 Chan 91	APCH CRS 322°	Rwy ldg THRE 1067 Arpt Elev 1081
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AL-111 [USAF]

LAUGHLIN AFB (KDLF)

⚠ *Circling not authorized in sector SW of Rwy 13R-31L.
 MISSED APPROACH: Climb to 3000 on DLF VORTAC R-306 to 8 DME (JAMIT), then turn right to intercept DLF R-330 to 12 DME (PUTRR), and hold.

ATIS ★ 114.4 269.9	DEL RIO APP CON 119.6 259.1	LAUGHLIN TOWER ★ 125.2 307.375	GND CON 275.8	CLNC DEL 120.5 335.8
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EMERG SAFE ALT 100 NM 16,000 FROM "DLF" VORTAC

ELEV 1081	THRE 1067	3000 DLF R-306	JAMIT R-306 DLF 8	PUTRR R-330 DLF 12	HINLU R-142																		
Rwy 31L ldg 6241' MIRL Rwy 13R-31L HIRL Rwy 13C-31C, 13L-31R	<table border="1"> <thead> <tr> <th>CATEGORY</th> <th>A</th> <th>B</th> <th>C</th> <th>D</th> <th>E</th> </tr> </thead> <tbody> <tr> <td>S-31C</td> <td colspan="2">1420-1</td> <td>353</td> <td colspan="2">(400-1)</td> </tr> <tr> <td>CIRCLING*</td> <td>1500-1 419 (500-1)</td> <td>1540-1 459 (500-1)</td> <td>1700-1½ 619 (700-1½)</td> <td>1700-2 619 (700-2)</td> <td>1720-2¼ 639 (700-2¼)</td> </tr> </tbody> </table>					CATEGORY	A	B	C	D	E	S-31C	1420-1		353	(400-1)		CIRCLING*	1500-1 419 (500-1)	1540-1 459 (500-1)	1700-1½ 619 (700-1½)	1700-2 619 (700-2)	1720-2¼ 639 (700-2¼)
CATEGORY	A	B	C	D	E																		
S-31C	1420-1		353	(400-1)																			
CIRCLING*	1500-1 419 (500-1)	1540-1 459 (500-1)	1700-1½ 619 (700-1½)	1700-2 619 (700-2)	1720-2¼ 639 (700-2¼)																		

DEL RIO, TEXAS
Amdt 2 25JUL13

29°22'N-100°47'W

LAUGHLIN AFB (KDLF)

VOR/DME RWY 31C

SC-3, 10 NOV 2016 to 05 JAN 2017

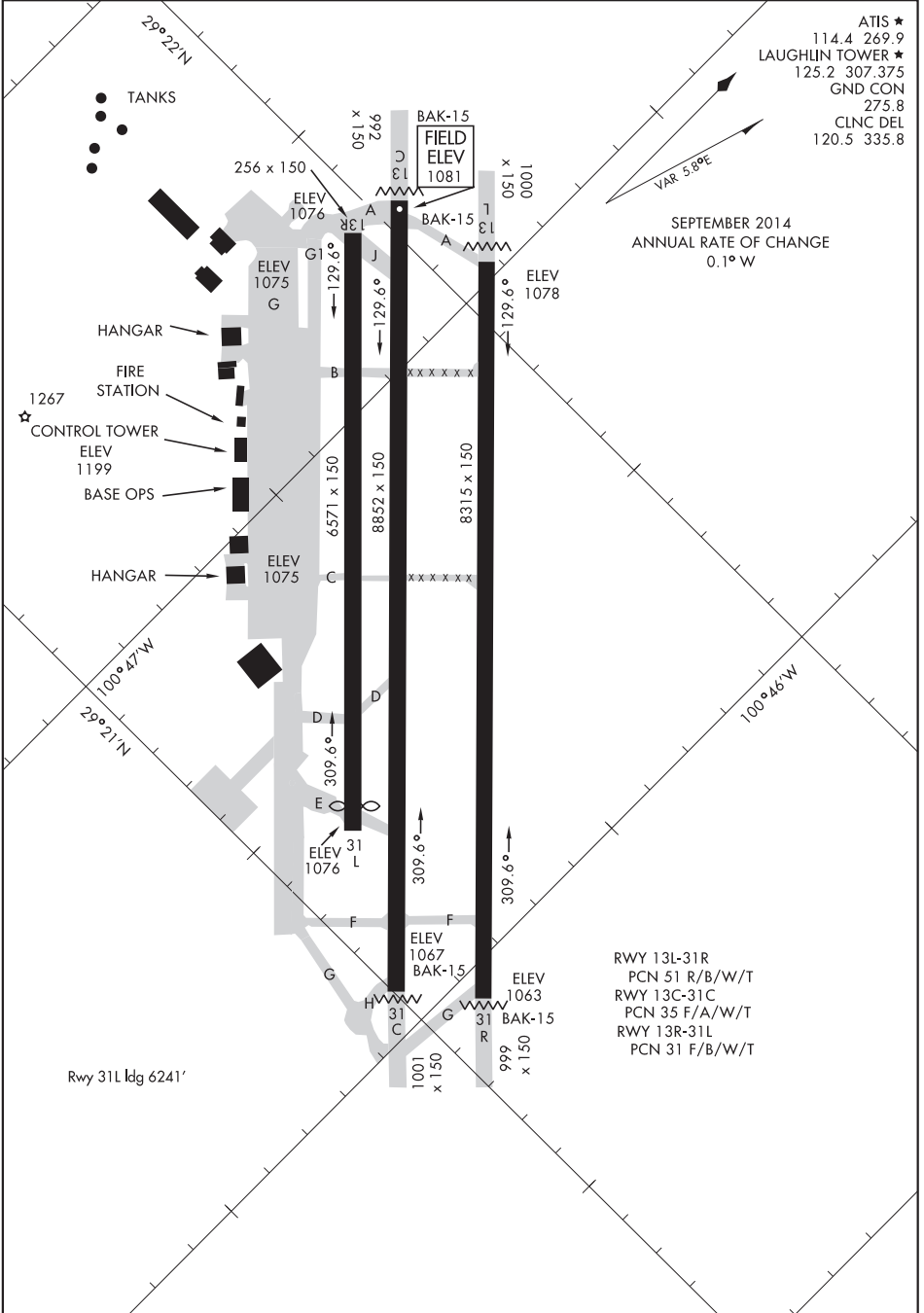
SC-3, 10 NOV 2016 to 05 JAN 2017

AIRPORT DIAGRAM

AFD-111 [USAF]

LAUGHLIN AFB (KDLF)

DEL RIO, TEXAS



SEPTEMBER 2014
ANNUAL RATE OF CHANGE
0.1° W

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

AIRPORT DIAGRAM

DEL RIO, TEXAS

LAUGHLIN AFB (KDLF)

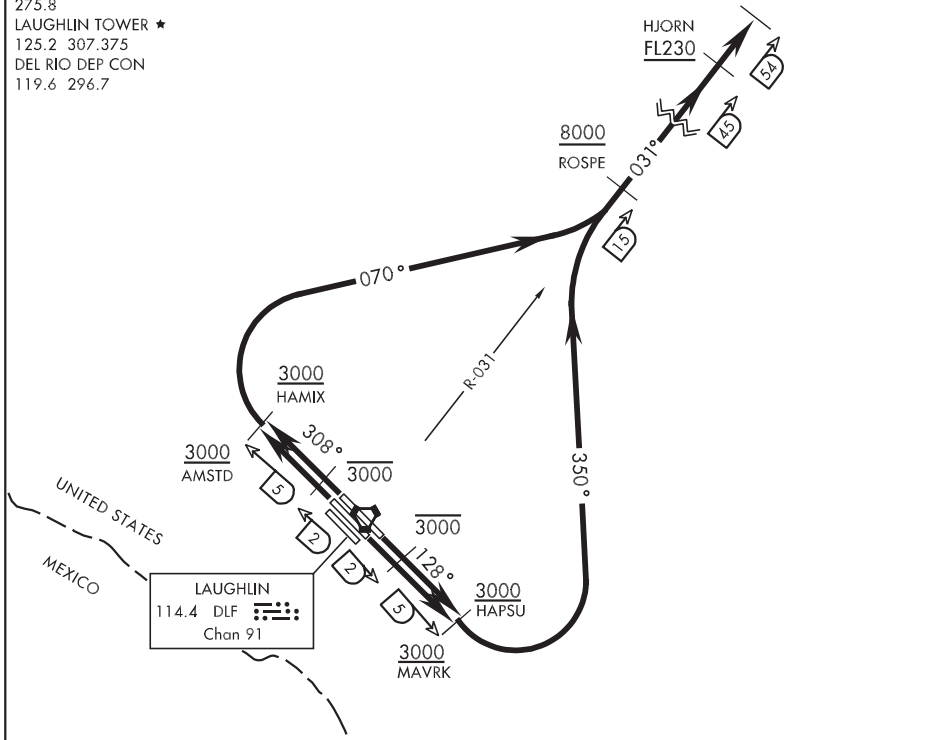
11181
HINKO ONE DEPARTURE (HINKO1•HINKO) SHL-111 [USAF] LAUGHLIN AFB (KDLF)
 DEL RIO, TEXAS

ATIS ★ 114.4 269.9
 CLNC DEL 120.5 335.8
 GND CON 275.8
 LAUGHLIN TOWER ★ 125.2 307.375
 DEL RIO DEP CON 119.6 296.7

2216

Rwy	Knots	60	120	180	240	300	360
13C/L	V/V(fpm)	450	900	1340	1790	2230	2680
31C/R	V/V(fpm)	460	920	1380	1840	2300	2760

ATC Climb Rate to HJORN (FL230) HINKO



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 13C: Climb on track 128°, cross DLF VORTAC 2 DME at or below 3000, cross DLF R-132/5 DME (MAVRK) at or above 3000. Then turn left and track 350° to intercept the DLF R-031 prior to ROSPE, cross ROSPE at or above 8000, cross HJORN at or above FL230, then direct HINKO.

TAKE-OFF RWY 13L: Climb on track 128°, cross DLF VORTAC 2 DME at or below 3000, cross DLF R-130/5 DME (HAPSU) at or above 3000. Then turn left and track 350° to intercept the DLF R-031 prior to ROSPE, cross ROSPE at or above 8000, cross HJORN at or above FL230, then direct HINKO.

TAKE-OFF RWY 31C: Climb on track 308°, cross DLF VORTAC 2 DME at or below 3000, cross DLF R-305/5 DME (AMSTD) at or above 3000. Then turn right and track 070° to intercept the DLF R-031 prior to ROSPE, cross ROSPE at or above 8000, cross HJORN at or above FL230, then direct HINKO.

TAKE-OFF RWY 31R: Climb on track 308°, cross DLF VORTAC 2 DME at or below 3000, cross DLF R-307/5 DME (HAMIX) at or above 3000. Then turn right and track 070° to intercept the DLF R-031 prior to ROSPE, cross ROSPE at or above 8000, cross HJORN at or above FL230, then direct HINKO.

HINKO ONE DEPARTURE (HINKO1•HINKO)

DEL RIO, TEXAS
 LAUGHLIN AFB (KDLF)

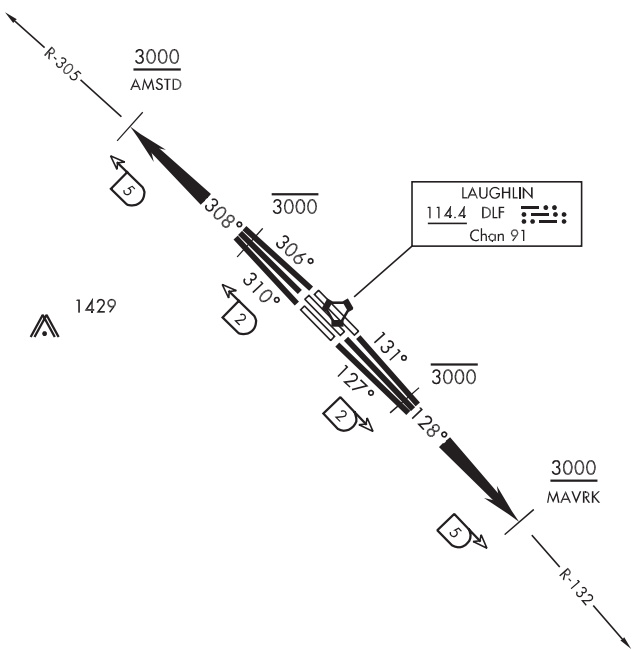
SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

ATIS ★ 114.4 269.9
CLNC DEL
120.5 335.8
GND CON
275.8
LAUGHLIN TOWER ★
125.2 307.375
DEL RIO DEP CON
119.6 296.7

Rwy	Knots	60	120	180	240	300	360
31C/R Ⓞ	V/V(fpm)	470	940	1410	1880	2350	2810
13C Ⓞ	V/V(fpm)	440	880	1320	1760	2200	2640
13L Ⓞ	V/V(fpm)	450	890	1330	1770	2210	2650
13R Ⓞ	V/V(fpm)	410	810	1210	1620	2020	2420

Ⓞ ATC Climb Rate to 5 DME



DEPARTURE ROUTE DESCRIPTION
(MAVRK Tracks)

TAKE-OFF RWY 13C: Climb on track 128°, thence. . .

TAKE-OFF RWY 13L: Climb on track 131°, thence. . .

TAKE-OFF RWY 13R: Climb on track 127°, thence. . .

Intercept DLF VORTAC R-132 to DLF 5 DME (MAVRK), cross DLF 2 DME at or below 3000, cross DLF 5 DME (MAVRK) at or above 3000, then as directed by ATC.

(AMSTD Tracks)

TAKE-OFF RWY 31C: Climb on track 308°, thence. . .

TAKE-OFF RWY 31L: Climb on track 310°, thence. . .

TAKE-OFF RWY 31R: Climb on track 306°, thence. . .

Intercept DLF VORTAC R-305 to DLF 5 DME (AMSTD), cross DLF 2 DME at or below 3000, cross DLF 5 DME (AMSTD) at or above 3000, then as directed by ATC.

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APP CRS	Rwy Idg	4202
174°	TDZE	1102
	Apt Elev	1102

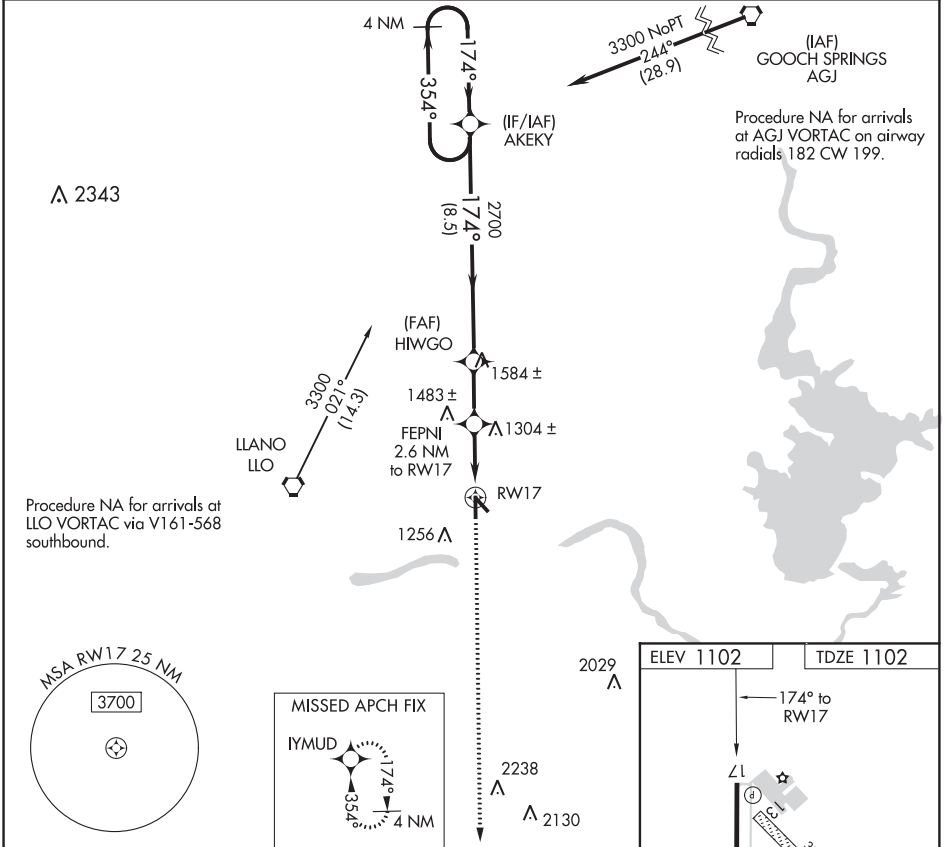
RNAV (GPS) RWY 17

LLANO MUNI (A/Q)

⚠ DME/DME RNP-0.3 NA. Circling NA to Rwy 13-31. When local altimeter setting not received, use Burnet altimeter setting and increase all MDA 80 feet. VDP NA when using Burnet altimeter setting.

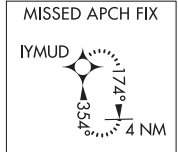
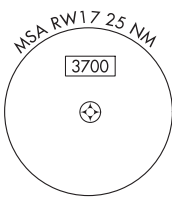
⚠ MISSED APPROACH: Climb to 3500 direct IYMUD and hold.

AWOS-3 119.425	HOUSTON CENTER 132.35 317.5	UNICOM 122.8 (CTAF) ①
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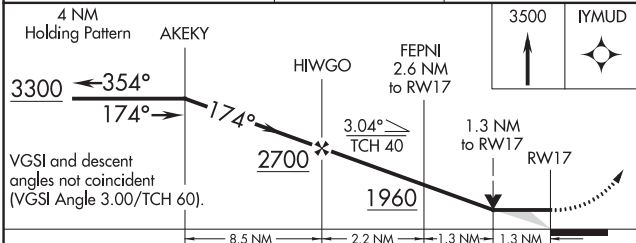
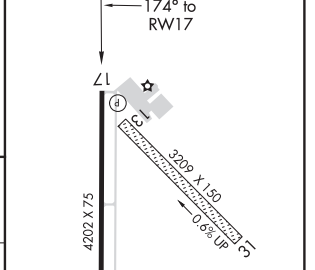


Procedure NA for arrivals at LLO VORTAC via V161-568 southbound.

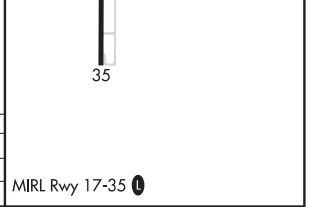
Procedure NA for arrivals at AGJ VORTAC on airway radials 182 CW 199.



ELEV 1102	TDZE 1102
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CATEGORY	A	B	C	D
LNAV MDA	1560-1	458 (500-1)		NA
CIRCLING	1660-1	558 (600-1)		NA



SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

APP CRS 354°	Rwy Idg 4202
	TDZE 1102
	Apt Elev 1102

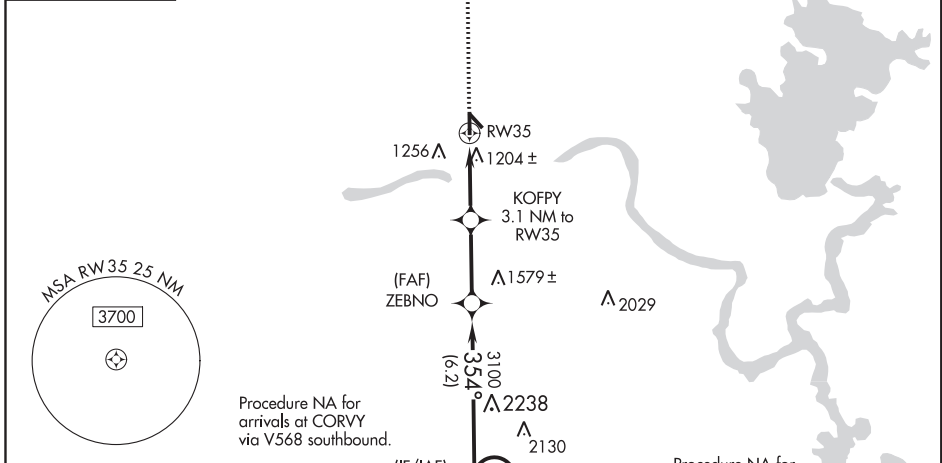
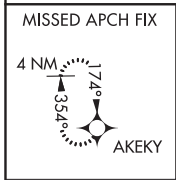
RNAV (GPS) RWY 35

LLANO MUNI (A.QO)

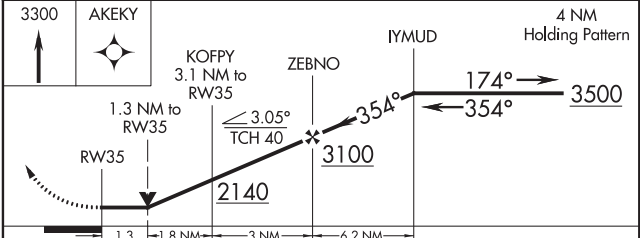
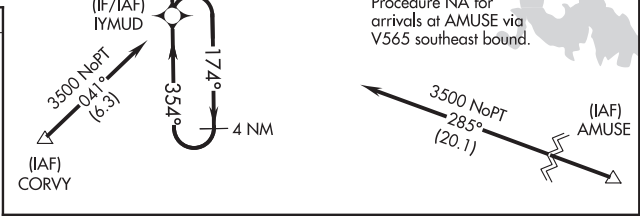
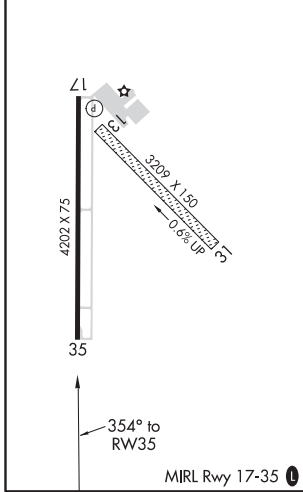
⚠ DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. Circling NA to Rwy 13-31. When local altimeter setting not received, use Burnet altimeter setting and increase all MDA 80 feet. VDP NA when using Burnet altimeter setting.

⚠ MISSED APPROACH: Climb to 3300 direct AKEY and hold.

AWOS-3 119.425	HOUSTON CENTER 132.35 317.5	UNICOM 122.8 (CTAF) 📻
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ELEV 1102	TDZE 1102
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CATEGORY	A	B	C	D
LNAV MDA	1560-1	458 (500-1)	NA	
CIRCLING	1660-1	558 (600-1)	NA	

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

LLANO, TEXAS

AL-5959 (FAA)

15092

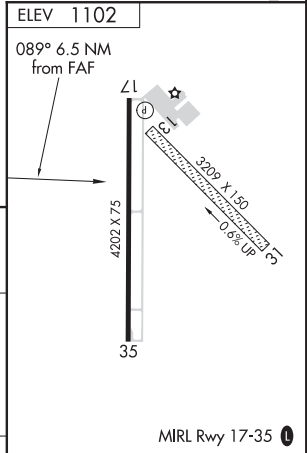
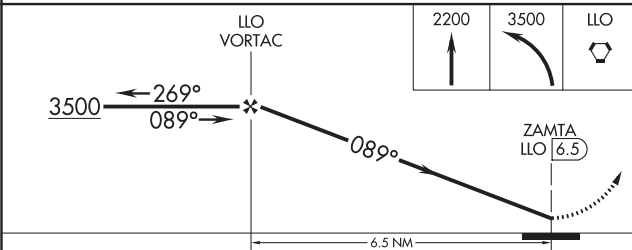
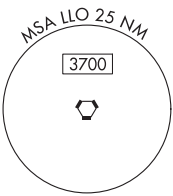
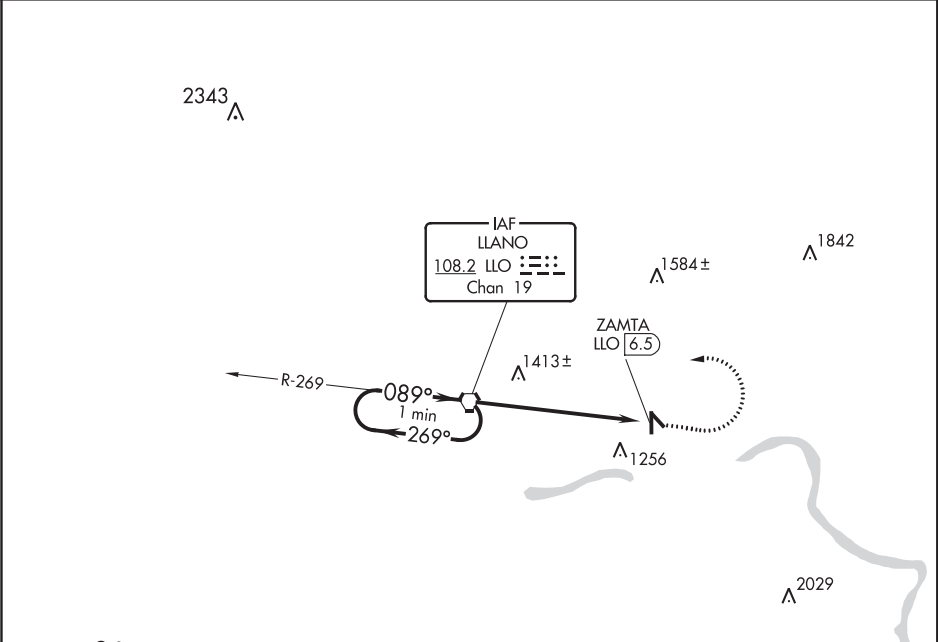
VORTAC LLO 108.2 Chan 19	APP CRS 089°	Rwy Idg TDZE Apt Elev	N/A N/A 1102
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VOR-A
LLANO MUNI (A.QO)

⚠ When local altimeter setting not received, use Burnet altimeter setting and increase all MDA 80 feet. Night Landing: Rwy 35 NA. Helicopter visibility reduction below 1 SM NA.

MISSED APPROACH: Climb to 2200 then climbing left turn to 3500 direct LLO VORTAC.

AWOS-3 119.425	HOUSTON CENTER 132.35 317.5	UNICOM 122.8 (CTAF) ①
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CATEGORY	A	B	C	D	FAF to MAP 6.5 NM						
ⓐ CIRCLING	1720-1	618 (700-1)	NA			Knots	60	90	120	150	180
						Min:Sec	6:30	4:20	3:15	2:36	2:10

LLANO, TEXAS
Amdt 4 02APR15

30°47'N-98°40'W

LLANO MUNI (A.QO)
VOR-A

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

WAAS CH 45922 W18A	APP CRS 175°	Rwy Idg TDZE Apt Elev	4001 532 532
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RNAV (GPS) RWY 18

LOCKHART MUNI (50R)

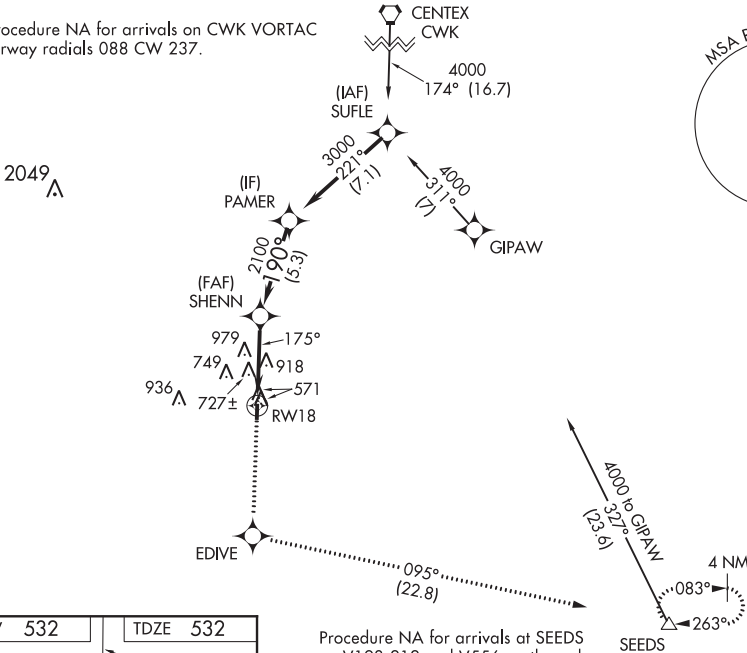
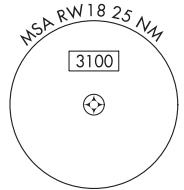
NA Baro-VNAV NA. When VGSI inop, Straight-in/Circling Rwy 18 procedure NA at night. DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. Use San Marcos altimeter setting, when not received, use Austin-Bergstrom Intl altimeter setting and increase all DA 16 feet, all MDA 20 feet, increase LNAV Cat B and Circling Cats B and C visibilities 1/4 mile.

MISSED APPROACH: Climb to 4000 direct EDIVE and on track 095° to SEEDS and hold.

AUSTIN APP CON
120.875 270.25

UNICOM
122.8 (CTAF)

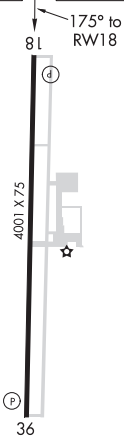
Procedure NA for arrivals on CWK VORTAC airway radials 088 CW 237.



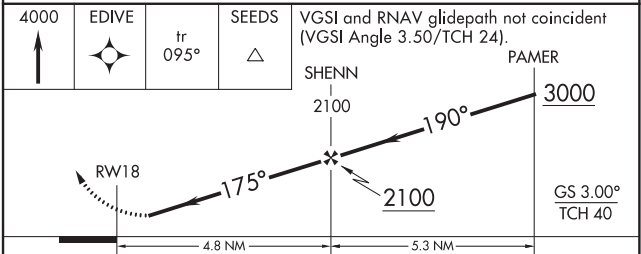
SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

ELEV 532	TDZE 532
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Procedure NA for arrivals at SEEDS on V198-212 and V556 eastbound.



CATEGORY	A	B	C	D
LPV DA	815-1		283 (300-1)	NA
LNAV/VNAV DA	883-1¼		351 (400-1¼)	NA
LNAV MDA	1260-1	728 (800-1)		1260-2 728 (800-2)
CIRCLING	1260-1	728 (800-1)		1260-2 728 (800-2)

MIRL Rwy 18-36

LOCKHART, TEXAS

AL-6919 (FAA)

15092

WAAS CH 53323 W36A	APP CRS 355°	Rwy Idg TDZE Apt Elev	4001 530 532
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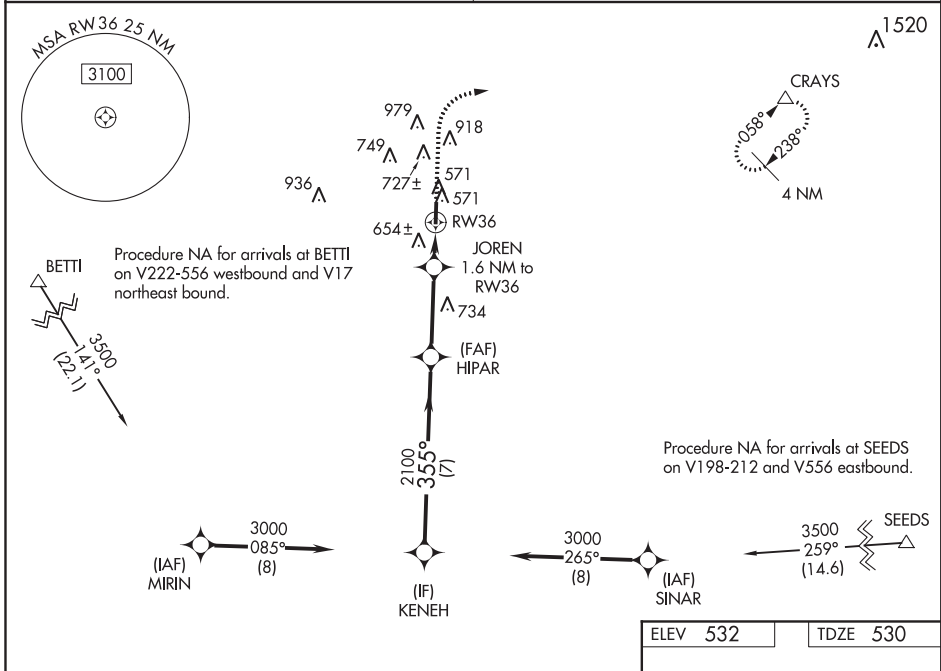
RNAV (GPS) RWY 36

LOCKHART MUNI (50R)

NA Baro-VNAV NA. When VGSI inop, Straight-in/Circling Rwy 36 procedure NA at night. DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. Use San Marcos altimeter setting, when not received, use Austin Bergstrom Intl altimeter setting and increase all DA 16 feet, all MDA 20 feet and increase LNAV Cat C visibility 1/8 mile.

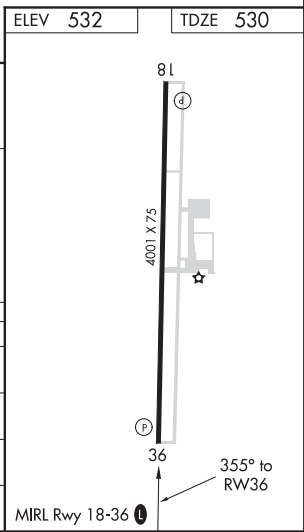
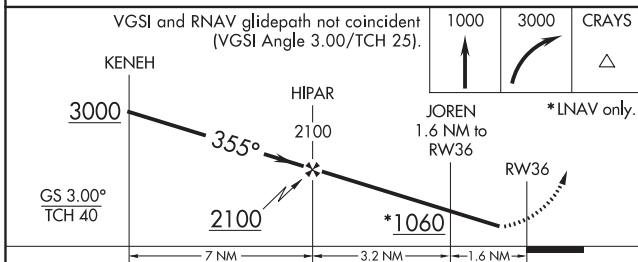
MISSED APPROACH: Climb to 1000, then climbing right turn to 3000 direct CRAYS and hold.

AUSTIN APP CON 120.875 270.25	UNICOM 122.8 (CTAF) 0
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SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017



CATEGORY	A	B	C	D
LPV DA	813-1	283 (300-1)		NA
LNAV/VNAV DA	863-1 1/8	333 (400-1 1/8)		NA
LNAV MDA	940-1	410 (500-1)	940-1 1/8 410 (500-1 1/8)	NA
CIRCLING	1020-1	488 (500-1)	1020-1 1/2 488 (500-1 1/2)	NA

LOCKHART, TEXAS
Orig-A 02APR15

29°51'N-97°40'W

LOCKHART MUNI (50R) RNAV (GPS) RWY 36

APP CRS 307°	Rwy Idg 6203
	TDZE 4840
	Apt Elev 4849

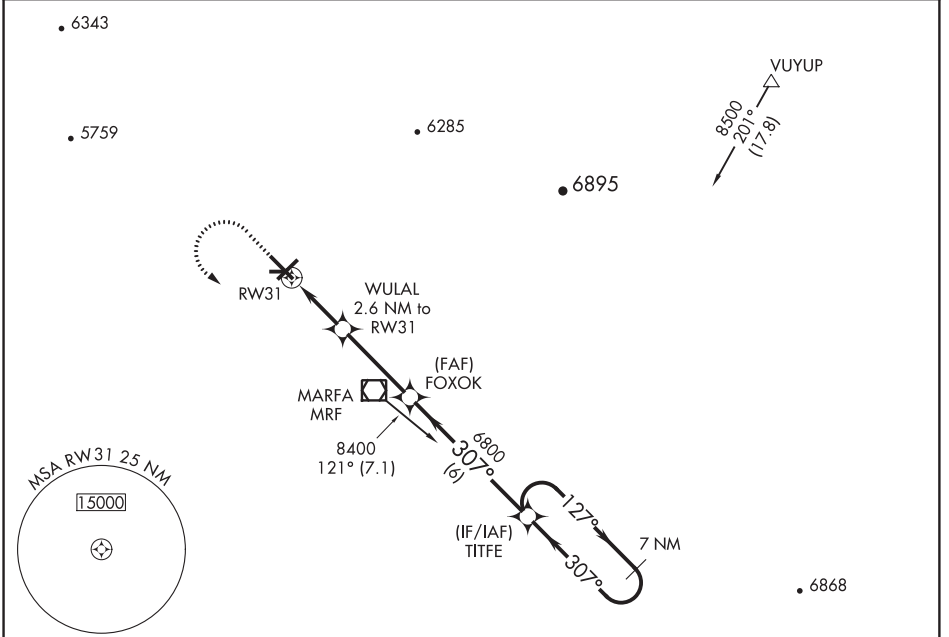
RNAV (GPS) RWY 31

MARFA MUNI (MRF)

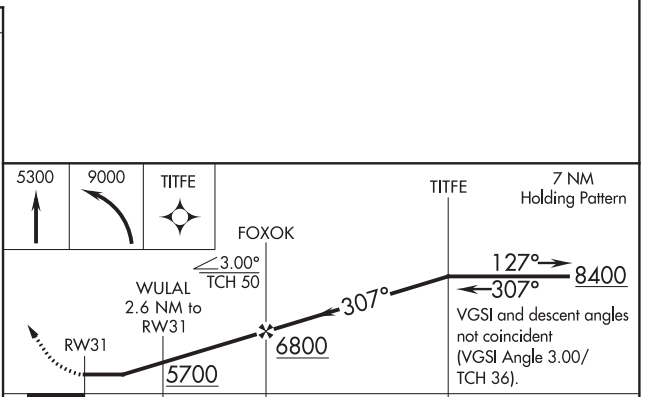
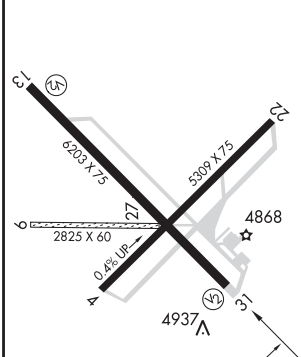
When local altimeter setting not received, procedure NA.
 DME/DME RNP-0.3 NA.
 Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 5300 then climbing left turn to 9000 direct TITFE and hold, continue climb-in-hold to 9000.

AWOS-3PT 134.025	ALBUQUERQUE CENTER 135.875 292.15	UNICOM 122.8 (CTAF)
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ELEV 4849	TDZE 4840
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CATEGORY	A	B	C	D
LNAV MDA	5200-1 360 (400-1)			
CIRCLING	5280-1 431 (500-1)	5300-1 451 (500-1)	5300-1½ 451 (500-1½)	5400-2 551 (600-2)

MARFA, TEXAS
 Orig-A 02APR15

30°22'N-104°01'W
 307

RNAV (GPS) RWY 31

MARFA MUNI (MRF)

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

MARFA, TEXAS

AL-5443 (FAA)

16091

VOR/DME MRF 115.9 Chan 106	APP CRS 313°	Rwy Idg TDZE Apt Elev	6203 4840 4849
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VOR RWY 31

MARFA MUNI (MRF)

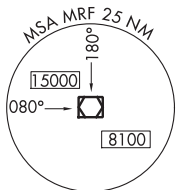
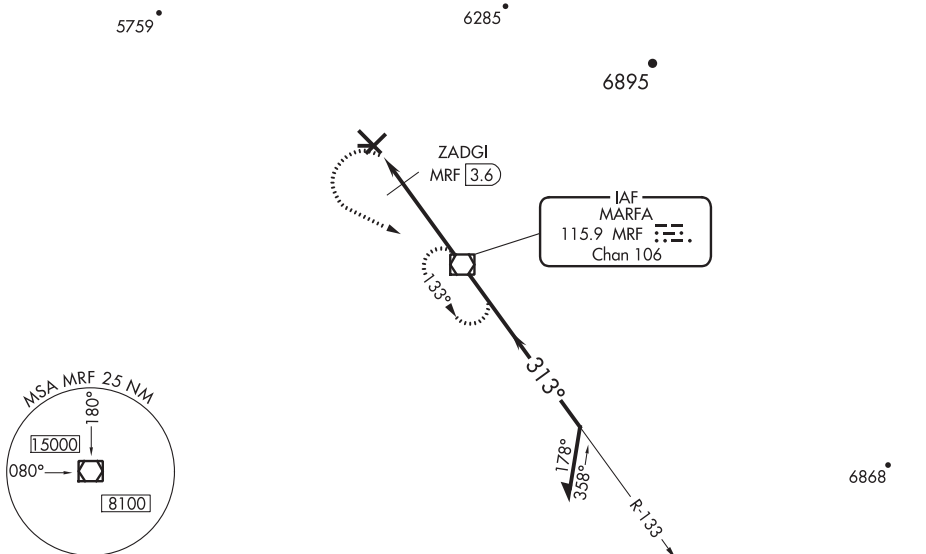
T When local altimeter setting not received, procedure NA.
Visibility reduction by helicopters NA.

MISSED APPROACH: Climbing left turn to 9000 direct MRF VOR/DME and hold, continue climb-in-hold to 9000.

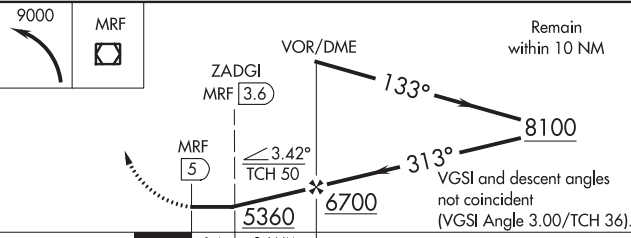
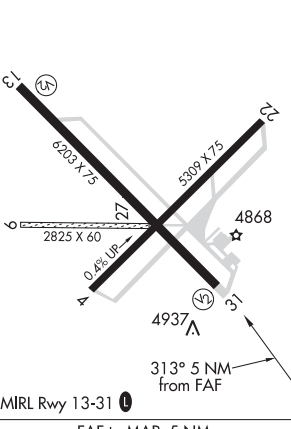
AWOS-3PT
134.025

ALBUQUERQUE CENTER
135.875 292.15

UNICOM
122.8 (CTAF)



ELEV 4849	TDZE 4840
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CATEGORY	A	B	C	D
S-31	5360-1	520 (600-1)	5360-1½	520 (600-1½)
CIRCLING	5360-1	511 (600-1)	5360-1½	5400-2 551 (600-2)
ZADGI FIX MINIMUMS				
S-31	5200-1		360 (400-1)	
CIRCLING	5280-1 431 (500-1)	5300-1 451 (500-1)	5300-1½ 451 (500-1½)	5400-2 551 (600-2)

MARFA, TEXAS
Amdt 6A 02APR15

30°22'N-104°01'W

MARFA MUNI (MRF) VOR RWY 31

SC-3, 10 NOV 2016 to 05 JAN 2017

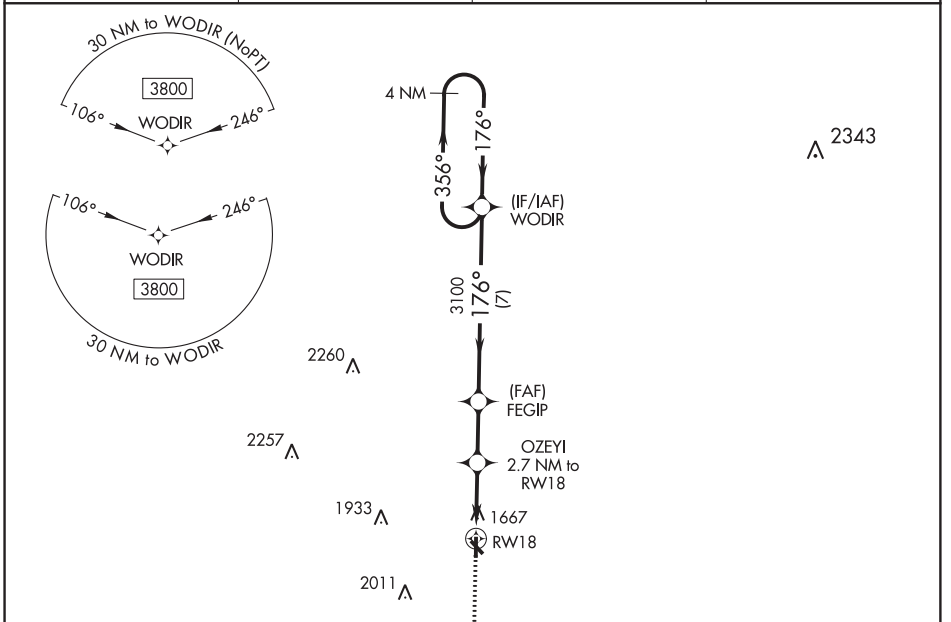
SC-3, 10 NOV 2016 to 05 JAN 2017

APP CRS 176°	Rwy Idg 3716
	TDZE 1502
	Apt Elev 1502

RNAV (GPS) RWY 18

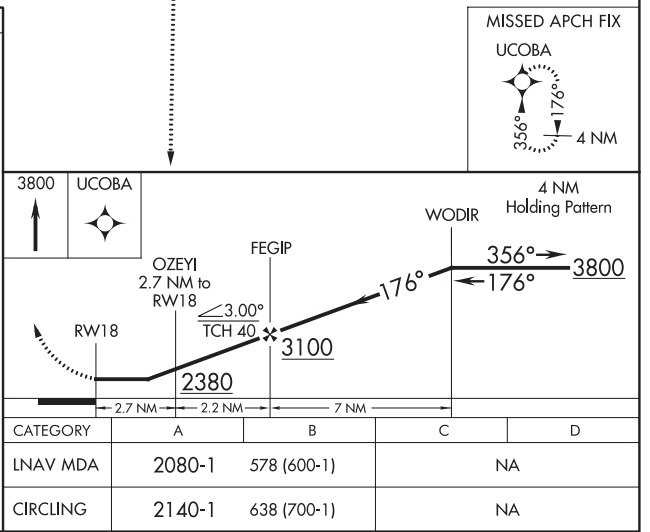
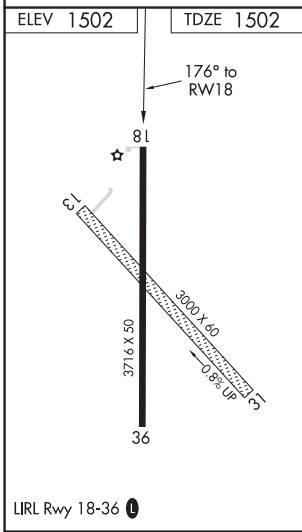
MASON COUNTY (T92)

<p>▼ Use Brady altimeter setting; when not received, use LLano altimeter setting and increase all MDA 20 feet. Procedure NA at night.</p> <p>▲ NA DME/DME RNP-0.3 NA. Helicopter visibility reduction below 1 SM NA. Circling Rwy 13/31 NA.</p>	<p>MISSED APPROACH: Climb to 3800 direct UCOPA and hold.</p>		
<p>BRADY AWOS-3 118.375</p>	<p>HOUSTON CENTER 132.35 317.5</p>	<p>CTAF 122.9</p>	<p>123.3 ①</p>



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APP CRS	Rwy Idg	3716
356°	TDZE	1498
	Apt Elev	1502

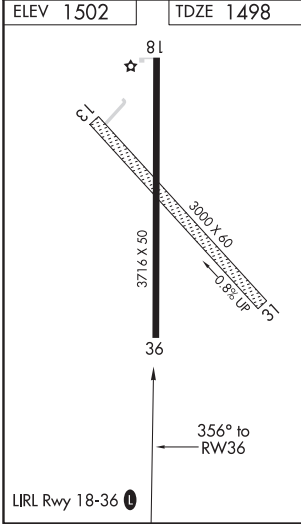
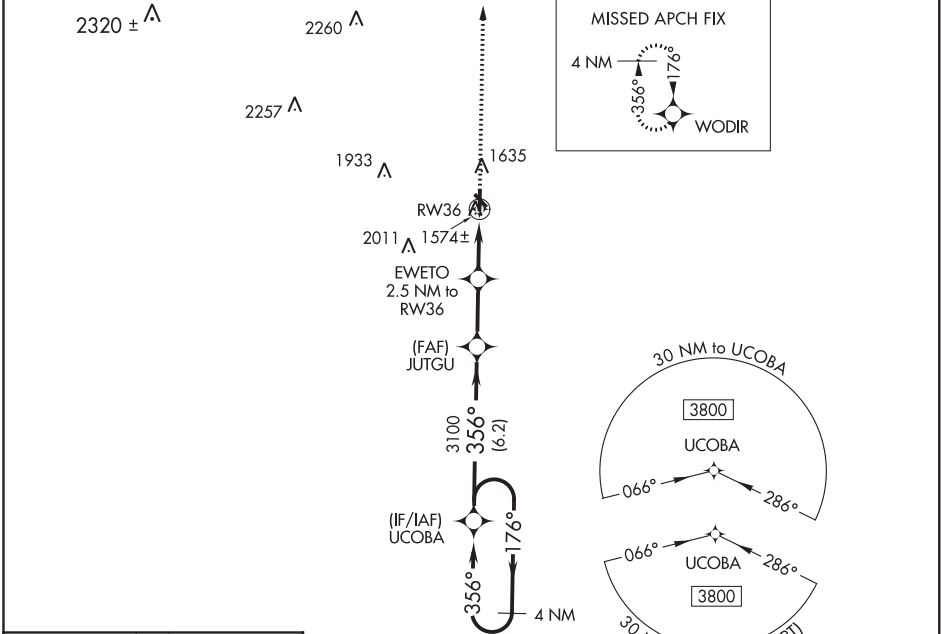
RNAV (GPS) RWY 36

MASON COUNTY (T92)

NA Use Brady altimeter setting; when not received, use Llano altimeter setting and increase all MDA 20 feet. Procedure NA at night. DME/DME RNP-0.3 NA. Helicopter visibility reduction below 1 SM NA. Circling Rwy 13/31 NA.

MISSED APPROACH: Climb to 3800 direct WODIR and hold.

BRADY AWOS-3 118.375	HOUSTON CENTER 132.35 317.5	CTAF 122.9	123.3 Q
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3800	WODIR	4 NM Holding Pattern		
UCOBA	JUTGU	UCOBA		
EWETO 2.5 NM to RW36	3.00° TCH 40	3100		
RW36	2320	3800		
2.5 NM	2.4 NM	6.2 NM		
CATEGORY	A	B	C	D
LNAV MDA	1940-1	442 (500-1)	NA	
CIRCLING	2140-1	638 (700-1)	NA	

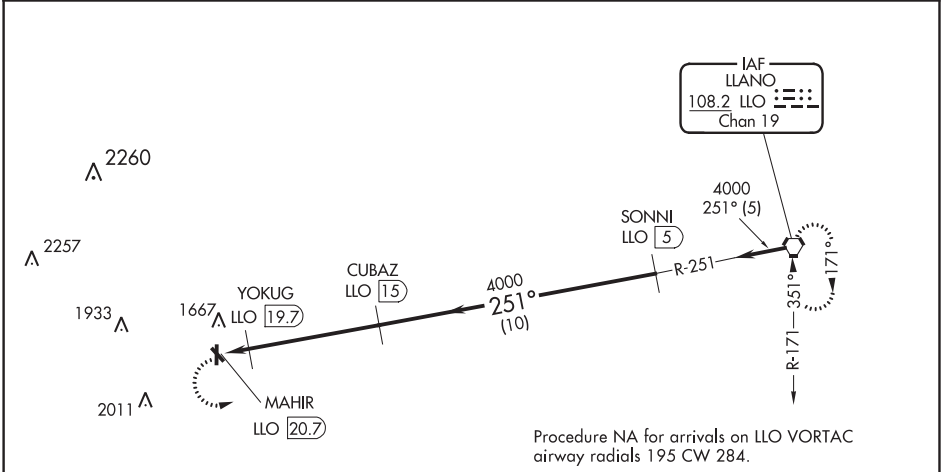
SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

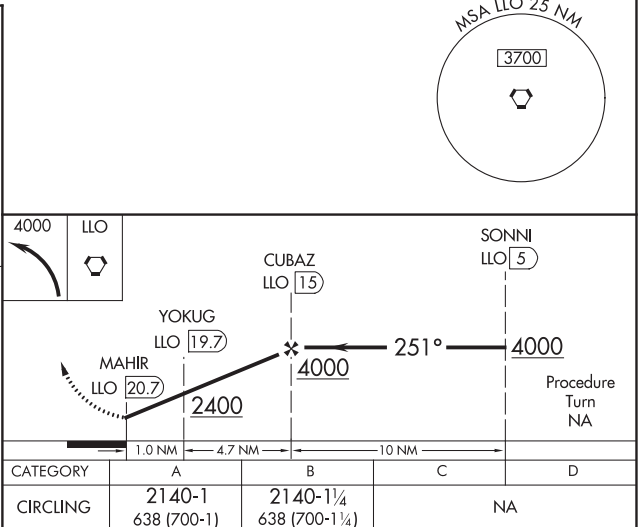
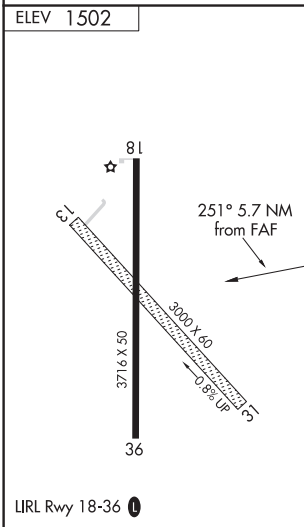
VORTAC LLO 108.2 Chan 19	APP CRS 251°	Rwy Idg TDZE Apt Elev N/A N/A 1502
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VOR/DME-A
MASON COUNTY (T92)

<p>▼ Use Brady altimeter setting; when not received, use Llano altimeter setting. Procedure NA at night.</p> <p>▲ NA Circling Rwy 13/31 NA. Helicopter visibility reduction below 1 SM NA.</p>	<p>MISSED APPROACH: Climbing left turn to 4000 direct LLO VORTAC and hold.</p>		
<p>BRADY AWOS-3 118.375</p>	<p>HOUSTON CENTER 132.35 317.5</p>	<p>CTAF 122.9</p>	<p>123.3 0</p>



Procedure NA for arrivals on LLO VORTAC airway radials 195 CW 284.



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LOC/DME I-MFE 111.7 Chan 54	APP CRS 137°	Rwy Idg 6983 TDZE 107 Apt Elev 107
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ILS or LOC RWY 14

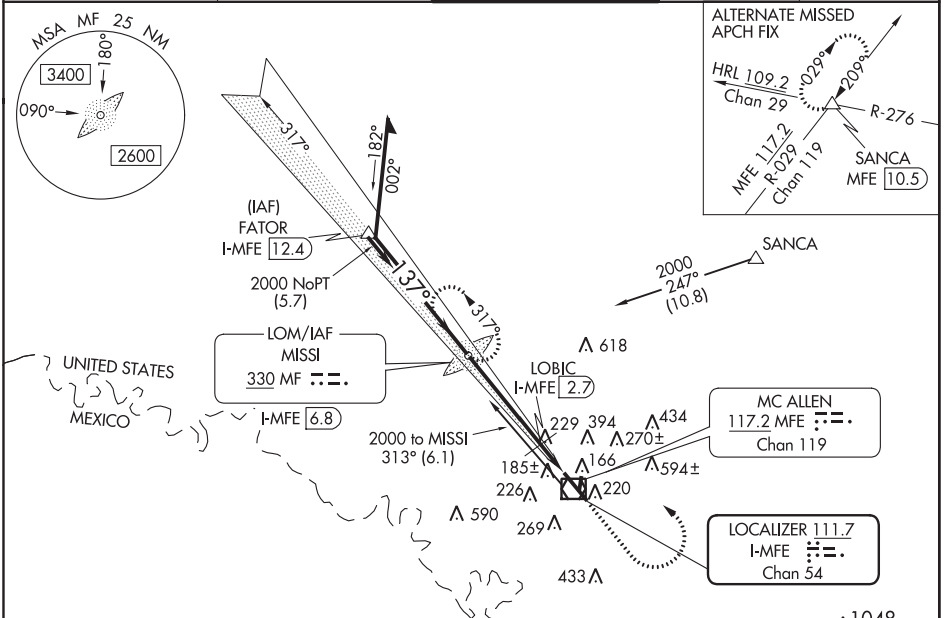
MC ALLEN MILLER INTL (MFE)

⚠ Circling NA northeast of Rwy 14-32. ADF required. When local altimeter setting not received, use Weslaco altimeter setting: increase all DA 39 feet; increase all MDA 40 feet and S-LOC 14 Cat C/D and Circling Cat C visibility $\frac{1}{8}$ mile, increase LOBIC fix minimums S-LOC 14 Cat C/D visibility $\frac{1}{4}$ mile.

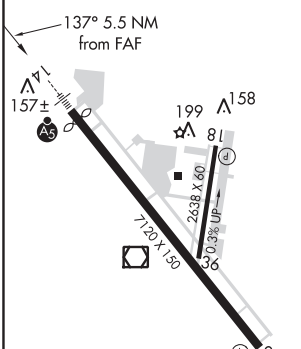
MALSR
AS

MISSED APPROACH: Climb to 1500 then climbing left turn to 2000 direct to MISSI LOM and hold.

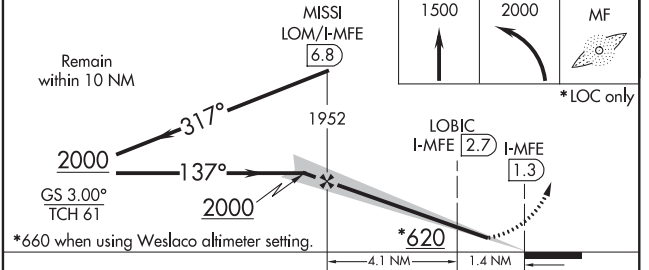
ATIS 128.5	VALLEY APP CON 121.0 377.2	MC ALLEN TOWER* 118.5 (CTAF) 256.9	GND CON 121.8	UNICOM 122.95
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ELEV 107	D	TDZE 107
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FAF to MAP 5.5 NM					
Knots	60	90	120	150	180
Min:Sec	5:30	3:40	2:45	2:12	1:50



CATEGORY	A	B	C	D
S-ILS 14	307- $\frac{1}{2}$ 200 (200- $\frac{1}{2}$)			
S-LOC 14	620- $\frac{1}{2}$	513 (600- $\frac{1}{2}$)	620-1	513 (600-1)
C CIRCLING	620-1	513 (600-1)	620-1 $\frac{1}{2}$ 513 (600-1 $\frac{1}{2}$)	800-2 $\frac{1}{4}$ 693 (700-2 $\frac{1}{4}$)
LOBIC FIX MINIMUMS				
S-LOC 14	540- $\frac{1}{2}$	433 (500- $\frac{1}{2}$)	540- $\frac{3}{4}$	433 (500- $\frac{3}{4}$)
C CIRCLING	580-1	473 (500-1)	580-1 $\frac{1}{2}$ 473 (500-1 $\frac{1}{2}$)	800-2 $\frac{1}{4}$ 693 (700-2 $\frac{1}{4}$)

SC-3, 10 NOV 2016 to 05 JAN 2017

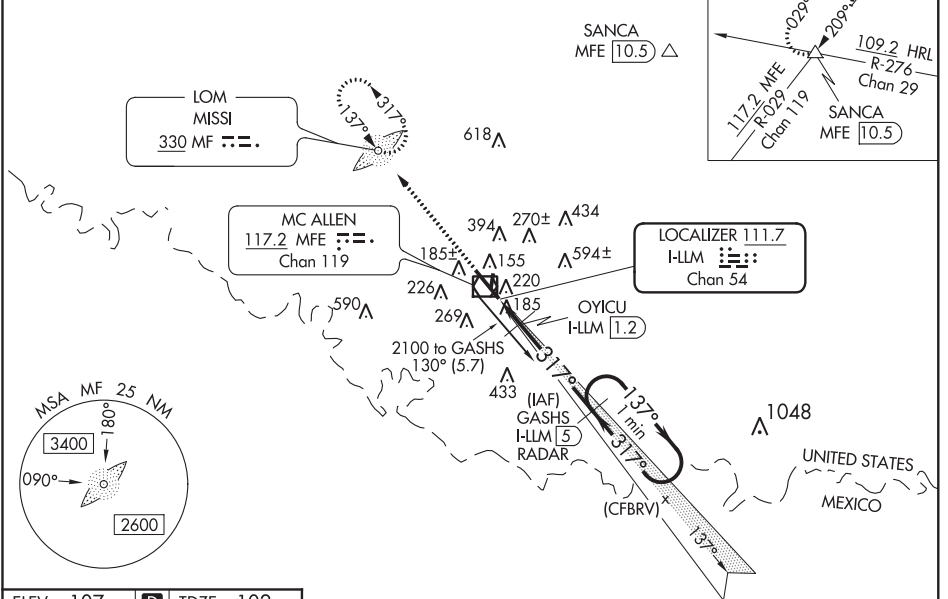
SC-3, 10 NOV 2016 to 05 JAN 2017

LOC/DME I-LLM 111.7 Chan 54	APP CRS 317°	Rwy Idg TDZE Apt Elev	7120 102 107
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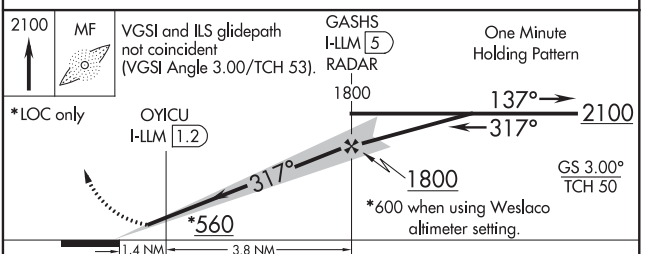
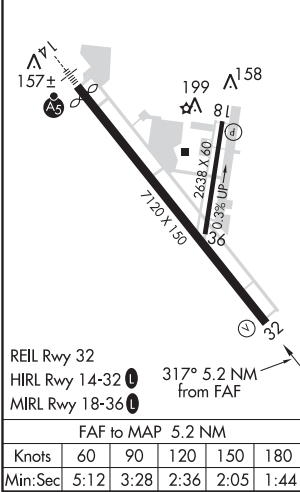
ILS or LOC RWY 32
MC ALLEN MILLER INTL (MF'E)

<p>⚠ Circling NA northeast of Rwy 14-32. ADF and DME or Radar required. When local altimeter setting not received, use Wesloco altimeter setting: increase all DA 39 feet and MDA 40 feet.</p>		<p>MISSED APPROACH: Climb to 2100 direct MF LOM and hold</p>		
<p>ATIS 128.5</p>	<p>VALLEY APP CON 121.0 377.2</p>	<p>MC ALLEN TOWER * 118.5 (CTAF) 256.9</p>	<p>GND CON 121.8</p>	<p>UNICOM 122.95</p>

DME or RADAR REQUIRED



ELEV 107	D	TDZE 102
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CATEGORY	A	B	C	D
S-ILS 32	302- ³ / ₄		200 (200- ³ / ₄)	
S-LOC 32	560-1	458 (500-1)	560- ¹ / ₈	458 (500- ¹ / ₈)
C CIRCLING	580-1	473 (500-1)	580- ¹ / ₂ 473 (500- ¹ / ₂)	800- ² / ₄ 693 (700- ² / ₄)
OYICU FIX MINIMUMS				
S-LOC 32	440-1		338 (400-1)	
C CIRCLING	580-1	473 (500-1)	580- ¹ / ₂ 473 (500- ¹ / ₂)	800- ² / ₄ 693 (700- ² / ₄)

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

MC ALLEN, TEXAS

AL-985 (FAA)

15344

WAAS CH 78400 W14A	APP CRS 137°	Rwy Idg 6983 TDZE 107 Apt Elev 107
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RNAV (GPS) RWY 14

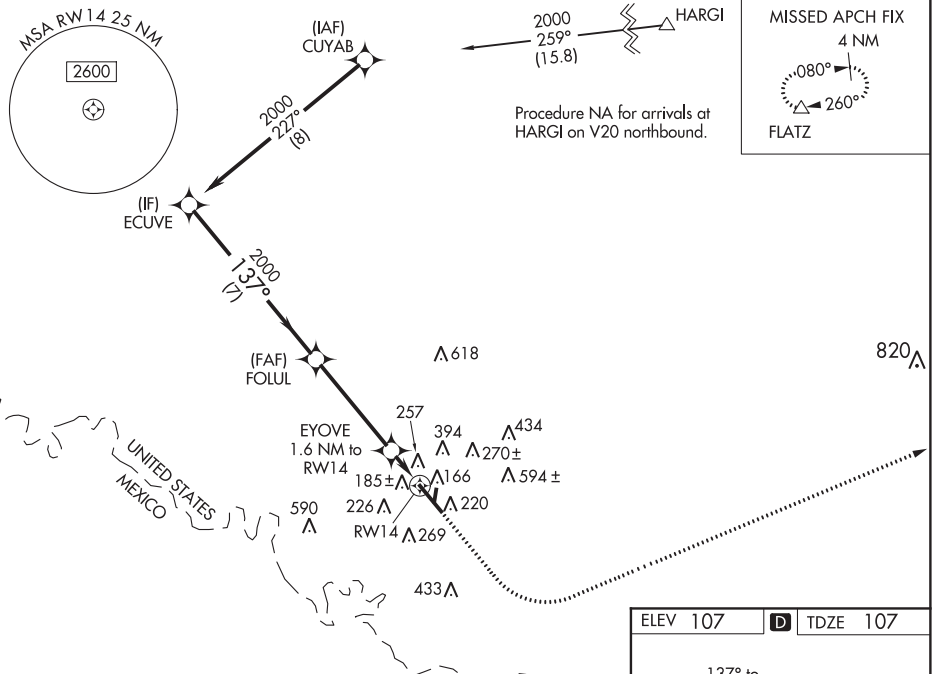
MC ALLEN MILLER INTL (MFE)

⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below 1°C (34°F) or above 54°C (130°F). Circling NA northeast of Rwy 14-32. DME/DME RNP-0.3 NA. When local altimeter setting not received, use Weslaco altimeter setting: increase all DA 39 feet and LNAV/VNAV all Cat visibility 1/8 mile; increase all MDA 40 feet and LNAV Cat C/D visibility 1/8 mile. Baro-VNAV and VDP NA when using Weslaco altimeter setting.



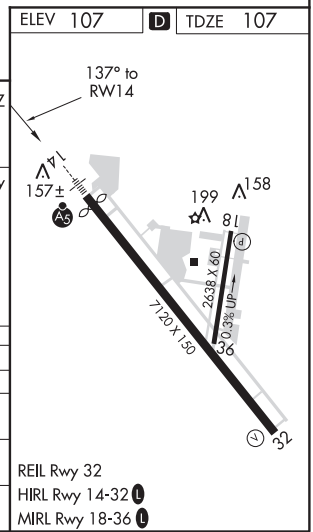
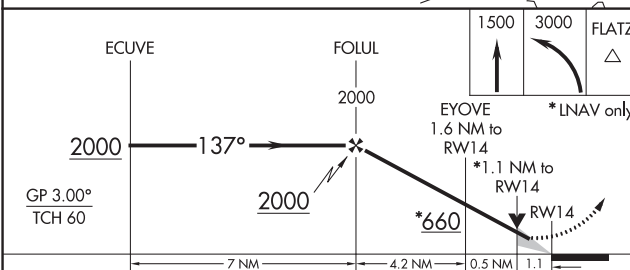
MISSED APPROACH:
Climb to 1500 then climbing left turn to 3000 direct FLATZ and hold.

ATIS 128.5	VALLEY APP CON 121.0 377.2	MC ALLEN TOWER * 118.5 (CTAF) 256.9	GND CON 121.8	UNICOM 122.95
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SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017



CATEGORY	A	B	C	D
LPV DA		307-1/2	200 (200-1/2)	
LNAV/VNAV DA		418-1/2	311 (400-1/2)	
LNAV MDA	520-1/2	413 (500-1/2)	520-3/4	413 (500-3/4)
C CIRCLING	580-1	473 (500-1)	580-1 1/2 473 (500-1 1/2)	800-2 1/4 693 (700-2 1/4)

MC ALLEN, TEXAS
Amdt 1 10DEC15

26°11'N-98°14'W

MC ALLEN MILLER INTL (MFE)

RNAV (GPS) RWY 14

MC ALLEN, TEXAS

AL-985 (FAA)

15344

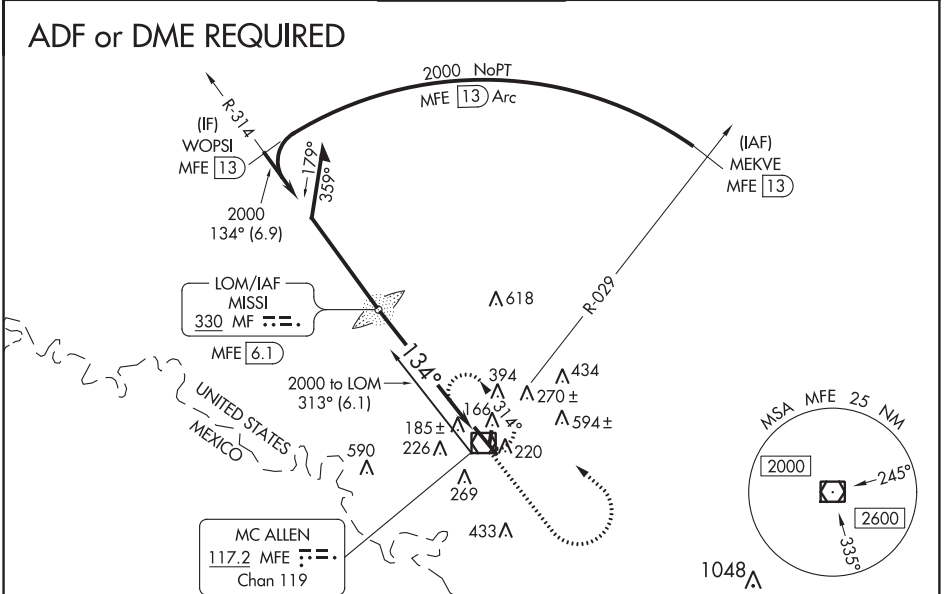
VOR/DME MFE 117.2 Chan 119	APP CRS 134°	Rwy Idg 6983 TDZE 107 Apt Elev 107
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VOR RWY 14

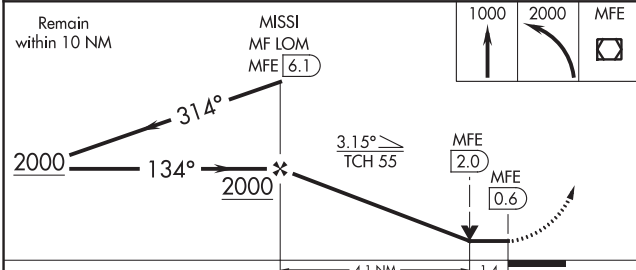
MC ALLEN MILLER INTL (MFE)

<p>⚠ Circling NA northeast of Rwy 14-32. ADF or DME Required. For inop MALSR, increase S-14 Cat C/D visibility to 1 3/8 mile. When local altimeter setting not received, use Weslaco altimeter setting and increase all MDA 40 feet and S-14 Cat C/D and Circling Cat C visibility 1/8 mile. VDP NA when using Weslaco altimeter setting.</p>	<p>MALSR</p>	<p>MISSED APPROACH: Climb to 1000 then climbing left turn to 2000 direct MFE VOR/DME and hold.</p>
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ATIS 128.5	VALLEY APP CON 121.0 377.2	MC ALLEN TOWER ★ 118.5 (CTAF) 256.9	GND CON 121.8	UNICOM 122.95
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ELEV 107	D	TDZE 107
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REIL Rwy 32	HIRL Rwy 14-32	MRL Rwy 18-36			
FAF to MAP 5.5 NM					
Knots	60	90	120	150	180
Min:Sec	5:30	3:40	2:45	2:12	1:50

CATEGORY	A	B	C	D
S-14	620-1/2	513 (600-1/2)	620-1	513 (600-1)
C CIRCLING	620-1	513 (600-1)	620-1 1/2	800-2 1/4
			513 (600-1/2)	693 (700-2 1/4)

MC ALLEN, TEXAS
Amdt 16 10DEC15

26°11'N-98°14'W

MC ALLEN MILLER INTL (MFE)

VOR RWY 14

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

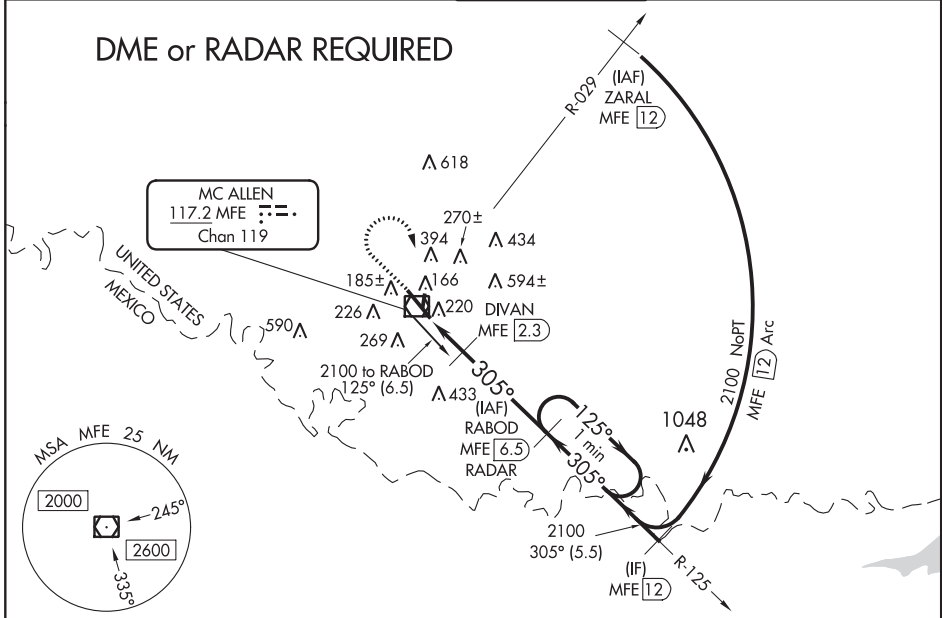
VOR/DME MFE 117.2 Chan 119	APP CRS 305°	Rwy Idg TDZE 102 Apt Elev 107	7120
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VOR RWY 32

MC ALLEN MILLER INTL (MFE)

<p>⚠ Circling NA northeast of Rwy 14-32. When local altimeter setting not received, use Weslaco altimeter setting and increase all MDA 40 feet and S-32 Cat C/D and Circling Cat C visibility 1/8 mile, increase DIVAN fix minimums S-32 Cat C/D visibility 1/8 mile. VDP NA when using Weslaco altimeter setting.</p>		<p>MISSED APPROACH: Climb to 900 then climbing right turn to 2100 direct MFE VOR/DME.</p>		
ATIS 128.5	VALLEY APP CON 121.0 377.2	MC ALLEN TOWER* 118.5 (CTAF) 256.9	GND CON 121.8	UNICOM 122.95

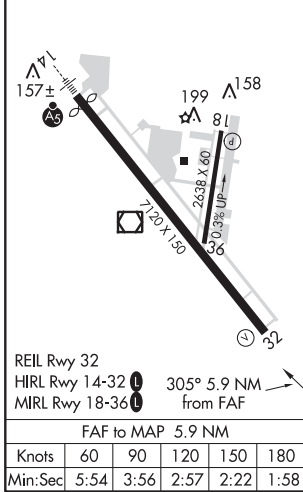
DME or RADAR REQUIRED



SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

ELEV 107	D	TDZE 102
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900	2100	MFE	RABOD MFE 6.5 RADAR	One Minute Holding Pattern
<p>MFE VOR/DME</p>		MFE 0.6	MFE 1.6	MFE 2.3
<p>1 NM</p>		0.7 NM	4.2 NM	<p>125° → 2100</p> <p>← 305°</p> <p>*660 ≤ 3.09° TCH 52</p> <p>*700 when using Weslaco altimeter setting.</p>
CATEGORY	A	B	C	D
S-32	660-1	558 (600-1)	660-1 1/8	558 (600-1 1/8)
C CIRCLING	660-1	553 (600-1)	660-1 1/8	800-2 1/4
			553 (600-1 1/8)	693 (700-2 1/4)
DIVAN FIX MINIMUMS				
S-32	480-1 378 (400-1)			
C CIRCLING	580-1	473 (500-1)	580-1 1/2	800-2 1/4
			473 (500-1 1/2)	693 (700-2 1/4)

WAAS CH 72923 W25A	APP CRS 248°	Rwy Idg TDZE Apt Elev	5571 2800 2805
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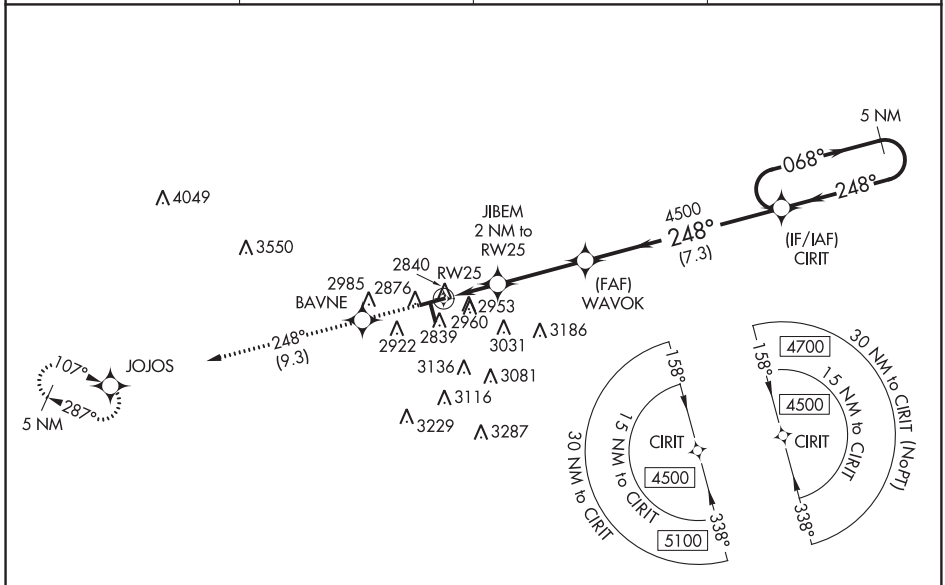
RNAV (GPS) RWY 25

MIDLAND AIRPARK (MDD)

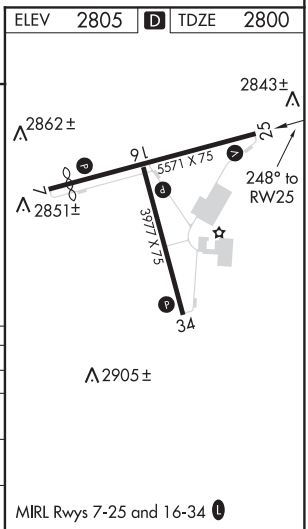
⚠ Baro-VNAV NA when using Midland Intl altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -20°C (-4°F) or above 26°C (78°F).
⚠ When local altimeter setting not received, use Midland Intl altimeter setting and increase all DA 28 feet, all MDA 40 feet, increase LNAV/VNAV all Cats and LNAV Cat C/D visibility ½ mile. When VGSi inop, Straight-in/Circling Rwy 25 procedure NA at night. DME/DME RNP-0.3 NA. Helicopter visibility reduction below 1 SM NA.

MISSED APPROACH: Climb to 5000 direct BAVNE and on 248° track to JOJOS and hold.

AWOS-3 118.125	MIDLAND APP CON ★ 124.6 290.4	CLNC DEL 121.8	UNICOM 122.7 (CTAF) 0
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ELEV 2805	D TDZE 2800			
5000 ↑	BAVNE ⬠	JOJOS ⬠	VGSi and RNAV glidepath not coincident (VGSi Angle 3.00/TCH 53).	5 NM Holding Pattern
*LNAV only	JIBEM 2 NM to RW25	4500	WAWOK	CIRIT
RW25	3460*	4500	068°	4500
2 NM	3.2 NM	7.3 NM	GP 3.00°	TCH 47
CATEGORY	A	B	C	D
LPV DA		3081-1	281 (300-1)	
LNAV/VNAV DA		3144-1½	344 (400-1½)	
LNAV MDA	3220-1	420 (500-1)	3220-1¼	420 (500-1¼)
CIRCLING	3320-1	515 (600-1)	3320-1½	3700-3 895 (900-3)



SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

MIDLAND, TEXAS

AL-6158 (FAA)

16203

WAAS CH 58029 W34A	APP CRS 338°	Rwy Idg TDZE Apt Elev	3977 2801 2805
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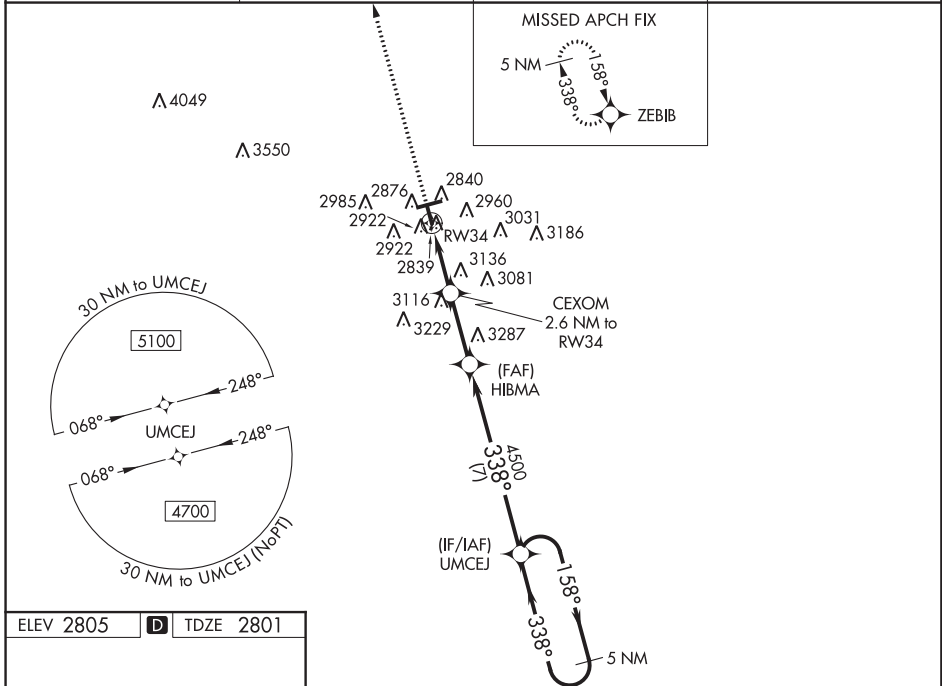
RNAV (GPS) RWY 34

MIDLAND AIRPARK (MIDD)

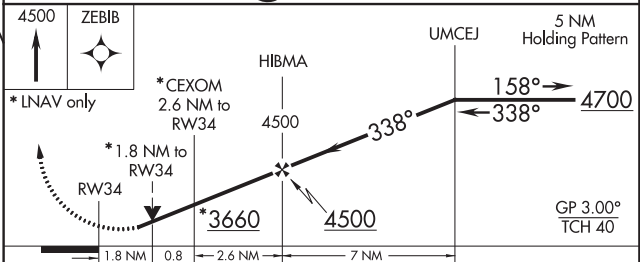
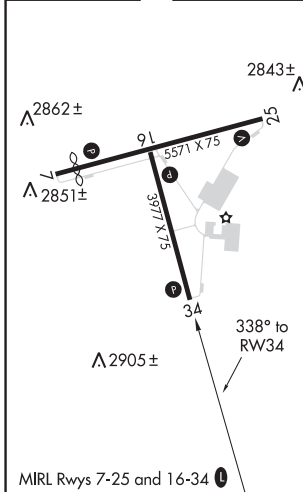
⚠ Baro-VNAV NA when using Midland Intl altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -20°C (-4°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. Helicopter visibility reduction below 3/4 SM NA. VDP NA with Midland Intl altimeter setting. When local altimeter setting not received, use Midland Intl altimeter setting and increase all DA 28 feet, all MDA 40, increase LNAV/VNAV all Cats visibility 1/2.

MISSED APPROACH:
Climb to 4500 direct ZEBIB and hold.

AWOS-3 118.125	MIDLAND APP CON * 124.6 290.4	CLNC DEL 121.8	UNICOM 122.7 (CTAF) 0
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ELEV 2805	D	TDZE 2801
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CATEGORY	A	B	C	D
LPV DA	3051-7/8	250 (300-7/8)		NA
LNAV/VNAV DA	3071-7/8	270 (300-7/8)		NA
LNAV MDA	3400-1	599 (600-1)		NA
CIRCLING	3400-1	595 (600-1)		NA

MIDLAND, TEXAS
Orig-A 02APR15

32°02'N-102°06'W

RNAV (GPS) RWY 34

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

VORTAC MAF 114.8 Chan 95	APP CRS 239°	Rwy Idg TDZE Apt Elev 5571 2800 2805
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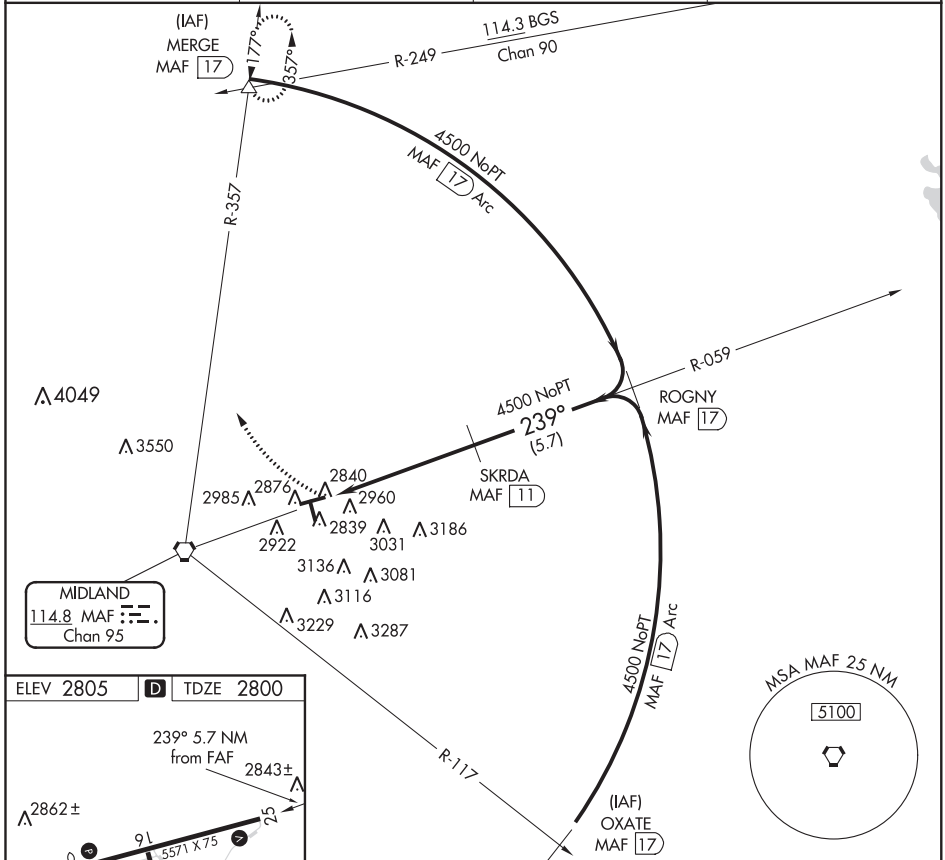
VOR/DME RWY 25

MIDLAND AIRPARK (MDD)

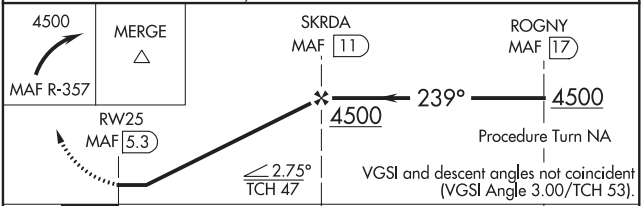
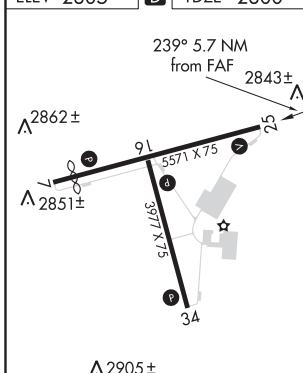
NA When local altimeter setting not received, use Midland Intl altimeter setting and increase all MDA 40 feet, increase S-25 Cat C/D and Circling Cat C visibility 1/8 mile. Helicopter visibility reduction below 1 SM NA.

MISSED APPROACH: Climbing right turn to 4500 via MAF R-357 to MERGE Int/17 DME and hold.

AWOS-3 118.125	MIDLAND APP CON * 124.6 290.4	CLNC DEL 121.8	UNICOM 122.7 (CTAF) 0
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ELEV 2805	D TDZE 2800
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CATEGORY	A	B	C	D
S-25	3400-1	600 (600-1)	3400-1¾	600 (600-1¾)
CIRCLING	3400-1	595 (600-1)	3400-1¾	3700-3 895 (900-3)

MIRL Rwy 7-25 and 16-34 **0**
MIDLAND, TEXAS
Amdt 3C 02APR15

32°02'N-102°06'W
321

VOR/DME RWY 25

MIDLAND AIRPARK (MDD)

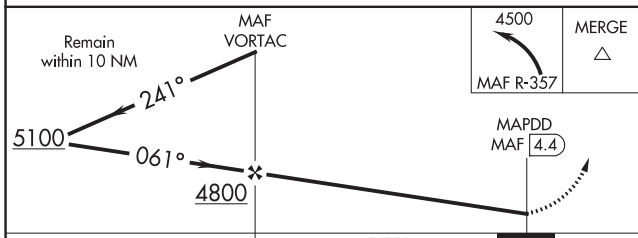
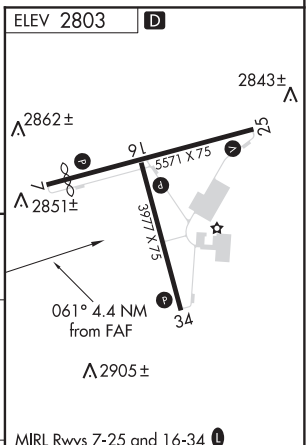
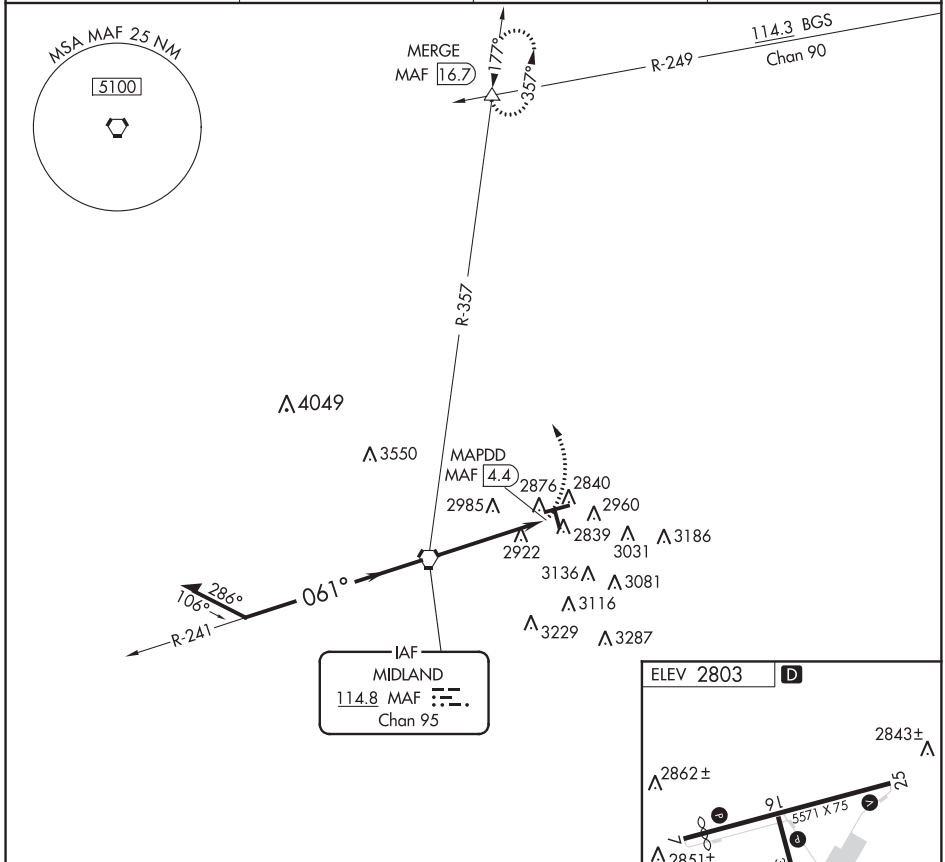
SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

VORTAC MAF 114.8 Chan 95	APP CRS 061°	Rwy Idg TDZE Apt Elev N/A N/A 2803
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VOR-A
MIDLAND AIRPARK (MDD)

<p>▼ When local altimeter setting not received, use Midland Intl altimeter setting and increase all MDA 40 feet, and Cat C visibility ¼ mile.</p> <p>▲ NA</p>		<p>MISSED APPROACH: Climbing left turn to 4500 via MAF R-357 to MERGE Int and hold.</p>	
AWOS-3 118.125	MIDLAND APP CON ★ 124.6 290.4	CLNC DEL 121.8	UNICOM 122.7 (CTAF) ①



CATEGORY	A	B	C	D	FAF to MAP 4.4 NM					
CIRCLING	3380-1	577 (600-1)	3380-1½ 577 (600-1½)	3700-3 897 (900-3)	Knots	60	90	120	150	180
					Min:Sec	4:24	2:56	2:12	1:46	1:28

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

WAAS CH 69310 W10A	APP CRS 105°	Rwy Idg TDZE 2869 Apt Elev 2872	8302
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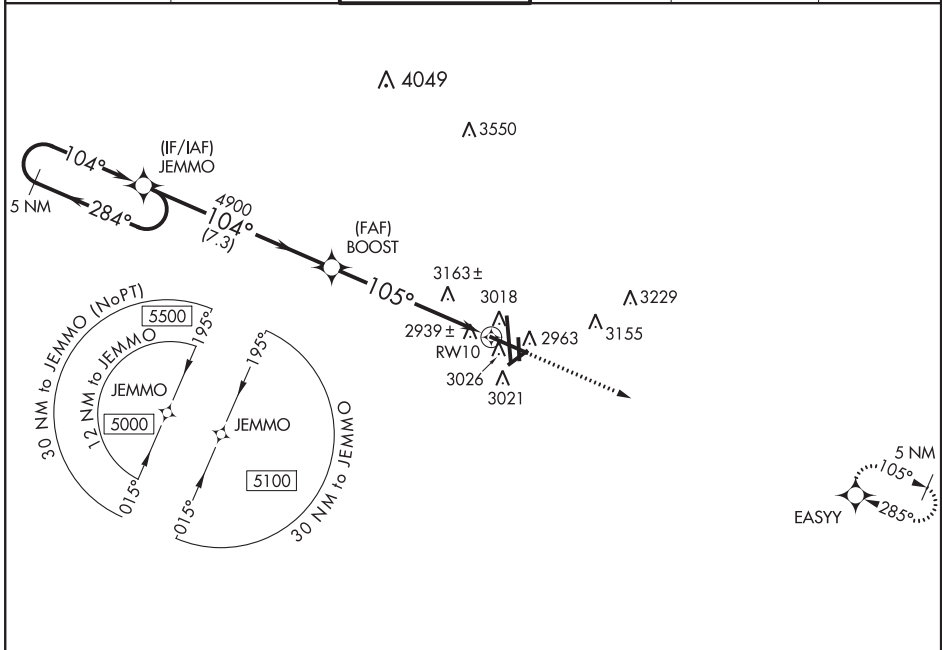
RNAV (GPS) RWY 10

MIDLAND INTL (MAF)

▼ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -11°C (13°F) or above 25°C (77°F). DME/DME RNP-0.3 NA. Circling to Rwy 16L NA at night. For inoperative MALSR, ASR increase LNAV Cats C/D visibility to 1½ miles.

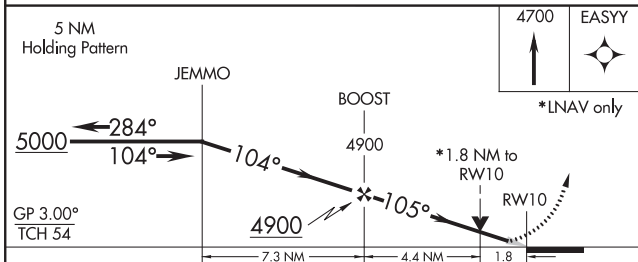
MALSR MISSED APPROACH: Climb to 4700 direct EASY and hold.

ATIS 126.8 235.975	MIDLAND APP CON* 124.6 290.4	MIDLAND TOWER* 118.7 (CTAF) 0 273.45	GND CON 121.9 348.6	CLNC DEL 118.05 317.65	UNICOM 122.95
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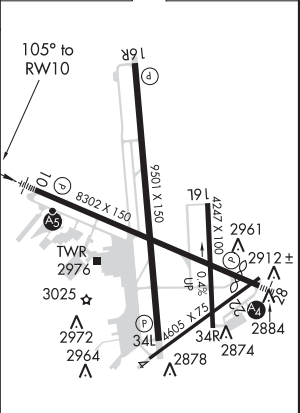


SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017



ELEV 2872	D	TDZE 2869
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CATEGORY	A	B	C	D
LPV DA		3069/24	200 (200-½)	
LNAV/VNAV DA		3394/60	525 (600-1¼)	
LNAV MDA	3480/24	611 (700-½)	3480-1⅓	611 (700-1⅓)
CIRCLING	3480-1	608 (700-1)	3480-1¼ 608 (700-1¼)	3520-2 648 (700-2)

REIL Rwy 34L
MIRL Rwy 4-22 and 16L-34R
HIRL Rwy 10-28 and 16R-34L

MIDLAND, TEXAS

AL-258 (FAA)

15288

WAAS CH 61329 W16A	APP CRS 166°	Rwy Idg TDZE Apt Elev	9501 2872 2872
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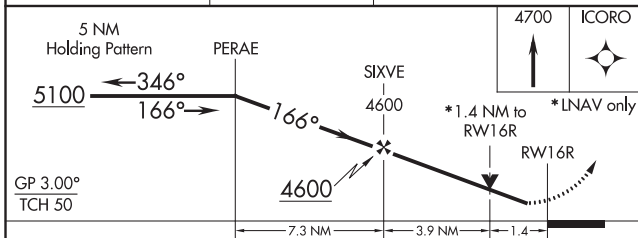
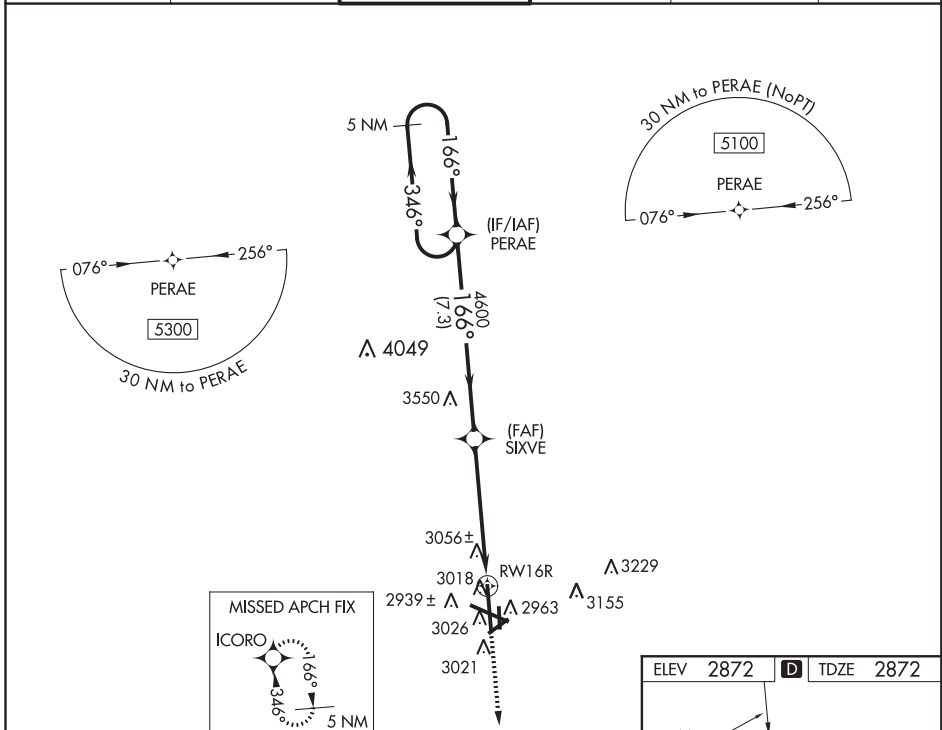
RNAV (GPS) RWY 16R

MIDLAND INTL (M.A.F)

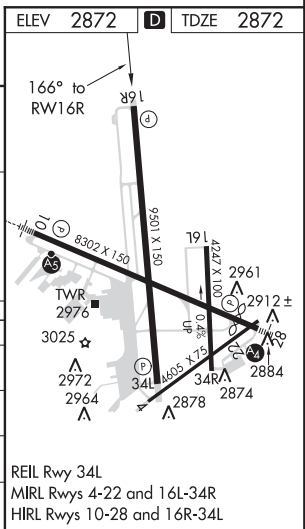
ASR For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -11°C (13°F) or above 25°C (77°F). DME/DME RNP-0.3 NA. Helicopter visibility reduction below ¾ SM NA. Circling Rwy 16L NA at night.

MISSED APPROACH: Climb to 4700 direct ICORO and hold.

ATIS 126.8 235.975	MIDLAND APP CON* 124.6 290.4	MIDLAND TOWER* 118.7 (CTAF) 0273.45	GND CON 121.9 348.6	CLNC DEL 118.05 317.65	UNICOM 122.95
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CATEGORY	A	B	C	D
LPV DA		3072-¾	200 (200-¾)	
LNAV/VNAV DA		3398-1¾	526 (600-1¾)	
LNAV MDA	3360-1	488 (500-1)	3360-1¾	488 (500-1¾)
CIRCLING	3440-1	568 (600-1)	3440-1½	3520-2 648 (700-2)



MIDLAND, TEXAS
Amdt 1A 02APR15

31°57'N-102°12'W

RNAV (GPS) RWY 16R

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

WAAS CH 66029 W34A	APP CRS 346°	Rwy Idg TDZE Apt Elev	9501 2858 2872
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RNAV (GPS) RWY 34L

MIDLAND INTL (MAF)

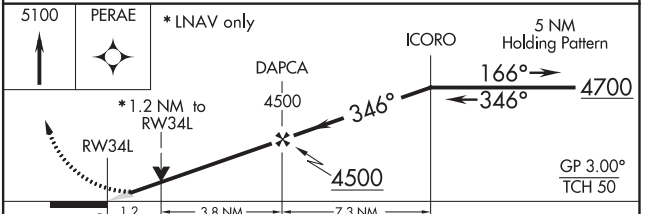
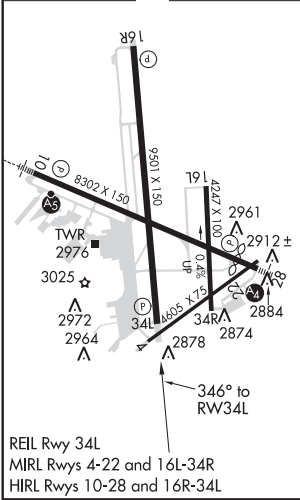
ASR For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -11°C (13°F) or above 26°C (78°F). DME/DME RNP-0.3 NA. Circling to Rwy 16L NA at night.

MISSED APPROACH: Climb to 5100 direct PERAE and hold.

ATIS 126.8 235.975	MIDLAND APP CON* 124.6 290.4	MIDLAND TOWER* 118.7 (CTAF) 0 273.45	GND CON 121.9 348.6	CLNC DEL 118.05 317.65	UNICOM 122.95
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ELEV	2872	D	TDZE	2858
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CATEGORY	A	B	C	D
LPV DA		3058- ³ / ₄	200 (200- ³ / ₄)	
LNAV/VNAV DA		3203-1 ¹ / ₈	345 (400-1 ¹ / ₈)	
LNAV MDA	3280-1	422 (500-1)	3280-1 ¹ / ₄	422 (500-1 ¹ / ₄)
CIRCLING	3440-1	568 (600-1)	3440-1 ¹ / ₂ 568 (600-1 ¹ / ₂)	3520-2 648 (700-2)

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

VORTAC MAF 114.8 Chan 95	APP CRS 183°	Rwy Idg TDZE Apt Elev	9501 2872 2872
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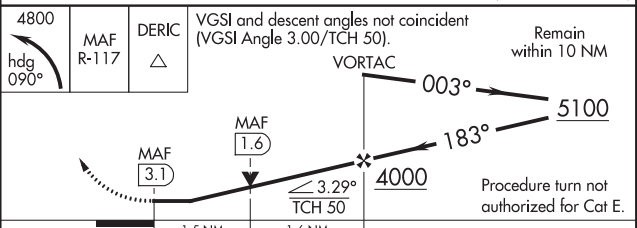
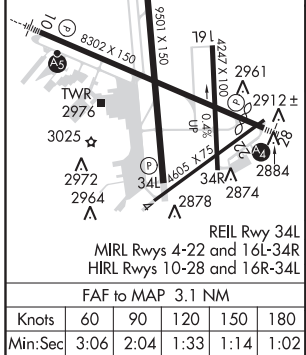
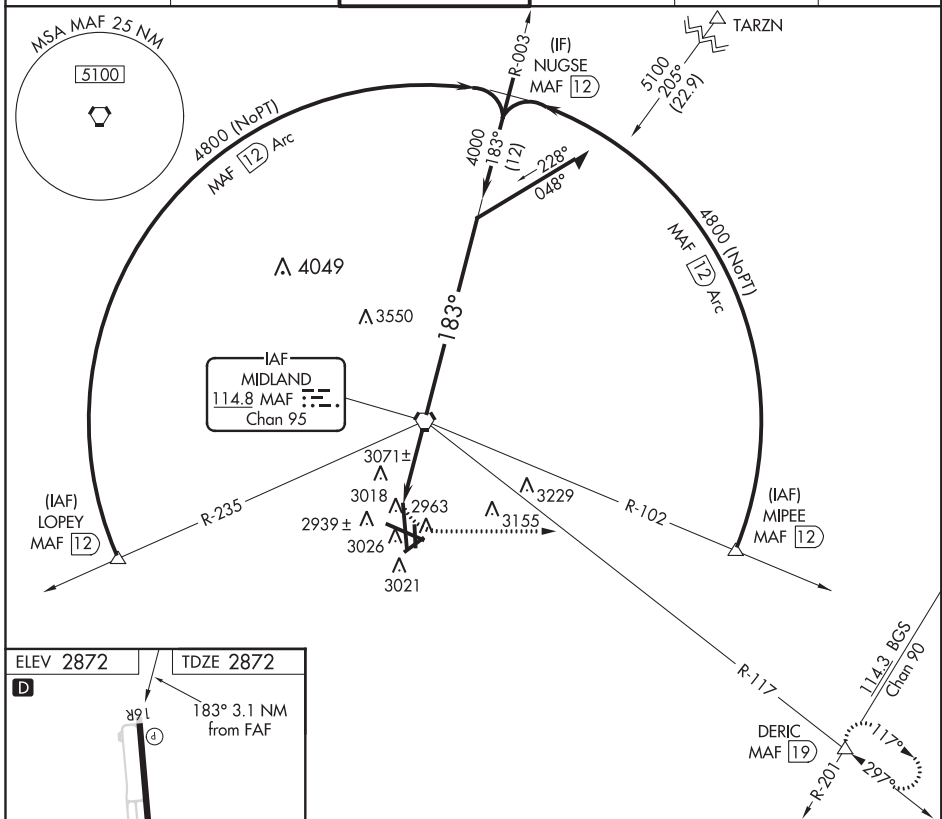
VOR or TACAN RWY 16R

MIDLAND INTL (MAF)

ASR Helicopter visibility reduction below $\frac{3}{4}$ SM NA. Circling to Rwy 16L NA at night.

MISSED APPROACH: Climbing left turn to 4800 on heading 090° and on MAF VORTAC R-117 to DERIC INT/MAF 19 DME and hold.

ATIS 126.8 235.975	MIDLAND APP CON* 124.6 290.4	MIDLAND TOWER* 118.7(CTAF) 0273.45	GND CON 121.9 348.6	CLNC DEL 118.05 317.65	UNICOM 122.95
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CATEGORY	A	B	C	D	E
S-16R	3400-1	528 (600-1)	3400-1½	528 (600-1½)	
CIRCLING	3440-1	568 (600-1)	3440-1½ 568 (600-1½)	3520-2 648 (700-2)	3600-2½ 728 (800-2½)

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

AIRPORT DIAGRAM

AL-258 (FAA)

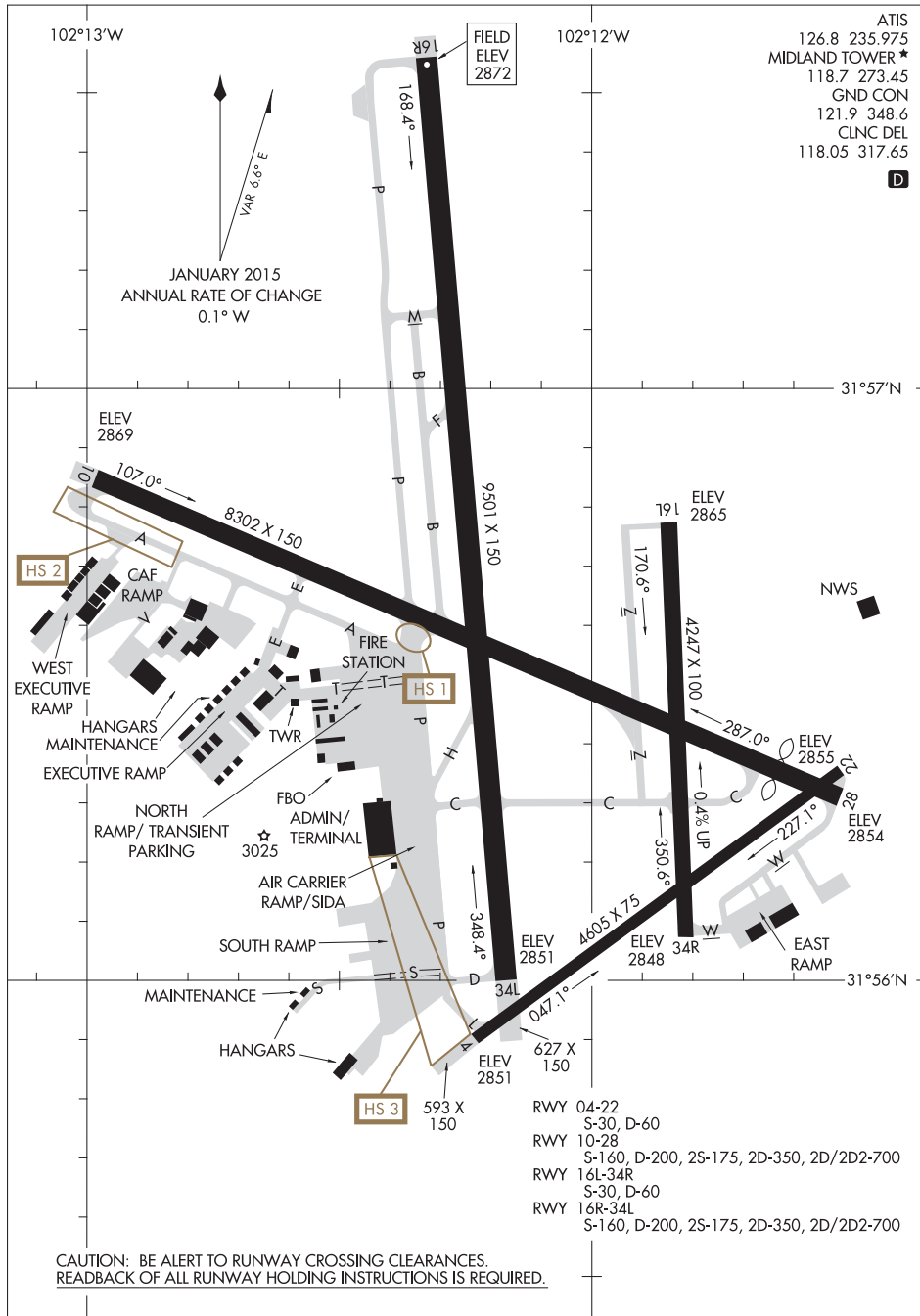
MIDLAND INTL (MAF)
MIDLAND, TEXAS

ATIS 126.8 235.975
 MIDLAND TOWER * 118.7 273.45
 GND CON 121.9 348.6
 CLNC DEL 118.05 317.65

D

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017



AIRPORT DIAGRAM

MIDLAND, TEXAS
MIDLAND INTL (MAF)

WAAS CH 57927 W12A	APP CRS 118°	Rwy Idg TDZE Apt Elev	4268 2609 2615
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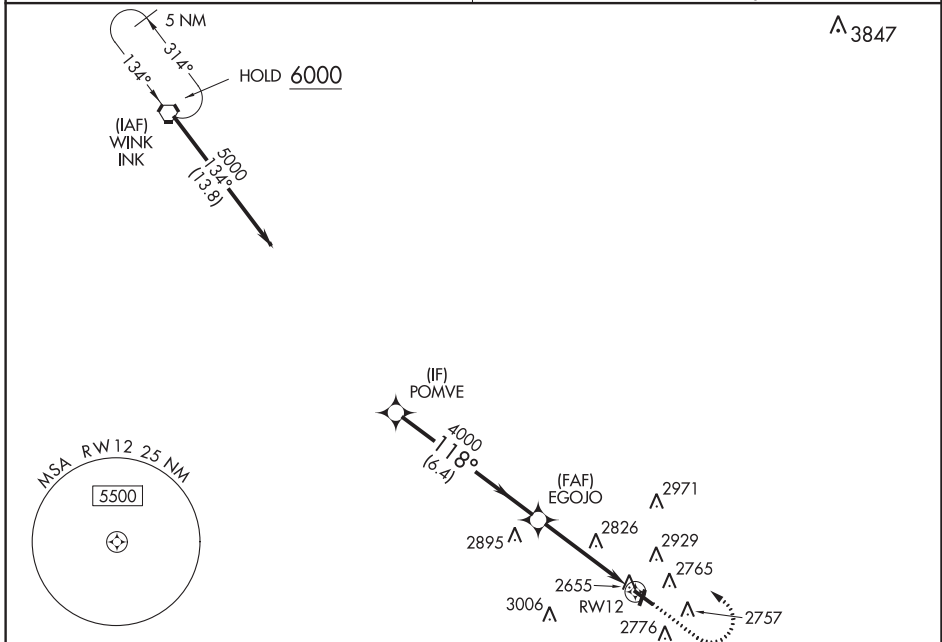
RNAV (GPS) RWY 12

ROY HURD MEMORIAL (E01)

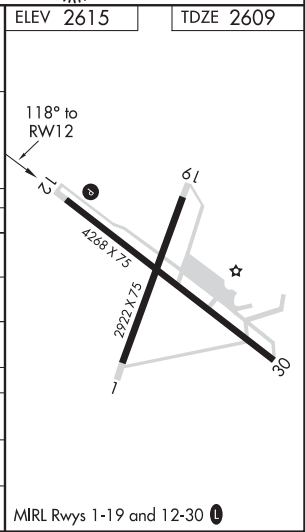
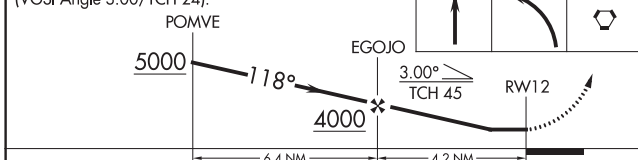
▼ DME/DME RNP-0.30 NA. Obtain local altimeter setting on CTAF; when not received, use Wink altimeter setting. Night landing: Rwy 12 NA. Helicopter visibility reduction below 1 SM NA.

MISSED APPROACH: Climb to 3200 then climbing left turn to 6000 direct INK VORTAC and hold.

FORT WORTH CENTER 133.1 298.95	UNICOM 122.8 (CTAF)
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VGSI and descent angles not coincident (VGSI Angle 3.00/TCH 24).	3200	6000	INK	ELEV 2615	TDZE 2609
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CATEGORY	A	B	C	D
LP MDA	3100-1	491 (500-1)	3100-1 $\frac{1}{8}$ 491 (500-1 $\frac{1}{8}$)	NA
LNAV MDA	3120-1	511 (600-1)	3120-1 $\frac{1}{8}$ 511 (600-1 $\frac{1}{8}$)	NA
CIRCLING	3280-1	665 (700-1)	3280-1 $\frac{1}{4}$ 665 (700-1 $\frac{1}{4}$)	NA
WINK ALTIMETER SETTING MINIMUMS				
LP MDA	3180-1	571 (600-1)	3180-1 $\frac{1}{8}$ 571 (600-1 $\frac{1}{8}$)	NA
LNAV MDA	3200-1	591 (600-1)	3200-1 $\frac{1}{4}$ 591 (600-1 $\frac{1}{4}$)	NA
CIRCLING	3360-1	745 (800-1)	3360-2 $\frac{1}{4}$ 745 (800-2 $\frac{1}{4}$)	NA

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

MONAHANS, TEXAS

AL-6748 (FAA)

15092

WAAS CH 78027 W30A	APP CRS 298°	Rwy Idg TDZE Apt Elev	4268 2613 2615
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RNAV (GPS) RWY 30

ROY HURD MEMORIAL (E01)

⚠ DME/DME RNP-0.3 NA. VDP NA with Wink altimeter setting.
⚠ NA Obtain local altimeter setting on CTAF, when not received, use Wink altimeter setting. Night landing: Rwy 12 NA.
 Helicopter visibility reduction below $\frac{3}{4}$ SM NA.

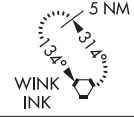
MISSED APPROACH: Climb to 6000 direct WUVNI and on track 308 to INK VORTAC and hold.

FORT WORTH CENTER
133.1 298.95

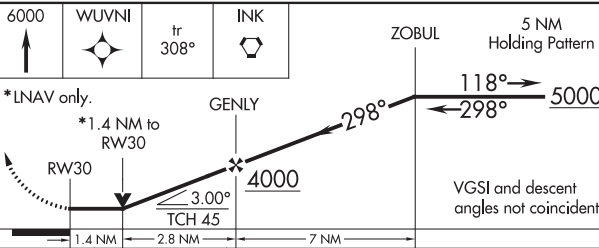
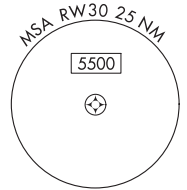
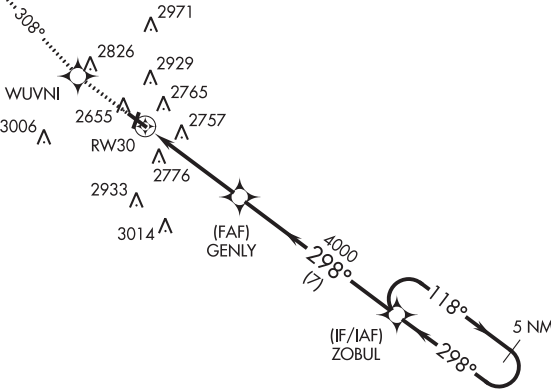
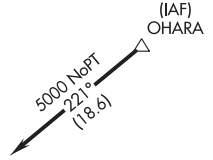
UNICOM
122.8 (CTAF)

MISSED APCH FIX

⚠ 3602

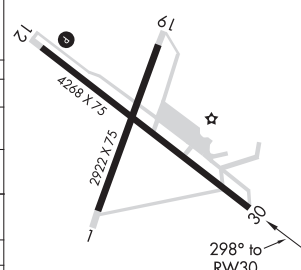


Procedure NA for arrivals at OHARA on V81 northeastbound.



ELEV 2615 | TDZE 2613

CATEGORY	A	B	C	D
LP MDA	3080-1	467 (500-1)	3080-1 $\frac{1}{8}$ 467 (500-1 $\frac{3}{8}$)	NA
RNAV MDA	3100-1	487 (500-1)	3100-1 $\frac{1}{8}$ 487 (500-1 $\frac{3}{8}$)	NA
CIRCLING	3280-1	665 (700-1)	3280-1 $\frac{1}{4}$ 665 (700-1 $\frac{1}{4}$)	NA
WINK ALTIMETER SETTING MINIMUMS				
LP MDA	3160-1	547 (600-1)	3160-1 $\frac{1}{8}$ 547 (600-1 $\frac{1}{8}$)	NA
RNAV MDA	3180-1	567 (600-1)	3180-1 $\frac{1}{8}$ 567 (600-1 $\frac{1}{8}$)	NA
CIRCLING	3360-1	745 (800-1)	3360-2 $\frac{1}{4}$ 745 (800-2 $\frac{1}{4}$)	NA



MIRL Rwy 1-19 and 12-30

MONAHANS, TEXAS
Orig-A 02APR15

31°35' N-102°55' W

ROY HURD MEMORIAL (E01)

RNAV (GPS) RWY 30

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

VORTAC INK 112.1 Chan 58	APP CRS 125°	Rwy Idg TDZE Apt Elev	4268 2609 2615
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VOR/DME RWY 12

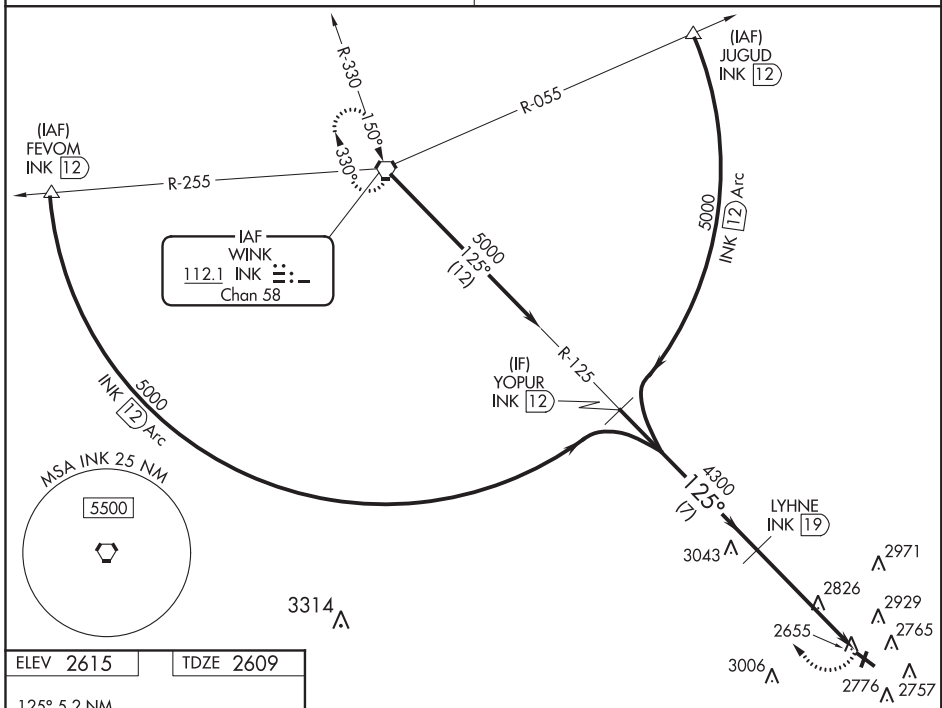
ROY HURD MEMORIAL (E01)

- Obtain local altimeter setting on CTAF; when not received, use Wink altimeter setting.
- NA Night landing: Rwy 12 NA. Helicopter visibility reduction below 1 SM NA.

MISSED APPROACH: Climbing right turn to 5000 direct INK VORTAC and hold.

FORT WORTH CENTER
133.1 298.95

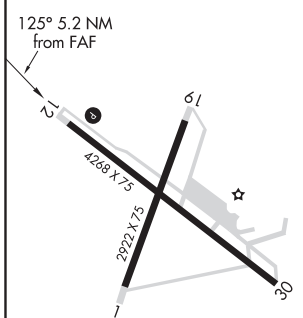
UNICOM
122.8 (CTAF)



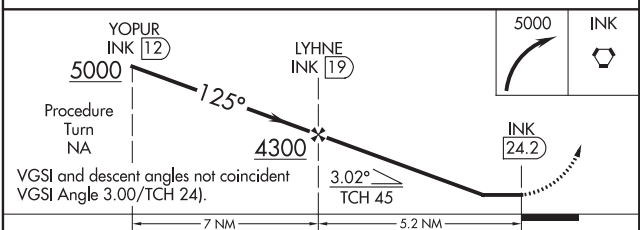
SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

ELEV 2615	TDZE 2609
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MRL Rwy 1-19 and 12-30



CATEGORY	A	B	C	D
S-12	3340-1 731 (800-1)	3340-1¼ 731 (800-1¼)	3340-2 731 (800-2)	NA
CIRCLING	3340-1 725 (800-1)	3340-1¼ 725 (800-1¼)	3340-2 725 (800-2)	NA


WINK ALTIMETER SETTING MINIMUMS				
S-12	3420-1 811 (900-1)	3420-1¼ 811 (900-1¼)	3420-2½ 811 (900-2½)	NA
CIRCLING	3420-1 805 (900-1)	3420-1¼ 805 (900-1¼)	3420-2½ 805 (900-2½)	NA

WAAS CH 82435 W13A	APP CRS 128°	Rwy Idg TDZE Apt Elev	6503 658 658
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RNAV (GPS) RWY 13

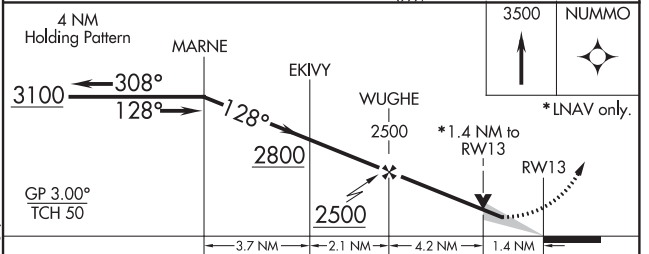
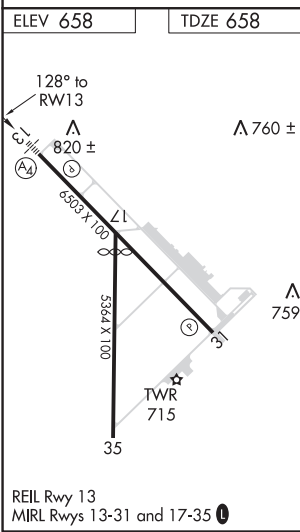
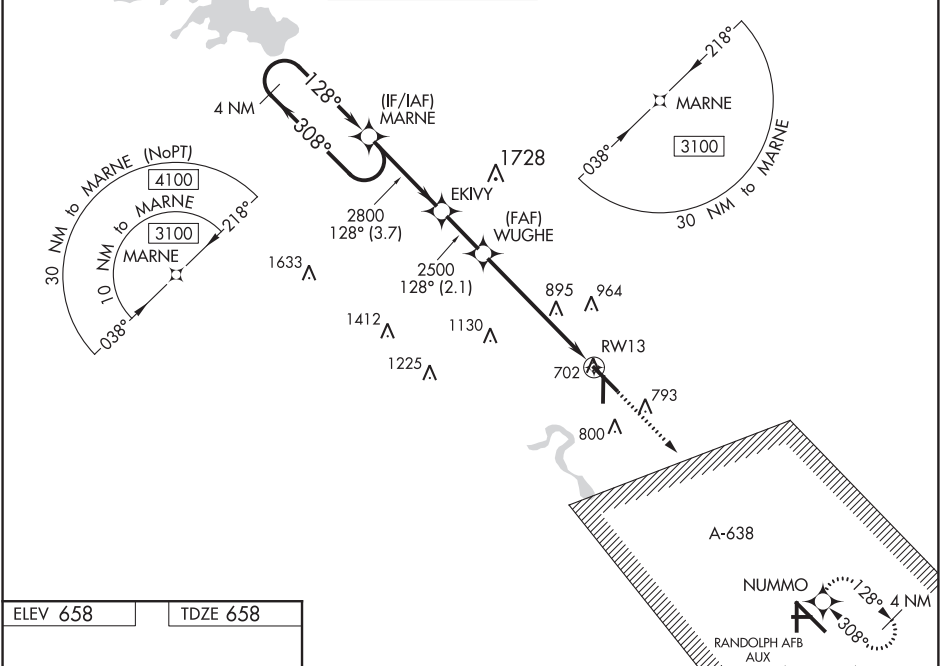
NEW BRAUNFELS RGNL (BAZ)


⚠ DME/DME RNP-0.3 NA. When local altimeter setting not received, use San Marcos altimeter setting and increase all DA 43 feet and all MDA 60 feet, and increase LNAV/VNAV all Cats visibility 1/8 mile, increase Circling Cat C, D visibility 1/4 mile. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -6°C (22°F) or above 54°C (130°F). Baro-VNAV and VDP NA when using San Marcos altimeter setting.

MALS 

MISSED APPROACH: Climb to 3500 direct NUMMO and hold, continue climb-in-hold to 3500.

ATIS 119.325	SAN ANTONIO APP CON 124.45 335.625	NEW BRAUNFELS TOWER * 127.05 285.4	GND CON 120.175	CLNC DEL 134.75	UNICOM 122.7	CTAF 127.05 
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CATEGORY	A	B	C	D
LPV DA		908-3/4	250 (300-3/4)	
LNAV/VNAV DA		1039-1 1/4	381 (400-1 1/4)	
LNAV MDA	1160-1	502 (600-1)	1160-1 3/8	502 (600-1 3/8)
 CIRCLING	1160-1 502 (600-1)	1240-1 582 (600-1)	1280-1 3/4 622 (700-1 3/4)	1320-2 662 (700-2)

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

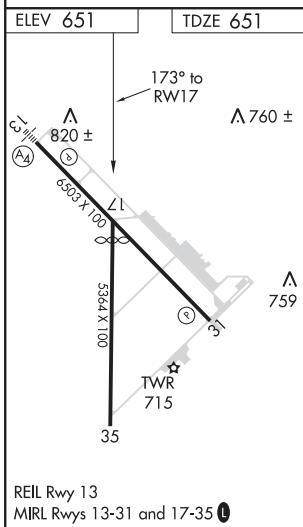
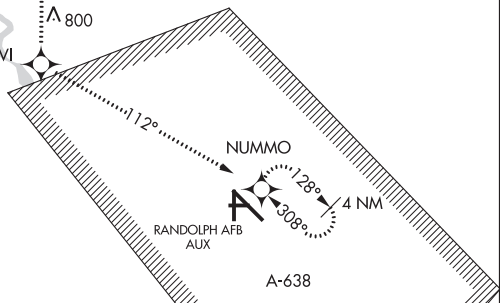
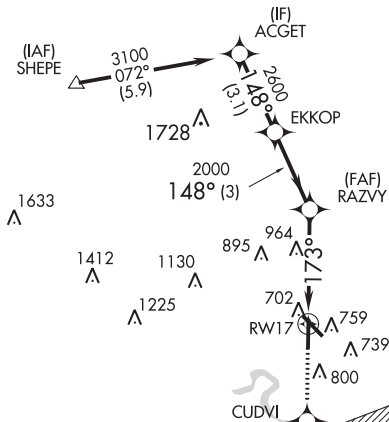
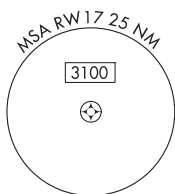
APP CRS	Rwy Idg	4842
173°	TDZE	651
	Apt Elev	651

RNAV (GPS) RWY 17

NEW BRAUNFELS RGNL (BAZ)

<p>When local altimeter setting not received, use San Marcos Muni altimeter setting and increase all MDAs 60 feet, increase LNAV and circling visibility Cats C and D ¼ mile. VDP NA when using San Marcos Muni altimeter setting. DME/DME RNP-0.3 NA.</p>	<p>MISSED APPROACH: Climb to 3500 direct CUDVI and via 112° track to NUMMO and hold, continue climb-in-hold to 3500.</p>					
	<p>ATIS</p> <p>119.325</p>	<p>SAN ANTONIO APP CON</p> <p>124.45 335.625</p>	<p>NEW BRAUNFELS TOWER ★</p> <p>127.05 285.4</p>	<p>GND CON</p> <p>120.175</p>	<p>CLNC DEL</p> <p>134.75</p>	<p>UNICOM</p> <p>122.7</p>	CTAF 127.05

Procedure NA for arrivals at SHEPE via V17 southwest bound.



3500	CUDVI	tr 112°	NUMMO	ACGET
				EKKOP
				3100
				Procedure Turn NA
				2600
				2000
				173°
				148°
				1.6 NM
				2.5 NM
				3 NM
				3.1 NM
CATEGORY	A	B	C	D
LNAV MDA	1220-1	569 (600-1)	1220-1½ 569 (600-1½)	1220-1¾ 569 (600-1¾)
CIRCLING	1220-1	569 (600-1)	1280-1¾ 629 (700-1¾)	1280-2 629 (700-2)

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

WAAS CH 93900 W35A	APP CRS 353°	Rwy Idg TDZE Apt Elev	5364 650 651
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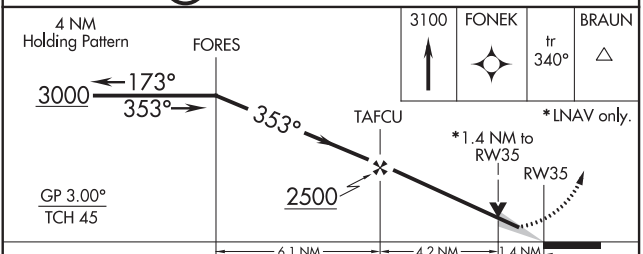
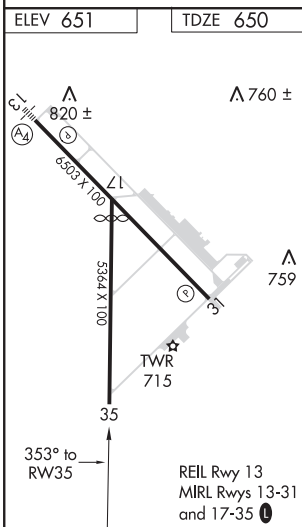
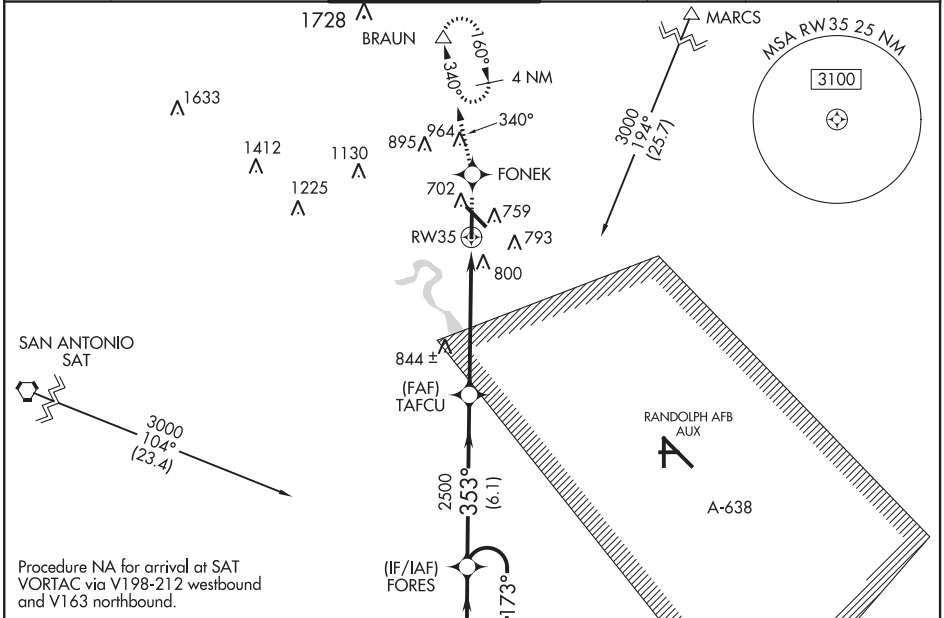
RNAV (GPS) RWY 35

NEW BRAUNFELS RGNL (B.A.Z)

▼ When local altimeter setting not received, use San Marcos Muni altimeter setting and increase all DAs 42 feet LPV visibility 1/4 all Cats, increase all MDAs 60 feet LNAV and Circling visibility Cat C and D 1/4. VDP and Baro-VNAV NA when using San Marcos Muni altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -1.6°C (4°F) or above 47°C (116°F). DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 3100 direct FONEK and via 340° track to BRAUN and hold, continue climb-in-hold to 3100.

ATIS 119.325	SAN ANTONIO APP CON 124.45 335.625	NEW BRAUNFELS TOWER * 127.05 285.4	GND CON 120.175	CLNC DEL 134.75	UNICOM 122.7	CTAF 127.05 ①
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CATEGORY	A	B	C	D
LPV DA	929-1		279 (300-1)	
LNAV/VNAV DA	1110-1 ³ / ₄		460 (500-1 ³ / ₄)	
LNAV MDA	1140-1	490 (500-1)	1140-1 ¹ / ₄ 490 (500-1 ¹ / ₄)	1140-1 ¹ / ₂ 490 (500-1 ¹ / ₂)
CIRCLING	1140-1	489 (500-1)	1280-1 ³ / ₄ 629 (700-1 ³ / ₄)	1280-2 629 (700-2)

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

NEW BRAUNFELS, TEXAS

AL-6080 (FAA)

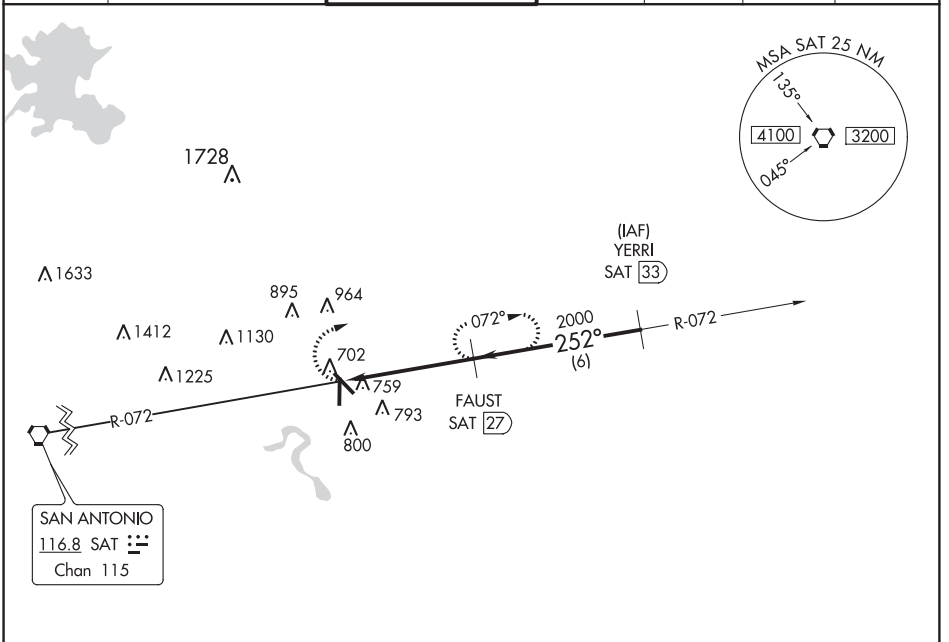
16091

VORTAC SAT 116.8 Chan 115	APP CRS 252°	Rwy Idg TDZE Apt Elev	N/A N/A 649
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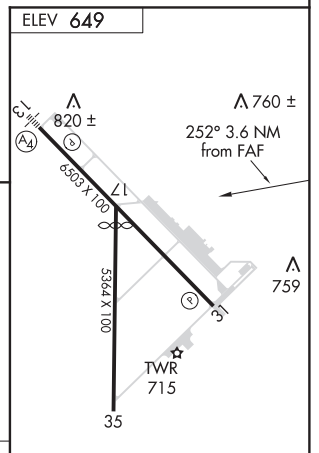
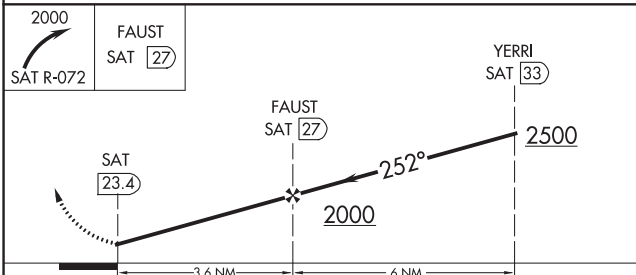
VOR/DME-A
NEW BRAUNFELS RGNL (B.A.Z)

MISSED APPROACH: Climbing right turn to 2000 via SAT R-072 to FAUST/SAT 27 DME and hold.

ATIS 119.325	SAN ANTONIO APP CON 124.45 335.625	NEW BRAUNFELS TOWER * 127.05 285.4	GND CON 120.175	CLNC DEL 134.75	UNICOM 122.7	CTAF 127.05
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RADAR REQUIRED



CATEGORY	A	B	C	D
CIRCLING	1140-1 491 (500-1)	1140-1¼ 491 (500-1¼)	1280-1¾ 631 (700-1¾)	1280-2 631 (700-2)

REIL Rwy 13
MIRL Rwy 13-31 and 17-35

NEW BRAUNFELS, TEXAS
Orig 23APR98

29°42'N-98°02'W

NEW BRAUNFELS RGNL (B.A.Z)
VOR/DME-A

SC-3, 10 NOV 2016 to 05 JAN 2017

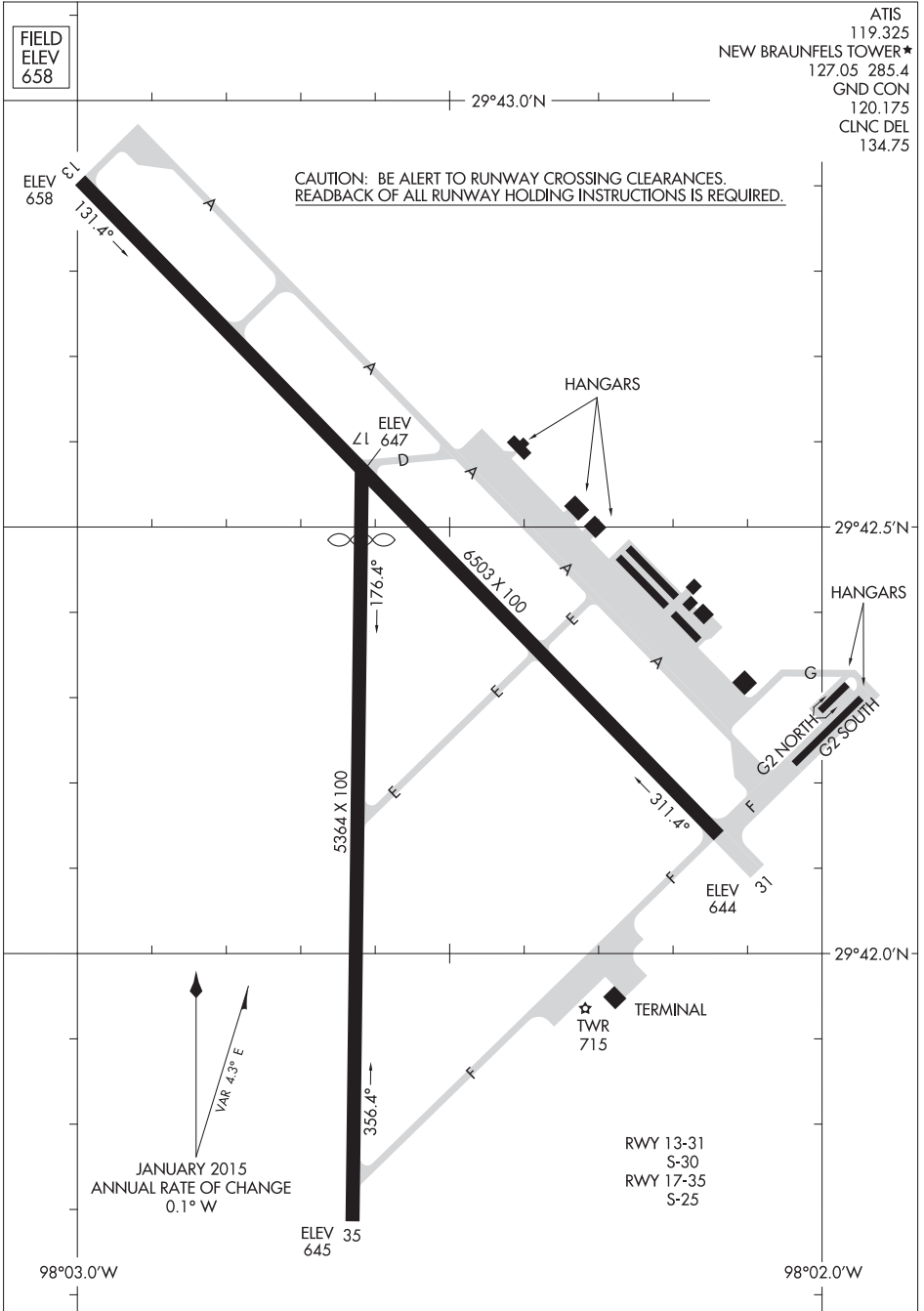
SC-3, 10 NOV 2016 to 05 JAN 2017

16091
AIRPORT DIAGRAM

AL-6080 (FAA)

NEW BRAUNFELS RGNL (BAZ)
 NEW BRAUNFELS, TEXAS

ATIS 119.325
 NEW BRAUNFELS TOWER★ 127.05 285.4
 GND CON 120.175
 CLNC DEL 134.75



SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

16091
AIRPORT DIAGRAM

NEW BRAUNFELS, TEXAS
NEW BRAUNFELS RGNL (BAZ)

SETZR ONE DEPARTURE (RNAV)

SL-6080 (FAA)

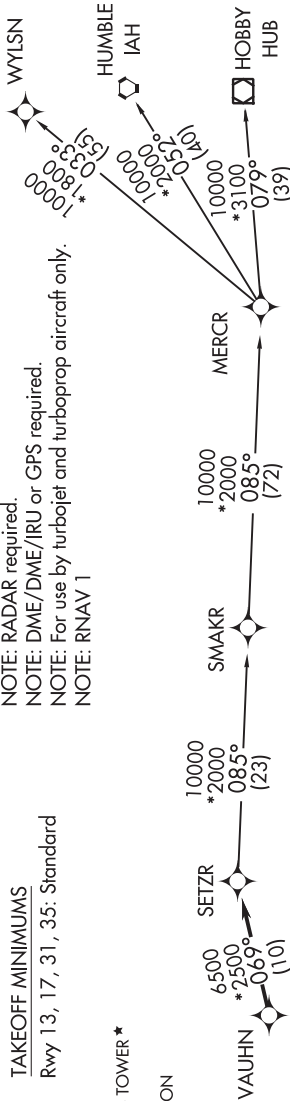
NEW BRAUNFELS, TEXAS

2.10Z NATJ 01.91.0Z AON 01. 'C-C

ATIS 119.325
CLNC DEL 134.75
GND CON 120.175
NEW BRAUNFELS TOWER * 127.05 285.4
REGIONAL DEP CON 128.05 290.225

TAKEOFF MINIMUMS
Rwy 13, 17, 31, 35: Standard

NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: For use by turbojet and turboprop aircraft only.
NOTE: RNAV 1



TAKEOFF OBSTACLE NOTES

Rwy 13: Poles beginning 1236' from DER, 277' right of centerline, up to 40' AGL/678' MSL.
Poles beginning 1238' from DER, 557' left of centerline, up to 41' AGL/677' MSL.
Trees beginning 1339' from DER, 211' right of centerline, up to 55' AGL/690' MSL.
Rwy 35: Airport visual aid 56' from DER, 25' right of centerline, 3' AGL/649' MSL.

NOTE: Chart not to scale

DEPARTURE ROUTE DESCRIPTION

TAKEOFF Rwy 13: Climb on assigned heading for RADAR vectors to VAUHN, thence ...
TAKEOFF Rwy 17: Climb on assigned heading for RADAR vectors to VAUHN, thence ...
TAKEOFF Rwy 31: Climb on assigned heading for RADAR vectors to VAUHN, thence ...
TAKEOFF Rwy 35: Climb on assigned heading for RADAR vectors to VAUHN, thence ...
... on track 069° to SETZR, then on (transition) maintain 5000 or as assigned by ATC. Expect filed altitude 10 minutes after departure.
HOBBS TRANSITION (SETZR1.HUB)
HUMBLES TRANSITION (SETZR1.IAH)
SMAKR TRANSITION (SETZR1.SMAKR)
WYLSN TRANSITION (SETZR1.WYLSN)

SETZR ONE DEPARTURE (RNAV)

WAAS CH 45618 W11A	APP CRS 113°	Rwy ldg 6200 TDZE 2976 Apt Elev 3004
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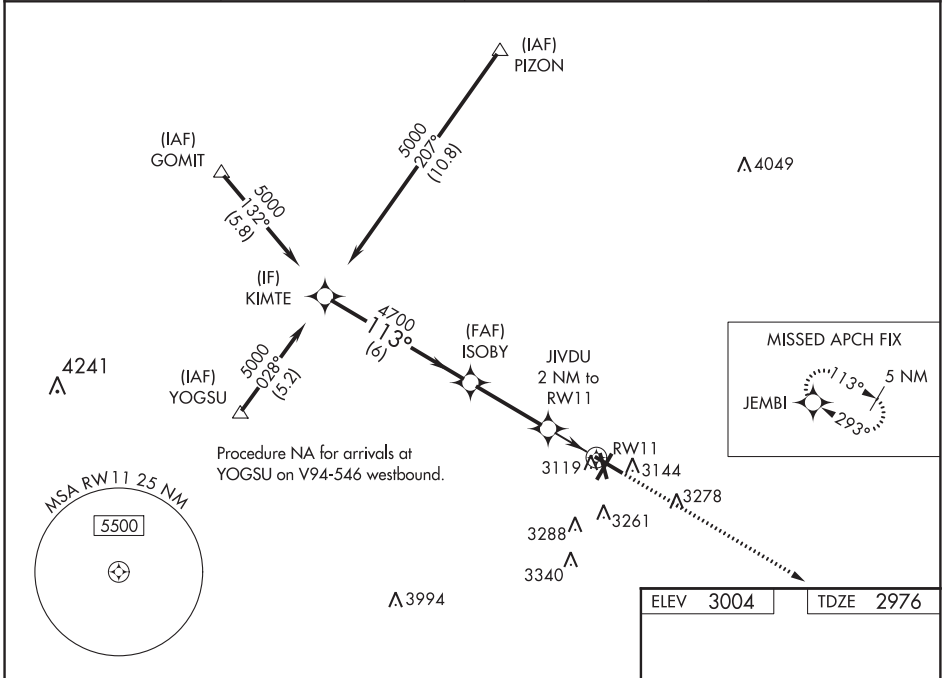
RNAV (GPS) RWY 11

ODESSA-SCHLEMEYER FIELD (ODO)

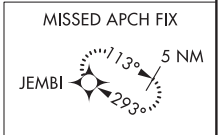
▼ Circling to Rwy 16 and 20 NA at night. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -20°C (-4°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. Circling LNA S of Rws 2 and 34.
▲ When local altimeter setting not received use Midland Intl altimeter setting and increase all DA 41 feet and all MDA 60 feet and increase LNAV/VNAV all Cats visibility 1/8 mile, LNAV Cat C and D and Circling Cat C visibility 1/4 mile. VDP NA with Midland Intl altimeter setting. Baro-VNAV NA when using Midland Intl altimeter setting.

MISSED APPROACH:
Climb to 5000 direct JEMBI and hold.

ASOS 119.275	MIDLAND APP CON ★ 124.6 256.875	CLNC DEL 121.7	UNICOM 123.0 (CTAF) ①
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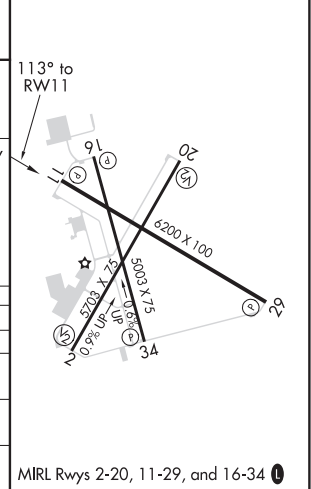


Procedure NA for arrivals at YOGSU on V94-546 westbound.



ELEV 3004	TDZE 2976
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	KIMTE	ISOBY	JIVDU 2 NM to RWY 11	JEMBI
	5000	4700	4700	5000
	GP 3.00° TCH 40	113°	*3640	*LNAV only
	6 NM	3.2 NM	0.8 NM	1.2 NM
CATEGORY	A	B	C	D
LPV DA		3176-3/4	200 (200-3/4)	
LNAV/VNAV DA		3347-1 1/4	371 (400-1 1/4)	
LNAV MDA	3380-1	404 (400-1)	3380-1 1/8	404 (400-1 1/8)
CIRCLING	3460-1	456 (500-1)	3600-1 1/2 596 (600-1 1/2)	3600-2 596 (600-2)



SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

ODESSA, TEXAS

15008

RNAV (GPS) RWY 20

ODESSA-SCHLEMEYER FIELD (ODO)

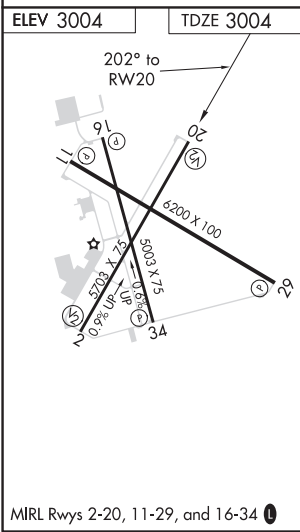
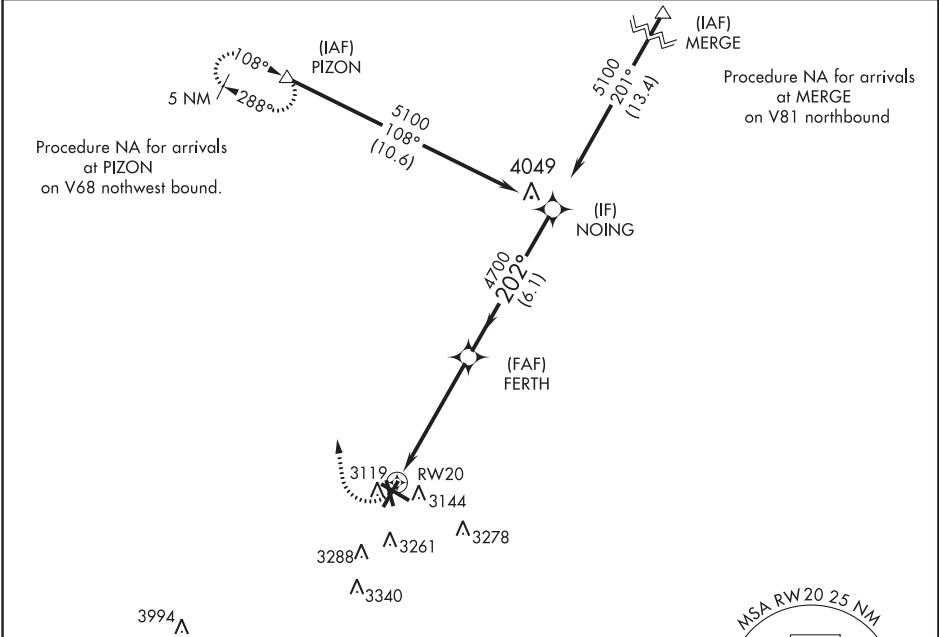
AL-5689 (FAA)

APP CRS 202°	Rwy Idg 5703
	TDZE 3004
	Apt Elev 3004

⚠ Circling NA south of Rws 2 and 34. DME/DME RNP-0.3 NA. When local altimeter setting not received use Midland Intl altimeter setting and increase all MDA 60 feet and increase LNAV Cats C and D visibility ¼ mile. Visibility reduction by helicopters NA.

MISSED APPROACH:
Climbing right turn to 5100 direct PIZON and hold.

ASOS 119.275	MIDLAND APP CON★ 124.6 256.875	CLNC DEL 121.7	UNICOM 123.0 (CTAF) 📞
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5100	PIZON		
	△		
		FERTH	NOING
		4700	5100
		202°	Procedure Turn NA
		3.05° TCH 38	
		5.1 NM	6.1 NM
CATEGORY	A	B	C
LNAV MDA	3460-1	456 (500-1)	3460-1½ 456 (500-1¼)
CIRCLING	3460-1	456 (500-1)	3460-1½ 456 (500-1½)
			3560-2 556 (600-2)

ODESSA, TEXAS
Orig 29JUL10

31° 55'N-102° 23'W

ODESSA-SCHLEMEYER FIELD (ODO)
RNAV (GPS) RWY 20

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

WAAS CH 86318 W29A	APP CRS 293°	Rwy Idg 6200 TDZE 2980 Apt Elev 3004
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AL-5689 (FAA)

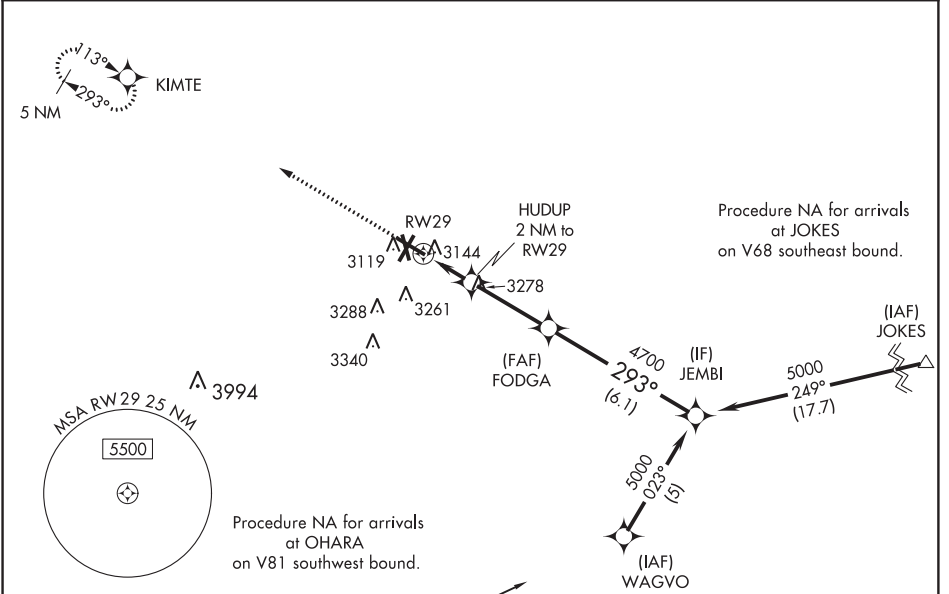
RNAV (GPS) RWY 29

ODESSA-SCHLEMEYER FIELD (ODO)

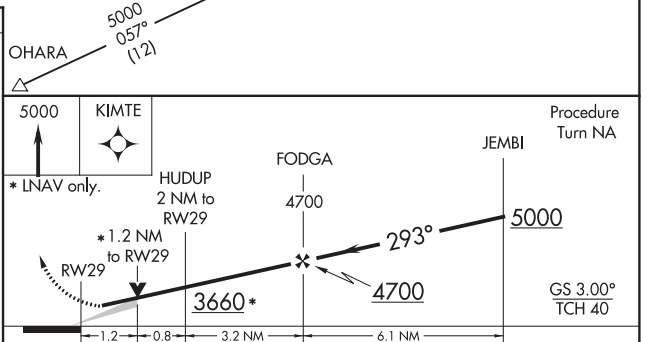
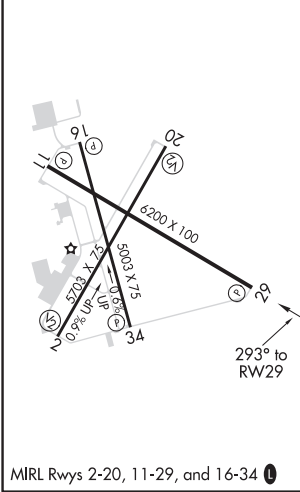
⚠ Baro-VNAV NA when using Midland Intl altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -21°C (-5°F) or above 43°C (109°F) Circling NA south of Rwy 2 and 34.
⚠ DME/DME RNP -0.3 NA. When local altimeter setting not received use Midland Intl altimeter setting and increase all DA 41 feet and all MDA 60 feet and increase LNAV/VNAV all Cats and LNAV Cat D visibility ¼ mile. VDP NA with Midland Intl altimeter setting.

MISSED APPROACH: Climb to 5000 direct KIMTE and hold.

ASOS 119.275	MIDLAND APP CON* 124.6 256.875	CLNC DEL 121.7	UNICOM 123.0 (CTAF) ①
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ELEV 3004	TDZE 2980
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CATEGORY	A	B	C	D
LPV DA	3180-3/4 200 (200-3/4)			
LNAV/VNAV DA	3414-1 1/2 434 (500-1 1/2)			
LNAV MDA	3400-1	420 (500-1)	3400-1 1/4	420 (500-1 1/4)
CIRCLING	3460-1	456 (500-1)	3460-1 1/2	3560-2
			456 (500-1 1/2)	556 (600-2)

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

VORTAC MAF 114.8 Chan 95	APP CRS 231°	Rwy Idg TDZE Apt Elev N/A N/A 3004
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AL-5689 (FAA)

VOR-A

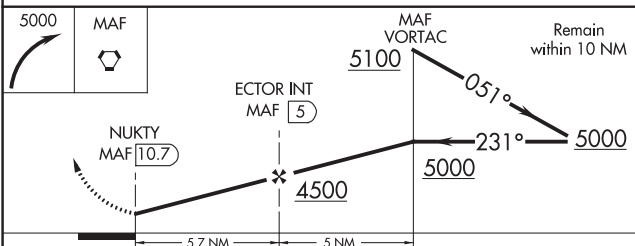
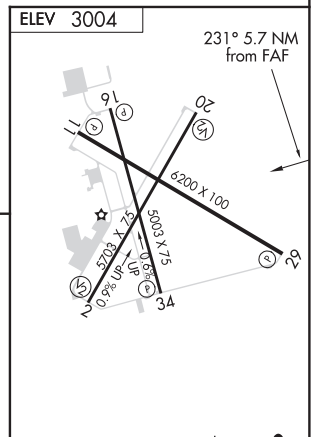
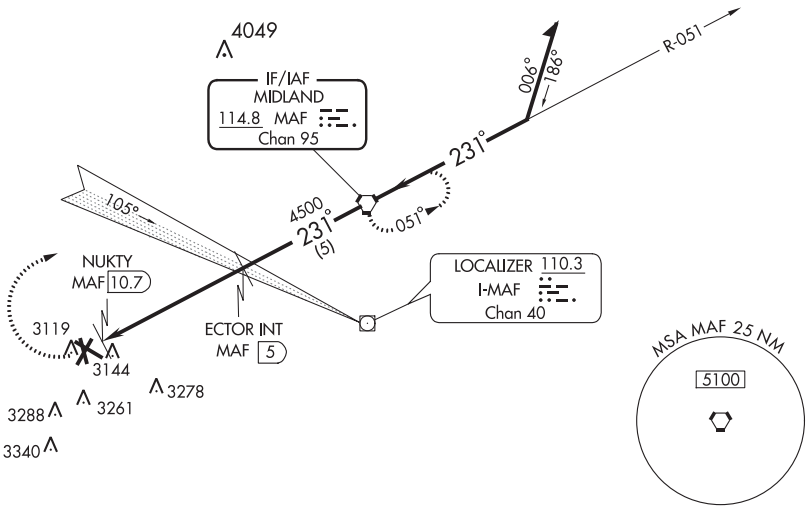
ODESSA-SCHLEMEYER FIELD (ODO)

⚠ Circling NA south of Rwys 2 and 34.
When local altimeter setting not received used Midland Intl altimeter setting and increase all MDA 60 feet.

⚠ MISSED APPROACH: Climbing right turn to 5000 direct MAF VORTAC and hold.

ASOS 119.275	MIDLAND APP CON* 124.6 256.875	CLNC DEL 121.7	UNICOM 123.0 (CTAF) 0
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NoPT for arrival on MAF VORTAC airway radials 357 CW 102.



CATEGORY	A	B	C	D	FAF to MAP 5.7 NM					
CIRCLING	3460-1 456 (500-1)		3460-1½ 456 (500-1½)	3560-2 556 (600-2)	Knots	60	90	120	150	180
					Min:Sec	5:42	3:48	2:51	2:17	1:54

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

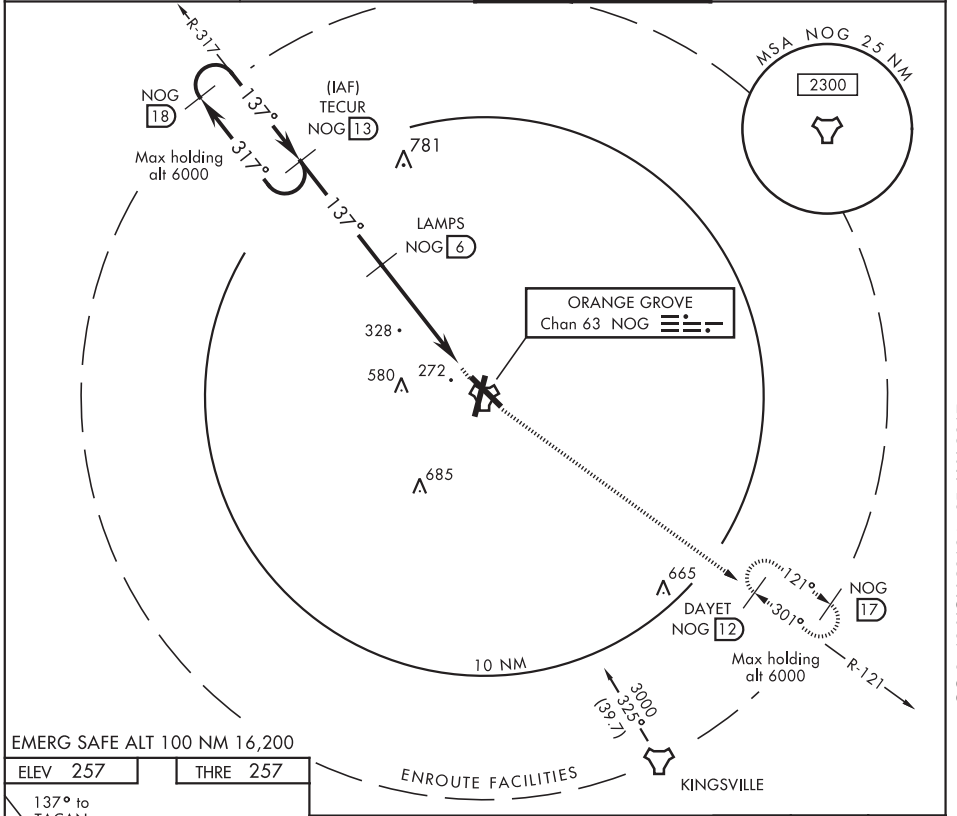
ORANGE GROVE, TEXAS

TACAN RWY 13

TACAN Chan 63	NOG 137°	APCH CRS 137°	Rwy Idg THRE Arprt Elev	8001 257 257	AL-6553 [UN]	ORANGE GROVE NALF (KNOG)
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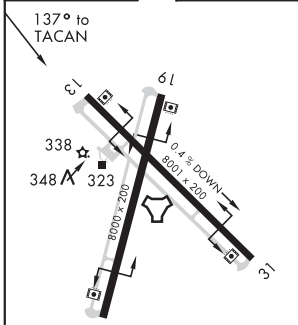
MISSED APPROACH: Climb to 3000 via NOG TACAN R-317 to NOG and NOG R-121 to DAYET and hold.

ATIS ★ 254.35	KINGSVILLE APP CON 119.90 290.45	ORANGE GROVE TOWER ★ 281.425 318.85	GND CON 229.4
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EMERG SAFE ALT 100 NM 16,200

ELEV 257	THRE 257
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MRL all Rwy

	TECUR NOG R-317 3000	LAMPS NOG R-121 3000	DAYET NOG 2000	
	3000	2000	2000	
	137°	137°		
	317°			
	3.04° TCH 50			
		4.8 NM	0.5 NM	
CATEGORY	A	B	C	D
S-13		580-1 323	(400-1)	
CIRCLING	660-1 403 (500-1)	720-1 463 (500-1)	920-1¾ 663 (700-1¾)	1000-2½ 743 (800-2½)

ORANGE GROVE, TEXAS

27°54'N-98°03'W

ORANGE GROVE NALF (KNOG)

TACAN RWY 13

Orig 15OCT15

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

ORANGE GROVE, TEXAS

TACAN RWY 31

TACAN NOG
Chan **63**

APCH CRS
301°

Rwy ldg
THRE **8001**
Arprt Elev **224**

AL-6553 [USN]

ORANGE GROVE NALF (KNOG)

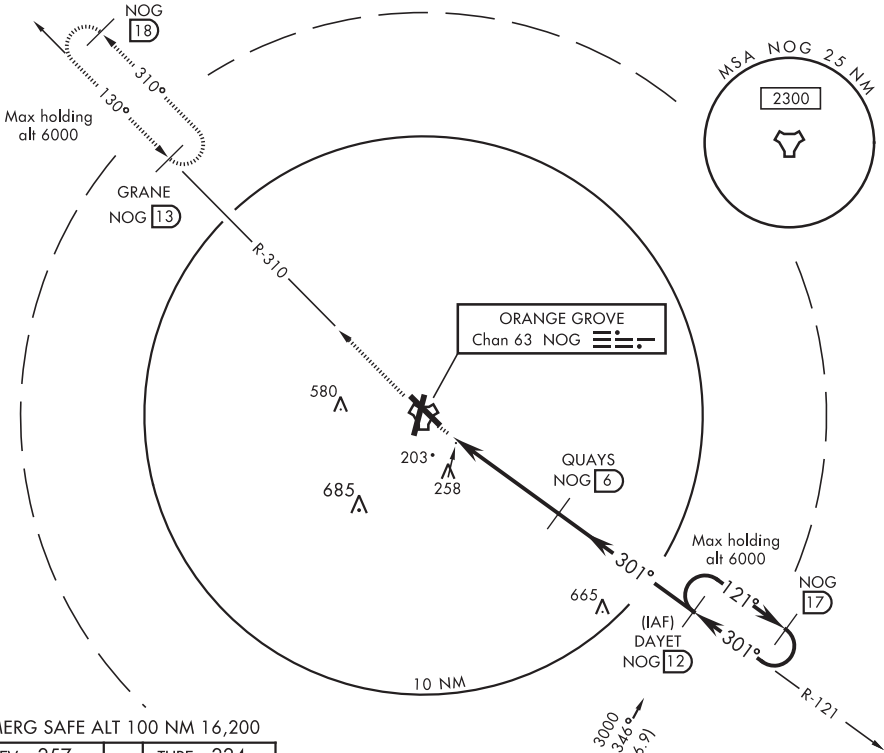
MISSED APPROACH: Climb to 3000 via NOG TACAN R-310 to GRANE and hold.

ATIS ★
254.35

KINGSVILLE APP CON
119.90 290.45

ORANGE GROVE TOWER ★
281.425 318.85

GND CON
229.4

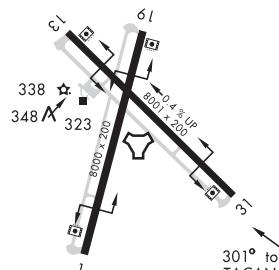


SC-3, 10 NOV 2016 to 05 JAN 2017

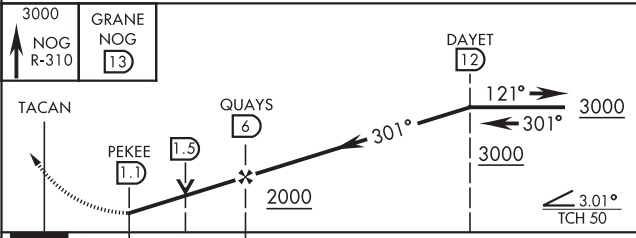
SC-3, 10 NOV 2016 to 05 JAN 2017

EMERG SAFE ALT 100 NM 16,200

ELEV 257 THRE 224



MRL all Rwy



CATEGORY	A	B	C	D
S-31		560-1	336	(400-1)
CIRCLING	660-1 403 (500-1)	720-1 463 (500-1)	920-1¾ 663 (700-1¾)	1000-2½ 743 (800-2½)

ORANGE GROVE, TEXAS
Orig 15OCT15

27°54'N-98°03'W

ORANGE GROVE NALF (KNOG)

TACAN RWY 31

AIRPORT DIAGRAM

AFD-6553 [USN]

ORANGE GROVE NALF (KNOG)

ORANGE GROVE, TEXAS

ATIS ★ 254.35
 ORANGE GROVE TOWER ★
 281.425 318.85
 GND CON
 229.4

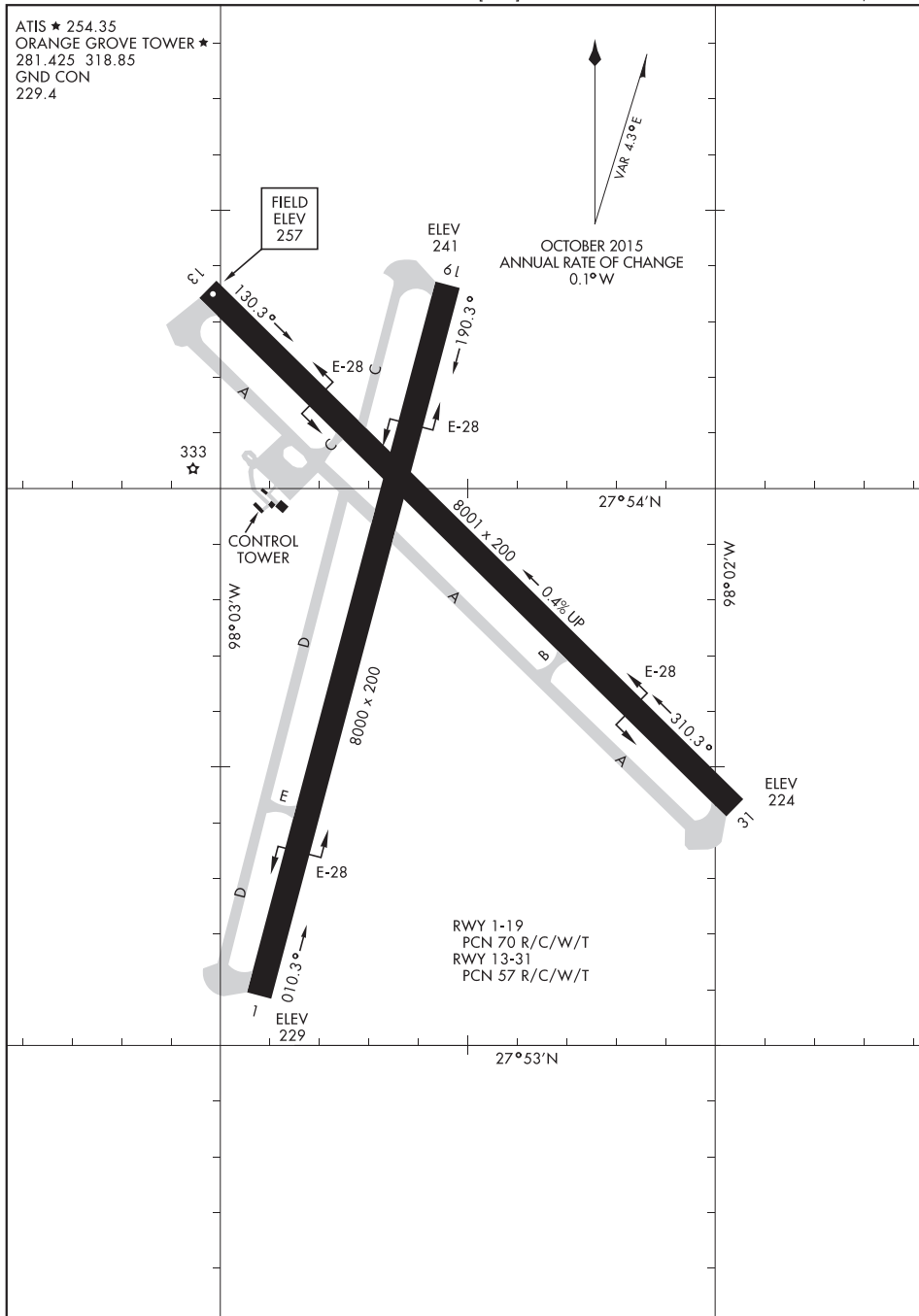
FIELD
 ELEV
 257



OCTOBER 2015
 ANNUAL RATE OF CHANGE
 0.1°W

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017



RWY 1-19
 PCN 70 R/C/W/T
 RWY 13-31
 PCN 57 R/C/W/T

AIRPORT DIAGRAM

ORANGE GROVE, TEXAS
ORANGE GROVE NALF (KNOG)

OZONA, TEXAS

AL-9069 (FAA)

RNAV (GPS) RWY 16

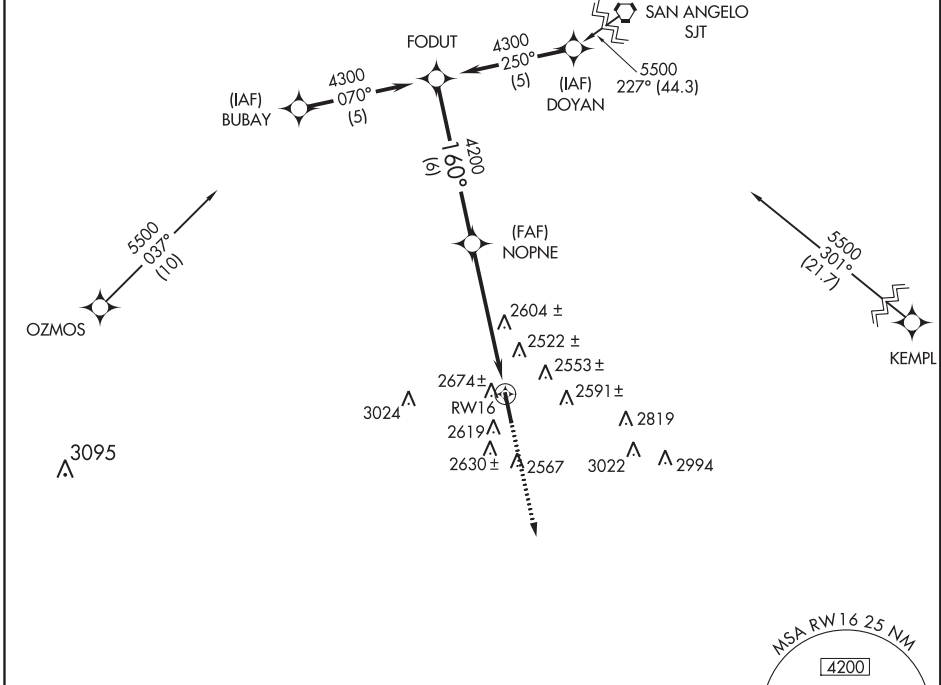
OZONA MUNI (OZA)

APP CRS 160°	Rwy Idg TDZE Apt Elev	6003 2377 2381
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⚠ GPS or RNP-0.3 Required. DME/DME RNP-0.3 NA. Procedure NA at night.
⚠ Obtain local altimeter on CTAF; when not received, use San Angelo altimeter setting.

MISSED APPROACH: Climb to 5000 direct IXALE WP and hold.

AWOS-3PT 118.425	HOUSTON CENTER 125.75 346.4	UNICOM 122.8 (CTAF)
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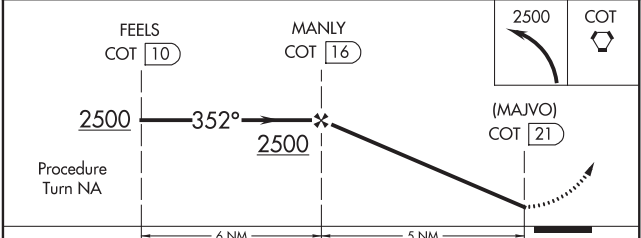
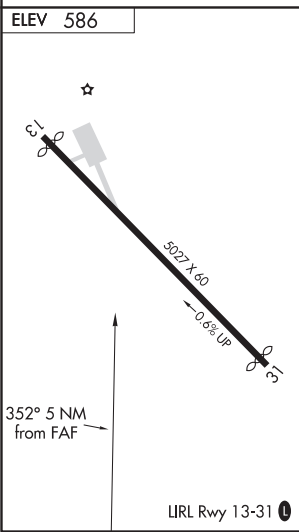
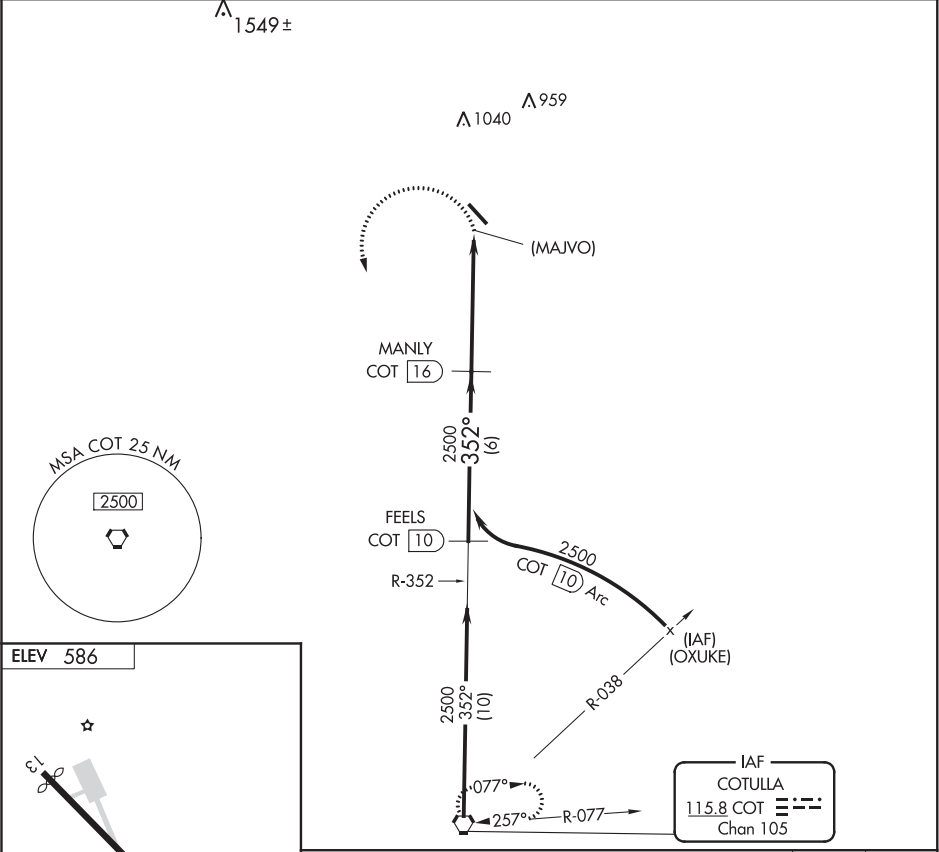
VORTAC COT 115.8 Chan 105	APP CRS 352°	Rwy Idg TDZE Apt Elev	N/A N/A 586
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VOR/DME or GPS-A

PEARSALL/MC KINLEY FIELD (T30)

NA	Use Cotulla altimeter setting.	MISSED APPROACH: Climbing left turn to 2500 direct COT VORTAC and hold.
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HOUSTON CENTER 134.6 322.5	UNICOM 122.8 (CTAF) 1
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CATEGORY	A	B	C	D
CIRCLING	1120-1 534 (600-1)	1120-1¼ 534 (600-1¼)	1120-1½ 534 (600-1½)	NA

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

PECOS, TEXAS

AL-186 (FAA)

15148

WAAS CH 62830 W14A	APP CRS 137°	Rwy Idg TDZE Apt Elev	6236 2608 2613
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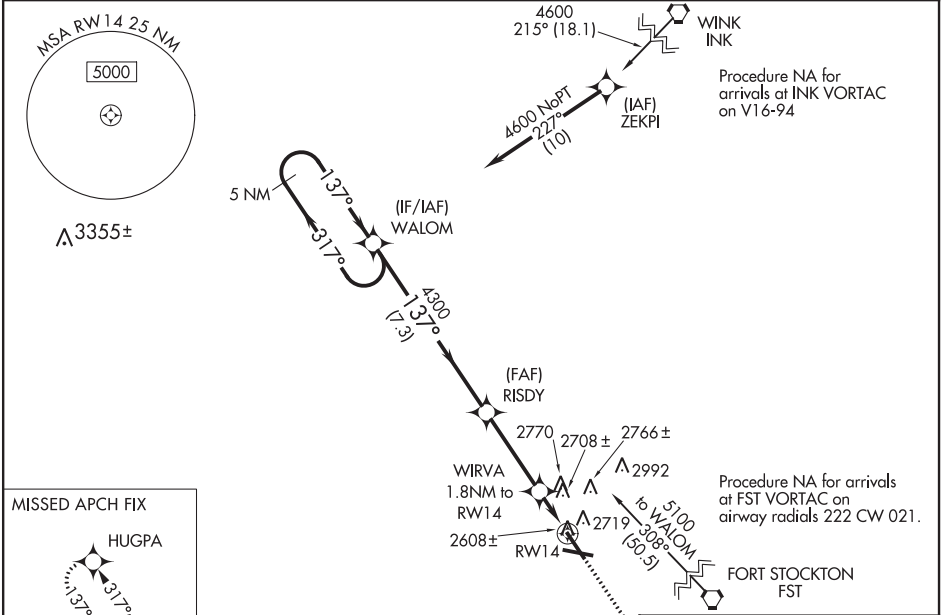
RNAV (GPS) RWY 14

PECOS MUNI (PEQ)

⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -20°C (-4°F) or above 27°C (80°F).
⚠ DME/DME RNP-0.3 NA. VDP and Baro-VNAV NA with Wink altimeter setting. When local altimeter setting not received, use WINK altimeter setting and increase all DA 95 feet and all MDA 100 feet, increase LPV all Cats visibility ¼ mile, LNAV VNAV all Cats visibility ½ mile, LNAV Cat C/D and Circling Cat C visibility ¼ mile. Circling to Rwy 9/27 NA at night.

MISSED APPROACH:
Climb to 4500 direct HUGPA and hold.

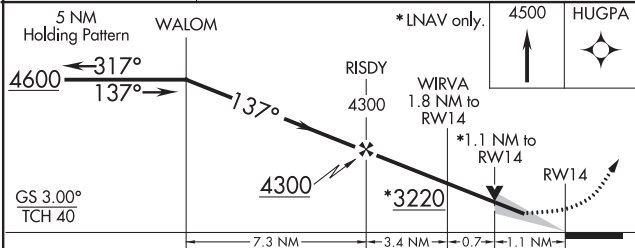
AWOS-3 118.175	ALBUQUERQUE CENTER 135.875 292.15	UNICOM 122.8 (CTAF) 0
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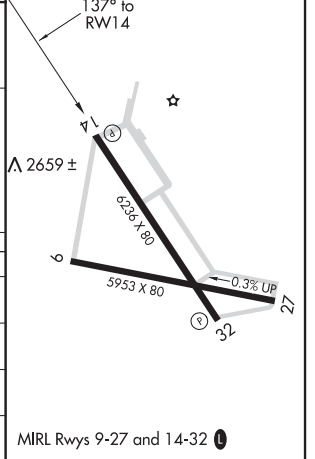
SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

ELEV	2613	TDZE	2608
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CATEGORY	A	B	C	D
LPV DA		2808-¾	200 (200-¾)	
LNAV/VNAV DA		2900-1	292 (300-1)	
LNAV MDA	3000-1	392 (400-1)	3000-1½	392 (400-1½)
CIRCLING	3080-1	467 (500-1)	3120-1½	3180-2
			507 (600-1½)	567 (600-2)



PECOS, TEXAS
Orig-A 24JUL14

31°23'N-103°31'W

PECOS MUNI (PEQ) RNAV (GPS) RWY 14

WAAS CH 69629 W32A	APP CRS 317°	Rwy Idg TDZE Apt Elev	6236 2605 2613
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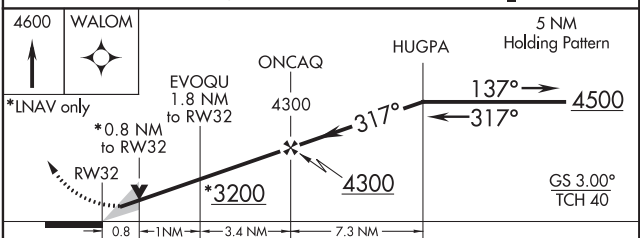
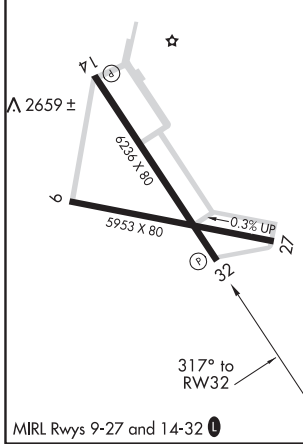
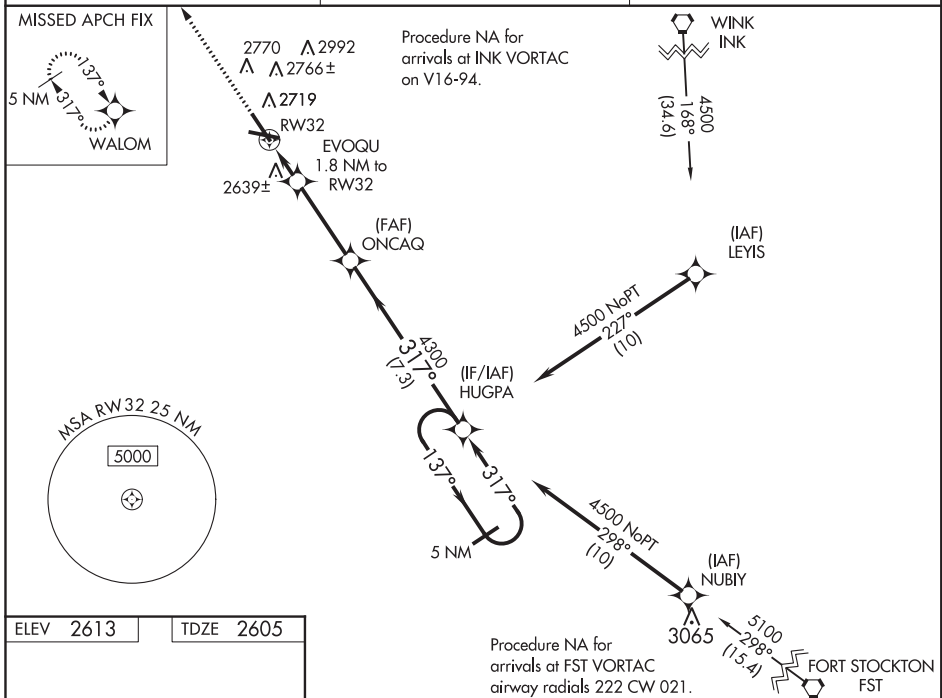
RNAV (GPS) RWY 32

PECOS MUNI (P/E/Q)

⚠ For uncompensated Baro-VNAV systems, procedure NA below -20°C (-4°F) or above 27°C (80°F).
⚠ DME/DME RNP-0.3 NA. VDP and Baro-VNAV when using Wink altimeter setting. When local altimeter setting not received, use Wink altimeter setting and increase all DA 95 feet and all MDA 100 feet, increase LPV all Cats visibility ¼ mile, LNAV/VNAV all Cats visibility ¼ mile, LNAV Cat C/D ¼ mile and Circling Cat C visibility ¼ mile. Circling Rwy 9/27 NA at night.

MISSED APPROACH:
Climb to 4600 direct WALOM and hold.

AWOS-3 118.175	ALBUQUERQUE CENTER 135.875 292.15	UNICOM 122.8 (CTAF) Ⓛ
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CATEGORY	A	B	C	D
LPV DA		2805-¾	200 (200-¾)	
LNAV/VNAV DA		2855-⅞	250 (300-⅞)	
LNAV MDA	2900-1	295 (300-1)	2900-⅞	295 (300-⅞)
CIRCLING	3020-1 407 (500-1)	3080-1 467 (500-1)	3120-1½ 507 (600-1½)	3180-2 567 (600-2)

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

VOR/DME PEQ 111.8 Chan 55	APP CRS 137°	Rwy Idg TDZE Apt Elev 6236 2608 2613
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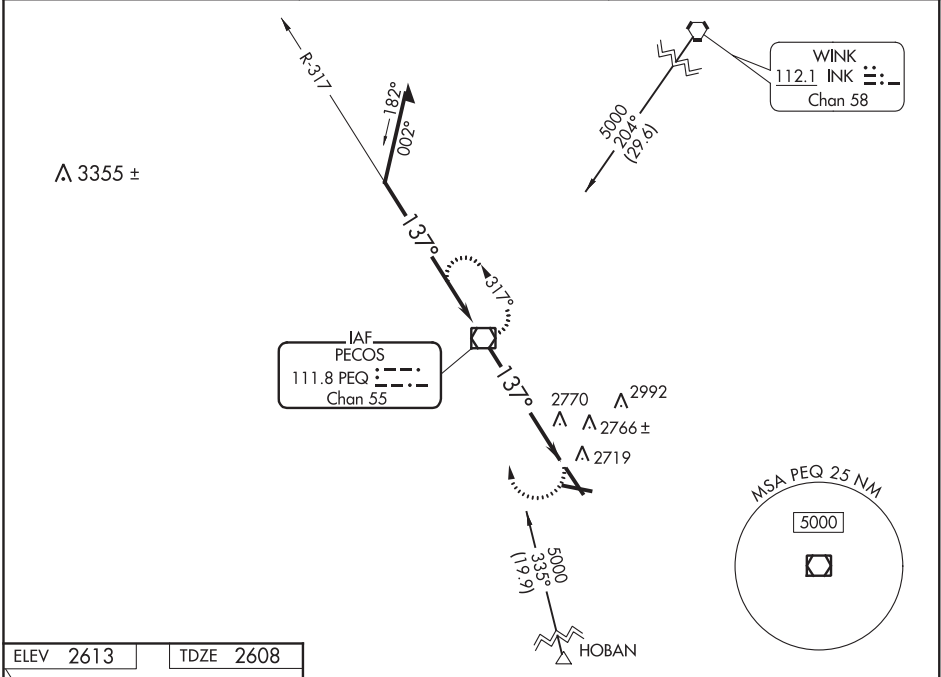
VOR RWY 14

PECOS MUNI (PEQ)

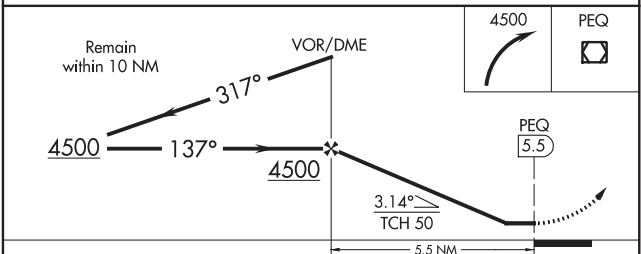
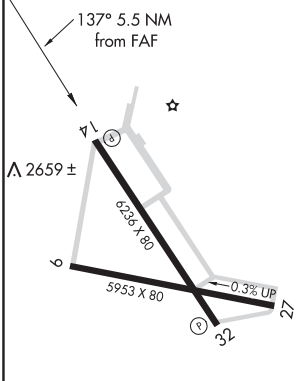
▽ Obtain local altimeter on CTAF; if not received, use Wink altimeter setting.
△ NA If neither received, procedure not authorized.

MISSED APPROACH: Climbing right turn to 4500 direct PEQ VOR/DME and hold.

AWOS-3 118.175	ALBUQUERQUE CENTER 135.875 292.15	UNICOM 122.8 (CTAF) 0
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ELEV 2613	TDZE 2608
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CATEGORY	A	B	C	D
S-14	3080-1	472 (500-1)	3080-1¼ 472 (500-1¼)	3080-1½ 472 (500-1½)
CIRCLING	3080-1	467 (500-1)	3120-1½ 507 (600-1½)	3180-2 567 (600-2)
WINK ALTIMETER SETTING MINIMUMS				
S-14	3180-1	572 (600-1)	3180-1½ 572 (600-1½)	3180-1¾ 572 (600-1¾)
CIRCLING	3180-1	567 (600-1)	3220-1¾ 607 (700-1¾)	3240-2 627 (700-2)

MRL Rwy 9-27 and 14-32 0					
FAF to MAP 5.5 NM					
Knots	60	90	120	150	180
Min:Sec	5:30	3:40	2:45	2:12	1:50

PECOS, TEXAS
Amdt 7C 06JUL06

31°23' N-103°31' W

PECOS MUNI (PEQ)

VOR RWY 14

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

APP CRS 337°	Rwy Idg 4000 TDZE 425 Apt Elev 430
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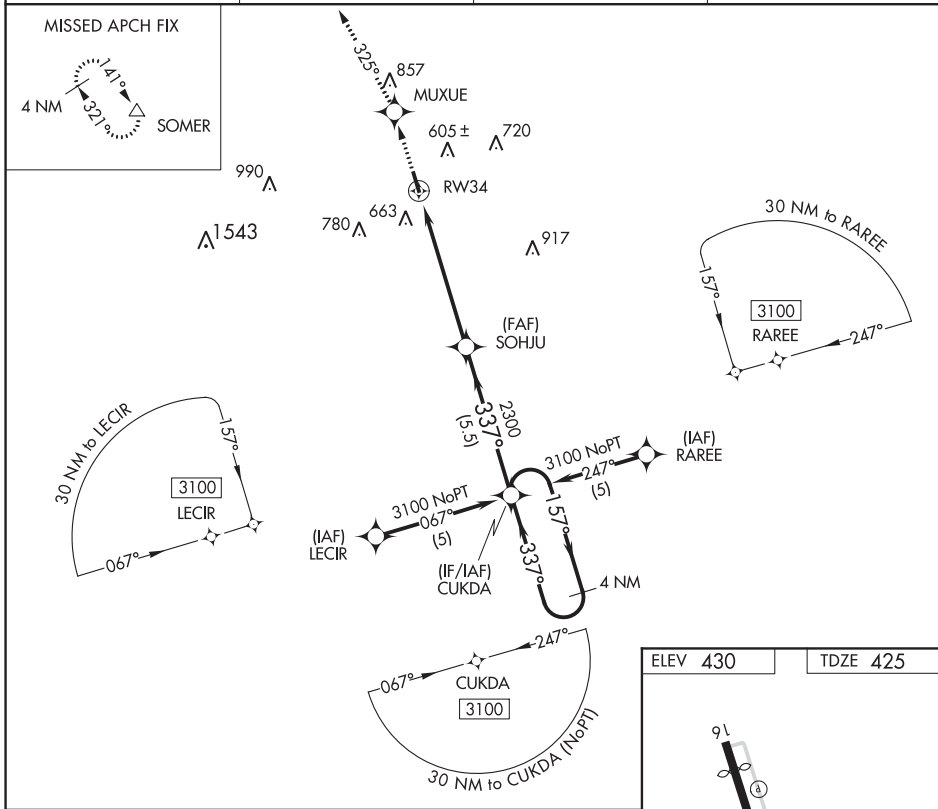
RNAV (GPS) RWY 34

PLEASANTON MUNI (P/E/Z)

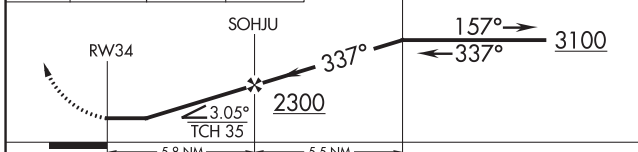
⚠ DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.
⚠ When local altimeter setting not received, use Kelly Fld altimeter setting and increase all MDA 100 feet.

MISSED APPROACH: Climb to 3000 direct MUXUE and via 325° track to SOMER and hold.

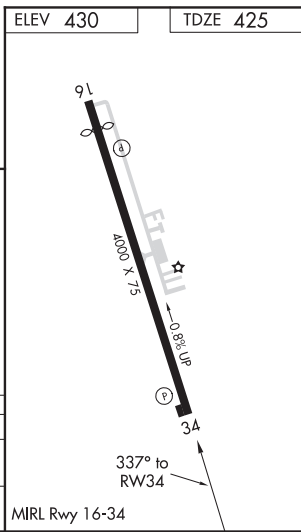
AWOS-3 118.575	SAN ANTONIO APP CON 118.05 353.5	CLNC DEL 126.55	UNICOM 122.7 (CTAF)
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3000	MUXUE	SOMER
↑	✧	△
	325° TRK	



CATEGORY	A	B	C	D
LNVA MDA	960-1	535 (600-1)	NA	
CIRCLING	1020-1	590 (600-1)	NA	



SC-3, 10 NOV 2016 to 05 JAN 2017

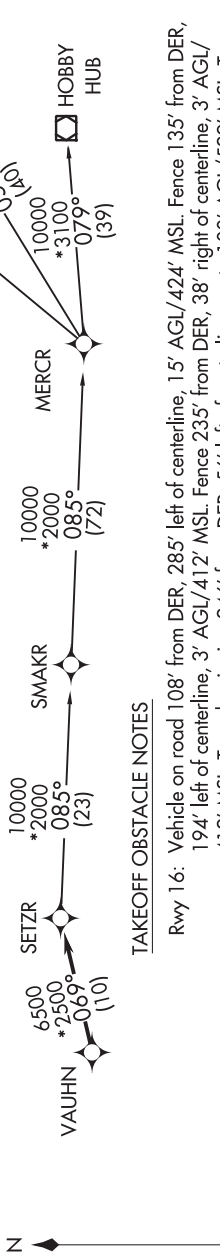
SC-3, 10 NOV 2016 to 05 JAN 2017

7.10Z NAV 01.91.0Z AON 10. 10. 13-CG

REGIONAL DEP CON
125.7 290.225
CTAF 122.7

TAKEOFF MINIMUMS
Rwy 16, 34: Standard

NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: For use by turbojet and turboprop aircraft only.
NOTE: RNAV 1



TAKEOFF OBSTACLE NOTES

Rwy 16: Vehicle on road 108' from DER, 285' left of centerline, 15' AGL/424' MSL. Fence 135' from DER, 194' left of centerline, 3' AGL/412' MSL. Fence 235' from DER, 38' right of centerline, 3' AGL/412' MSL. Trees beginning 246' from DER, 56' left of centerline, up to 100' AGL/529' MSL. Trees beginning 173' from DER, 154' right of centerline, up to 100' AGL/529' MSL.

Rwy 34: Vehicle on road 136' from DER, left to right of centerline, up to 15' AGL/444' MSL. Fence 191' from DER, 251' left of centerline, 3' AGL/442' MSL. Trees beginning 210' from DER, 51' left of centerline up to 100' AGL/539' MSL. Tree 172' from DER, 74' right of centerline, 100' AGL/529' MSL.

NOTE: Chart not to scale

DEPARTURE ROUTE DESCRIPTION

TAKEOFF Rwy 16: Climb on assigned heading for RADAR vectors to VAUHN, thence ...
TAKEOFF Rwy 34: Climb on assigned heading for RADAR vectors to VAUHN, thence ...

... on track 069° to SETZR, then on (transition) maintain 5000 or as assigned by ATC. Expect filed altitude 10 minutes after departure.

- HOBBY TRANSITION (SETZR1.HUB)
- HUMBLE TRANSITION (SETZR1.IAH)
- SMAKR TRANSITION (SETZR1.SMAKR)
- WYLSN TRANSITION (SETZR1.WYLSN)

WAAS CH 99500 W12A	APP CRS 120°	Rwy Idg 3482 TDZE 5 Apt Elev 5
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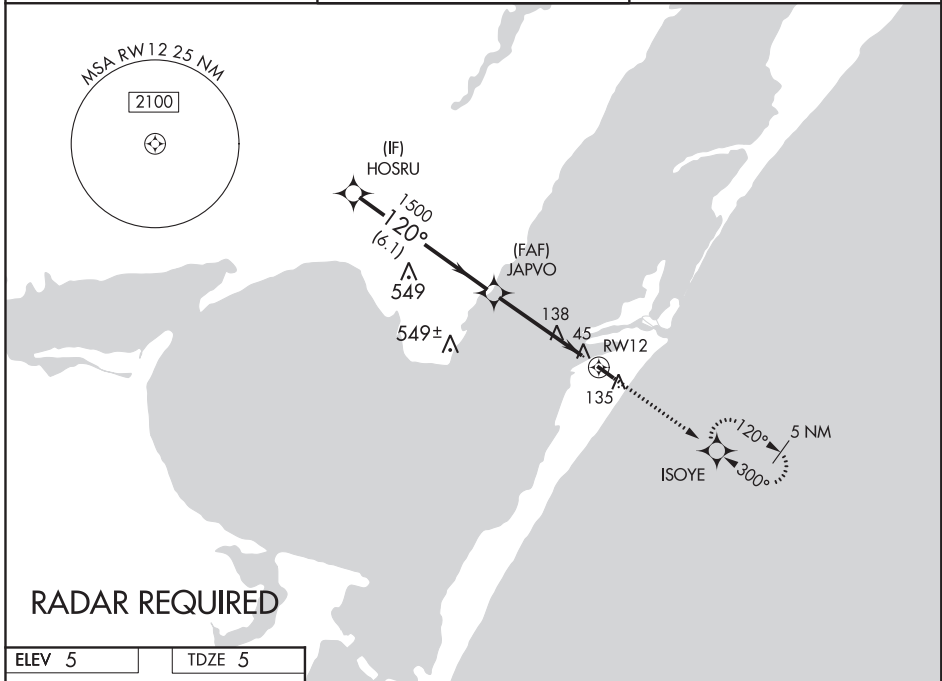
RNAV (GPS) RWY 12

MUSTANG BEACH (R.A.S)

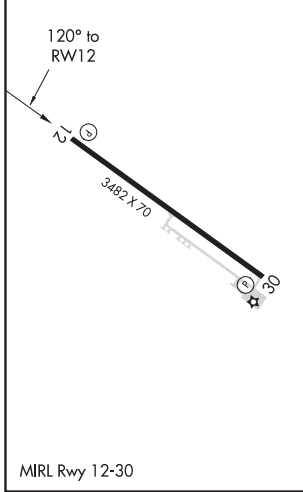
⚠ DME/DME RNP-0.3 NA. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 44°C (111°F). If local altimeter setting not received, use Corpus Christi Intl altimeter setting and increase all DAs/MDAs 60 feet. Baro-VNAV and VDP NA when using Corpus Christi Intl altimeter setting.

⚠ MISSED APPROACH: Climb to 2000 direct ISOYE and hold.

AWOS-3 118.425	CORPUS CHRISTI APP CON 125.4 307.9	CTAF 122.9
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ELEV 5	TDZE 5
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Procedure Turn NA GS 3.00° TCH 35	HOSRU 3000 120°		JAPVO 1500		2000 ISOYE
	6.1 NM		3.4 NM		1.1 NM
	* 1.1 NM to RWY 12		RWY 12		
	* LNAV only				
CATEGORY	A	B	C	D	
LPV DA	276-1	271 (300-1)			NA
LNAV/VNAV DA	435-1½	430 (500-1½)			NA
LNAV MDA	400-1	395 (400-1)			NA
CIRCLING	500-1	495 (500-1)			NA

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

PORT ARANSAS, TX

AL-10221 (FAA)

15176

WAAS CH 63000 W30A	APP CRS 300°	Rwy Idg 3482 TDZE 5 Apt Elev 5
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RNAV (GPS) RWY 30

MUSTANG BEACH (R.A.S)

⚠ DME/DME RNP-0.3 NA. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -1.5°C (5°F) or above 44°C (111°F). If local altimeter setting not received, use Corpus Christi Intl altimeter setting and increase all DAs/MDAs 60 feet. Baro-VNAV and VDP NA when using Corpus Christi Intl altimeter setting.

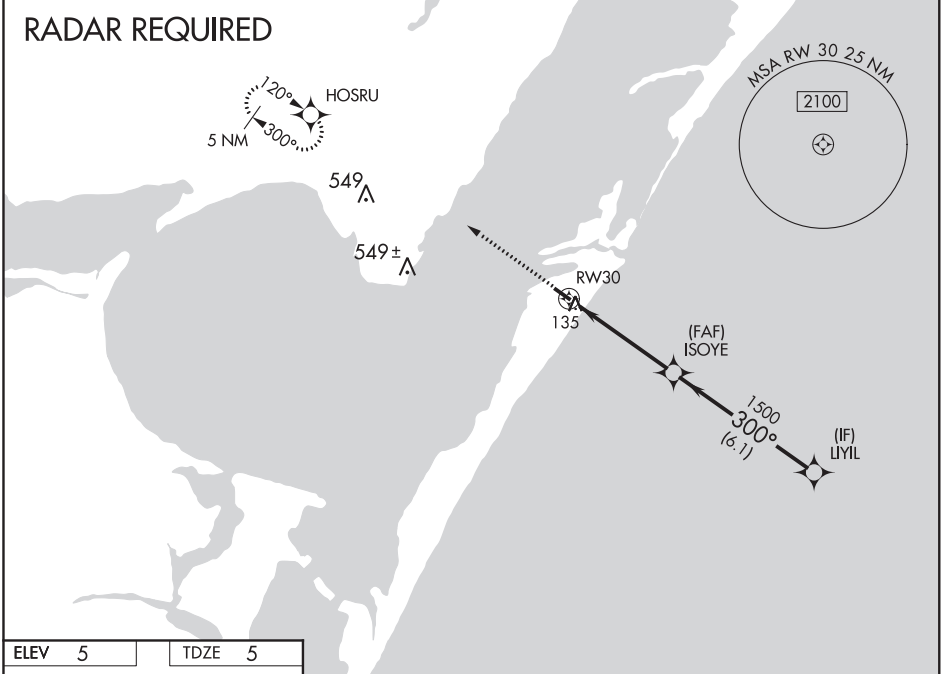
MISSED APPROACH: Climb to 2000 direct HOSRU and hold.

AWOS-3
118.425

CORPUS CHRISTI APP CON
125.4 307.9

CTAF
122.9

RADAR REQUIRED

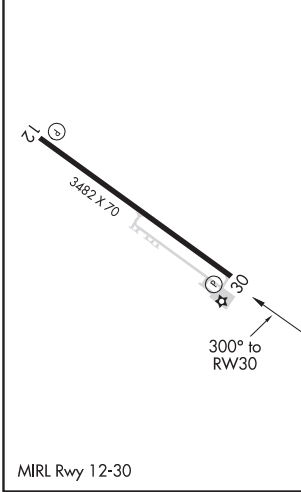
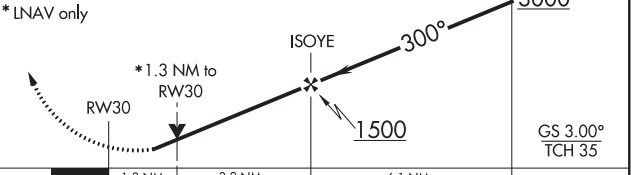


SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

ELEV 5	TDZE 5
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2000 HOSRU
 ↑ VGS1 and RNAV glidepath not coincident (VGS1 Angle 3.20/TCH 22).
 Procedure Turn NA



CATEGORY	A	B	C	D
LPV DA	362-1¼	357 (400-1¼)		NA
LNAV/VNAV DA	435-1½	430 (500-1½)		NA
LNAV MDA	440-1	435 (500-1)		NA
CIRCLING	500-1	495 (500-1)		NA

PORT ARANSAS, TX
Orig-C 20SEP12

27°49'N-97°05'W

MUSTANG BEACH (R.A.S)

RNAV (GPS) RWY 30

WAAS CH 53708 W13A	APP CRS 130°	Rwy ldg 8001 TDZE 18 Apt Elev 19
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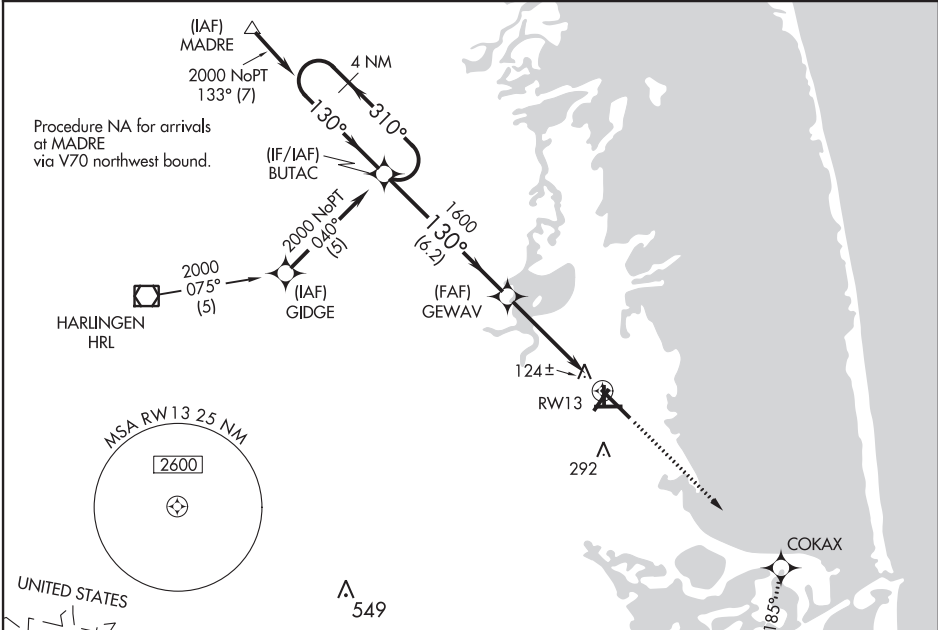
RNAV (GPS) RWY 13

PORT ISABEL-CAMERON COUNTY (PIL)

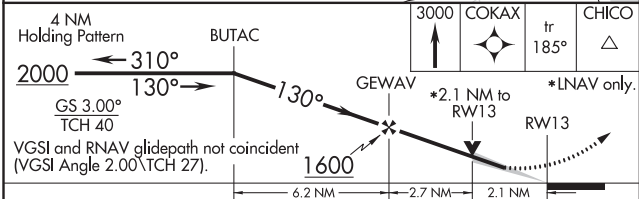
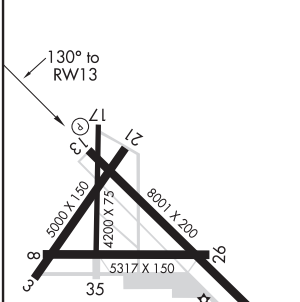
⚠ Baro-VNAV NA when using Brownsville altimeter setting. For uncompensated Baro-VNAV systems, LNAV-VNAV NA below -1.5°C (5°F) or above 54°C (130°F).
⚠ DME/DME RNP-0.3 NA. VDP NA when using Brownsville altimeter setting. When local altimeter setting not received, use Brownsville altimeter setting and increase all DA 38 feet and all MDA 40 feet, increase LPV all Cats, LNAV Cat C, and circling Cat C visibility ¼ mile.

MISSED APPROACH:
 Climb to 3000 direct COKAX and via 185° track to CHICO and hold.

ASOS 118.525	VALLEY APP CON 119.5 257.6	CLNC DEL 119.2	UNICOM 122.8 (CTAF)
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ELEV 19	TDZE 18
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CATEGORY	A	B	C	D
LPV DA		376-1¼	358 (400-1¼)	NA
LNAV/VNAV DA		424-1½	406 (500-1½)	NA
LNAV MDA	480-1	462 (500-1)	480-1¼ 462 (500-1¼)	NA
CIRCLING	540-1	540-1	660-1¾	NA
	521 (600-1)	521 (600-1)	641 (700-1¾)	

REIL Rws 13 and 31
 MIRL Rwy 13-31

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

PORT ISABEL, TEXAS

AL-6099 (FAA)

16203

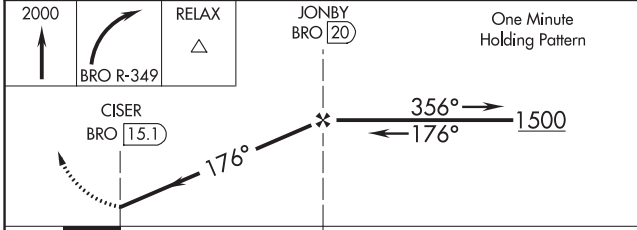
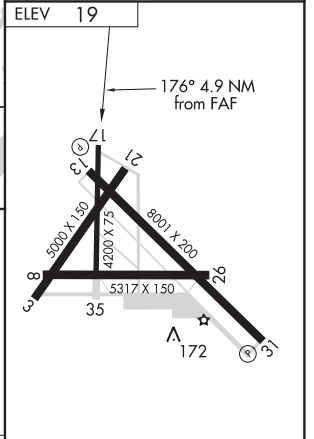
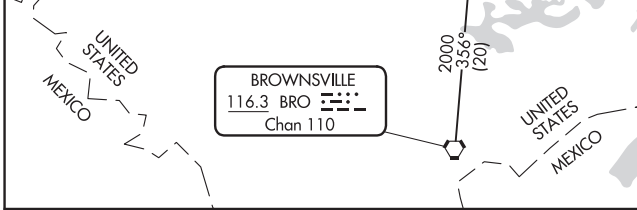
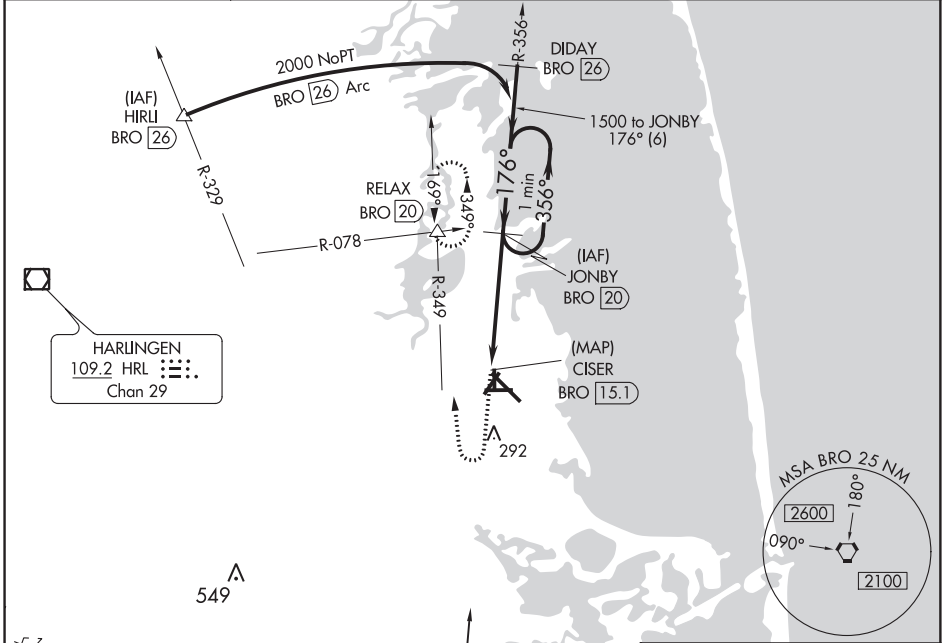
VORTAC BRO 116.3 Chan 110	APP CRS 176°	Rwy Idg TDZE Apt Elev N/A 19
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VOR/DME-B
PORT ISABEL-CAMERON COUNTY (PIL)

NA When local altimeter setting not received, use Brownsville altimeter setting and increase all MDA 40 feet and Cat C visibility ¼ mile.

MISSED APPROACH: Climb to 2000 then right turn via BRO R-349 to RELAX INT/BRO 20 DME and hold.

ASOS 118.525	VALLEY APP CON 119.5 257.6	CLNC DEL 119.2	UNICOM 122.8 (CTAF)
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CATEGORY	A	B	C	D
CIRCLING	540-1	521 (600-1)	660-1¾ 641 (700-1¾)	NA

REIL Rwy 13 and 31
MIRL Rwy 13-31

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

PORT ISABEL, TEXAS
Amdt 3A 07APR11

26°10'N-97°21'W

PORT ISABEL-CAMERON COUNTY (PIL)
VOR/DME-B

VORTAC BRO 116.3 Chan 110	APP CRS 357°	Rwy Idg TDZE Apt Elev	N/A N/A 19
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VOR-A

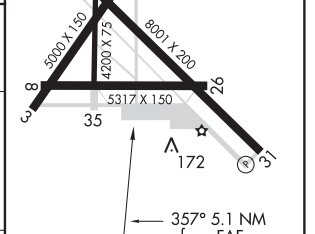
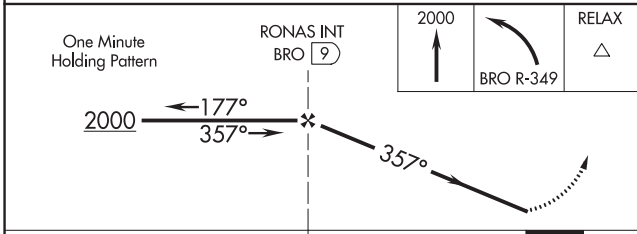
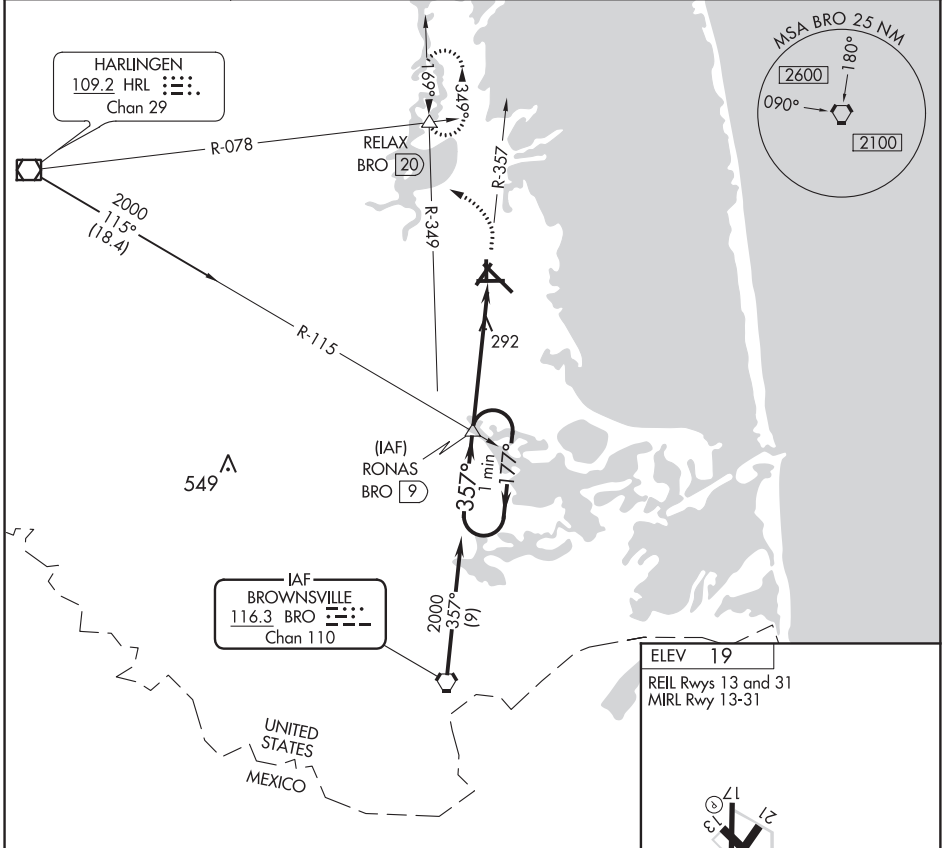
PORT ISABEL-CAMERON COUNTY (PIL)

When local altimeter setting not received, use Brownsville altimeter setting and increase all MDA 40 feet and increase Cat C visibility 1/4 mile.

NA

MISSED APPROACH: Climb to 2000 then turn left via BRO R-349 to RELAX INT/BRO 20 DME and hold.

ASOS 118.525	VALLEY APP CON 119.5 257.6	CLNC DEL 119.2	UNICOM 122.8 (CTAF)
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CATEGORY	A	B	C	D	FAF to MAP 5.1 NM					
CIRCLING	600-1	581 (600-1)	660-1 3/4 641 (700-1 3/4)	NA	Knots	60	90	120	150	180
					Min:Sec	5:06	3:24	2:33	2:02	1:42

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

PRESIDIO, TX

AL-10222 (FAA)

14345

APP CRS 260°	Rwy Idg TDZE Apt Elev	N/A N/A 2938
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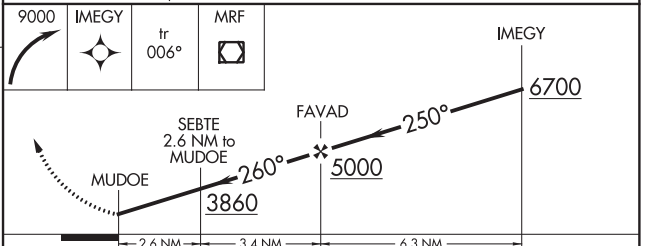
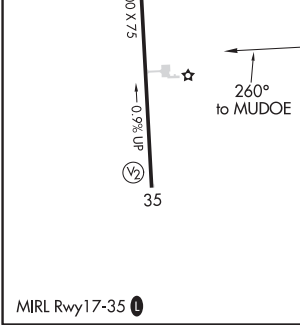
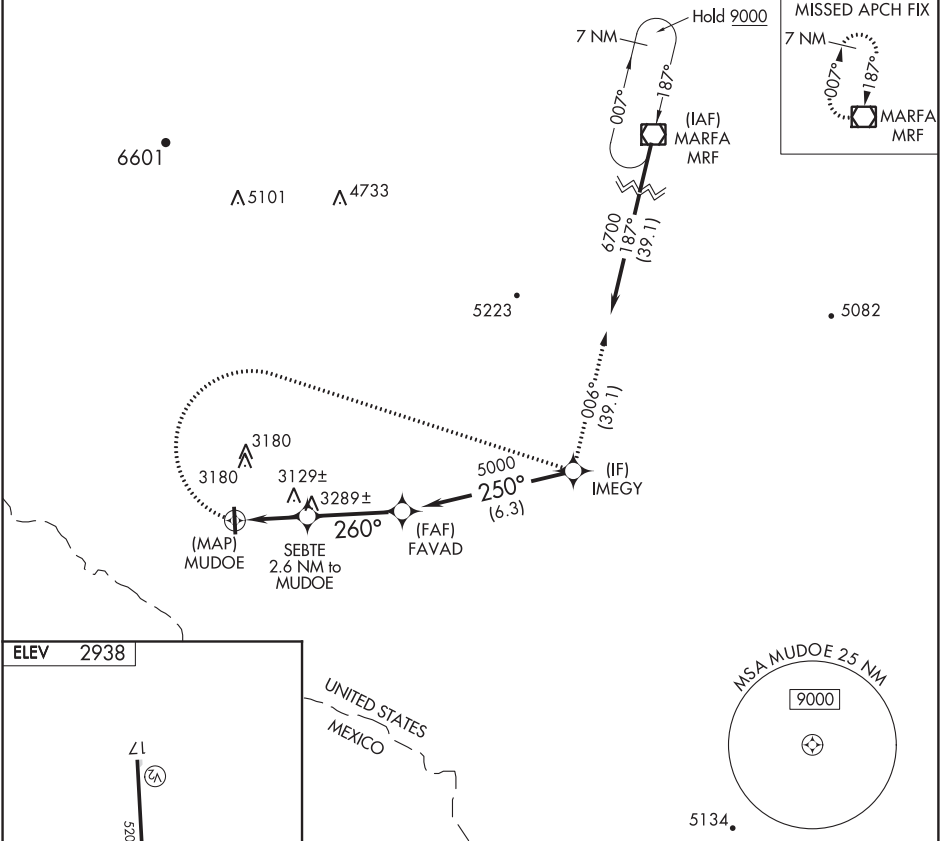
RNAV (GPS)-A

PRESIDIO LEY INTL (PRS)

NA When local altimeter setting not received, procedure NA.
DME/DME RNP-0.3 NA.

MISSED APPROACH: Climbing right turn to 9000 direct IMEGY and on track 006° to MRF VOR/DME and hold.

AWOS-3PT 118.0	ALBUQUERQUE CENTER 135.875 292.15	UNICOM 122.8 (CTAF)
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CATEGORY	A	B	C	D
CIRCLING	3480-1 542 (600-1)	3520-1 582 (600-1)	NA	

PRESIDIO, TX
Orig-A 11DEC14

29°38'N-104°22'W

PRESIDIO LEY INTL (PRS)
RNAV (GPS)-A

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

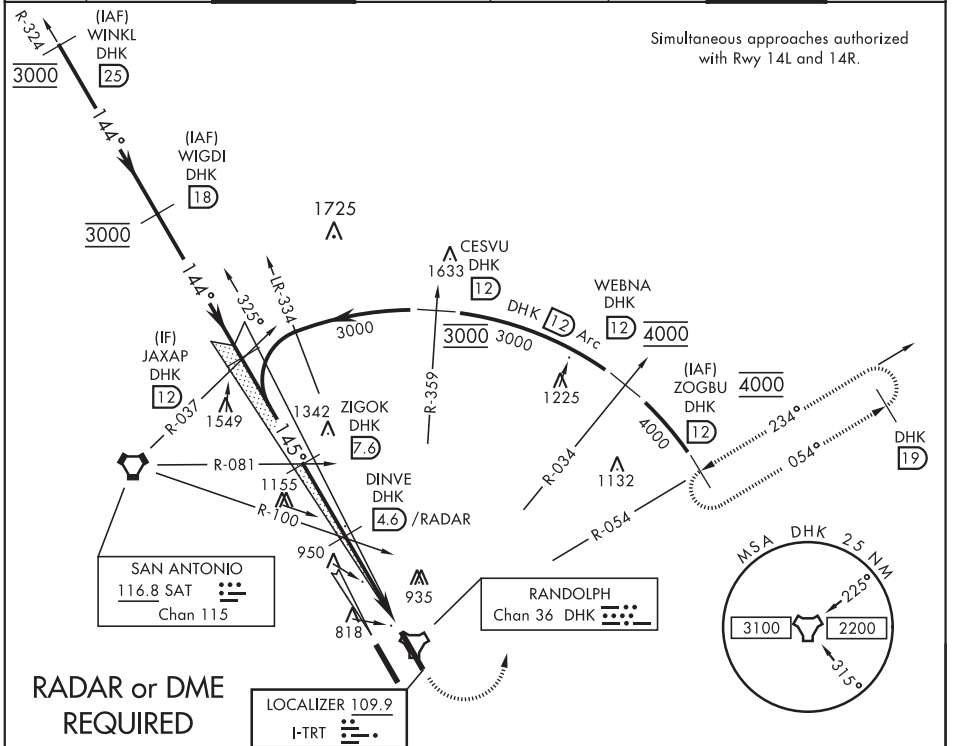
UNIVERSAL CITY, TEXAS

ILS or LOC RWY 14L

LOC I-TRT 109.9	APCH CRS 145°	Rwy ldg THRE Arprt Elev 8351 743 761	AL-341 [USAF]	RANDOLPH AFB (KRND)
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* When ALS inop, increase CAT AB RVR to 55 and vis to 1 mile, CAT CDE vis to 1 3/8 miles.
 ** Circling not authorized SW of Rwy 14L-32R.

ATIS ★ 290.525	SAN ANTONIO APP CON 128.05 318.1	RANDOLPH TOWER ★ 128.25 294.7	RANDOLPH GND CON 119.65 275.8	CLNC DEL (RWY 14L-32R) 338.35	HANGOVER ATIS ★ 327.8	HANGOVER TOWER ★ 120.5 291.1	HANGOVER GND CON 124.75 353.75
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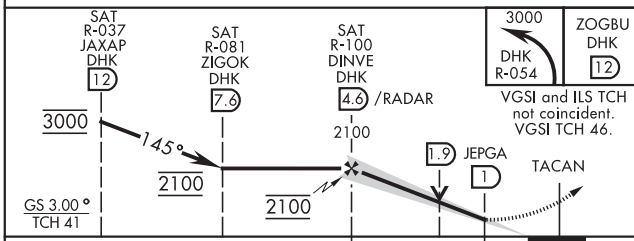


SC-3, 10 NOV 2016 to 05 JAN 2017

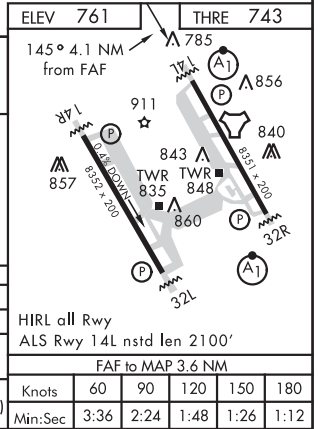
SC-3, 10 NOV 2016 to 05 JAN 2017

RADAR or DME REQUIRED

EMERG SAFE ALT 100 NM 4200



CATEGORY	A	B	C	D	E
S-ILS 14L	943/40		200	(200-3/4)	
S-LOC 14L *	1220/40	477 (500-3/4)	1220/60	477 (500-1 1/2)	
CIRCLING **	1220-1	459 (500-1)	1260-1 1/2 499 (500-1 1/2)	1800-3	1039 (1100-3)



UNIVERSAL CITY, TEXAS
 Amdt 2 29MAY14

29°32'N-98°17'W

RANDOLPH AFB (KRND)

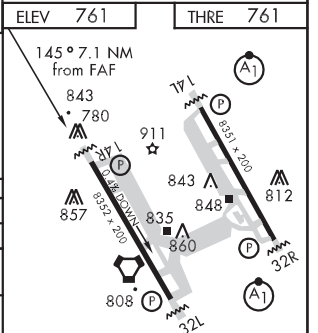
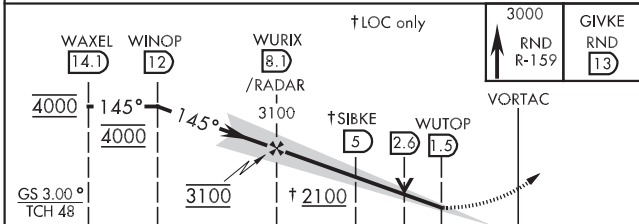
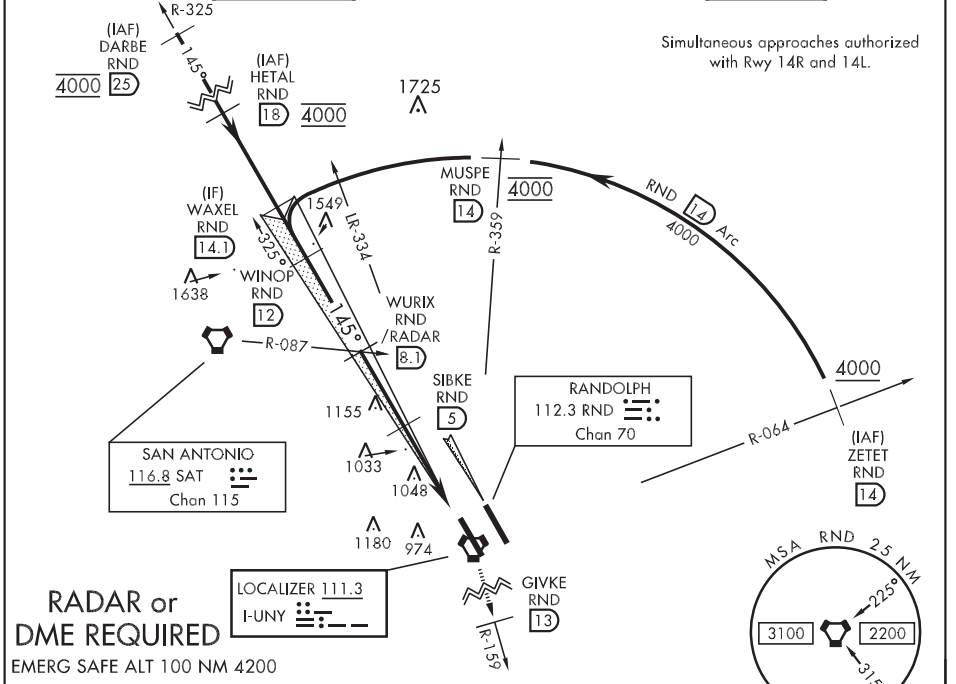
ILS or LOC RWY 14L

UNIVERSAL CITY, TEXAS

ILS or LOC RWY 14R

LOC I-UNY 111.3	APCH CRS 145°	Rwy Idg THRE Arpt Elev 8352 761 761	AL-341 [USAF]	RANDOLPH AFB (KRND)
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* Circling not authorized NE of Rwy 14R-32L.			MISSED APPROACH: Climb to 3000 out RND VORTAC R-159 to 13 DME (GIVKE). Expect ATC instructions.				
ATIS ★ 290.525	SAN ANTONIO APP CON 128.05 318.1	RANDOLPH TOWER ★ 128.25 294.7	RANDOLPH GND CON 119.65 275.8	CLNC DEL (RWY 14L-32R) 338.35	HANGOVER ATIS ★ 327.8	HANGOVER TOWER ★ 120.5 291.1	HANGOVER GND CON 124.75 353.75



CATEGORY	A	B	C	D	E
S-ILS 14R	961/40		200	(200-34)	
S-LOC 14R	1300/55	539 (600-1)	1300-1½	539 (600-1½)	
C CIRCLING*	1300-1	539 (600-1)	1500-2 739 (800-2)	1800-3	1039 (1100-3)
WITHOUT LAST STEP DOWN FIX					
S-LOC 14R	1440/55	679 (700-1)	1440-1⅞	679 (700-1⅞)	
C CIRCLING*	1440-1	679 (700-1)	1500-2 739 (800-2)	1800-3	1039 (1100-3)

HIRL all Rwy					
ALS Rwy 14L nstd len 2100'					
FAF to MAP 6.6 NM					
Knots	60	90	120	150	180
Min:Sec	6:36	4:24	3:18	2:38	2:12

UNIVERSAL CITY, TEXAS 29°32'N-98°17'W RANDOLPH AFB (KRND)

Amtd 2 09JAN14

ILS or LOC RWY 14R

SC-3, 10 NOV 2016 to 05 JAN 2017

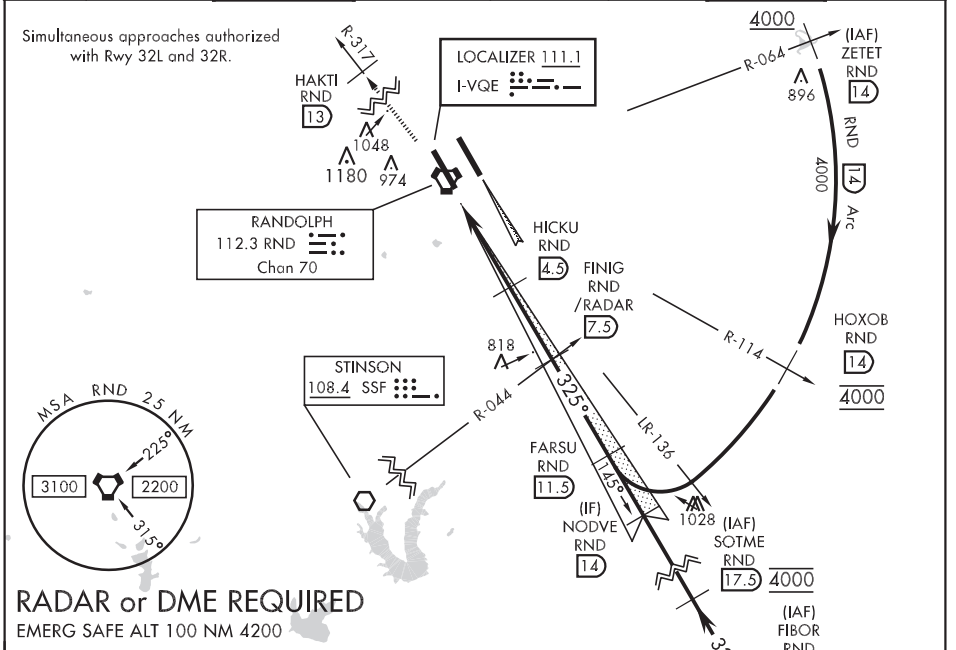
SC-3, 10 NOV 2016 to 05 JAN 2017

ILS or LOC RWY 32L

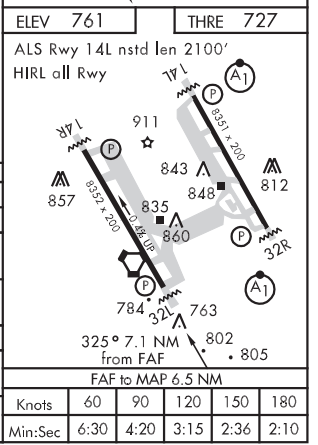
LOC I-VQE 111.1	APCH CRS 325°	Rwy Idg THRE Arpt Elev 8352 727 761	AL-341 [USAF]	RANDOLPH AFB (KRND)
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* Circling not authorized NE of Rwy 14R-32L. MISSED APPROACH: Climb to 3000 out RND VORTAC R-317 to 13 DME (HAKTI). Expect ATC instructions.

ATIS ★ 290.525	SAN ANTONIO APP CON 128.05 318.1	RANDOLPH TOWER ★ 128.25 294.7	RANDOLPH GND CON 119.65 275.8	CLNC DEL (RWY 14L-32R) 338.35	HANGOVER ATIS ★ 327.8	HANGOVER TOWER ★ 120.5 291.1	HANGOVER GND CON 124.75 353.75
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3000 RND R-317	HAKTI RND 13		† LOC only		FINIG RND/RADAR 7.5	FARSU RND 11.5	NODVE R-145 14
	VORTAC		WAPOP 1	† HICKU 4.5	3100	3100	4000
0.6 NM		3.5 NM		3 NM		GS 3.00° TCH 48	
CATEGORY	A	B	C	D	E		
S-ILS 32L	927/40		200	(200-¾)			
S-LOC 32L	1060/55	333 (300-1)	1060/50	333	(300-1)		
☑ CIRCLING*	1220-1 459 (500-1)	1280-1 519 (600-1)	1500-2 739 (800-2)	1800-3	1039 (1100-3)		
WITHOUT LAST STEP DOWN FIX							
S-LOC 32L	1120/55	393 (400-1)	1120/60	393	(400-1½)		
☑ CIRCLING*	1220-1 459 (500-1)	1280-1 519 (600-1)	1500-2 739 (800-2)	1800-3	1039 (1100-3)		



UNIVERSAL CITY, TEXAS 29°32'N-98°17'W RANDOLPH AFB (KRND)

Amtd 2 09JAN14

ILS or LOC RWY 32L

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

UNIVERSAL CITY, TEXAS

ILS or LOC RWY 32R

LOC I-RND 109.3	APCH CRS 325°	Rwy Idg THRE Arprt Elev 8351 723 761	AL-341 [USAF]	RANDOLPH AFB (KRND)
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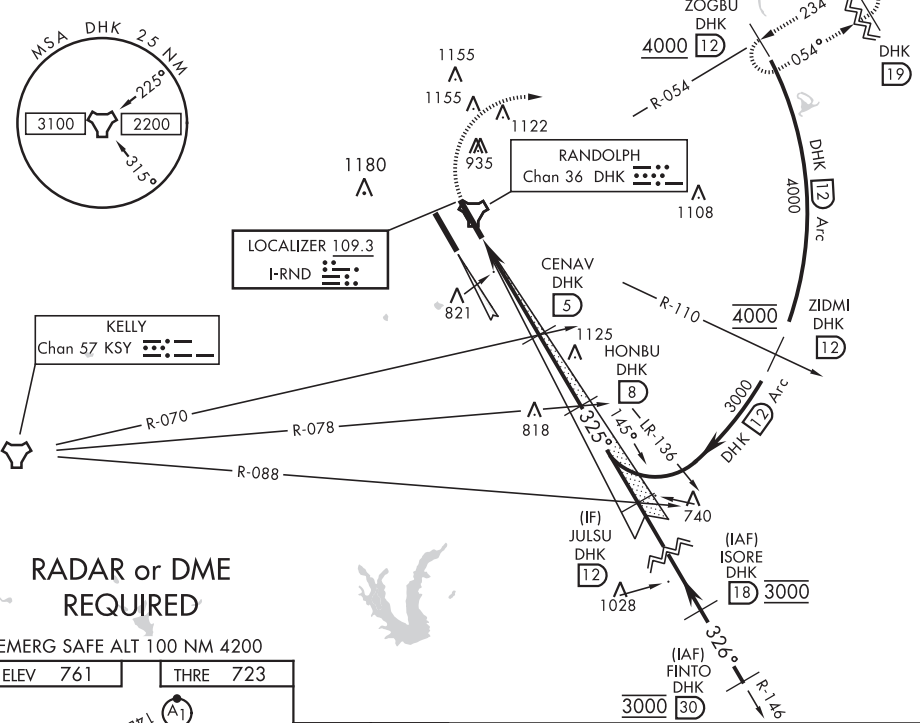
* When ALS inop, increase CAT ABCDE RVR to 40 and vis to 3/4 mile.
 ** When ALS inop, increase CAT AB RVR to 55 and vis to 1 mile, CAT CDE RVR to 60 and vis to 1 1/8 miles.
 *** Circling not authorized SW of RWY 14L-32R.

ALS-F-1

MISSED APPROACH: Climbing right turn to 3000, intercept DHK TACAN R-054 to ZOGBU and hold.

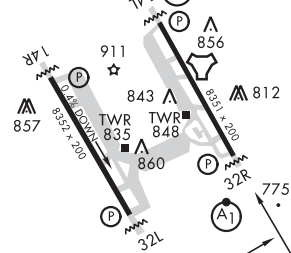
ATIS ★ 290.525	SAN ANTONIO APP CON 128.05 318.1	RANDOLPH TOWER ★ 128.25 294.7	RANDOLPH GND CON 119.65 275.8	CLNC DEL (RWY 14L-32R) 338.35	HANGOVER ATIS ★ 327.8	HANGOVER TOWER ★ 120.5 291.1	HANGOVER GND CON 124.75 353.75
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Simultaneous approaches authorized with Rwy 32R and 32L.

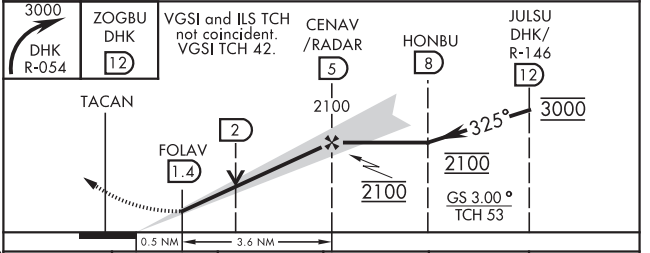


EMERG SAFE ALT 100 NM 4200

ELEV 761	THRE 723
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HIRL all Rwy	325° 4.1 NM from FAF				
ALS Rwy 14L nstd len 2100'	821'				
FAF to MAP 3.6 NM					
Knots	60	90	120	150	180
Min:Sec	3:36	2:24	1:48	1:26	1:12



CATEGORY	A	B	C	D	E
S-ILS 32R *	923/24		200	(200-1/2)	
S-LOC 32R **	1140/24	417 (400-1/2)	1140/40	417	(400-3/4)
CIRCLING ***	1180-1 419 (500-1)	1220-1 459 (500-1)	1260-1 1/2 499 (500-1 1/2)	1800-3 (1100-3)	

UNIVERSAL CITY, TEXAS
Amdt 2 29MAY14

29°32'N-98°17'W

RANDOLPH AFB (KRND)

ILS or LOC RWY 32R

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

UNIVERSAL CITY, TEXAS

RNAV (GPS) RWY 14L

APCH CRS 145°	Rwy Idg THRE 8351 Arprt Elev 761	AL-341 [USAF]	RANDOLPH AFB (KRND)
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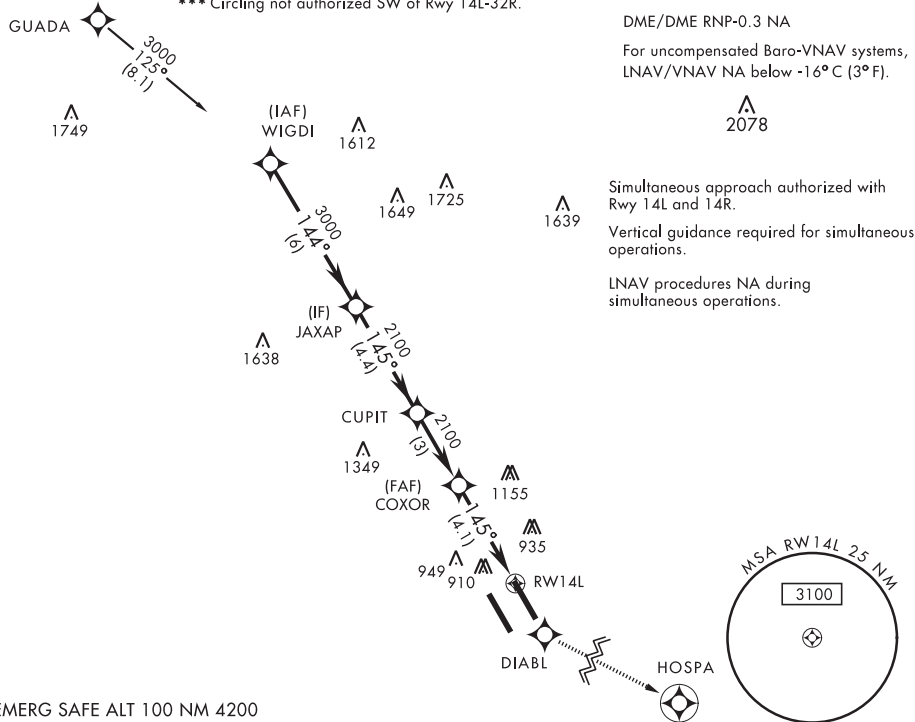
* When ALS inop, increase CAT AB RVR to 55 and vis to 1 mile, CAT CDE vis to 1 3/8 miles.
 ** When ALS inop, increase vis all CATs to 1 3/8 miles.



MISSED APPROACH: Climb to 3000 track to DIABL, then left turn direct HOSPA. Expect ATC instructions.

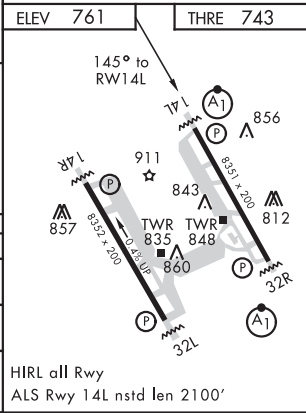
ATIS ★ 290.525	SAN ANTONIO APP CON 128.05 318.1	RANDOLPH TOWER ★ 128.25 294.7	RANDOLPH GND CON 119.65 275.8	CLNC DEL (RWY 14L-32R) 338.35	HANGOVER ATIS ★ 327.8	HANGOVER TOWER ★ 120.5 291.1	HANGOVER GND CON 124.75 353.75
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*** Circling not authorized SW of Rwy 14L-32R.



EMERG SAFE ALT 100 NM 4200

	WIGDI		JAXAP		CUPIT		COXOR		RW14L		DIABL		HOSPA	
	3000		3000		2100		2100		477		477		ELEV 761	
	144°		145°		GS 3.00° TCH 46		1.3 NM to RW14L							
	6 NM		4.4 NM		3 NM		4.1 NM							
CATEGORY	A		B		C		D		E					
LNAV MDA *	1220/40		1220/40		1220/60		477		(500-1 1/8)					
LNAV/VNAV DA **	1240-1 3/8		497		497		(500-1 3/8)							
CIRCLING ***	1220-1		459 (500-1)		1260-1 1/2		499 (500-1 1/2)		1800-3		1039 (1100-3)			



UNIVERSAL CITY, TEXAS 29°32'N-98°17'W RANDOLPH AFB (KRND)

Amdt 2 05MAR15

RNAV (GPS) RWY 14L

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

UNIVERSAL CITY, TEXAS

RNAV (GPS) RWY 14R

APCH CRS 145°	Rwy Idg THRE Arprt Elev 761	8352
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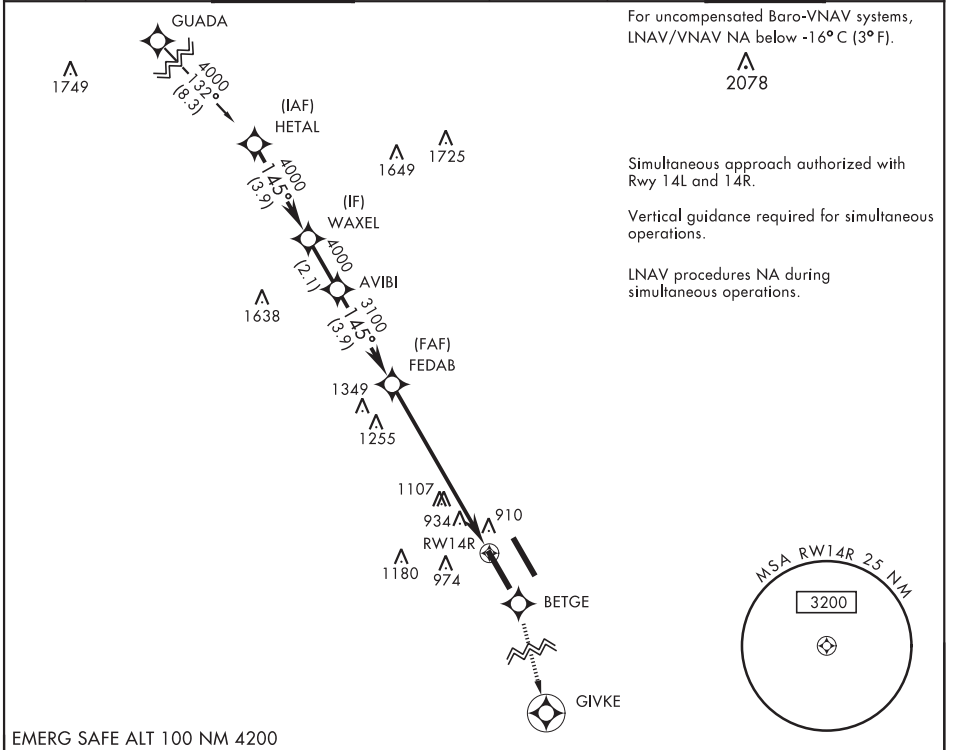
AL-341 [USAF]

RANDOLPH AFB (KRND)

* Circling not authorized NE of Rwy 14R-32L.
DME/DME RNP-0.3 NA

MISSED APPROACH: Climb to 3000, track to BETGE, then direct GIVKE. Expect ATC instructions.

ATIS ★ 290.525	SAN ANTONIO APP CON 128.05 318.1	RANDOLPH TOWER ★ 128.25 294.7	RANDOLPH GND CON 119.65 275.8	CLNC DEL (RWY 14L-32R) 338.35	HANGOVER ATIS ★ 327.8	HANGOVER TOWER ★ 120.5 291.1	HANGOVER GND CON 124.75 353.75
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<table border="1"> <tr> <td>↑LNAV Only</td> <td>3000</td> <td>BETGE</td> <td>GIVKE</td> <td>ELEV 761</td> <td>THRE 761</td> </tr> </table>					↑LNAV Only	3000	BETGE	GIVKE	ELEV 761	THRE 761
↑LNAV Only	3000	BETGE	GIVKE	ELEV 761	THRE 761					
CATEGORY	A	B	C	D	E					
LNAV/VNAV DA	1220-1½		459	(500-1½)						
LNAV MDA	1560/55 799 (800-1)	1560/60 799 (800-1¼)	1560-2½	799	(800-2½)					
CIRCLING*	1560-1 799 (800-1)	1560-1¼ 799 (800-1¼)	1560-2½ 799 (800-2½)	1800-3	1039 (1100-3)					

HIRL all Rwy
ALS Rwy 14L nstd len 2100'

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

UNIVERSAL CITY, TEXAS
Amdt 2 05MAR15

29°32'N-98°17'W

RANDOLPH AFB (KRND)

RNAV (GPS) RWY 14R

UNIVERSAL CITY, TEXAS

RNAV (GPS) RWY 32R

APCH CRS 325°	Rwy Idg THRE Arprt Elev 761	8351 723 761
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AL-341 [USAF]

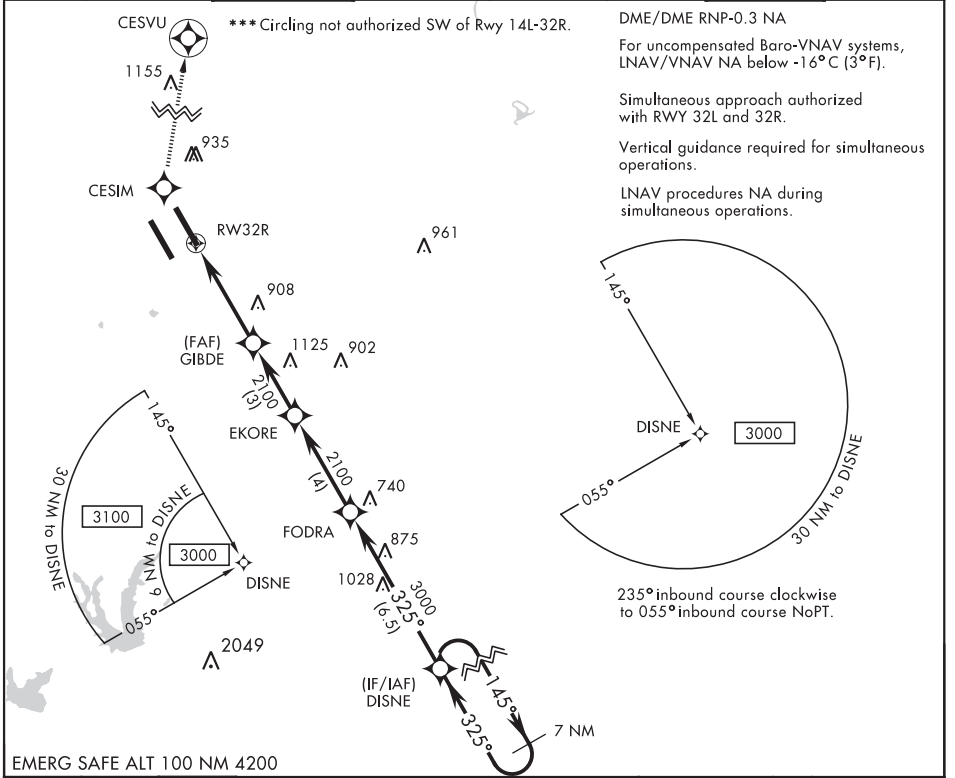
RANDOLPH AFB (KRND)

*When ALS inop, increase vis all CATs to 1½ miles.
 ** When ALS inop, increase CAT AB RVR to 55 and vis to 1 mile, CAT CDE vis to 1¾ miles.



MISSED APPROACH: Climb to 3000 track to CESIM, then right turn direct CESVU. Expect ATC instructions.

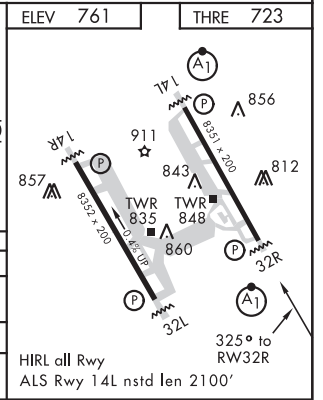
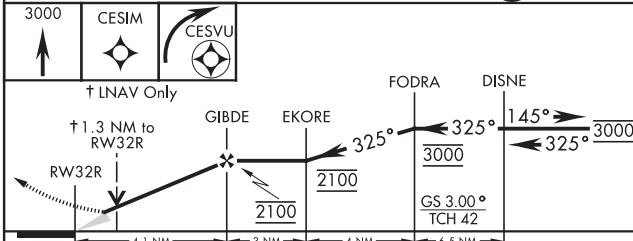
ATIS ★ 290.525	SAN ANTONIO APP CON 128.05 318.1	RANDOLPH TOWER ★ 128.25 294.7	RANDOLPH GND CON 119.65 275.8	CLNC DEL (RWY 14L-32R) 338.35	HANGOVER ATIS ★ 327.8	HANGOVER TOWER ★ 120.5 291.1	HANGOVER GND CON 124.75 353.75
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SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

EMERG SAFE ALT 100 NM 4200



UNIVERSAL CITY, TEXAS
Amdt 2 05MAR15

29°32'N-98°17'W

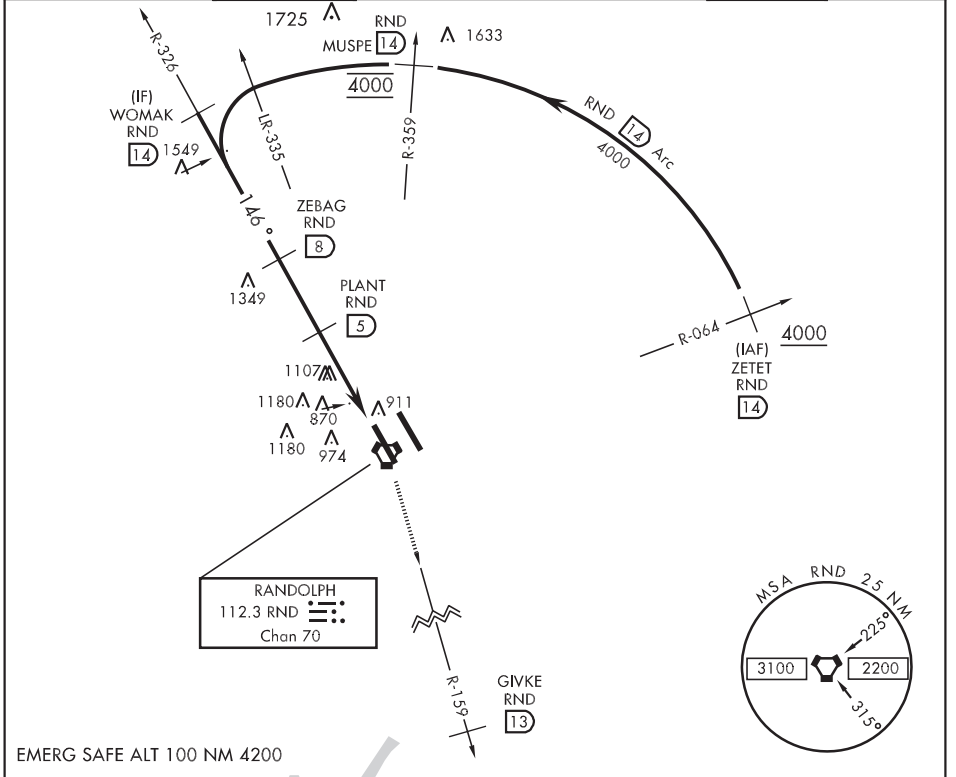
RANDOLPH AFB (KRND)

RNAV (GPS) RWY 32R

VOR/DME or TACAN RWY 14R

VORTAC RND 112.3 Chan 70	APCH CRS 146°	Rwy Idg THRE 8352 761 Arpt Elev 761	AL-341 [USAF]	RANDOLPH AFB (KRND)		
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* Circling not authorized NE of Rwy 14R-32L.			MISSED APPROACH: Climb to 3000 out RND VORTAC R-159 to 13 DME (GIVKE.). Expect ATC instructions.				
ATIS ★ 290.525	SAN ANTONIO APP CON 128.05 318.1	RANDOLPH TOWER ★ 128.25 294.7	RANDOLPH GND CON 119.65 275.8	CLNC DEL (RWY 14L-32R) 338.35	HANGOVER ATIS ★ 327.8	HANGOVER TOWER ★ 120.5 291.1	HANGOVER GND CON 124.75 353.75



EMERG SAFE ALT 100 NM 4200

	WOMAK 14 4000	ZEBAG 8 3000	PLANT 5 2100	HUNOR 1.5	VORTAC	3000 RND R-159	GIVKE RND 13	ELEV 761	THRE 761
	146° from FAF								
CATEGORY	A	B	C	D	E				
S-14R	1360/55	599 (600-1)	1360-1¾	599 (600-1¾)					
CIRCLING*	1360-1	599 (600-1)	1500-2 739 (800-2)	1800-3	1039 (1100-3)	HIRL all Rwy ALS Rwy 14L nstd len 2100'			

VOR/DME or TACAN RWY 14R

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

UNIVERSAL CITY, TEXAS

VOR/DME or TACAN RWY 32L

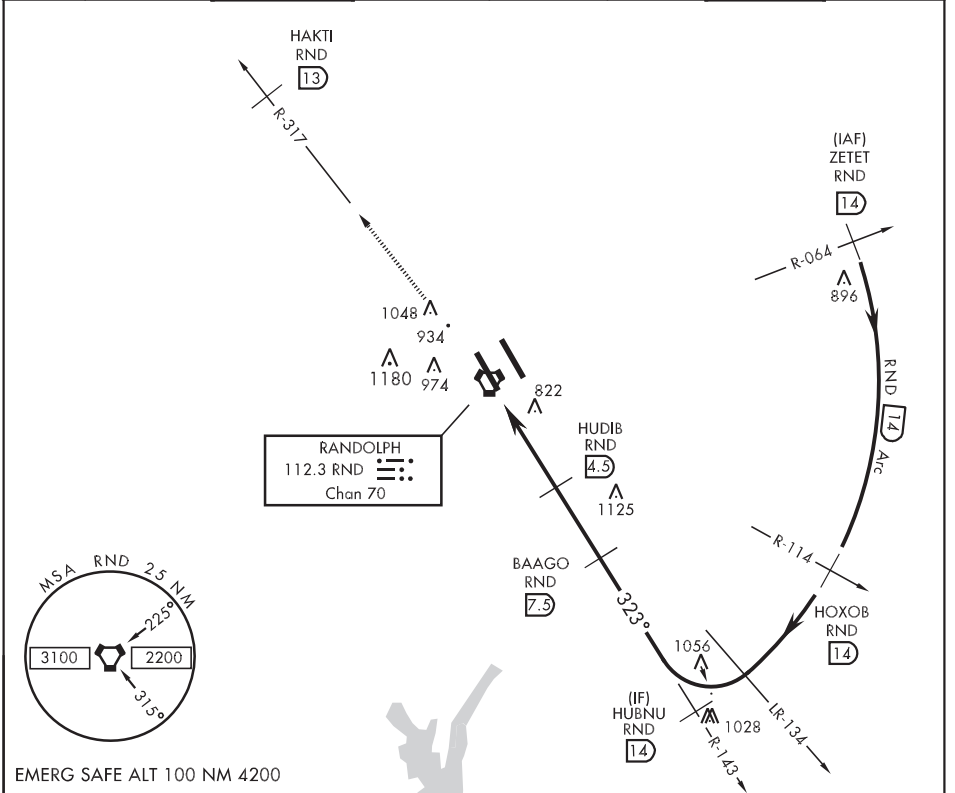
VORTAC RND 112.3 Chan 70	APCH CRS 323°	Rwy Idg THRE Arpt Elev 8352 727 761
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AL-341 [USAF]

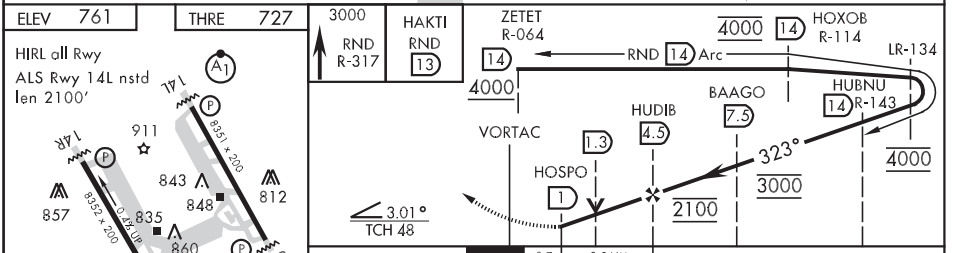
RANDOLPH AFB (KRND)

* Circling not authorized NE of Rwy 14R-32L. MISSED APPROACH: Climb to 3000 out RND VORTAC R-317 to RND 13 DME (HAKTI). Expect ATC instructions.

ATIS ★ 290.525	SAN ANTONIO APP CON 128.05 318.1	RANDOLPH TOWER ★ 128.25 294.7	RANDOLPH GND CON 119.65 275.8	CLNC DEL (RWY 14L-32R) 338.35	HANGOVER ATIS ★ 327.8	HANGOVER TOWER ★ 120.5 291.1	HANGOVER GND CON 124.75 353.75
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EMERG SAFE ALT 100 NM 4200



ELEV 761	THRE 727	3000	HAKTI RND 13	ZETET R-064	HOSPO 1.3	HUDIB 4.5	BAAGO 7.5	HUBNU 14	HOBNU R-143	LR-134																		
HIRL all Rwy ALS Rwy 14L nstd len 2100'		<table border="1"> <thead> <tr> <th>CATEGORY</th> <th>A</th> <th>B</th> <th>C</th> <th>D</th> <th>E</th> </tr> </thead> <tbody> <tr> <td>S-32L</td> <td colspan="2">1080/55</td> <td>353</td> <td colspan="2">(400-1)</td> </tr> <tr> <td>CIRCLING*</td> <td>1220-1 459 (500-1)</td> <td>1280-1 519 (600-1)</td> <td>1500-2 739 (800-2)</td> <td colspan="2">1800-3 1039 (1100-3)</td> </tr> </tbody> </table>									CATEGORY	A	B	C	D	E	S-32L	1080/55		353	(400-1)		CIRCLING*	1220-1 459 (500-1)	1280-1 519 (600-1)	1500-2 739 (800-2)	1800-3 1039 (1100-3)	
CATEGORY	A	B	C	D	E																							
S-32L	1080/55		353	(400-1)																								
CIRCLING*	1220-1 459 (500-1)	1280-1 519 (600-1)	1500-2 739 (800-2)	1800-3 1039 (1100-3)																								

UNIVERSAL CITY, TEXAS
Amdt 2 22AUG13

29°32'N-98°17'W

RANDOLPH AFB (KRND)

VOR/DME or TACAN RWY 32L

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

AIRPORT DIAGRAM

AFD-341 [USAF]

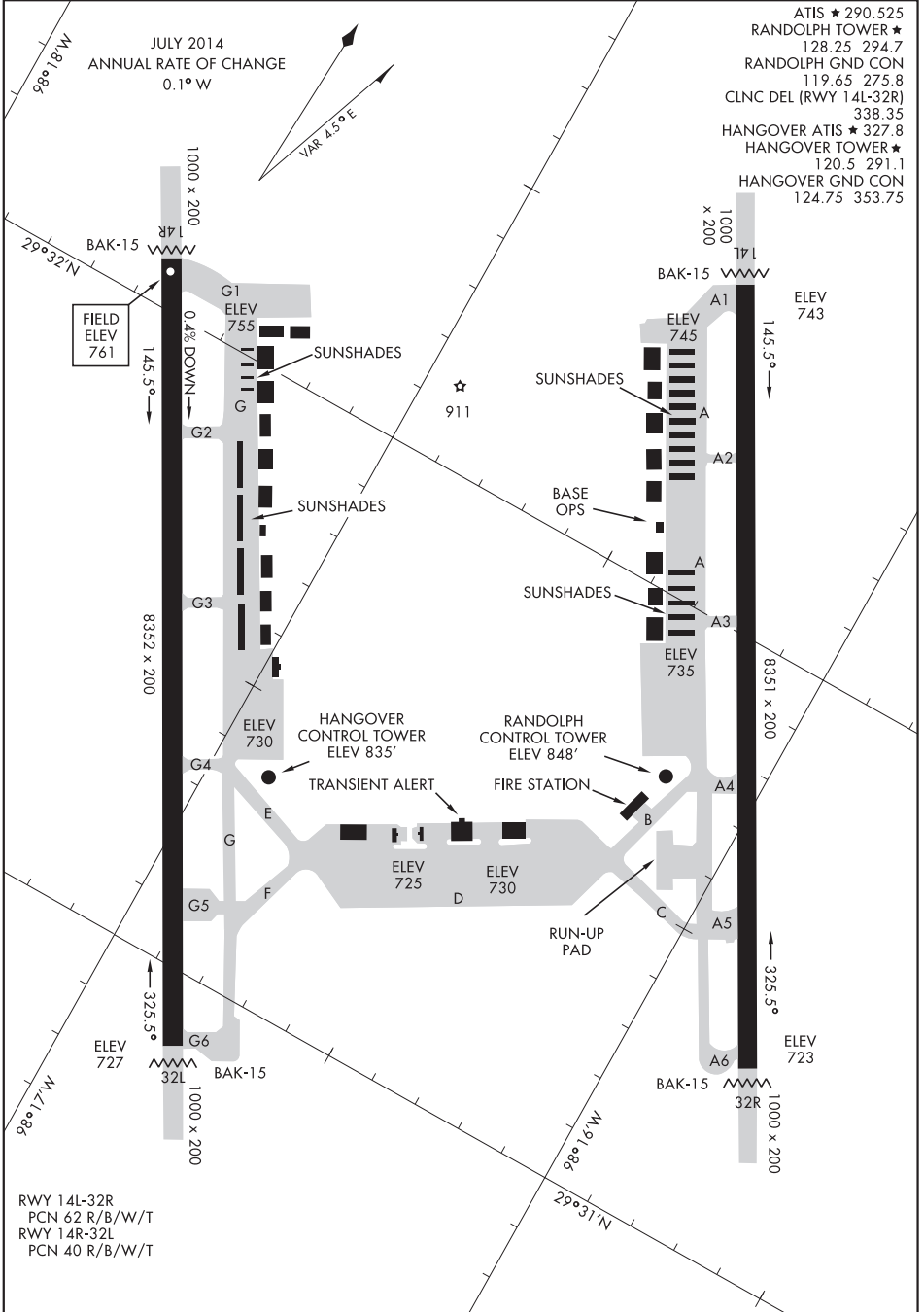
RANDOLPH AFB (KRND)

UNIVERSAL CITY, TEXAS

JULY 2014
ANNUAL RATE OF CHANGE
0.1° W



- ATIS ★ 290.525
- RANDOLPH TOWER ★ 128.25 294.7
- RANDOLPH GND CON 119.65 275.8
- CLNC DEL (RWY 14L-32R) 338.35
- HANGOVER ATIS ★ 327.8
- HANGOVER TOWER ★ 120.5 291.1
- HANGOVER GND CON 124.75 353.75



SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

AIRPORT DIAGRAM

UNIVERSAL CITY, TEXAS

RANDOLPH AFB (KRND)

ROBSTOWN, TEXAS

AL-6929 (FAA)

14149

WAAS CH 97430 W13A	APP CRS 129°	Rwy Idg 3700 TDZE 80 Apt Elev 80
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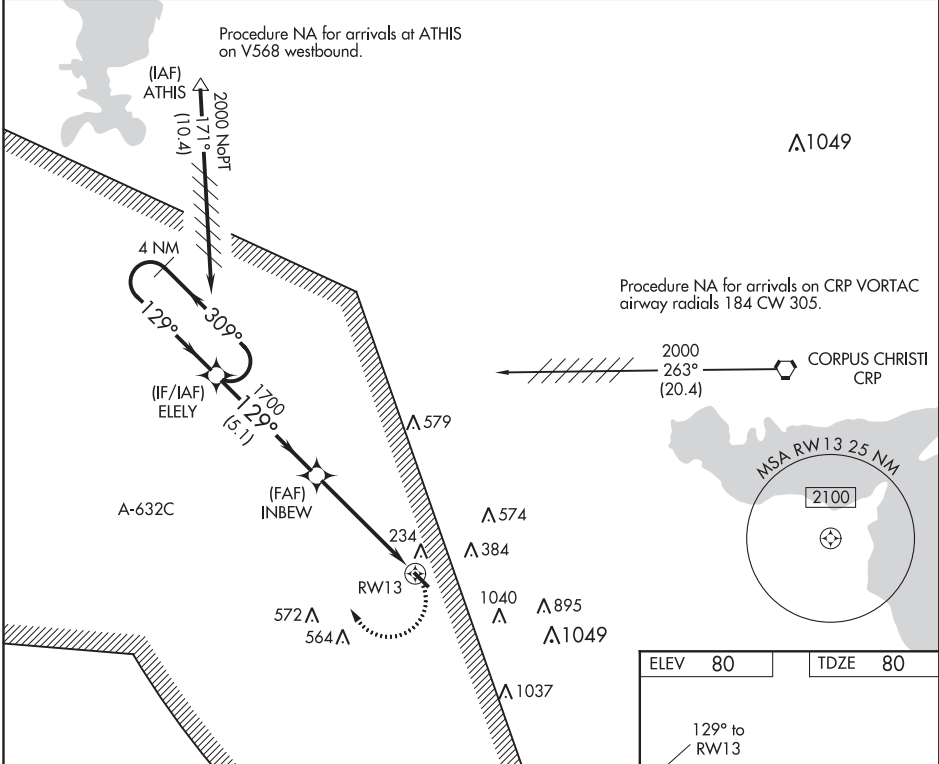
RNAV (GPS) RWY 13

ROBSTOWN/NUECES COUNTY (R.B.O)

▽ Circling NA northeast of Rwy 13-31. Procedure NA at night. DME/DME RNP-0.3 NA. VDP NA with Corpus Christi altimeter setting. When local altimeter setting not received, use Corpus Christi altimeter setting and increase all MDA 40 feet. Helicopter visibility reduction below 1 SM NA.

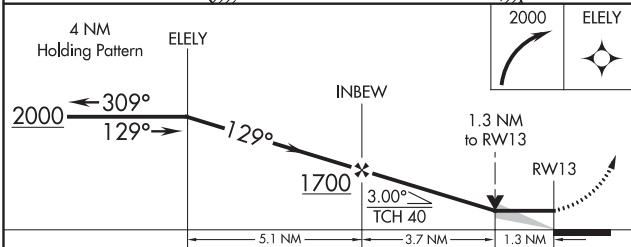
△ MISSED APPROACH: Climbing right turn to 2000 direct ELEY and hold.

AWOS-3 118.175	KINGSVILLE APP CON * 119.9 290.45	CTAF 122.9	122.8 0
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SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017



ELEV 80	TDZE 80
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MIRL Rwy 13-31 **0**

CATEGORY	A	B	C	D
LP MDA	540-1	460 (500-1)		NA
LNAV MDA	560-1	480 (500-1)		NA
CIRCLING	620-1	540 (600-1)		NA

ROBSTOWN, TEXAS
Orig-A 29MAY14

27°47'N-97°41'W

RNAV (GPS) RWY 13

ROBSTOWN, TEXAS

AL-6929 (FAA)

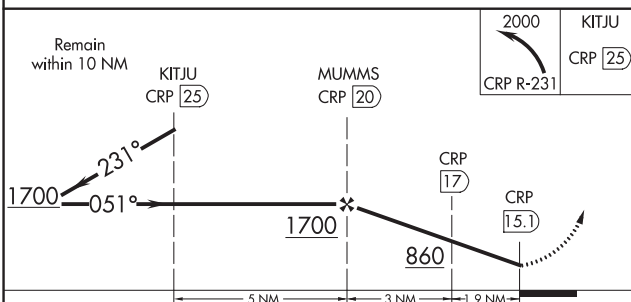
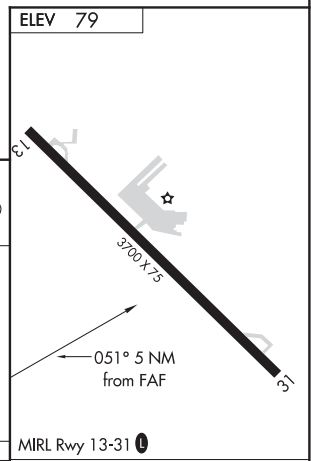
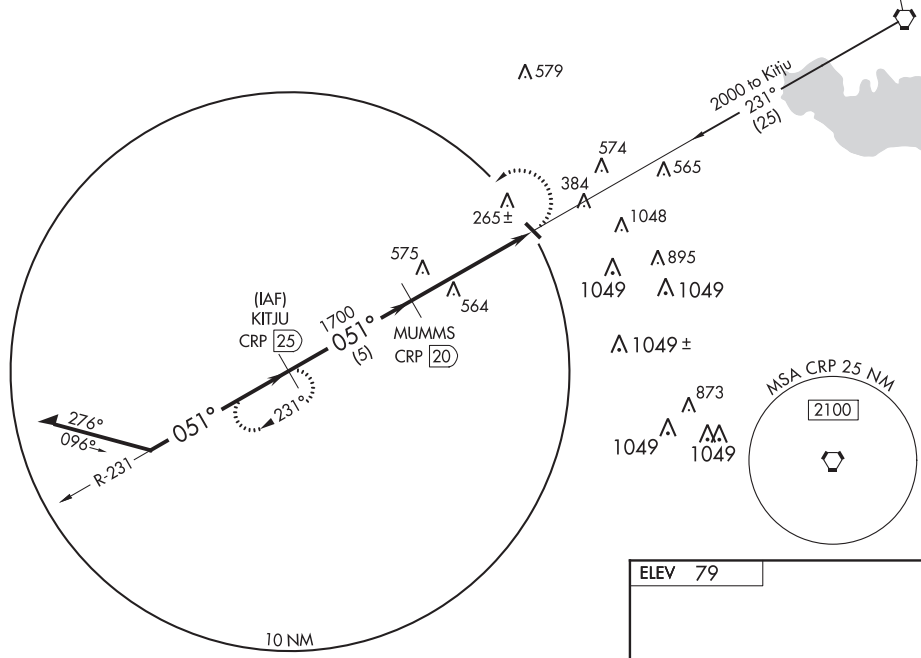
VOR/DME-A

ROBSTOWN/NUECES COUNTY (RBO)

VORTAC CRP 115.5 Chan 102	APP CRS 051°	Rwy Idg TDZE Apt Elev N/A N/A 79
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▽ Use Corpus Christi altimeter setting. △ NA Circling not authorized northeast of Rwy 13-31	MISSED APPROACH: Climbing left turn to 2000 via CRP R-231 to KITJU/CRP 25 DME and hold.		
AWOS-3 118.175	KINGSVILLE APP CON * 119.9 290.45	CTAF 122.9	122.8 0

CORPUS CHRISTI
115.5 CRP
Chan 102



CATEGORY	A	B	C	D	MIRL Rwy 13-31 0	
CIRCLING	660-1	581 (600-1)	NA	NA		
	Knots	60	90	120	150	180
	Min:Sec					

ROBSTOWN, TEXAS
Amdt 3A 07186

27°47'N-97°41'W
377

ROBSTOWN/NUECES COUNTY (RBO)
VOR/DME-A

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

ROCKPORT, TEXAS

AL-991 (FAA)

15260

WAAS CH 53617 W14A	APP CRS 139°	Rwy Idg 5608 TDZE 21 Apt Elev 24
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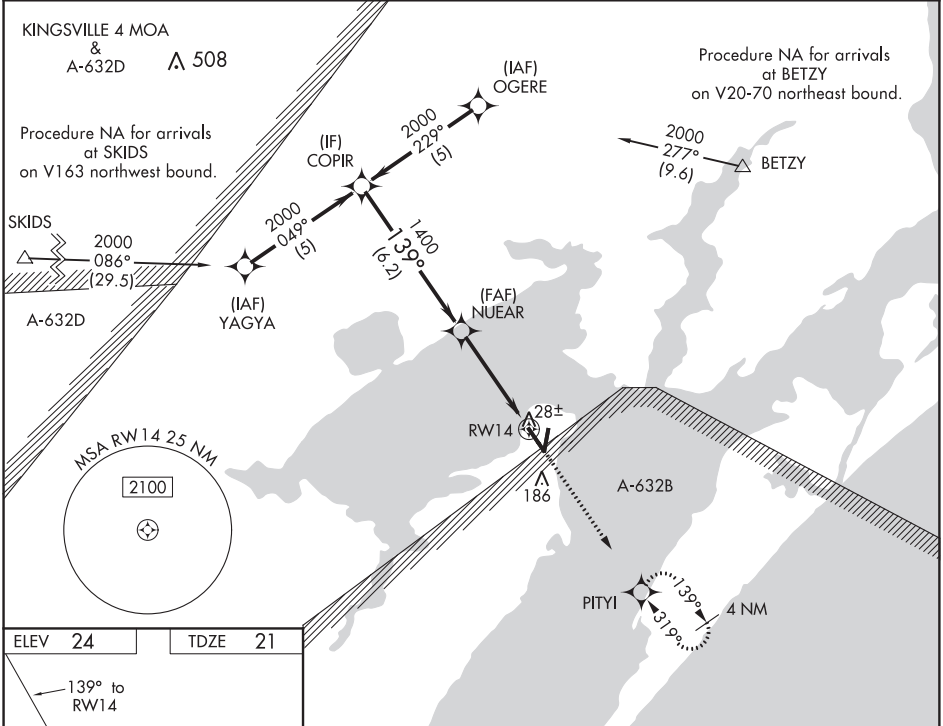
RNAV (GPS) RWY 14

ARANSAS COUNTY (RKP)

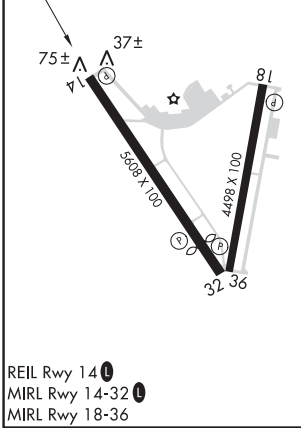
Baro-VNAV NA when using Ingleside altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. Helicopter visibility reduction below 3/4 SM NA. When local altimeter setting not received, use Ingleside altimeter setting and increase all DA 33 feet and all MDA 40 feet increase LNAV/VNAV all Cats visibility 1/4 mile. VDP NA with Ingleside altimeter setting.

MISSED APPROACH:
Climb to 2000 direct PITY1 and hold.

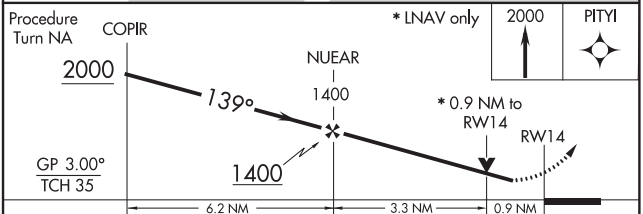
ASOS 119.275	CORPUS APP CON 120.9 348.725	CLNC DEL 121.7	UNICOM 123.05 (CTAF) 0
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ELEV 24	TDZE 21
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REIL Rwy 14
MIRL Rwy 14-32
MIRL Rwy 18-36



CATEGORY	A	B	C	D
LPV DA		271-1	250 (300-1)	NA
LNAV/VNAV DA		378-1 1/4	357 (400-1 1/4)	NA
LNAV MDA		320-1	299 (300-1)	NA
CIRCLING	500-1	476 (500-1)	500-1 1/2 476 (500-1 1/2)	NA

ROCKPORT, TEXAS
Amdt 3A 04APR13

28°05'N-97°03'W

ARANSAS COUNTY (RKP)

RNAV (GPS) RWY 14

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

WAAS CH 50517 W18A	APP CRS 184°	Rwy Idg TDZE Apt Elev	4498 22 24
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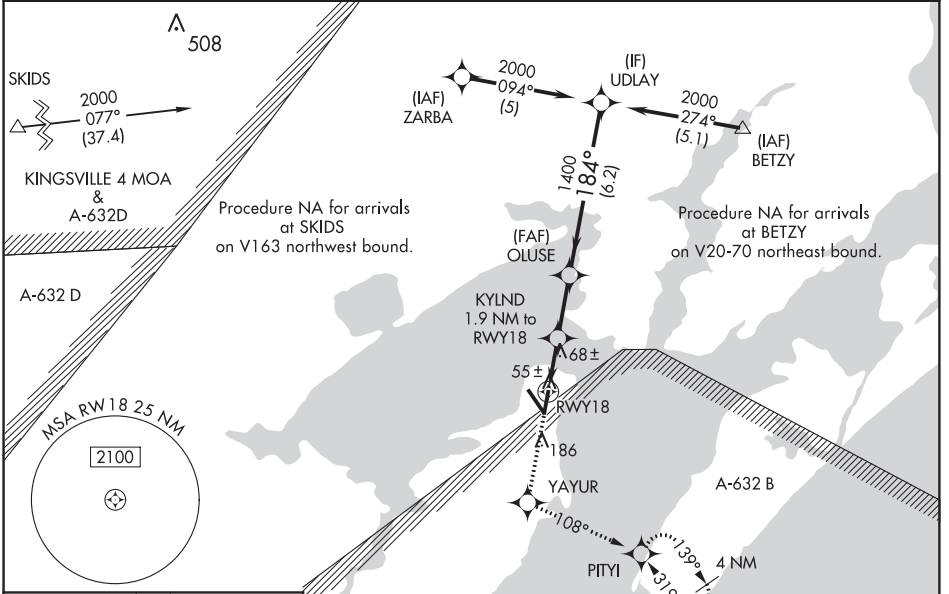
RNAV (GPS) RWY 18

ARANSAS COUNTY (RKP)

⚠ Baro-VNAV NA when using Ingleside altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. Helicopter visibility reduction below ¾ SM NA. When local altimeter setting not received, use Ingleside altimeter setting and increase all DA 33 feet and all MDA 40 feet; increase LNAV/VNAV visibility all Cats ¼ mile. VDP NA with Ingleside altimeter setting.

MISSED APPROACH: Climb to 2000 direct YAYUR and on track 108° to PITYI and hold, continue climb-in-hold to 2000.

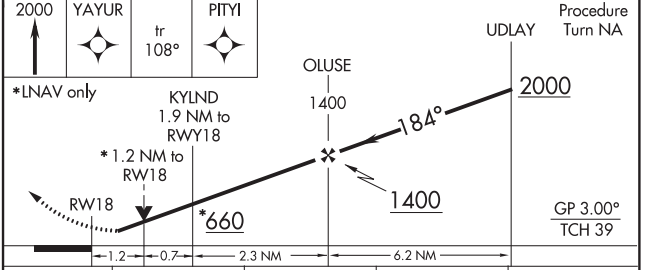
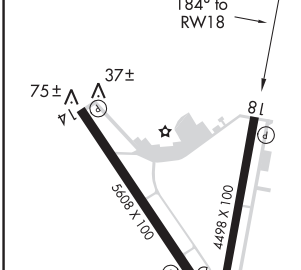
ASOS 119.275	CORPUS APP CON 120.9 348.725	CLNC DEL 121.7	UNICOM 123.05 (CTAF) ①
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SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

ELEV 24	TDZE 22
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CATEGORY	A	B	C	D
LPV DA	272-1	250 (300-1)		NA
LNAV/VNAV DA	459-1½	437 (500-1½)		NA
LNAV MDA	440-1	418 (500-1)	440-1¼ 418 (500-1¼)	NA
CIRCLING	500-1	476 (500-1)	500-1½ 476 (500-1½)	NA

REIL Rwy 14 ①
MIRL Rwy 14-32 ①
MIRL Rwy 18-36

ROCKPORT, TEXAS

AL-991 (FAA)

15260

WAAS CH 45917 W32A	APP CRS 319°	Rwy Idg TDZE 24 Apt Elev 24	5608
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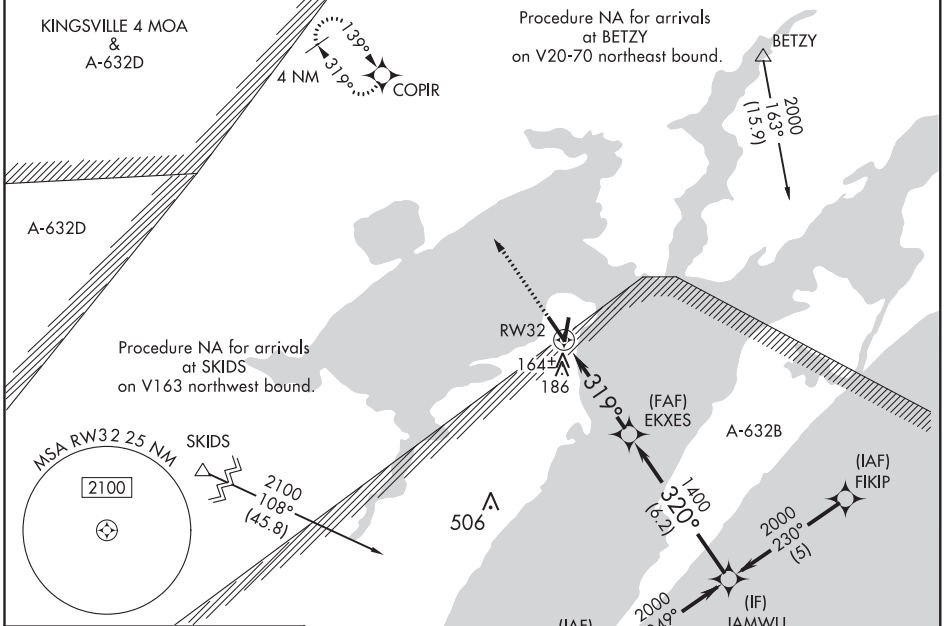
RNAV (GPS) RWY 32

ARANSAS COUNTY (R.K.P)

Baro-VNAV NA when using Ingleside altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. Helicopter visibility reduction below ¾ SM NA. When local altimeter setting not received, use Ingleside altimeter setting and increase all DA 33 feet and all MDA 40 feet, increase LNAV Cat C visibility ¼ mile. VDP NA with Ingleside altimeter setting.

MISSED APPROACH:
Climb to 2000 direct COPIR and hold.

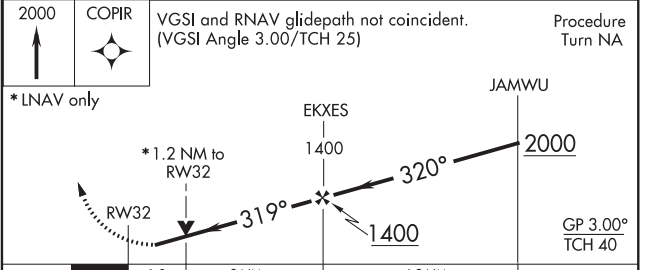
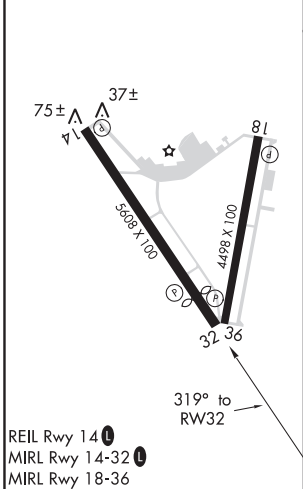
ASOS 119.275	CORPUS APP CON 120.9 348.725	CLNC DEL 121.7	UNICOM 123.05 (CTAF)
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SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

ELEV 24	TDZE 24
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CATEGORY	A	B	C	D
LPV DA		274-1 250 (300-1)		NA
LNAV/VNAV DA		508-1¾ 484 (500-1¾)		NA
LNAV MDA		420-1 396 (400-1)		NA
CIRCLING	500-1	476 (500-1)	500-1½ 476 (500-1½)	NA

ROCKPORT, TEXAS
Orig-A 04APR13

28°05'N-97°03'W

ARANSAS COUNTY (R.K.P)

RNAV (GPS) RWY 32

WAAS CH 61317 W36A	APP CRS 004°	Rwy Idg TDZE 23 Apt Elev 24	4498
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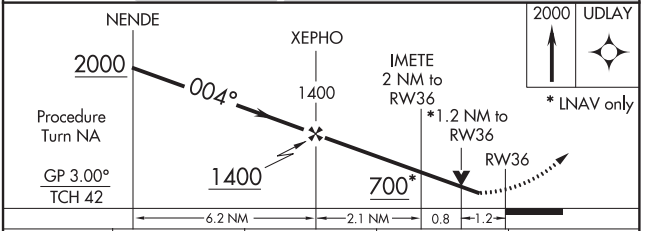
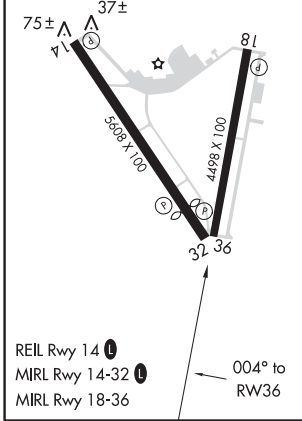
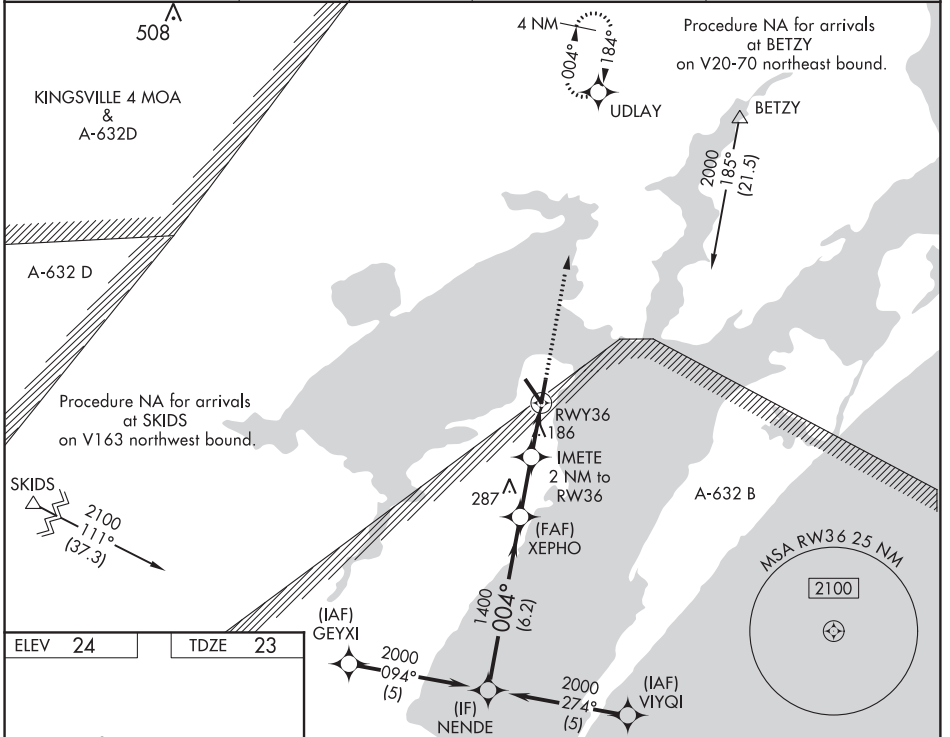
RNAV (GPS) RWY 36

ARANSAS COUNTY (RKP)

Baro-VNAV NA when using Ingleside altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -1.5°C (5°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Ingleside altimeter setting and increase all DA 33 feet and all MDA 40 feet. VDP NA with Ingleside altimeter setting.

MISSED APPROACH: Climb to 2000 direct UDLAY and hold.

ASOS 119.275	CORPUS APP CON 120.9 348.725	CLNC DEL 121.7	UNICOM 123.05 (CTAF) ①
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CATEGORY	A	B	C	D
LPV DA	273-1 250 (300-1)			NA
LNAV/VNAV DA	498-1¾ 475 (500-1¾)			NA
LNAV MDA	440-1	417 (500-1)	440-1¼ 417 (500-1¼)	NA
CIRCLING	500-1	476 (500-1)	500-1½ 476 (500-1½)	NA

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

ROCKPORT, TEXAS

AL-991 (FAA)

15260

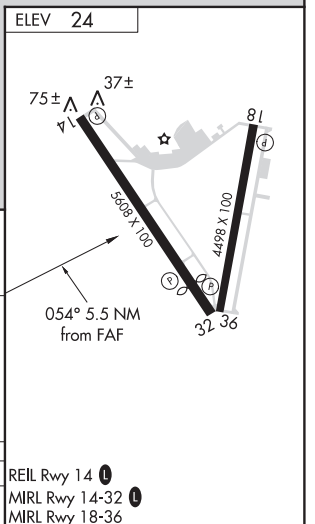
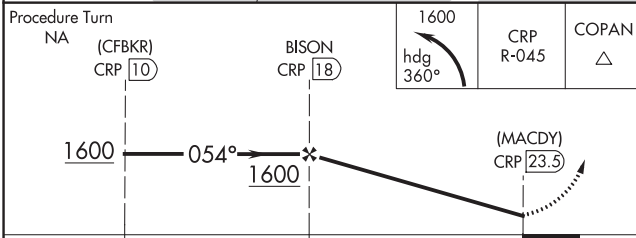
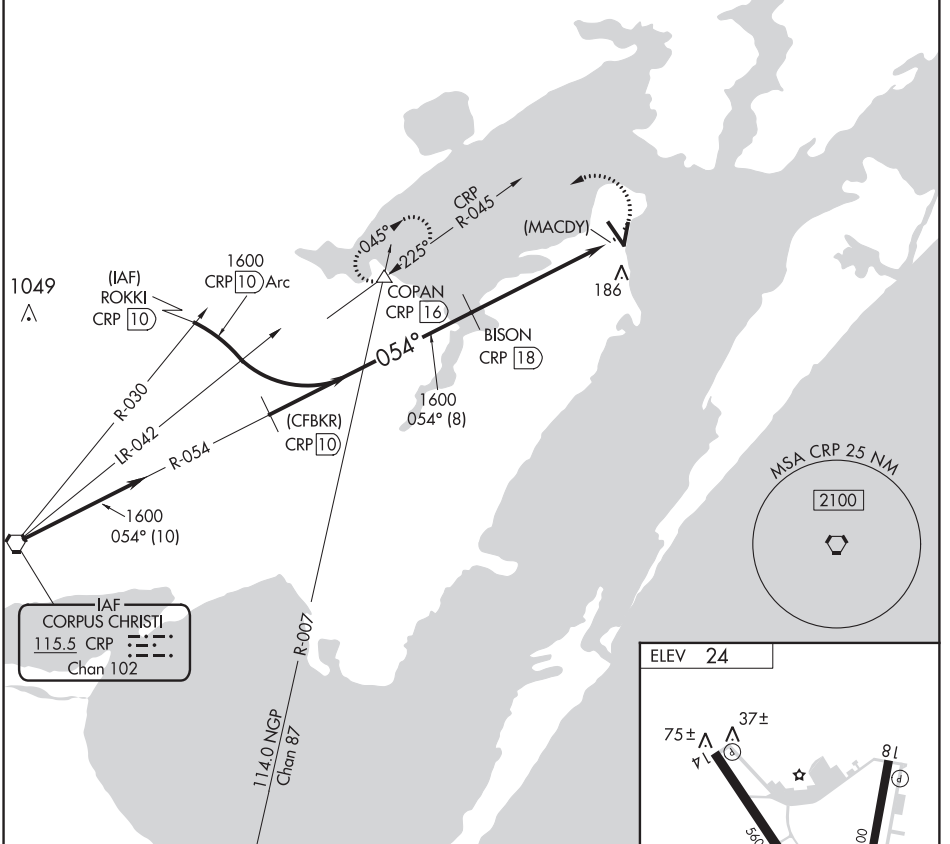
VORTAC CRP 115.5 Chan 102	APP CRS 054°	Rwy Idg TDZE Apt Elev	N/A N/A 24
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VOR/DME or TACAN-A

ARANSAS COUNTY (RKP)

		MISSED APPROACH: Climbing left turn to 1600 via heading 360° and CRP R-045 to COPAN Int/16 DME and hold.	
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ASOS 119.275	CORPUS APP CON 120.9 348.725	CLNC DEL 121.7	UNICOM 123.05 (CTAF)
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CATEGORY	A	B	C	D	REIL Rwy 14
CIRCLING	800-1 776 (800-1)	800-1¼ 776 (800-1¼)	800-2¼ 776 (800-2¼)	NA	MIRL Rwy 14-32
					MIRL Rwy 18-36

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

RNAV (GPS) RWY 14

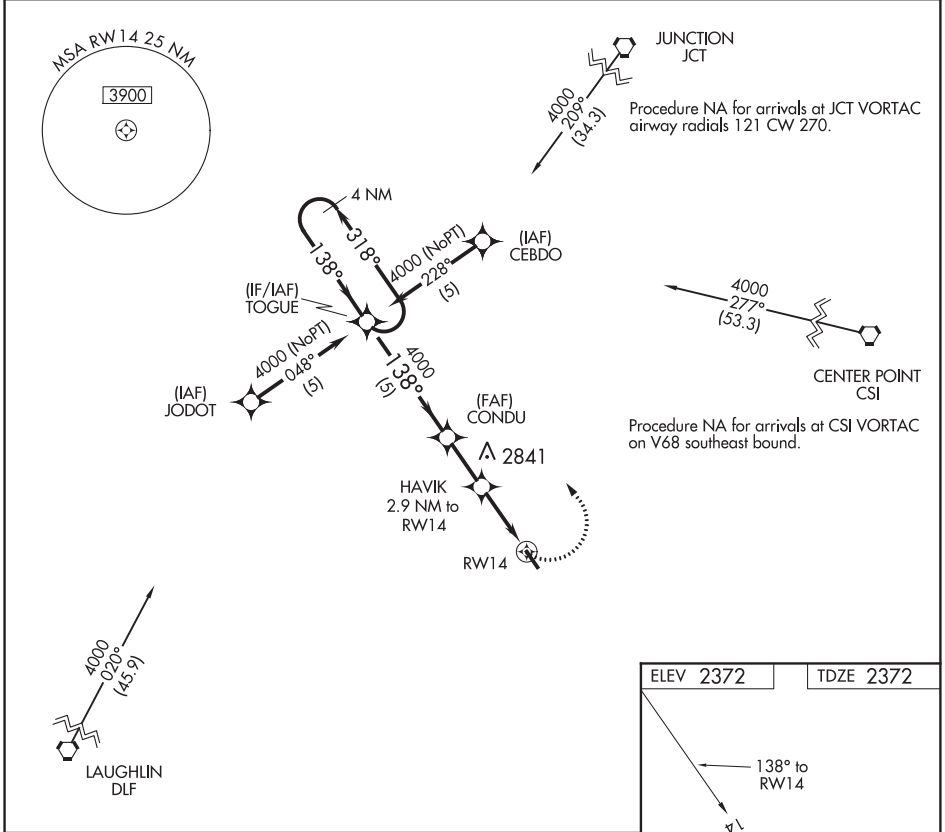
EDWARDS COUNTY (ECU)

APP CRS 138°	Rwy Idg 3772
	TDZE 2372
	Apt Elev 2372

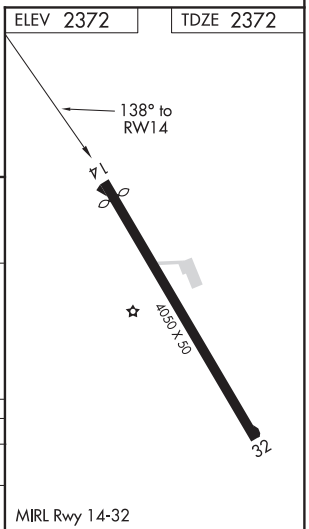
NA DME/DME RNP-0.3 NA. Procedure NA at night. Helicopter visibility reduction below 1 SM NA.

MISSED APPROACH: Climbing left turn to 4000 direct TOGUE and hold.

AWOS-3 118.175	DEL RIO APP CON ★ 119.6 259.1	CTAF 122.9
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4 NM Holding Pattern	TOGUE	CONDU	HAVIK 2.9 NM to RWY 14	RWY 14
4000	4000	3320		
CATEGORY	A	B	C	D
RNAV MDA	2960-1	588 (600-1)	2960-1½ 588 (600-1½)	NA
CIRCLING	3000-1	628 (700-1)	3000-1¾ 628 (700-1¾)	NA



SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

ROCKSPRINGS, TEXAS

AL-6005 (FAA)

15204

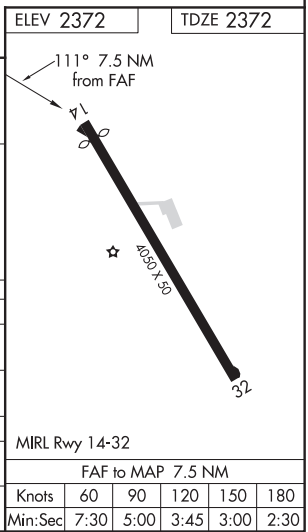
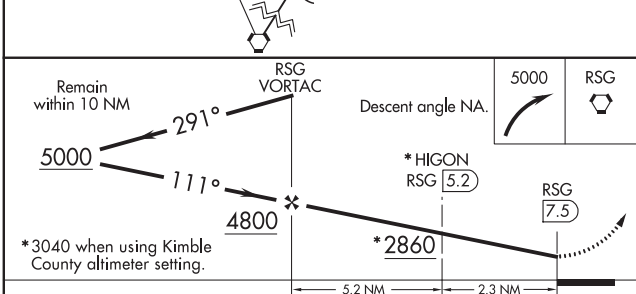
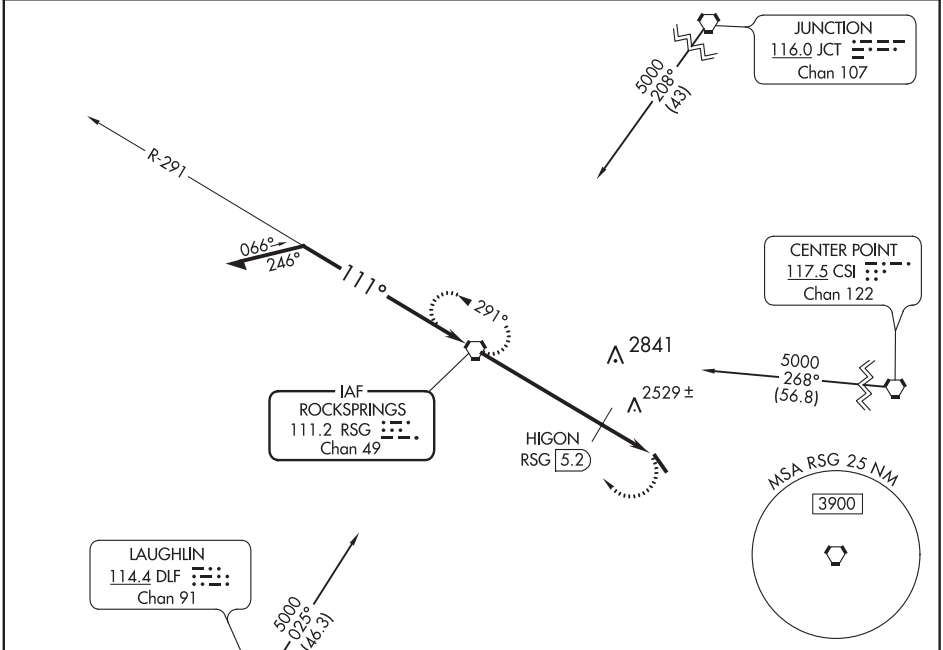
VORTAC RSG 111.2 Chan 49	APP CRS 111°	Rwy Idg TDZE Apt Elev	3772 2372 2372
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VOR RWY 14
EDWARDS COUNTY (ECU)

⚠ If local altimeter setting not received, use Kimble County altimeter setting and increase all MDAs 180 feet. VDP NA when using Kimble County altimeter setting. Visibility reduction by helicopters NA. Procedure NA at night. Helicopter visibility reduction below 1 SM NA.

⚠ MISSED APPROACH: Climbing right turn to 5000 direct RSG VORTAC and hold, continue climb-in-hold to 5000.

AWOS-3 118.175	DEL RIO APP CON * 119.6 259.1	CTAF 122.9
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CATEGORY	A	B	C	D
S-14	2860-1	488 (500-1)	2860-1¼ 488 (500-1¼)	NA
CIRCLING	2860-1	488 (500-1)	2860-1½ 488 (500-1½)	NA
HIGON FIX MINIMUMS				
S-14	2780-1	408 (500-1)	2780-1¼ 408 (500-1¼)	NA
CIRCLING	2800-1 428 (500-1)	2840-1 468 (500-1)	2840-1½ 468 (500-1½)	NA

ELEV 2372	TDZE 2372
MIRA Rwy 14-32	
FAF to MAP 7.5 NM	
Knots	60 90 120 150 180
Min:Sec	7:30 5:00 3:45 3:00 2:30

ROCKSPRINGS, TEXAS
Amdt 5A 23JUL15

29°57'N-100°10'W

EDWARDS COUNTY (ECU)
VOR RWY 14

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

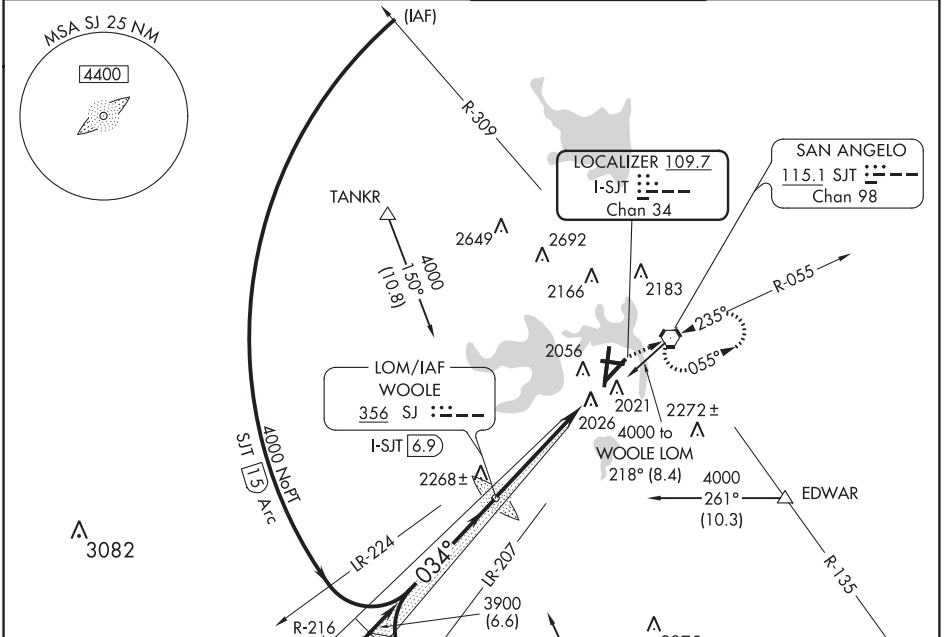
LOC/DME I-SJT 109.7 Chan 34	APP CRS 034°	Rwy Idg 5939	TDZE 1917	Apt Elev 1917
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ILS or LOC RWY 3

SAN ANGELO RGNL/MATHIS FIELD (SJT)

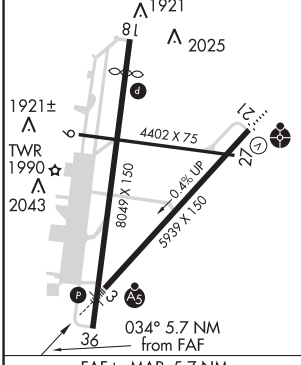
<p>* Procedure Turn NA for Cat E. Cat E Circling NA west of Rwy 18-36.</p>	<p>MALSR</p>	<p>MISSED APPROACH: Climb to 4000, then right turn direct SJT VORTAC and hold.</p>
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ATIS 128.45 319.0	SAN ANGELO APP CON * 125.35 354.1	MATHIS TOWER * 118.3(CTAF) 0 284.7	GND CON 121.9 348.6
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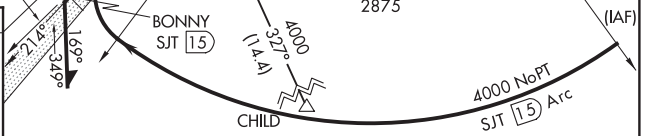


ELEV 1917	D	TDZE 1917
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MIRL Rwy 9-27 and 18-36
HIRL Rwy 3-21
REIL Rwy 18 and 21



Knots	60	90	120	150	180
Min:Sec	5:42	3:48	2:51	2:17	1:54



4000		SJT
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CATEGORY	A	B	C	D	E
S-ILS 3	211 7-½ 200 (200-½)				
S-LOC 3	2420-½ 503 (600-½)	2420-1 503 (600-1)	2420-1½ 503 (600-1½)		
CIRCLING	2460-1 543 (600-1)	2460-1½ 543 (600-1½)	2480-2 563 (600-2)	2640-2½ 721 (800-2½)	

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

SAN ANGELO, TEXAS

AL-367 (FAA)

RNAV (GPS) RWY 3

SAN ANGELO RGNL/MATHIS FIELD (SJT)

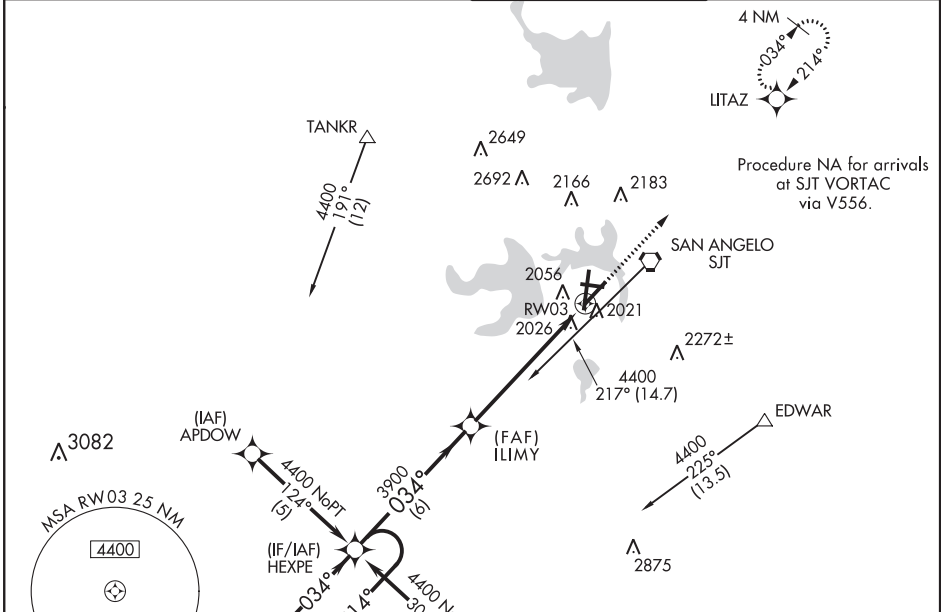
WAAS CH 77517 W03A	APP CRS 034°	Rwy Idg TDZE Apt Elev	5939 1917 1919
---------------------------------	------------------------	-----------------------------	---

ASR For inoperative MALSR, increase LPV visibility to 3/4 mile all Cats and LNAV Cat D visibility to 1/2 mile. Baro VNAV NA below -18°C (0°F). Circling to Rwy 09 and 36 NA at night. DME/DME RNP-0.3 NA.

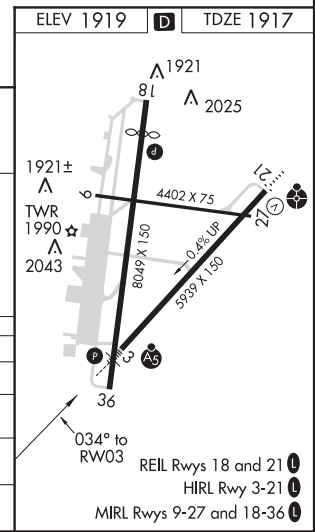
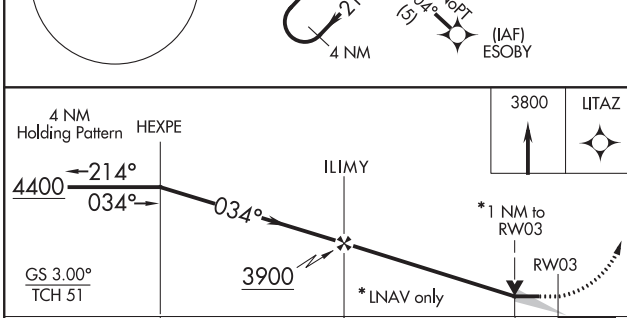
MALSR

MISSED APPROACH: Climb to 3800 direct LITAZ and hold.

ATIS 128.45 319.0	SAN ANGELO APP CON ★ 125.35 354.1	MATHIS TOWER ★ 118.3(CTAF) 0 284.7	GND CON 121.9 348.6
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Procedure NA for arrivals at SJT VORTAC via V556.



CATEGORY	ELEV 1919 TDZE 1917			
	A	B	C	D
LPV DA	2167-1/2		250 (300-1/2)	
LNAV/VNAV DA	2301-3/4		384 (400-3/4)	
LNAV MDA	2300-1/2 383 (400-1/2)		2300-1 383 (400-1)	
CIRCLING	2460-1 1/4 541 (600-1 1/4)		2460-1 1/2 541 (600-1 1/2) 2480-2 561 (600-2)	

SAN ANGELO, TEXAS
Amdt 1 14205

31°21'N-100°30'W

SAN ANGELO RGNL/MATHIS FIELD (SJT)
RNAV (GPS) RWY 3

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

RNAV (GPS) RWY 18

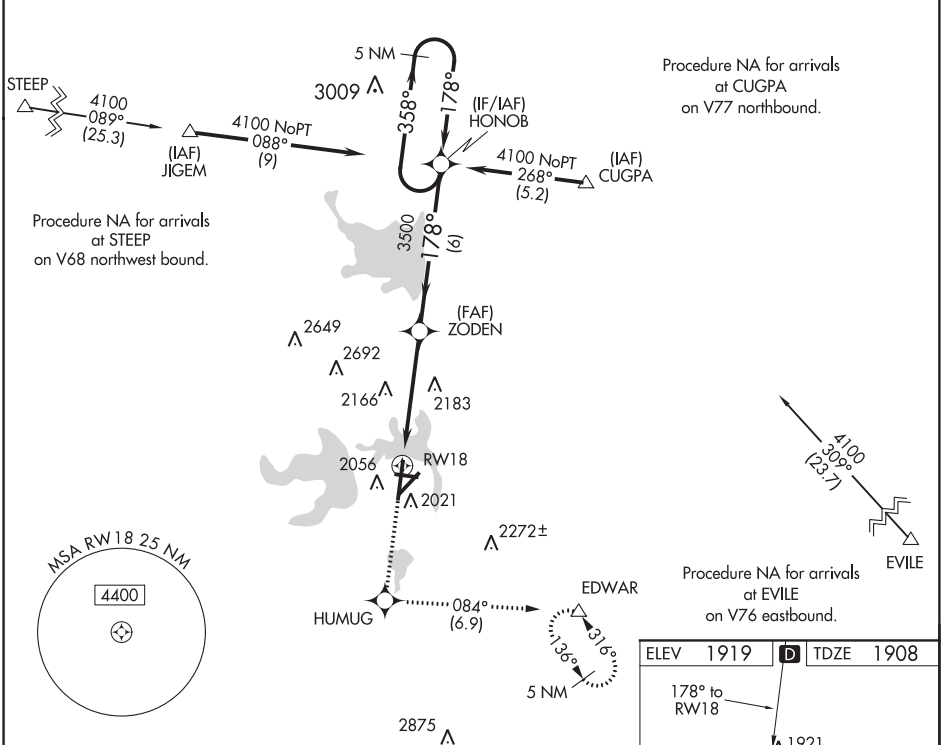
SAN ANGELO RGNL/MATHIS FIELD (SJT)

WAAS CH 93801 W18A	APP CRS 178°	Rwy Idg TDZE Apt Elev	7160 1908 1919
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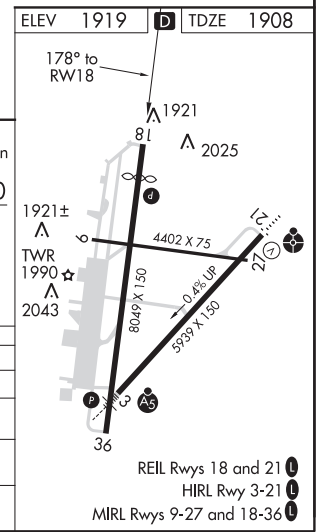
ASR DME/DME RNP-0.3 NA. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -18°C (0°F) or above 45°C (113°F).

MISSED APPROACH: Climb to 4000 direct HUMUG and left turn via 084° track to EDWAR and hold.

ATIS 128.45 319.0	SAN ANGELO APP CON * 125.35 354.1	MATHIS TOWER * 118.3(CTAF) 284.7	GND CON 121.9 348.6
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4000	HUMUG	EDWAR	HONOB	5 NM Holding Pattern
↑	☉	△	☉	→
	084° tr			
RW18		ZODEN	3500	178°
1.6 NM		3.2 NM	6 NM	
CATEGORY	A	B	C	D
LPV DA	2158-1 250 (300-1)			
LNAV/VNAV DA	2325-1½ 417 (500-1½)			
LNAV MDA	2440-1	532 (600-1)	2440-1½	2440-1¾
			532 (600-1½)	532 (600-1¾)
CIRCLING	2460-1½	541 (600-1½)		2480-2
				561 (600-2)



SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

SAN ANGELO, TEXAS

AL-367 (FAA)

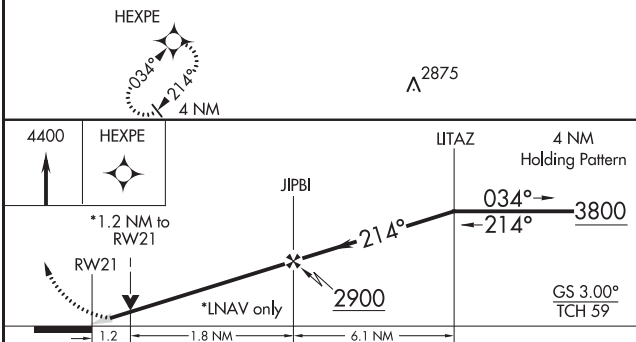
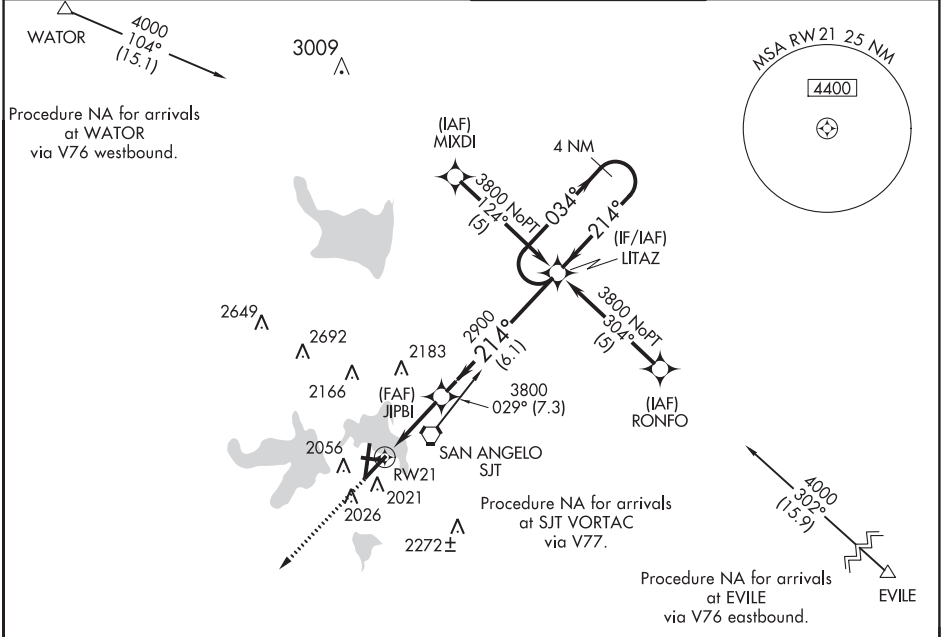
WAAS CH 81817 W21A	APP CRS 214°	Rwy Idg TDZE Apt Elev	5939 1906 1919
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RNAV (GPS) RWY 21

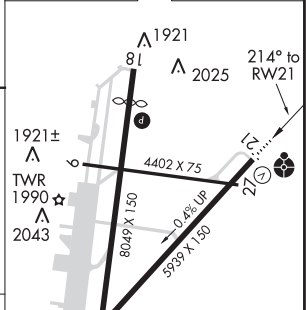
SAN ANGELO RGNL/MATHIS FIELD (SJT)

<p>ASR DME/DME RNP-0.3 NA. Baro VNAV NA below -18°C (0°F). Inoperative table does not apply to LPV, LNAV/VNAV all Cats and LNAV Cat C. Circling Rwy 9 and 36 NA at night.</p>	<p>ODALS</p>	<p>MISSED APPROACH: Climb to 4400 direct HEXPE and hold.</p>
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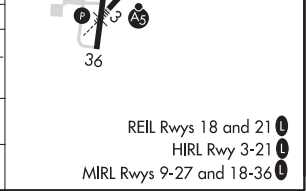
<p>ATIS 128.45 319.0</p>	<p>SAN ANGELO APP CON * 125.35 354.1</p>	<p>MATHIS TOWER * 118.3(CTAF) 0 284.7</p>	<p>GND CON 121.9 348.6</p>
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ELEV 1919	D	TDZE 1906
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CATEGORY	A	B	C	D
LPV DA	2156-3/4		250 (300-3/4)	
LNAV/VNAV DA	2325-1 1/2		419 (500-1 1/2)	
LNAV MDA	2340-3/4	434 (500-3/4)	2340-1 1/4 434 (500-1 1/4)	2340-1 1/2 434 (500-1 1/2)
CIRCLING	2460-1 1/2		541 (600-1 1/2)	
				2480-2 561 (600-2)



SAN ANGELO, TEXAS
Amdt 1 14205

31°21'N-100°30'W

SAN ANGELO RGNL/MATHIS FIELD (SJT) RNAV (GPS) RWY 21

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

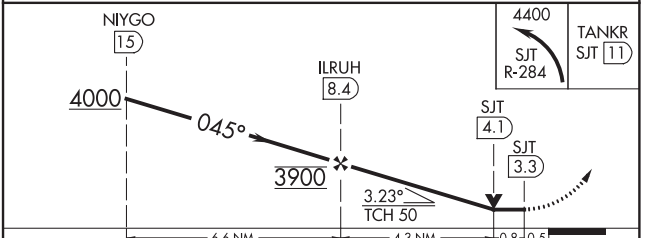
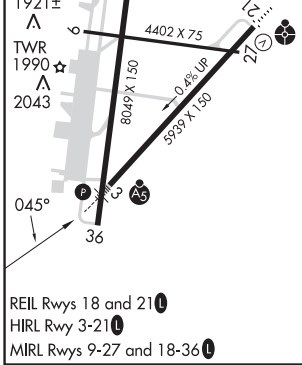
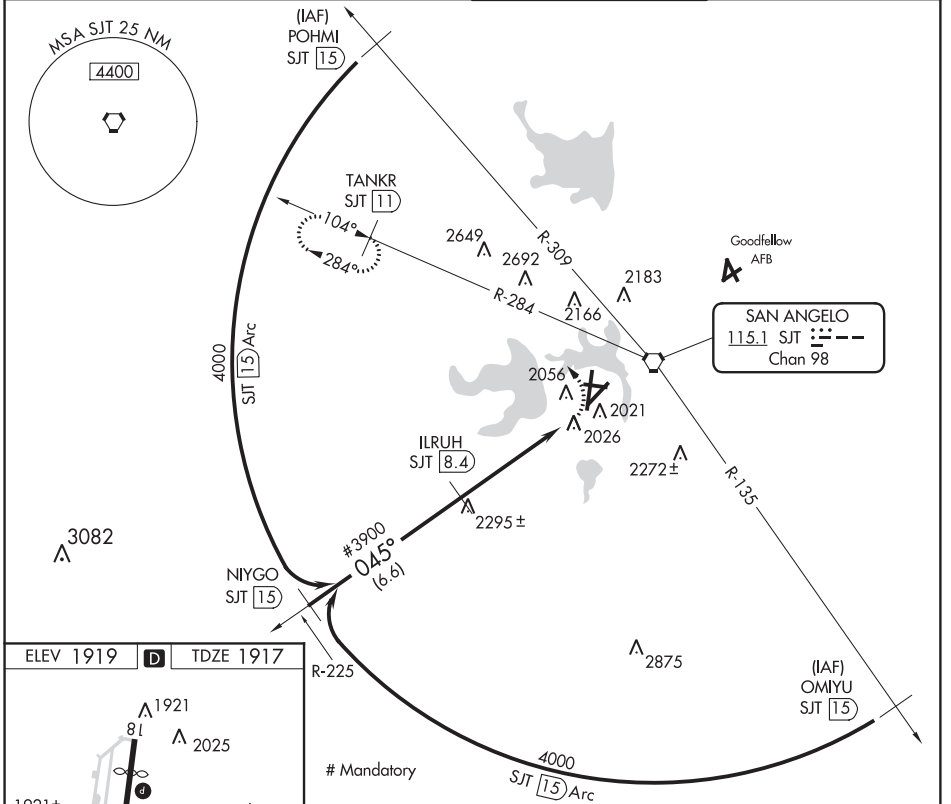
VORTAC SJT 115.1 Chan 98	APP CRS 045°	Rwy Idg 5939 TDZE 1917 Apt Elev 1919
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VOR/DME or TACAN RWY 3

SAN ANGELO RGNL/MATHIS FIELD (SJT)

<p>* Cat E Circling NA west of Rwy 18-36.</p>		<p>MISSED APPROACH: Climbing left turn to 4400 via SJT R-284 to TANKR/11 DME and hold.</p>
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<p>ATIS 128.45 319.0</p>	<p>SAN ANGELO APP CON * 125.35 354.1</p>	<p>MATHIS TOWER * 118.3(CTAF) 284.7</p>	<p>GND CON 121.9 348.6</p>
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CATEGORY	A	B	C	D	E
S-3	2420-1/2	503 (600-1/2)	2420-1	503 (600-1)	2420-1/4 503 (600-1/4)
CIRCLING*	2460-1	541 (600-1)	2460-1 1/2 541 (600-1 1/2)	2480-2 561 (600-2)	2640-2 1/2 721 (800-2 1/2)

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

SAN ANGELO, TEXAS

AL-367 (FAA)

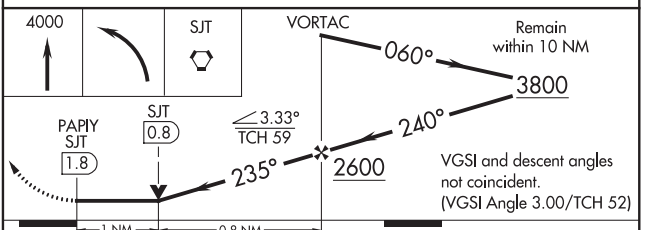
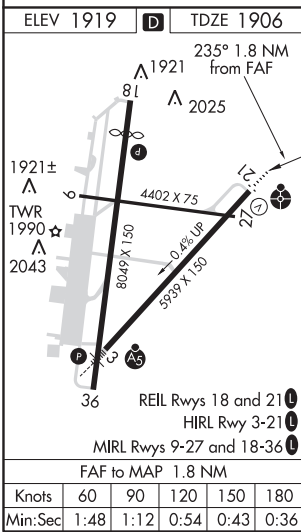
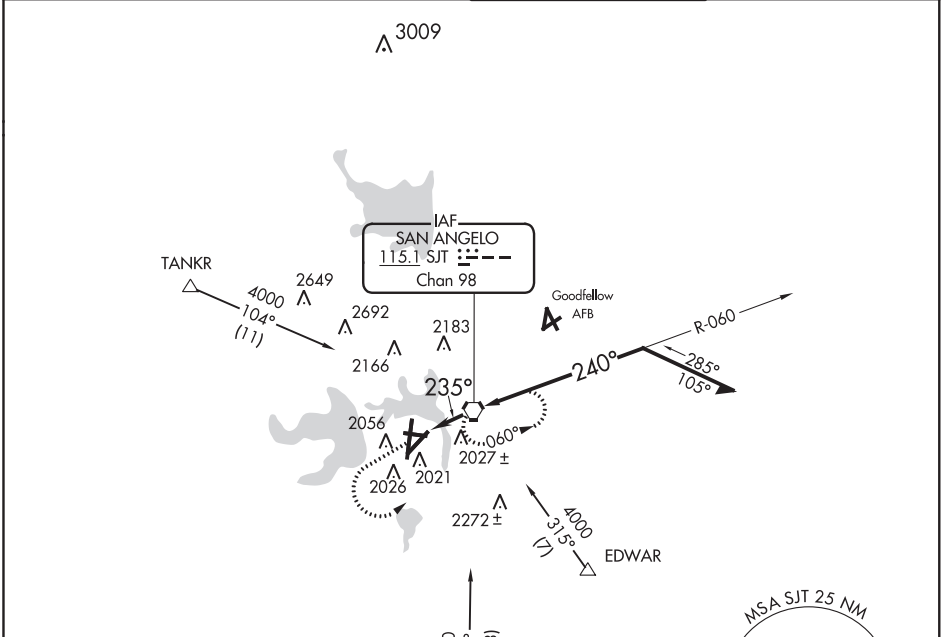
VORTAC SJT 115.1 Chan 98	APP CRS 235°	Rwy Idg TDZE Apt Elev 5939 1906 1919
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VOR RWY 21

SAN ANGELO RG/NL/MATHIS FIELD (SJT)

 ASR	ODALS 	MISSED APPROACH: Climb to 4000 then left turn direct SJT VORTAC and hold.
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ATIS 128.45 319.0	SAN ANGELO APP CON * 125.35 354.1	MATHIS TOWER * 118.3(CTAF) 284.7	GND CON 121.9 348.6
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CATEGORY	A	B	C	D
S-21	2280-3/4	374 (400-3/4)	2280-1 1/4	374 (400-1 1/4)
CIRCLING	2460-1	541 (600-1)	2460-1 1/2	2480-2
			541 (600-1 1/2)	561 (600-2)

SAN ANGELO, TEXAS
Amdt 17 14205

SAN ANGELO RG/NL/MATHIS FIELD (SJT)

31°21'N-100°30'W

VOR RWY 21

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

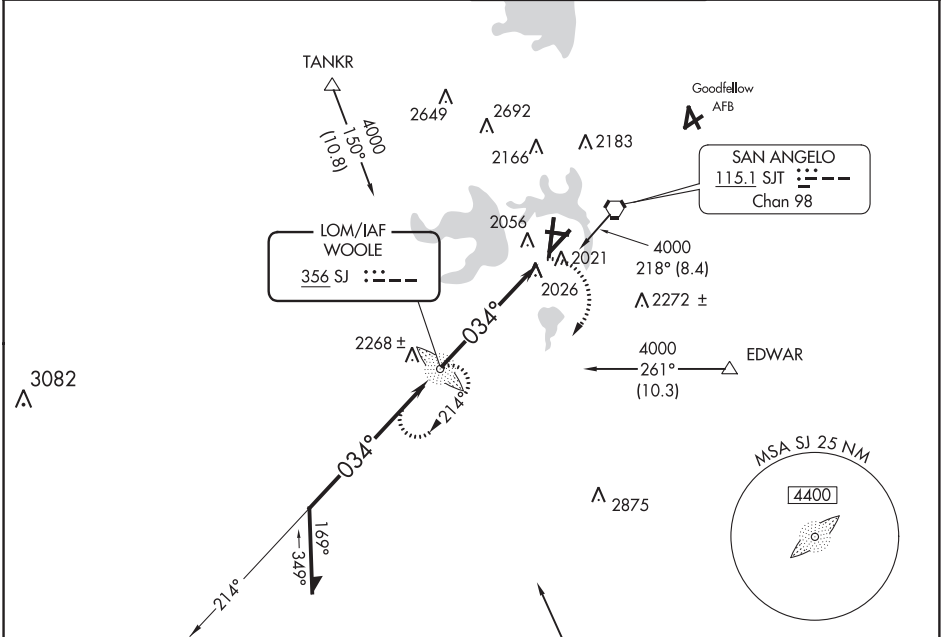
NDB RWY 3

SAN ANGELO/MATHIS FIELD (SJT)

LOM SJ 356	APP CRS 034°	Rwy Idg 5939 TDZE 1917 Apt Elev 1917
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		MISSED APPROACH: Climbing right turn to 4000 direct WOOLE LOM and hold.	

ATIS 128.45 319.0	SAN ANGELO APP CON * 125.35 354.1	MATHIS TOWER * 118.3(CTAF) 284.7	GND CON 121.9 348.6
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ELEV 1917		TDZE 1917
MIRL Rwy 9-27 and 18-36 HIRL Rwy 3-21 REIL Rwy 18 and 21		
Knots: 60 90 120 150 180 Min:Sec: 5:42 3:48 2:51 2:17 1:54		

Remain within 10 NM	LOM		4000	4000	WOOLE
	214°	034°	3900	3.19°	TCH 45
5.7 NM					

CATEGORY	A	B	C	D
S-3	2460-3/4 543 (600-3/4)		2460-1 543 (600-1)	2460-1 1/2 543 (600-1 1/2)
CIRCLING	2460-1 543 (600-1)		2460-1 1/2 543 (600-1 1/2)	2480-2 563 (600-2)

SC-3, 10 NOV 2016 to 05 JAN 2017

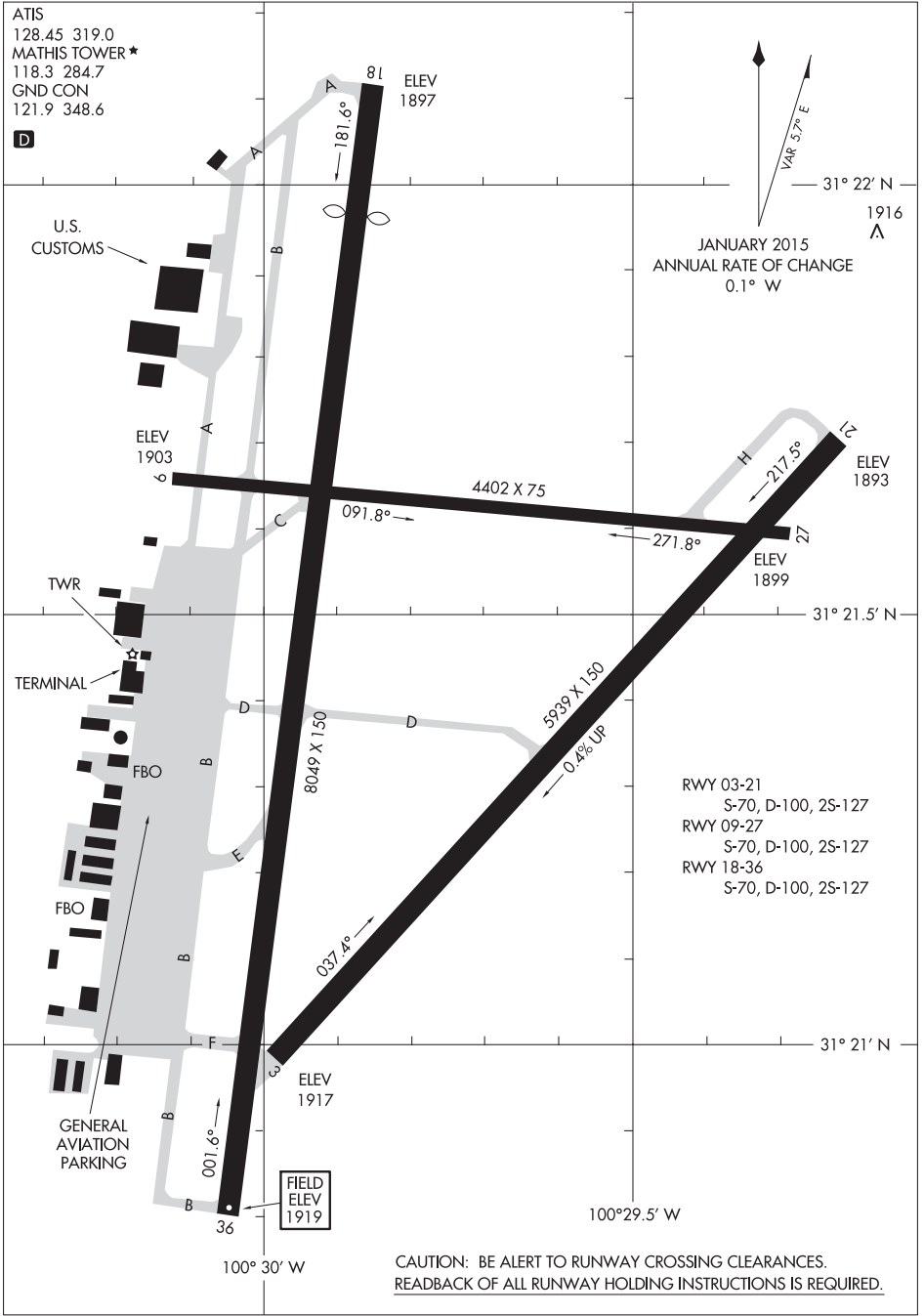
SC-3, 10 NOV 2016 to 05 JAN 2017

AIRPORT DIAGRAM

ATIS
 128.45 319.0
 MATHIS TOWER ★
 118.3 284.7
 GND CON
 121.9 348.6

AL-367 (FAA)

SAN ANGELO RGNL/ MATHIS FIELD (SJT)
 SAN ANGELO, TEXAS



- RWY 03-21
S-70, D-100, 2S-127
- RWY 09-27
S-70, D-100, 2S-127
- RWY 18-36
S-70, D-100, 2S-127

CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
 READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

AIRPORT DIAGRAM

15064

SAN ANGELO, TEXAS
 SAN ANGELO RGNL/ MATHIS FIELD (SJT)

WAAS CH 50528 W17A	APP CRS 169°	Rwy Idg 3783 TDZE 1385 Apt Elev 1385
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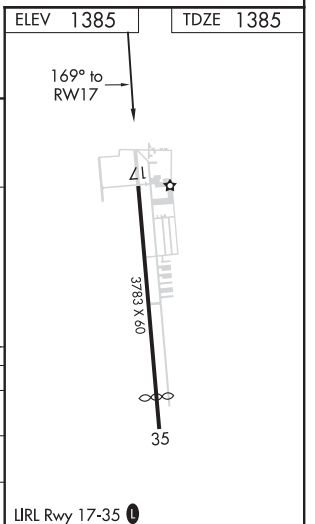
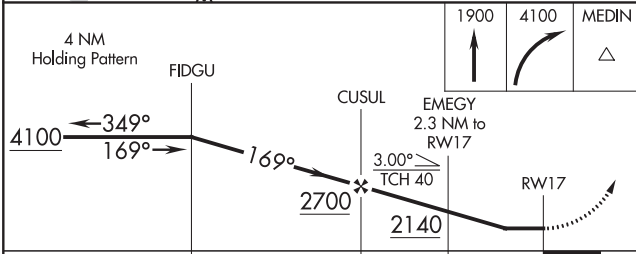
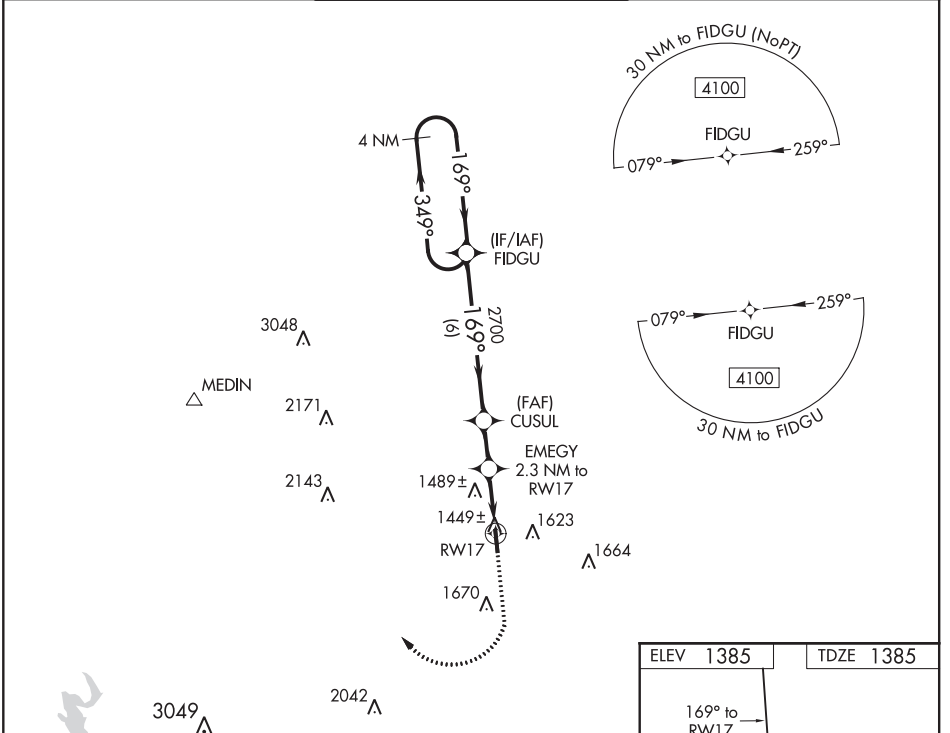
RNAV (GPS) RWY 17

BOERNE STAGE FIELD (5C1)

⚠ Circling NA east of Rwy 17-35. DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use San Antonio Intl altimeter setting and increase all MDA 120 feet. Procedure NA at night.

⚠ MISSED APPROACH: Climb to 1900 then climbing right turn to 4100 direct MEDIN.

AWOS-3 118.725	SAN ANTONIO APP CON 125.1 307.0	UNICOM 123.0 (CTAF) 0
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CATEGORY	A	B	C	D
LP MDA	1700-1	315 (400-1)		NA
LNAV MDA	1740-1	355 (400-1)		NA
CIRCLING	1960-1 575 (600-1)	2000-1 615 (700-1)		NA

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

SAN ANTONIO, TEXAS

AL-10309 (FAA)

15344

WAAS CH 69428 W35A	APP CRS 349°	Rwy Idg TDZE Apt Elev	3291 1385 1385
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RNAV (GPS) RWY 35

BOERNE STAGE FIELD (5C1)

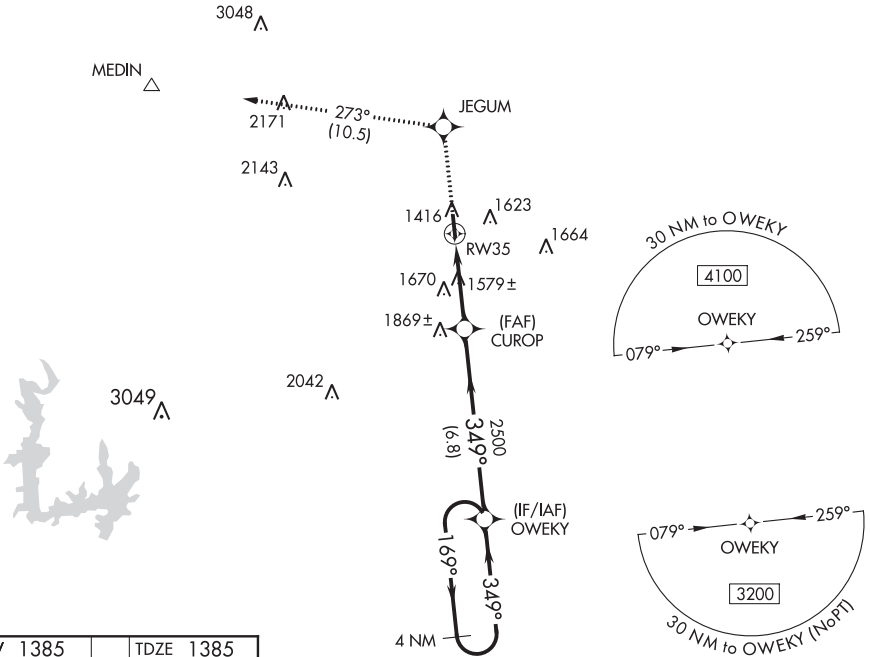
▽ Circling NA east of Rwy 17-35. DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use San Antonio Intl altimeter setting and increase all MDA 120 feet. Procedure NA at night.

MISSED APPROACH: Climb to 4100 direct JEGUM and on track 273° to MEDIN.

AWOS-3
118.725

SAN ANTONIO APP CON
125.1 307.0

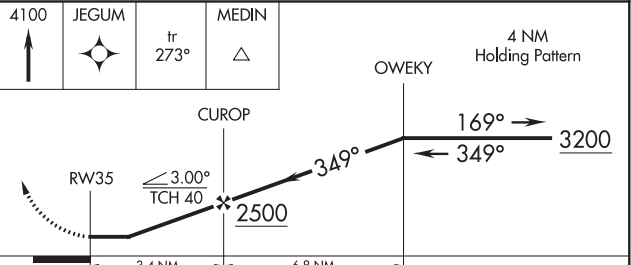
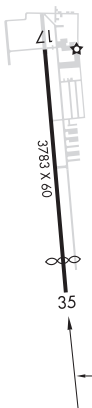
UNICOM
123.0 (CTAF) 0



SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

ELEV 1385	TDZE 1385
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CATEGORY	A	B	C	D
LP MDA	1840-1	455 (500-1)	NA	
LNAV MDA	1920-1	535 (600-1)	NA	
CIRCLING	1960-1 575 (600-1)	2000-1 615 (700-1)	NA	

SAN ANTONIO, TEXAS
Amdt 1A 02APR15

29°43'N-98°42'W

BOERNE STAGE FIELD (5C1)

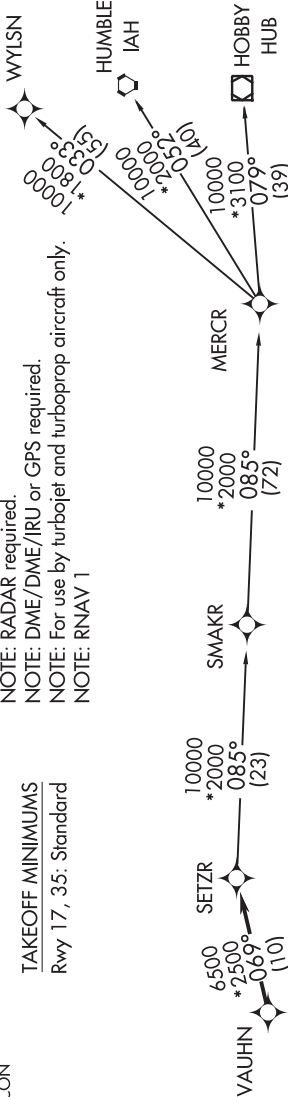
RNAV (GPS) RWY 35

2.10Z NAT 01 01 9.10Z AON 01 03-C5

REGIONAL DEP CON
125.1 307.0
CTAF 123.0

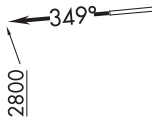
TAKEOFF MINIMUMS
Rwy 17, 35: Standard

NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: For use by turbojet and turboprop aircraft only.
NOTE: RNAV 1



TAKEOFF OBSTACLE NOTES

- Rwy 17: Multiple trees and light poles along tree line beginning 6' from DER, 128' right of centerline, up to 50' AGL/1427' MSL. Multiple trees and light poles along tree line beginning 81' from DER, 144' left of centerline, up to 50' AGL/1409' MSL.
- Rwy 35: Multiple trees and poles beginning 204' from DER, 7' left of centerline, up to 50' AGL/1422' MSL. Multiple trees and poles beginning 204' from DER, 24' right of centerline, up to 50' AGL/1423' MSL. Hangar 80' from DER, 222' left of centerline, up to 50' AGL/1397' MSL.



NOTE: Chart not to scale

DEPARTURE ROUTE DESCRIPTION

TAKEOFF Rwy 17: Climb on assigned heading for RADAR vectors to VAUHN, thence ...
TAKEOFF Rwy 35: Climb heading 349° to 2800, then on assigned heading for RADAR vectors to VAUHN, thence ...

... on track 069° to SETZR, then on (transition) maintain 5000 or as assigned by ATC. Expect filed altitude 10 minutes after departure.

- HOBBY TRANSITION (SETZR1.HUB)
- HUMBLE TRANSITION (SETZR1.IAH)
- SMAKR TRANSITION (SETZR1.SMAKR)
- WYLSN TRANSITION (SETZR1.WYLSN)

SC-3, 10 NOV 2016 to 05 JAN 2017

LOC/DME I-SAT 109.7 Chan 34	APP CRS 037°	Rwy Idg TDZE 786 Apt Elev 809
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ILS or LOC RWY 4

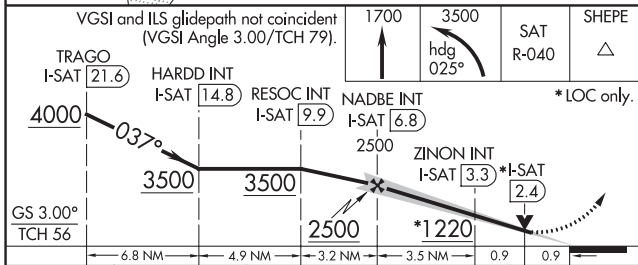
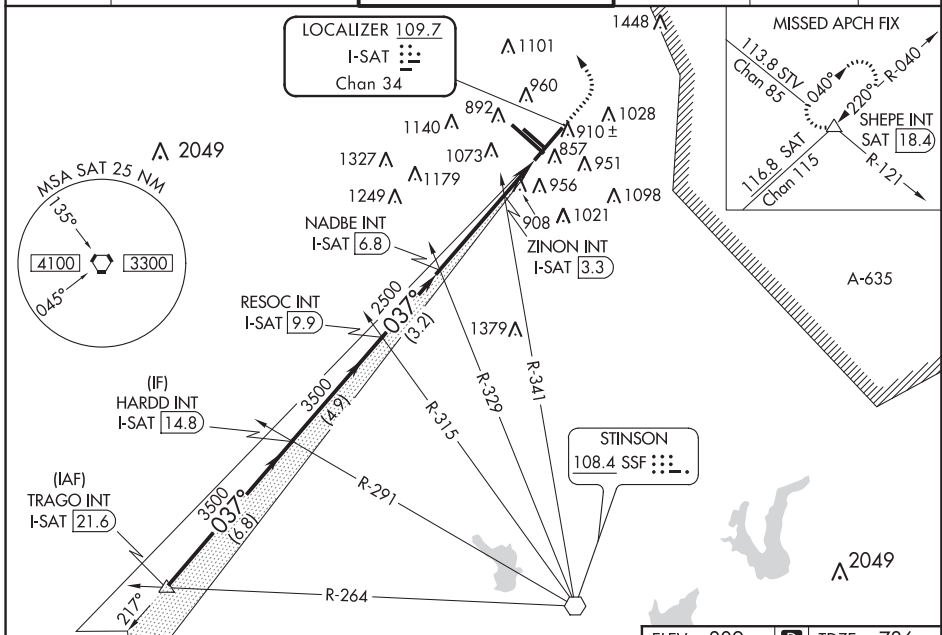
SAN ANTONIO INTL (SAT)

⚠ Circling NA southwest of Rwy 12R and 30L. Inop table does not apply to S-ILS 4. For inop MALS, increase S-LOC 4 Cat D visibility to 1 1/4. ZINON fix minimums: for inop MALS, increase S-LOC 4 Cat D visibility to 1.

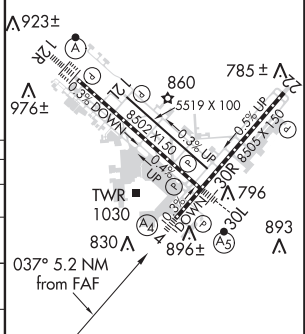
MALS \triangle \equiv

MISSED APPROACH: Climb to 1700 then climbing left turn to 3500 on heading 025° and on SAT VORTAC R-040 to SHEPE INT/SAT 18.4 DME and hold.

ATIS 118.9	SAN ANTONIO APP CON 125.1 307.0	SAN ANTONIO TOWER 119.8 257.8	GND CON 121.9 348.6	CLNC DEL 126.7	CPDLC
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ELEV 809	D TDZE 786
TDZ/CL Rwy 12R	
REL Rwy 12L, 22 and 30R	
MIRL Rwy 12L-30R	
HIRL Rwy 4-22 and 12R-30L	



CATEGORY	A	B	C	D
S-ILS 4	986/40		200 (200-3/4)	
S-LOC 4	1220/40	434 (500-3/4)	1220/50	434 (500-1)
CIRCLING	1300-1 491 (500-1)		1320-1 1/2 511 (600-1 1/2)	1380-2 571 (600-2)
ZINON FIX MINIMUMS (DME REQUIRED)				
S-LOC 4	1120/40		334 (400-3/4)	
CIRCLING	1300-1 491 (500-1)		1320-1 1/2 511 (600-1 1/2)	1380-2 571 (600-2)

FAF to MAP 5.2 NM					
Knots	60	90	120	150	180
Min:Sec	5:12	3:28	2:36	2:05	1:44

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SC-3, 10 NOV 2016 to 05 JAN 2017

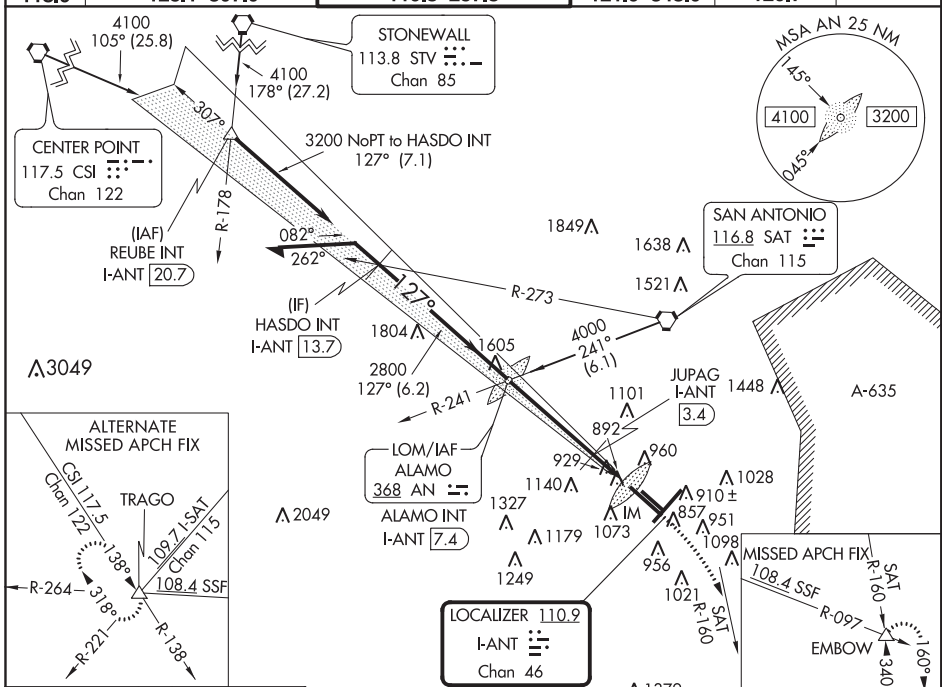
LOC/DME I-ANT 110.9 Chan 46	APP CRS 127°	Rwy 12R Idg TDZE Apt Elev	8502 809 809	Rwy 12L Idg TDZE Apt Elev	5519 797 809
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ILS or LOC RWY 12R

SAN ANTONIO INTL (SAT)

▲ Circling NA southwest of Rwy 12R-30L. **ALSIF-2** **▲** MISSED APPROACH: Climb to 3100 via heading 124° and SAT R-160 to EMBOW INT and hold.

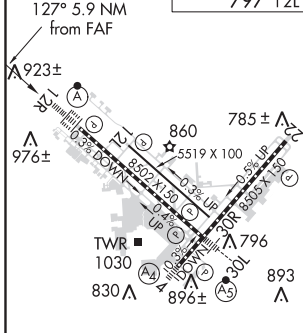
ATIS 118.9	SAN ANTONIO APP CON 125.1 307.0	SAN ANTONIO TOWER 119.8 257.8	GND CON 121.9 348.6	CLNC DEL 126.7	CPDLC
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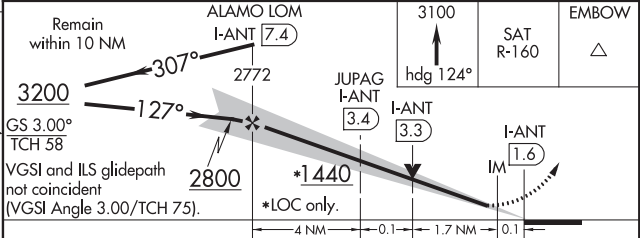
SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

ELEV 809	D	TDZE 809 12R
		797 12L



TDZ/CL Rwy 12R	REIL Rwys 12L, 21 and 30R	HIRL Rwys 3-21 and 12R-30L	MIRL Rwy 12L-30R		
FAF to MAP 5.9 NM					
Knots	60	90	120	150	180
Min:Sec	5:54	3:56	2:57	2:22	1:58



CATEGORY	A	B	C	D
S-ILS 12R	1009/18 200 (200-½)			
S-LOC 12R	1440/24	631 (700-½)	1440/60 631 (700-1¼)	1440-1½ 631 (700-1½)
SIDESTEP 12L	1600-1 803 (800-1)	1600-1¼ 803 (800-1¼)	1600-2¼ 803 (800-2¼)	1600-2½ 803 (800-2½)
CIRCLING	1440-1	631 (700-1)	1440-1¾ 631 (700-1¾)	1440-2 631 (700-2)
JUPAG FIX MINIMUMS				
S-LOC 12R	1240/24	431 (500-½)	1240/40 431 (500-¾)	1240/50 431 (500-1)

LOC/DME I-HZR 110.9 Chan 46	APP CRS 304°	Rwy 30L Idg TDZE Apt Elev	8502 790 809	Rwy 30R Idg TDZE Apt Elev	5519 788 809
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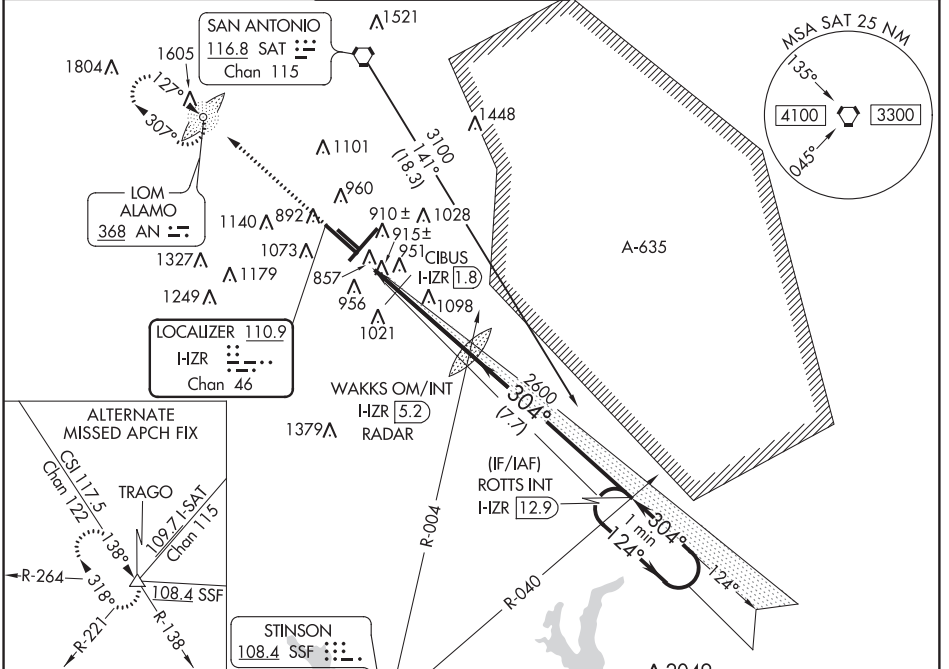
ILS or LOC RWY 30L

SAN ANTONIO INTL (SAT)

⚠ Circling NA southwest of Rwy 12R-30L. ADF required.
RVR 1800 authorized with the use of FD or AP or HUD to DA.

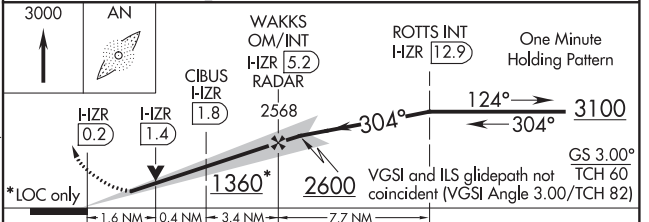
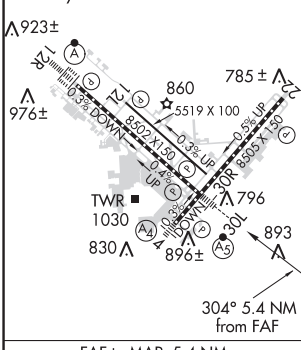
MALSR
AS
MISSED APPROACH: Climb to 3000 direct ALAMO LOM and hold.

ATIS 118.9	SAN ANTONIO APP CON 125.1 307.0	SAN ANTONIO TOWER 119.8 257.8	GND CON 121.9 348.6	CLNC DEL 126.7	CPDLC
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ELEV 809	D	TDZE 790 30L	788 30R
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TDZ/CL Rwy 12R
REIL Rwys 12L, 21 and 30R
HIRL Rwys 3-21 and 12R-30L
MIRL Rwy 12L-30R



CATEGORY	A	B	C	D
S-ILS 30L	# 990/24 200 (200-½)			
S-LOC 30L	1360/24	570 (600-½)	1360/50 570 (600-1)	1360/60 570 (600-1¼)
SIDESTEP Rwy 30R	1360-1	572 (600-1)	1360-1½ 572 (600-½)	1360-2 572 (600-2)
CIRCLING	1360-1	551 (600-1)	1360-1½ 551 (600-½)	1380-2 571 (600-2)
CIBUS FIX MINIMUMS				
S-LOC 30L	1200/24	410 (400-½)	1200/40	410 (400-¾)

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SC-3, 10 NOV 2016 to 05 JAN 2017

APP CRS	Rwy Idg	8505
033°	TDZE	786
	Apt Elev	809

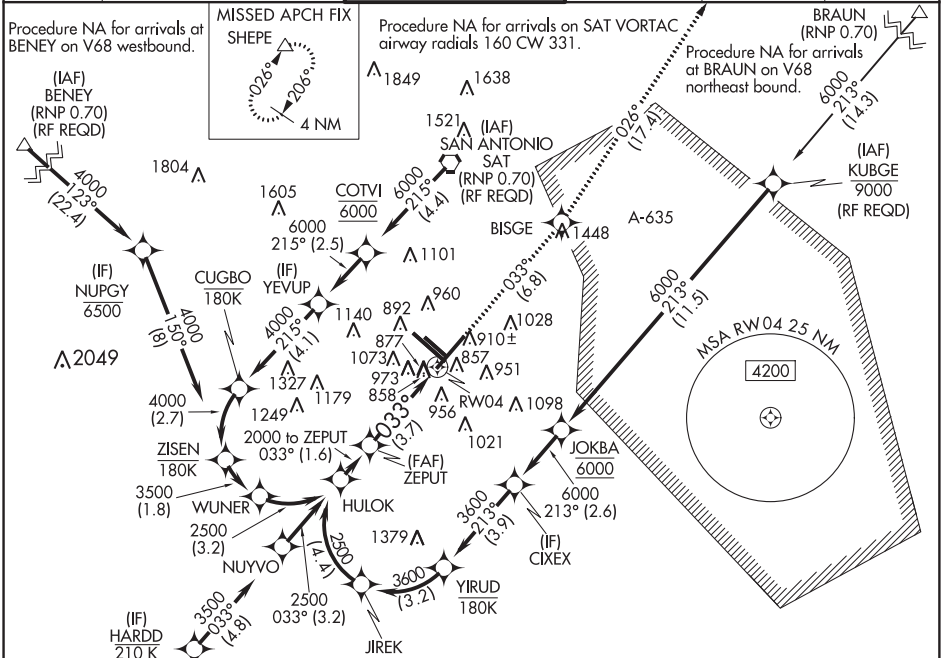
RNAV (RNP) Z RWY 4

SAN ANTONIO INTL (SAT)

▼ When VGSI is inop, procedure NA at night. GPS required. For inop MALSS, increase RNP 0.15 all Cats visibility to RVR 6000 and RNP 0.30 all Cats visibility to 1¾. For uncompensated Baro-VNAV systems, procedure NA below -4°C (24°F) or above 54°C (130°F).

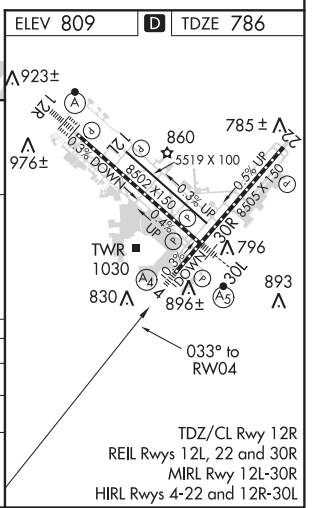
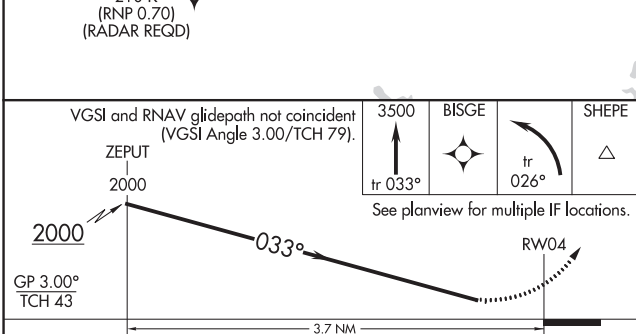
MALS MISSED APPROACH: Climb to 3500 on track 033° to BISGE then left turn on track 026° to SHEPE and hold.

ATIS	SAN ANTONIO APP CON	SAN ANTONIO TOWER	GND CON	CLNC DEL	CPDLC
118.9	125.1 307.0	119.8 257.8	121.9 348.6	126.7	



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CATEGORY	A	B	C	D
RNP 0.15 DA		1171/50	385 (400-1)	
RNP 0.30 DA		1284-1½	498 (500-1½)	

AUTHORIZATION REQUIRED

RNAV (RNP) Z RWY 12R

SAN ANTONIO INTL (SAT)

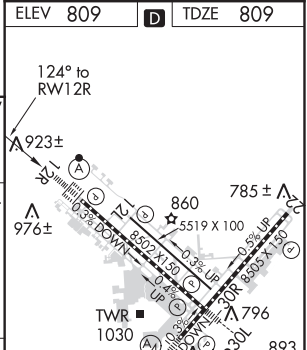
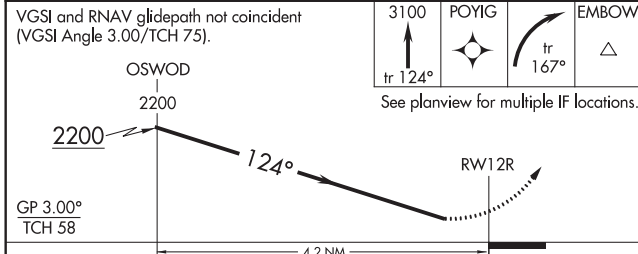
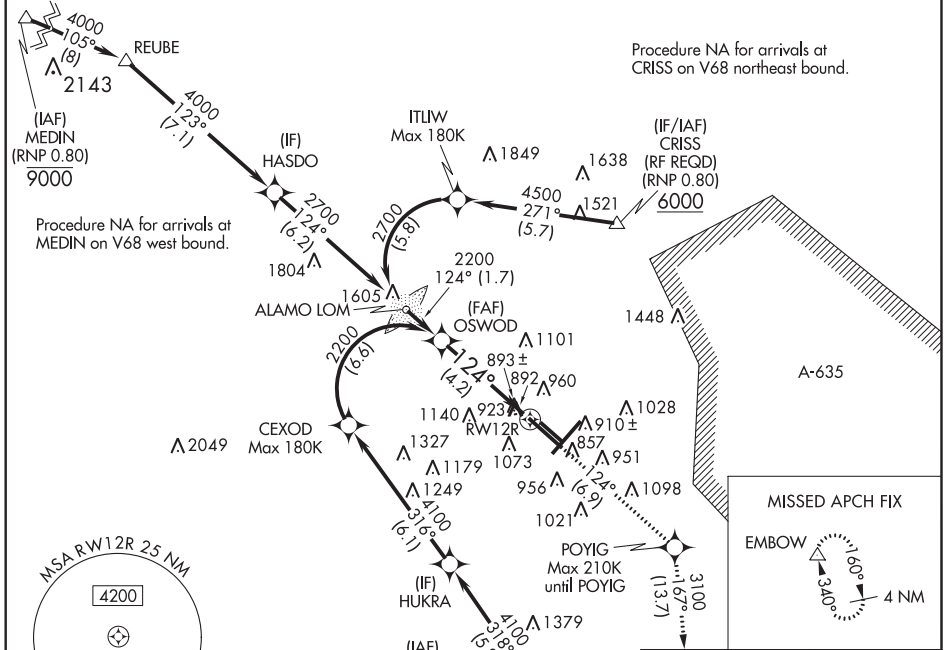
APP CRS	Rwy Idg	8502
124°	TDZE	809
	Apt Elev	809

GPS required. For uncompensated Baro-VNAV systems, procedure NA below -4°C (24°F) or above 46°C (116°F). For inop ALSF, increase RNP 0.15 all Cats visibility to RVR 5000 and RNP 0.30 all Cats visibility to 1/2.



MISSED APPROACH: Climb to 3100 on track 124° to POYIG and right turn on track 167° to EMBOW and hold.

ATIS 118.9	SAN ANTONIO APP CON 125.1 307.0	SAN ANTONIO TOWER 119.8 257.8	GND CON 121.9 348.6	CLNC DEL 126.7	CPDLC
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CATEGORY	A	B	C	D
RNP 0.15 DA		1150/40	341 (400-3/4)	
RNP 0.30 DA		1303/60	494 (500-1/4)	

AUTHORIZATION REQUIRED

TDZ/CL Rwy 12R
REIL Rwy 12L, 22 and 30R
MIRL Rwy 12L-30R
HIRL Rwy 4-22 and 12R-30L

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SC-3, 10 NOV 2016 to 05 JAN 2017

APP CRS	Rwy Idg	8505
213°	TDZE	770
	Apt Elev	809

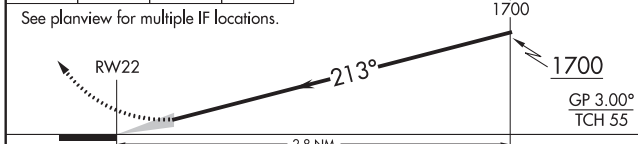
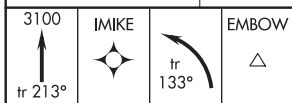
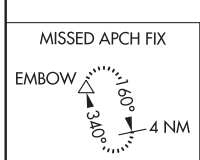
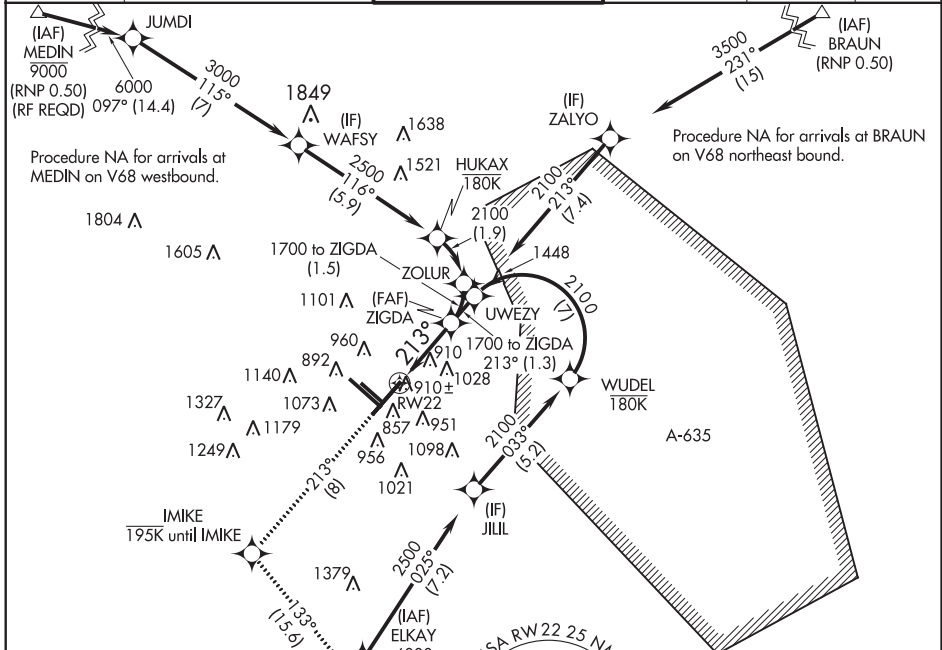
RNAV (RNP) Z RWY 22

SAN ANTONIO INTL (SAT)

GPS required. For uncompensated Baro-VNAV systems, procedure NA below -4°C (24°F) or above 54°C (130°F).

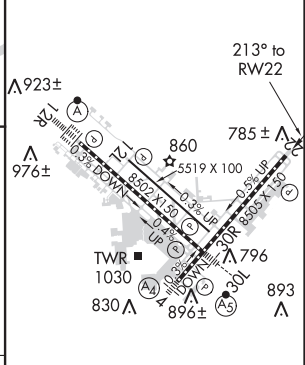
MISSED APPROACH: Climb to 3100 on track 213° to IMIKE and left turn on track 133° to EMBOW and hold.

ATIS	SAN ANTONIO APP CON	SAN ANTONIO TOWER	GND CON	CLNC DEL	CPDLC
118.9	125.1 307.0	119.8 257.8	121.9 348.6	126.7	



CATEGORY	A	B	C	D
RNP 0.15 DA		1113-1/8	343 (400-1/8)	
RNP 0.30 DA		1320-1/8	550 (600-1/8)	

ELEV	809	TDZE	770
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AUTHORIZATION REQUIRED

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

RNAV (RNP) Z RWY 30L SAN ANTONIO INTL (SAT)

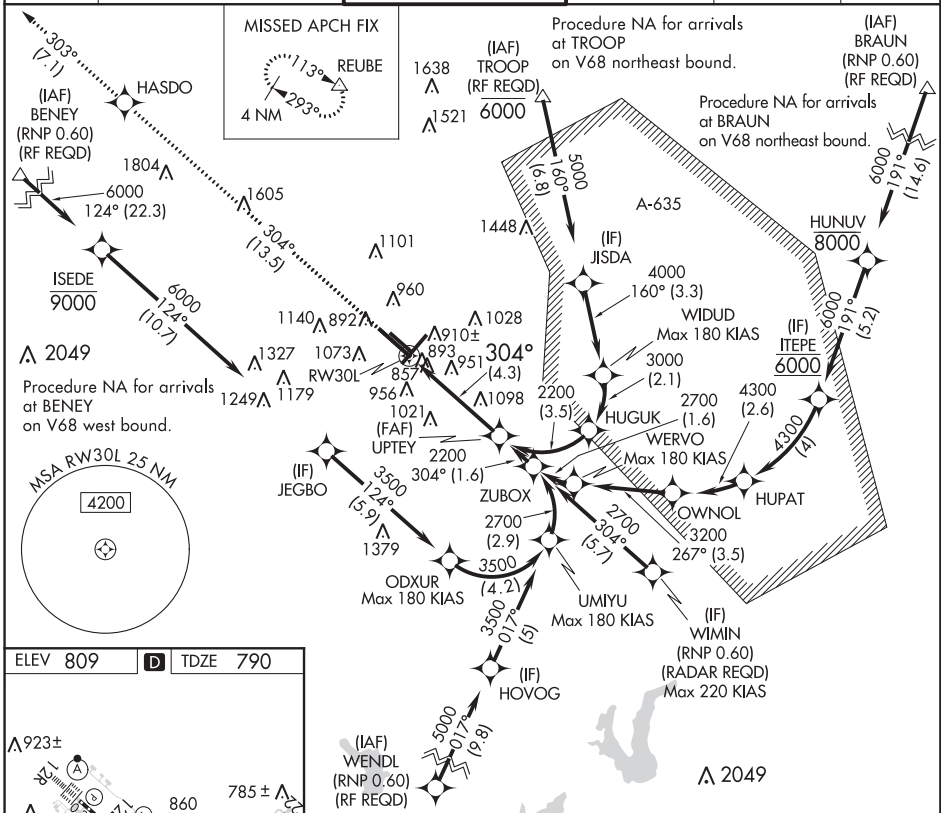
APP CRS	Rwy Idg	8502
304°	TDZE	790
	Apt Elev	809

GPS required. For uncompensated Baro-VNAV systems, procedure NA below -4°C (24°F) or above 47°C (116°F). For inoperative MALSR, increase RNP 0.30 all Cats visibility to 1½.



MISSED APPROACH: Climb to 3000 on track 304° to HASDO then climb to 4200 on track 303° to REUBE and hold.

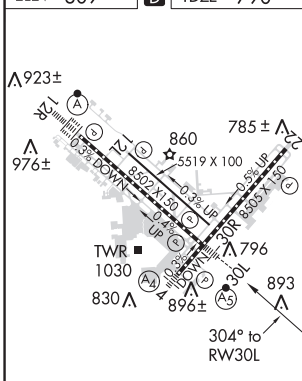
ATIS 118.9	SAN ANTONIO APP CON 125.1 307.0	SAN ANTONIO TOWER 119.8 257.8	GND CON 121.9 348.6	CLNC DEL 126.7	CPDLC
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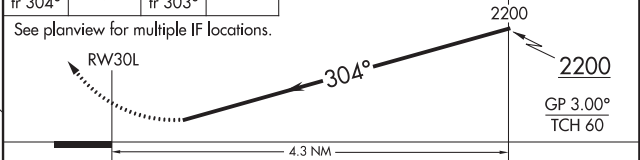
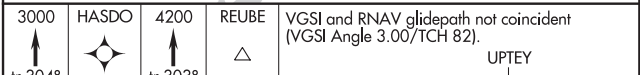
SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

ELEV	809	D	TDZE	790
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TDZ/CL Rwy 12R
REIL Rwys 12L, 21 and 30R
MIRL Rwy 12L-30R
HIRL Rwys 3-21 and 12R-30L



CATEGORY	A	B	C	D
RNP 0.30 DA	1232/50 442 (500-1)			

AUTHORIZATION REQUIRED

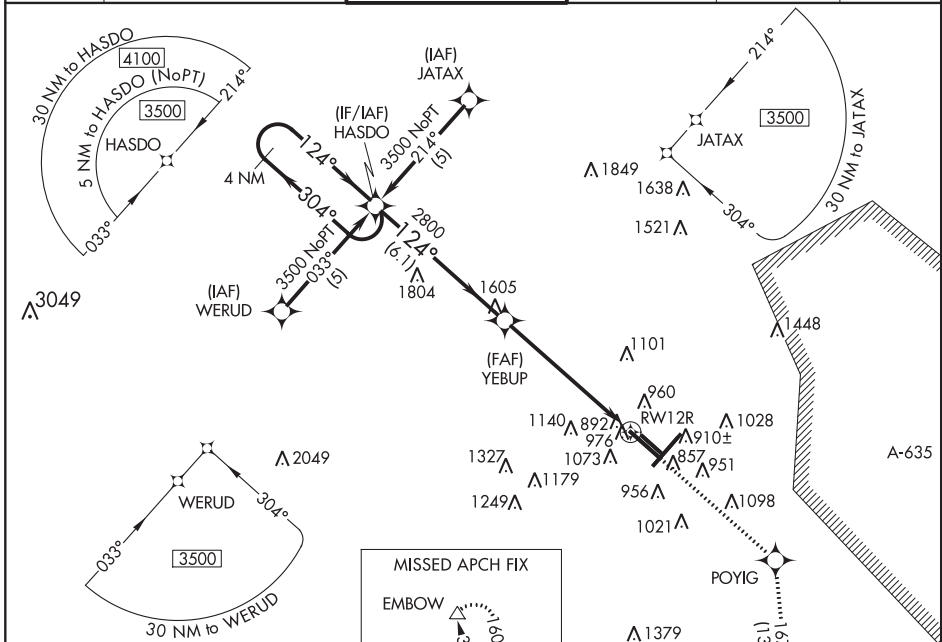
WAAS CH 82409 W12A	APP CRS 124°	Rwy Idg TDZE Apt Elev	8502 809 809
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RNAV (GPS) Y RWY 12R

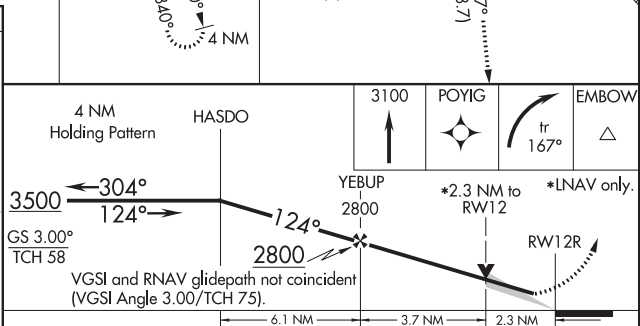
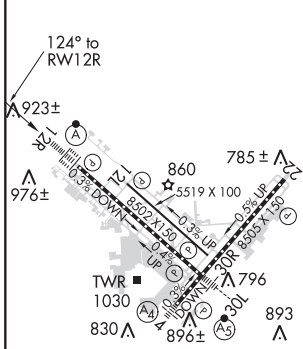
SAN ANTONIO INTL (SAT)

<p>⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 47°C (116°F). For inoperative ALSF-2, increase LPV all Cats visibility to 1 mile. Circling NA southwest of Rwy 12R-30L. DME/DME RNP-0.3 NA.</p>	<p>ALSF-2</p>	<p>MISSED APPROACH: Climb to 3100 direct POYIG and right turn on track 167° to EMBOW and hold.</p>
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<p>ATIS 118.9</p>	<p>SAN ANTONIO APP CON 125.1 307.0</p>	<p>SAN ANTONIO TOWER 119.8 257.8</p>	<p>GND CON 121.9 348.6</p>	<p>CLNC DEL 126.7</p>	<p>CPDLC</p>
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ELEV 809	D	TDZE 809
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CATEGORY	A	B	C	D
LPV DA		1107/24	298 (300-½)	
LNAV/VNAV DA		1340/60	531 (600-¼)	
LNAV MDA	1620/24 811 (900-½)	1620/40 811 (900-¾)	1620-2 811 (900-2)	1620-2¼ 811 (900-2¼)
CIRCLING	1620-1 811 (900-1)	1620-1¼ 811 (900-1¼)	1620-2½ 811 (900-2½)	1620-2¾ 811 (900-2¾)

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SC-3, 10 NOV 2016 to 05 JAN 2017

SAN ANTONIO, TEXAS

AL-369 (FAA)

16203

WAAS CH 69430 W22A	APP CRS 213°	Rwy Idg 8505 TDZE 770 Apt Elev 809
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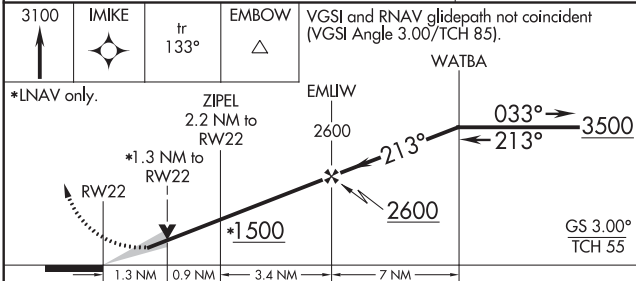
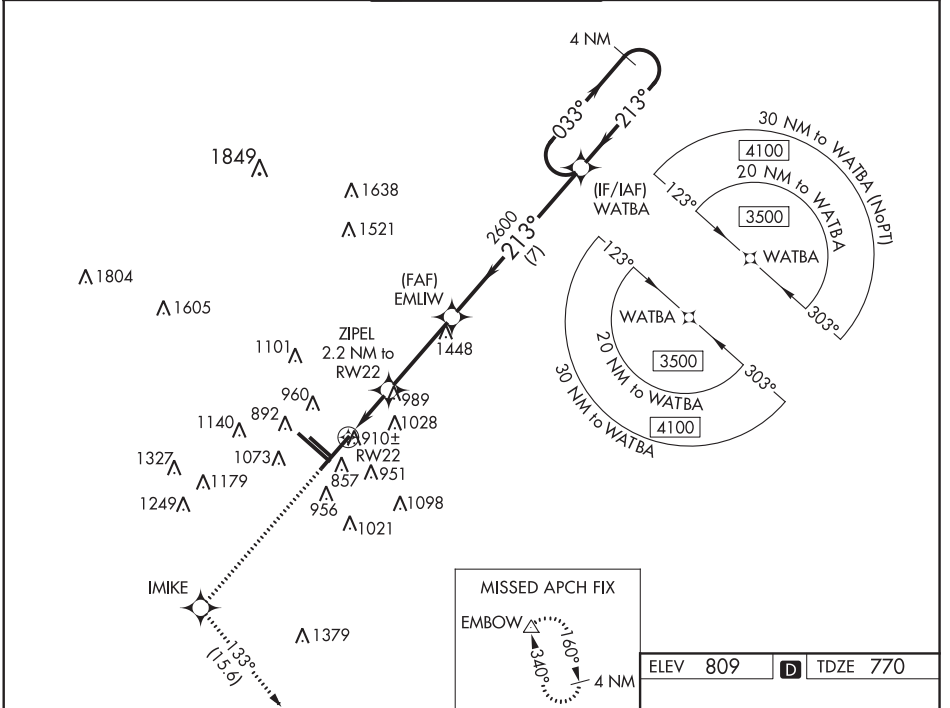
RNAV (GPS) Y RWY 22

SAN ANTONIO INTL (SAT)

▼ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -4°C (25°F) or above 54°C (130°F). Circling NA southwest of Rwy 12R-30L. DME/DME RNP-0.3 NA.

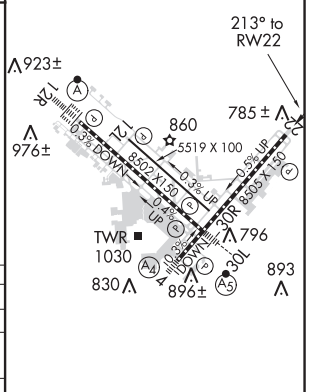
MISSED APPROACH: Climb to 3100 direct IMIKE and on track 133° to EMBOW and hold.

ATIS 118.9	SAN ANTONIO APP CON 125.1 307.0	SAN ANTONIO TOWER 119.8 257.8	GND CON 121.9 348.6	CLNC DEL 126.7	CPDLC
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ELEV 809	TDZE 770
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CATEGORY	A	B	C	D
LPV DA		970-3/4	200 (200-3/4)	
LNAV/VNAV DA		1225-1 1/2	455 (400-1 1/2)	
LNAV MDA	1240-1	470 (500-1)	1240-1 3/8	470 (500-1 3/8)
CIRCLING	1300-1	491 (500-1)	1320-1 1/2	1380-2
			511 (600-1 1/2)	571 (600-2)



TDZ/CL Rwy 12R
REIL Rwsy 12L, 22 and 30R
MIRL Rwy 12L-30R
HIRL Rwsy 4-22 and 12R-30L

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

SAN ANTONIO, TEXAS
Amdt 2A 28MAY15

29°32'N-98°28'W

SAN ANTONIO INTL (SAT)

RNAV (GPS) Y RWY 22

ALAMO ONE DEPARTURE

**TOP ALTITUDE:
5000**

ATIS 118.9
CLNC DEL 126.7
CPDLC
GND CON 121.9 348.6
SAN ANTONIO DEP CON 125.1 307.0 (Rwys 04/22/30)
127.1 269.1 (Rwy 12)
SAN ANTONIO TOWER 119.8 257.8

BROWNWOOD
108.6 BWD
Chan 23

GLEN ROSE
115.0 JEN
Chan 97

COWBOY
116.2 CVE
Chan 109

JUMBO
N31°32.17'
W98°10.81'
H-6

GOOCH SPRINGS
112.5 AGJ
Chan 72
N31°11.13'-W98°08.51'
L-19, H-6

STONEWALL
113.8 STV
Chan 85

HENLY
N30°06.48'
W98°23.60'
H-7

CENTEX
112.8 CWK
Chan 75

GOBBY
N30°04.97'
W98°22.28'
L-19

SAN ANTONIO
116.8 SAT
Chan 115
N29°38.64'
W98°27.68'

NOTE: RADAR Required.

TAKEOFF MINIMUMS
Rwys 4, 12L, 12R, 22, 30L, 30R: Standard.

(NARRATIVE ON FOLLOWING PAGE)
(NOTES CONTINUED ON FOLLOWING PAGE)

NOTE: Chart not to scale.

ALAMO ONE DEPARTURE

(ALAMO1.ALAMO) 10DEC15

SAN ANTONIO, TEXAS
SAN ANTONIO INTL (SAT)

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

(ALAMO1.ALAMO) 15344

ALAMO ONE DEPARTURE

SL-369 (FAA)

SAN ANTONIO INTL (SAT)
SAN ANTONIO, TEXAS

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 4, 12L 12R, 22, 30L, 30R: Climb on assigned heading for Radar vectors to SAT VORTAC. Maintain 5000, thence. . .

. . . on transition/route. Expect filed altitude 10 minutes after departure.

GOBBY TRANSITION (ALAMO1.GOBBY): From over SAT VORTAC on SAT R-002 to GOBBY/SAT 27 DME.

GOOCH SPRINGS TRANSITION (ALAMO1.AGJ): From over SAT VORTAC on SAT R-002 to GOBBY/SAT 27 DME, then on AGJ R-185 to AGJ VORTAC.

HENLY TRANSITION (ALAMO1.HENLY): From over SAT VORTAC on SAT R-359 to HENLY/SAT 28 DME.

JUMBO TRANSITION (ALAMO1.JUMBO): From over SAT VORTAC on SAT R-359 to JUMBO/SAT 114 DME.

TAKE-OFF OBSTACLES:

- Rwy 12R: Antenna on RTR tower, 1034' from DER, 723' right of centerline, 42' AGL/820' MSL.
Building 3801' from DER, 1488' right of centerline, 177' AGL/881' MSL.
- Rwy 22: Antenna on hangar and flagpole 1198' from DER, 700' right of centerline, 39' AGL/825' MSL.
Poles beginning 2209' from DER, 1041' right of centerline, up to 23' AGL/869' MSL.
Sign 2713' from DER, 1034' right of centerline, 71' AGL/857' MSL.
- Rwy 30L: Pole 1931' from DER, 911' left of centerline, 42' AGL/867' MSL.
Poles beginning 2356' from DER, 913' left of centerline, up to 42' AGL/892' MSL.
Sign 2435' from DER, 1032' right of centerline, 42' AGL/873' MSL.
Tower 2766' from DER, 834' left of centerline, 54' AGL/891' MSL
- Rwy 30R: Rod on obstruction light GS 1261' from DER, 591' left of centerline, 57' AGL/854' MSL.

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

ALAMO ONE DEPARTURE
(ALAMO1.ALAMO) 15344SAN ANTONIO, TEXAS
SAN ANTONIO INTL (SAT)

SC-3, 10 NOV 2016 to 05 JAN 2017

TOP ALTITUDE:
5000

TAKEOFF MINIMUMS

Rwys 4, 12L, 12R, 22, 30L, 30R: Standard.



NOTE: RNAV 1.
 NOTE: RADAR Required.
 NOTE: DME/DME/IRU or GPS Required.

TAKEOFF OBSTACLE NOTES

Rwy 12R: Antenna on RTR tower, 1034' from DER, 723' right of centerline, 42' AGL/820' MSL.
 Building 3801' from DER, 1488' right of centerline, 177' AGL/881' MSL.
 Rwy 22: Antenna on hangar and flagpole, 1198' from DER, 700' right of centerline, 39' AGL/825' MSL. Poles beginning 2209' from DER, 1041' right of centerline, up to 23' AGL/869' MSL.
 Sign 2713' from DER, 1034' right of centerline, 71' AGL/857' MSL.
 Rwy 30L: Pole 11931' from DER, 911' left of centerline, 42' AGL/867' MSL. Poles beginning 2356' from DER, 913' left of centerline, up to 42' AGL/892' MSL. Sign 2435' from DER, 1032' right of centerline, 42' AGL/873' MSL. Tower 2766' from DER, 834' left of centerline, 54' AGL/891' MSL.
 Rwy 30R: Rod on OL GS 1261' from DER, 591' left of centerline, 57' AGL/854' MSL.

(NARRATIVE ON FOLLOWING PAGE)
 (NOTES CONTINUED ON FOLLOWING PAGE)

SC-3, 10 NOV 2016 to 05 JAN 2017

NOTE: Chart not to scale.

(ALISS4.ALISS) 16203

SAN ANTONIO INTL (SAT)

ALISS FOUR DEPARTURE (RNAV) SL-369 (FAA)

SAN ANTONIO, TEXAS



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 4: Climb heading 033° or as assigned by ATC, expect RADAR vectors to TREVA, thence . . .

TAKEOFF RWY 12L: Climb heading 124° or as assigned by ATC, expect RADAR vectors to TREVA, thence . . .

TAKEOFF RWY 12R: Climb heading 124° or as assigned by ATC, expect RADAR vectors to TREVA, thence . . .

TAKEOFF RWY 22: Climb heading 213° or as assigned by ATC, expect RADAR vectors to TREVA, thence . . .

TAKEOFF RWY 30L: Climb heading 304° or as assigned by ATC, expect RADAR vectors to TREVA, thence . . .

TAKEOFF RWY 30R: Climb heading 304° or as assigned by ATC, expect RADAR vectors to TREVA, thence . . .

... on track 301° to TATAR, then on track 301° to LEJON, then on track 300° to ALISS, then on (transition). Maintain 5000, expect filed altitude 10 minutes after departure.

DIANT TRANSITION (ALISS4.DIANT):

FORT STOCKTON TRANSITION (ALISS4.FST):

JUNCTION TRANSITION (ALISS4.JCT):

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

ALISS FOUR DEPARTURE (RNAV)

(ALISS4.ALISS) 21JUL16

SAN ANTONIO, TEXAS
SAN ANTONIO INTL (SAT)

BOWIE SIX DEPARTURE

SL-369 (FAA)

SAN ANTONIO INTL (SAT)
SAN ANTONIO, TEXAS

ATIS
118.9
CLNC DEL
126.7
CPDLC
GND CON
121.9 348.6
SAN ANTONIO DEP CON
125.7 290.225 (Rwys 12/22/30)
127.1 269.1 (Rwy 4 CORPUS CHRISTI TRANSITION)
125.1 307.0 (Rwy 4 LAREDO TRANSITION)
SAN ANTONIO TOWER
119.8 257.8

TOP ALTITUDE:
5000

TAKEOFF MINIMUMS
Rwys 4, 12L, 12R, 22,
30L, 30R: Standard.

NOTE: RADAR Required.

SAN ANTONIO
116.8 SAT
Chan 115
N29°38.64'
W98°27.68'

YENNS
N29°04.08'
W98°19.32'

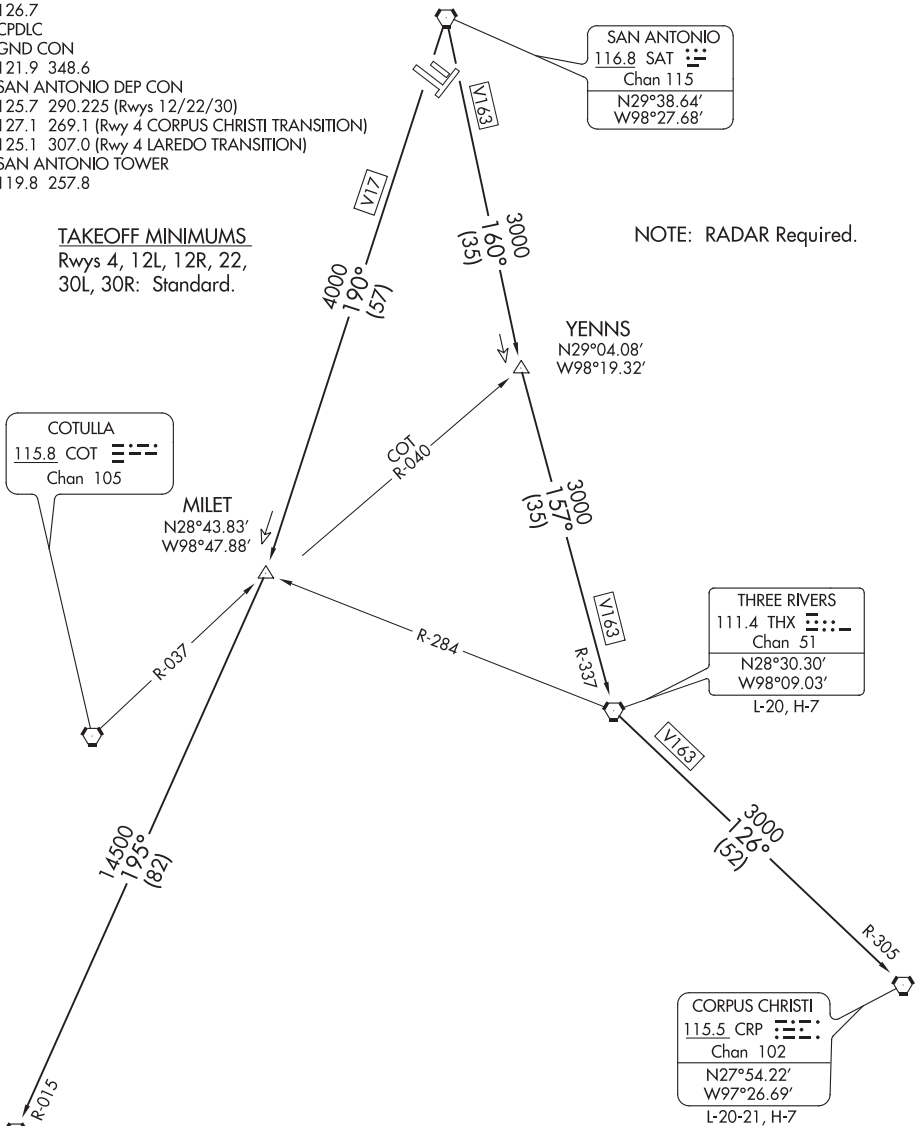
THREE RIVERS
111.4 THX
Chan 51
N28°30.30'
W98°09.03'
L-20, H-7

CORPUS CHRISTI
115.5 CRP
Chan 102
N27°54.22'
W97°26.69'
L-20-21, H-7

LAREDO
117.4 LRD
Chan 121
N27°28.72'
W99°25.06'
L-20, H-7

COTULLA
115.8 COT
Chan 105

MILET
N28°43.83'
W98°47.88'



SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)
(NOTES CONTINUED ON FOLLOWING PAGE)

BOWIE SIX DEPARTURE



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 4, 12L 12R, 22, 30L, 30R: Climb on assigned heading for radar vectors to SAT VORTAC. Maintain 5000, thence. . .

. . . on transition/route. Expect filed altitude 10 minutes after departure.

CORPUS CHRISTI TRANSITION (BOWIE6.CRP): From over SAT VORTAC on SAT R-160 to YENNS INT/SAT 35 DME, then on THX R-337 to THX VORTAC, then on THX R-126 and CRP R-305 to CRP VORTAC.

LAREDO TRANSITION (BOWIE6.LRD): From over SAT VORTAC on SAT R-190 to MILET INT/SAT 57 DME, then on LRD R-015 to LRD VORTAC.

TAKE-OFF OBSTACLES:

Rwy 12R: Antenna on RTR tower, 1034' from DER, 723' right of centerline, 42' AGL/820' MSL.
Building 3801' from DER, 1488' right of centerline, 177' AGL/881' MSL.

Rwy 22: Antenna on hangar and flagpole 1198' from DER, 700' right of centerline, 39' AGL/825' MSL.

Poles beginning 2209' from DER, 1041' right of centerline, up to 23' AGL/869' MSL.
Sign 2713' from DER, 1034' right of centerline, 71' AGL/857' MSL.

Rwy 30L: Pole 1931' from DER, 911' left of centerline, 42' AGL/867' MSL.

Poles beginning 2356' from DER, 913' left of centerline, up to 42' AGL/892' MSL.
Sign 2435' from DER, 1032' right of centerline, 42' AGL/873' MSL.

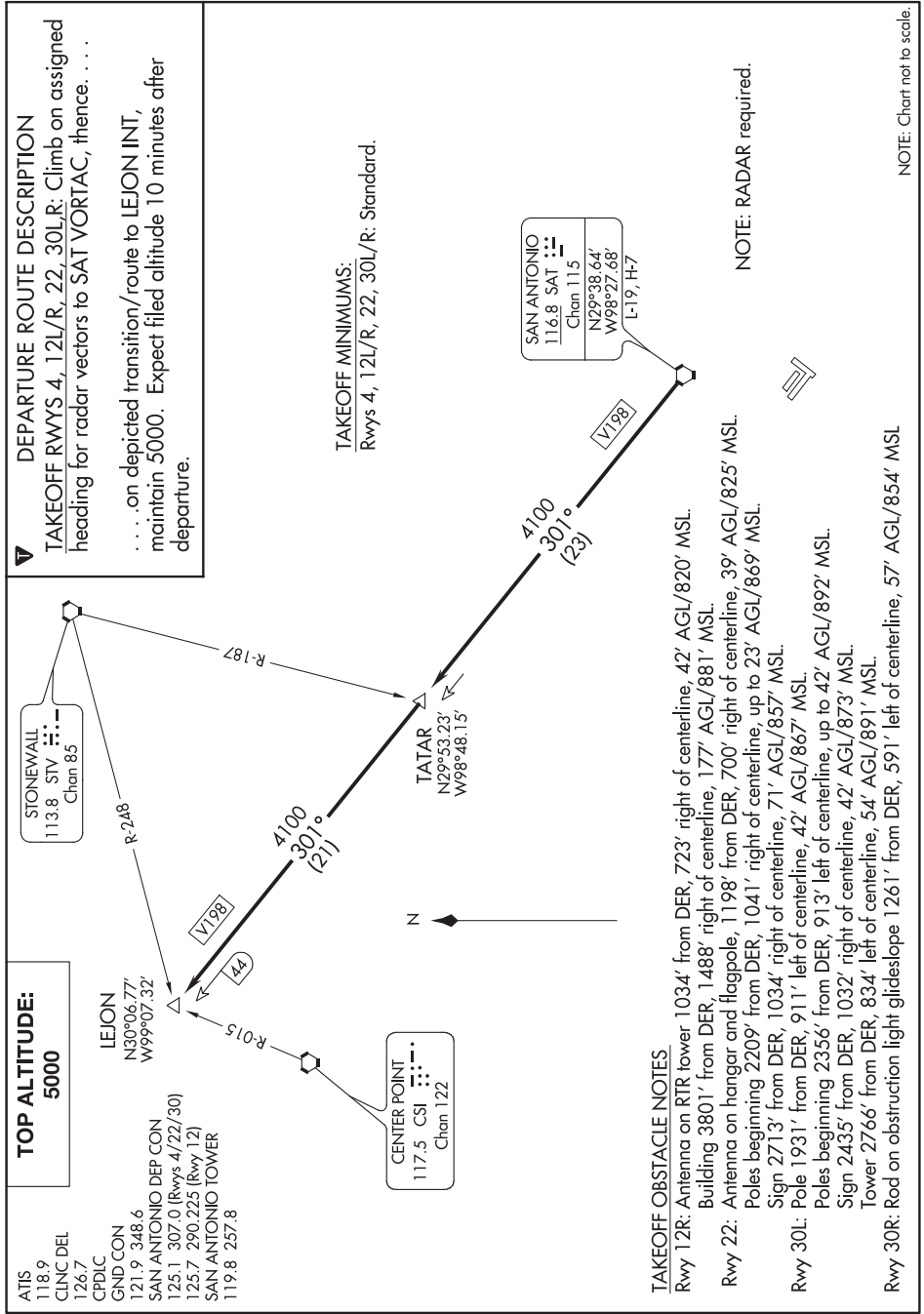
Tower 2766' from DER, 834' left of centerline, 54' AGL/891' MSL

Rwy 30R: Rod on obstruction light GS 1261' from DER, 591' left of centerline, 57' AGL/854' MSL.

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SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017



SC-3, 10 NOV 2016 to 05 JAN 2017

MILET THREE DEPARTURE (RNAV)

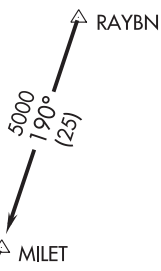
ATIS 118.9
 CLNC DEL 126.7
 CPDLC
 GND CON
 121.9 348.6
 SAN ANTONIO TOWER
 119.8 257.8
 SAN ANTONIO DEP CON
 125.1 307.0 (Rwy 04)
 125.7 290.225 (Rwys 12/22/30)

**TOP ALTITUDE:
5000**



TAKEOFF OBSTACLE NOTES

- Rwy 12R: Antenna on RTR tower, 1034' from DER, 723' right of centerline, 42' AGL/820' MSL. Building 3801' from DER, 1488' right of centerline, 177' AGL/881' MSL.
- Rwy 22: Antenna on hangar and flagpole, 1198' from DER, 700' right of centerline, 39' AGL/825' MSL. Poles beginning 2209' from DER, 1041' right of centerline, up to 23' AGL/869' MSL. Sign 2713' from DER, 1034' right of centerline, 71' AGL/857' MSL.
- Rwy 30L: Pole 1931' from DER, 911' left of centerline, 42' AGL/867' MSL. Poles beginning 2356' from DER, 913' left of centerline, up to 42' AGL/892' MSL. Sign 2435' from DER, 1032' right of centerline, 42' AGL/873' MSL. Tower 2766' from DER, 834' left of centerline, 54' AGL/891' MSL.
- Rwy 30R: Rod on OL GS 1261' from DER, 591' left of centerline, 57' AGL/854' MSL.



TAKEOFF MINIMUMS

Rwys 4, 12L, 12R, 22, 30L, 30R: Standard.

- NOTE: RNAV 1.
- NOTE: RADAR required.
- NOTE: DME/DME/IRU or GPS required.
- NOTE: For non-GPS equipped aircraft SAT, THX, and COT DME's must be operational.

DEPARTURE ROUTE DESCRIPTION
TAKEOFF RUNWAYS 4, 12L, 12R, 22, 30L, 30R:
 Climb on assigned heading for radar vectors to RAYBN, thence. . . .
 . . . On depicted route/transition to LRD VORTAC, maintain 5000. Expect filed altitude 10 minutes after departure.

LAREDO
LRD

NOTE: Chart not to scale.

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

RNAV (GPS) RWY 32

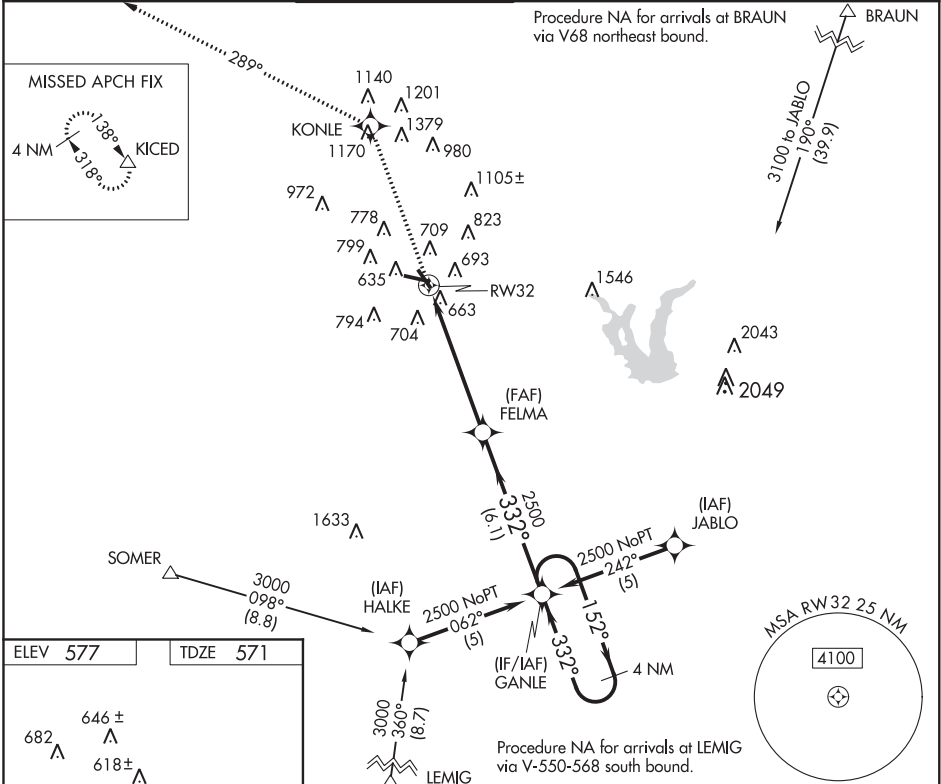
STINSON MUNI (SSF)

APP CRS 332°	Rwy Idg 3756
	TDZE 571
	Apt Elev 577

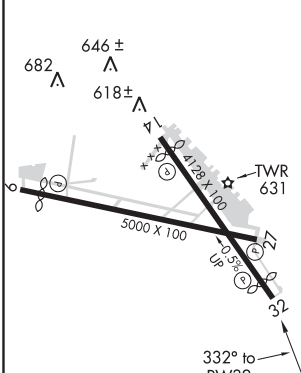
▼ When local altimeter setting not received, use San Antonio Intl altimeter setting and increase all MDAs 60 feet, and LNAV Cat C visibility ¼ mile.
▲ Helicopter visibility reduction below 1 SM NA. DME/DME RNP-0.3 NA.
 Night landing: Rwy 9, 14, 32 NA.

MISSED APPROACH: Climb to 4100 direct KONLE and via 289° track to KICED and hold.

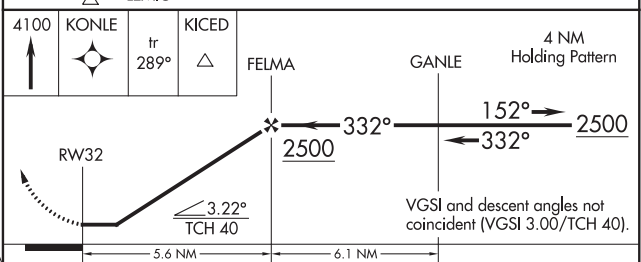
ATIS 128.8	SAN ANTONIO APP CON 125.7 290.225	STINSON TOWER ★ 118.2 (CTAF) 0 379.9	GND CON 121.7 379.9	CLNC DEL 121.7	UNICOM 122.95
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ELEV 577	TDZE 571
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REIL Rwy 9, 14, 27 and 32
MIRL Rwy 9-27 and 14-32



CATEGORY	A	B	C	D
LNAV MDA	1020-1 449 (500-1)	1020-1 ¼ 449 (500-1 ¼)	1020-1 ½ 449 (500-1 ½)	NA
CIRCLING	1040-1 463 (500-1)	1100-1 523 (600-1)	1100-1 ½ 523 (600-1 ½)	NA

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SC-3, 10 NOV 2016 to 05 JAN 2017

VOR SSF 108.4	APP CRS 337°	Rwy Idg 3756 TDZE 571 Apt Elev 577
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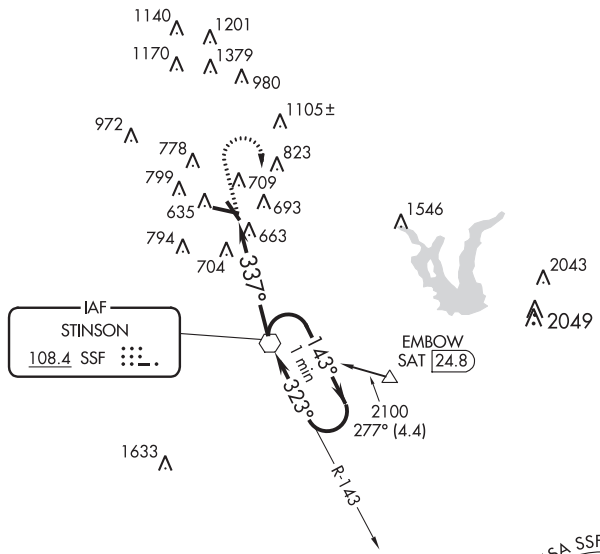
VOR RWY 32

STINSON MUNI (SSF)

⚠ When local altimeter setting not received, use San Antonio Intl altimeter setting and increase all MDAs 60 feet, and S-32 Cat C visibility ¼ mile. Night landing: 9, 14, 32 NA. Helicopter visibility reduction below 1 SM NA.

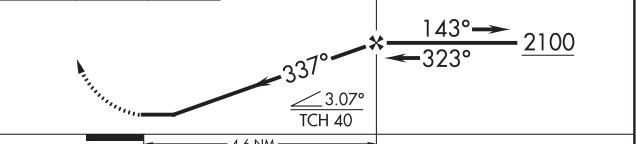
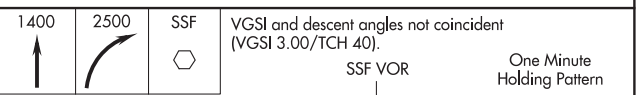
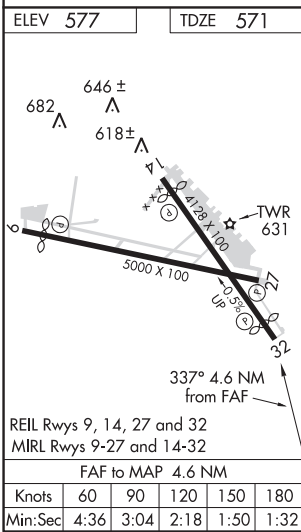
MISSED APPROACH: Climb to 1400 then climbing right turn to 2500 direct SSF VOR and hold.

ATIS 128.8	SAN ANTONIO APP CON 125.7 290,225	STINSON TOWER* 118.2 (CTAF) 0 379.9	GND CON 121.7 379.9	CLNC DEL 121.7	UNICOM 122.95
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SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017



CATEGORY	A	B	C	D
S-32	1020-1 449 (500-1)		1020-1¼ 449 (500-1¼)	NA
CIRCLING	1040-1 463 (500-1)	1100-1 523 (600-1)	1100-1½ 523 (600-1½)	NA

AIRPORT DIAGRAM

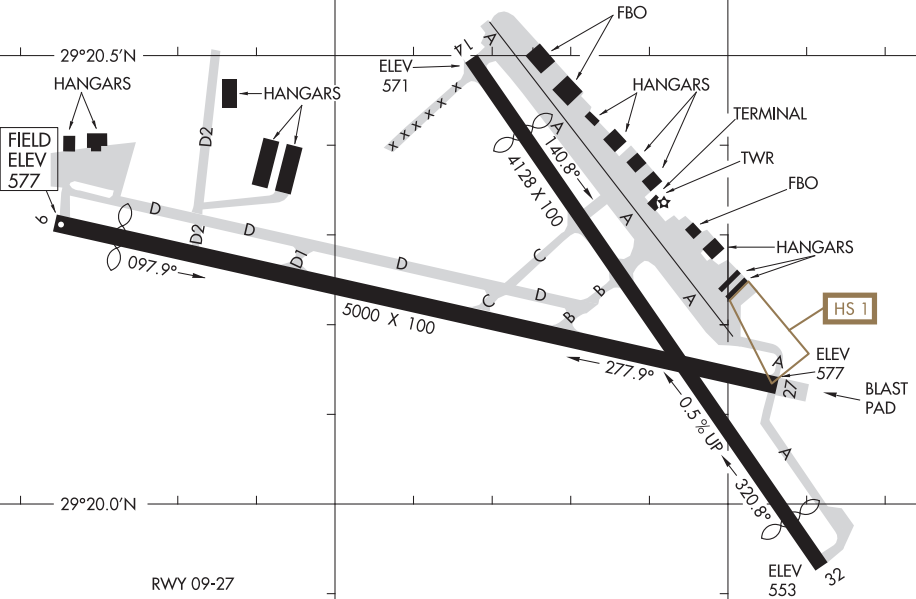
AL-372 (FAA)

STINSON MUNI (SSF)
SAN ANTONIO, TEXAS

ATIS
 128.8
 STINSON TOWER*
 118.2 379.9
 GND CON
 121.7 379.9
 CLNC DEL (When Tower Closed)
 121.7

682
▲

JANUARY 2015
 ANNUAL RATE OF CHANGE
 0.1° W



SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

RWY 09-27
 S-30, D-75
 RWY 14-32
 S-12, D-20

CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES
 READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

29°19.5'N 98°28.5'W 98°28.0'W

AIRPORT DIAGRAM

SAN ANTONIO, TEXAS
STINSON MUNI (SSF)

ALAMO ONE DEPARTURE

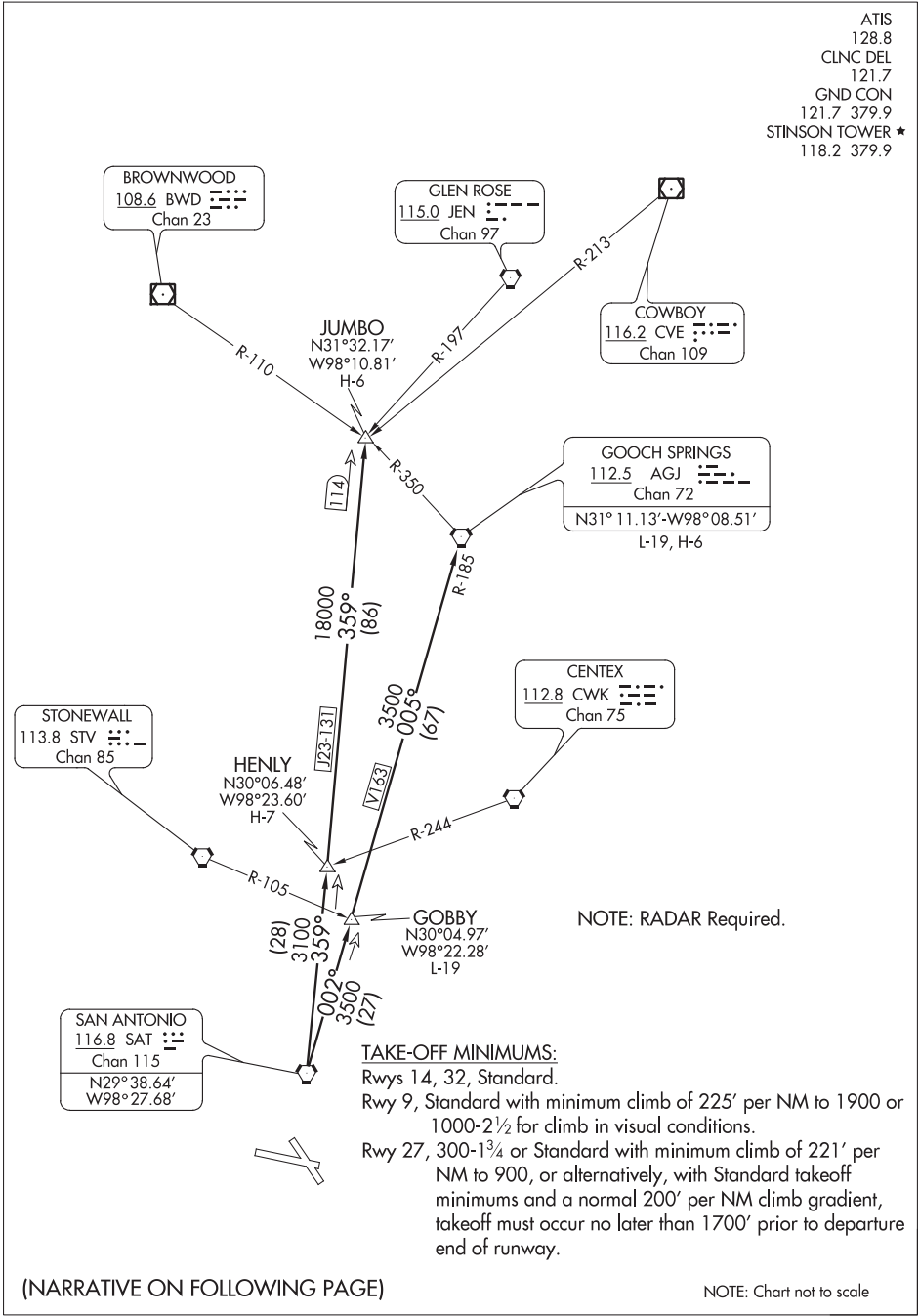
SL-372 (FAA)

STINSON MUNI (SSF)
SAN ANTONIO, TEXAS

ATIS
128.8
CLNC DEL
121.7
GND CON
121.7 379.9
STINSON TOWER ★
118.2 379.9

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017



(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 9, 14, 27, 32: Climb on assigned heading and altitude for Radar vectors to SAT VORTAC, thence. . .

. . . on transition/route. Expect filed altitude 10 minutes after departure.

GOBBY TRANSITION (ALAMO1.GOBBY): From over SAT VORTAC on SAT R-002 to GOBBY/SAT 27 DME.

GOOCH SPRINGS TRANSITION (ALAMO1.AGJ): From over SAT VORTAC on SAT R-002 to GOBBY/SAT 27 DME, then on AGJ R-185 to AGJ VORTAC.

HENLY TRANSITION (ALAMO1.HENLY): From over SAT VORTAC on SAT R-359 to HENLY/SAT 28 DME.

JUMBO TRANSITION (ALAMO1.JUMBO): From over SAT VORTAC on SAT R-359 to JUMBO/SAT 114 DME.

TAKE-OFF OBSTACLES:

- Rwy 9: Vehicle on road, 285' from DER, 380' left of centerline, 15' AGL/584' MSL.
Trees beginning 1653' from DER, 435' right of centerline, up to 70' AGL/629' MSL.
- Rwy 14: Vehicle on road 114' from DER, on centerline extending 373' left of centerline, up to 15' AGL/564' MSL.
Trees beginning 72' from DER, 79' right of centerline, up to 70' AGL/607' MSL.
Trees beginning 232' from DER, 54' left of centerline, up to 70' AGL/618' MSL.
Transmission line tower 4205' from DER, 133' right of centerline, 119' AGL/663' MSL.
- Rwy 27: Fence 41' from DER, 30' right of centerline, 8' AGL/584' MSL.
Vehicle on road, 108' from DER, 202' right of centerline, 15' AGL/584' MSL.
Vehicle on road 123' from DER, 113' right of centerline, 15' AGL/596' MSL.
Trees and poles beginning 229' from DER, 117' right of centerline, up to 70' AGL/645' MSL.
Trees and poles beginning 599' from DER, 6' left of centerline, up to 70' AGL/634' MSL.
Tanks beginning 1.3 NM from DER, 1338' right of centerline, 179' AGL/799' MSL.
Building 1422' from DER, 432' right of centerline, 40' AGL/627' MSL.
Building 2133' from DER, 36' left of centerline, 55' AGL/635' MSL.
- Rwy 32: Fence 17' from DER, 80' left of centerline, 8' AGL/578' MSL.
Vehicle on road 54' from DER, 199' left of centerline, 15' AGL/586' MSL.
Trees beginning 164' from DER, 125' right of centerline, up to 70' AGL/639' MSL.
Trees and poles beginning 43' from DER, 41' left of centerline, up to 75' AGL/668' MSL.

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SC-3, 10 NOV 2016 to 05 JAN 2017

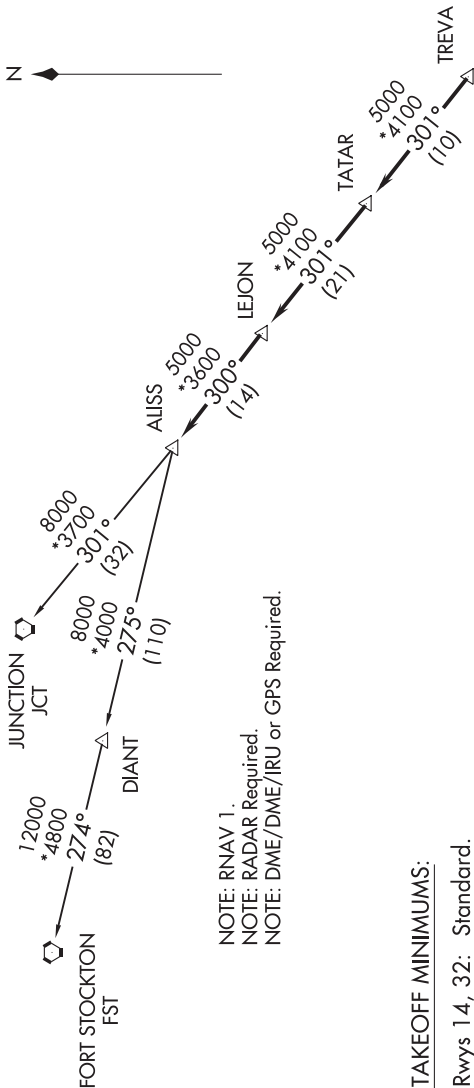
(ALISS4.ALISS) 16203

ALISS FOUR DEPARTURE (RNAV)

SL-372 (FAA)

STINSON MUNI (SSF)
SAN ANTONIO, TEXAS

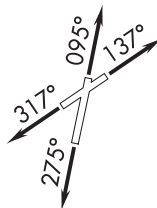
ALISS
128.8
GND CON
121.7 379.9
STINSON TOWER ★
118.2 379.9



NOTE: RNAV 1.
NOTE: RADAR Required.
NOTE: DME/DME/IRU or GPS Required.

TAKEOFF MINIMUMS:

- Rwys 14, 32: Standard.
- Rwy 9: Standard with minimum climb of 225' per NM to 1900 or 1000-2½ for VCOA.
- Rwy 27: 300-1¾ or standard with minimum climb of 221' per NM to 900, or alternatively, with standard takeoff minimums and a normal 200' per NM climb gradient, takeoff must occur no later than 1700' prior to departure end of runway.



NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)
(NOTES CONTINUED ON FOLLOWING PAGE)

ALISS FOUR DEPARTURE (RNAV)

(ALISS4.ALISS) 21JUL16

SAN ANTONIO, TEXAS
STINSON MUNI (SSF)



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 9: Climb heading 095° or as assigned by ATC, expect RADAR vectors to TREVA, thence . . .

TAKEOFF RWY 14: Climb heading 137° or as assigned by ATC, expect RADAR vectors to TREVA, thence . . .

TAKEOFF RWY 27: Climb heading 275° or as assigned by ATC, expect RADAR vectors to TREVA, thence . . .

TAKEOFF RWY 32: Climb heading 317° or as assigned by ATC, expect RADAR vectors to TREVA, thence . . .

... on track 301° to TATAR, then on track 301° to LEJON, then on track 300° to ALISS, then on (transition). Expect filed altitude 10 minutes after departure.

DIANT TRANSITION (ALISS4.DIANT):

FORT STOCKTON TRANSITION (ALISS4.FST):

JUNCTION TRANSITION (ALISS4.JCT):

TAKEOFF OBSTACLE NOTES:

- Rwy 9: Vehicle on road 285' from DER, 380' left of centerline, 15' AGL/584' MSL. Trees beginning 1653' from DER, 435' right of centerline, up to 70' AGL/629' MSL.
- Rwy 14: Vehicle on road 114' from DER, on centerline extending 373' left of centerline, up to 15' AGL/564' MSL. Trees beginning 72' from DER, 79' right of centerline, up to 70' AGL/607' MSL. Trees beginning 232' from DER, 54' left of centerline, up to 70' AGL/618' MSL. Transmission line tower 4205' from DER, 133' right of centerline, 119' AGL/663' MSL.
- Rwy 27: Fence 41' from DER, 30' right of centerline, 8' AGL/584' MSL. Vehicle on road, 108' from DER, 202' right of centerline, 15' AGL/584' MSL. Vehicle on road 123' from DER, 113' right of centerline, 15' AGL/596' MSL. Trees and poles beginning 229' from DER, 117' right of centerline, up to 70' AGL/645' MSL. Trees and poles beginning 599' from DER, 8' left of centerline, up to 70' AGL/634' MSL. Tanks beginning 1.3 NM from DER, 1338' right of centerline, 179' AGL/799' MSL. Building 1422' from DER, 432' right of centerline, 40' AGL/527' MSL. Building 2133' from DER, 36' left of centerline, 55' AGL/635' MSL.
- Rwy 32: Fence 17' from DER, 80' left of centerline, 8' AGL/578' MSL. Vehicle on road 54' from DER, 199' left of centerline, 15' AGL/586' MSL. Trees beginning 1154' from DER, 125' right of centerline, up to 70' AGL/639' MSL. Trees and poles beginning 43' from DER, 41' left of centerline, up to 75' AGL/668' MSL.

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

BOWIE SIX DEPARTURE

ATIS
128.8
GND CON
121.7 379.9
STINSON TOWER ★
118.2 379.9

SAN ANTONIO
116.8 SAT
Chan 115
N29°38.64'
W98°27.68'

COTULLA
115.8 COT
Chan 105

MILET
N28°43.83'
W98°47.88'

YENNS
N29°04.08'
W98°19.32'

THREE RIVERS
111.4 THX
Chan 51
N28°30.30'
W98°09.03'
L-20, H-7

CORPUS CHRISTI
115.5 CRP
Chan 102
N27°54.22'
W97°26.69'
L-20-21, H-7

LAREDO
117.4 LRD
Chan 121
N27°28.72'
W99°25.06'
L-20, H-7

TAKE-OFF MINIMUMS:

Rwys 14, 32, Standard.

Rwy 9, Standard with minimum climb of 225' per NM to 1900 or 1000-2½ for climb in visual conditions.

Rwy 27, 300-¾ or Standard with minimum climb of 221' per NM to 900, or alternatively, with Standard takeoff minimums and a normal 200' per NM climb gradient, takeoff must occur no later than 1700' prior to departure end of runway.

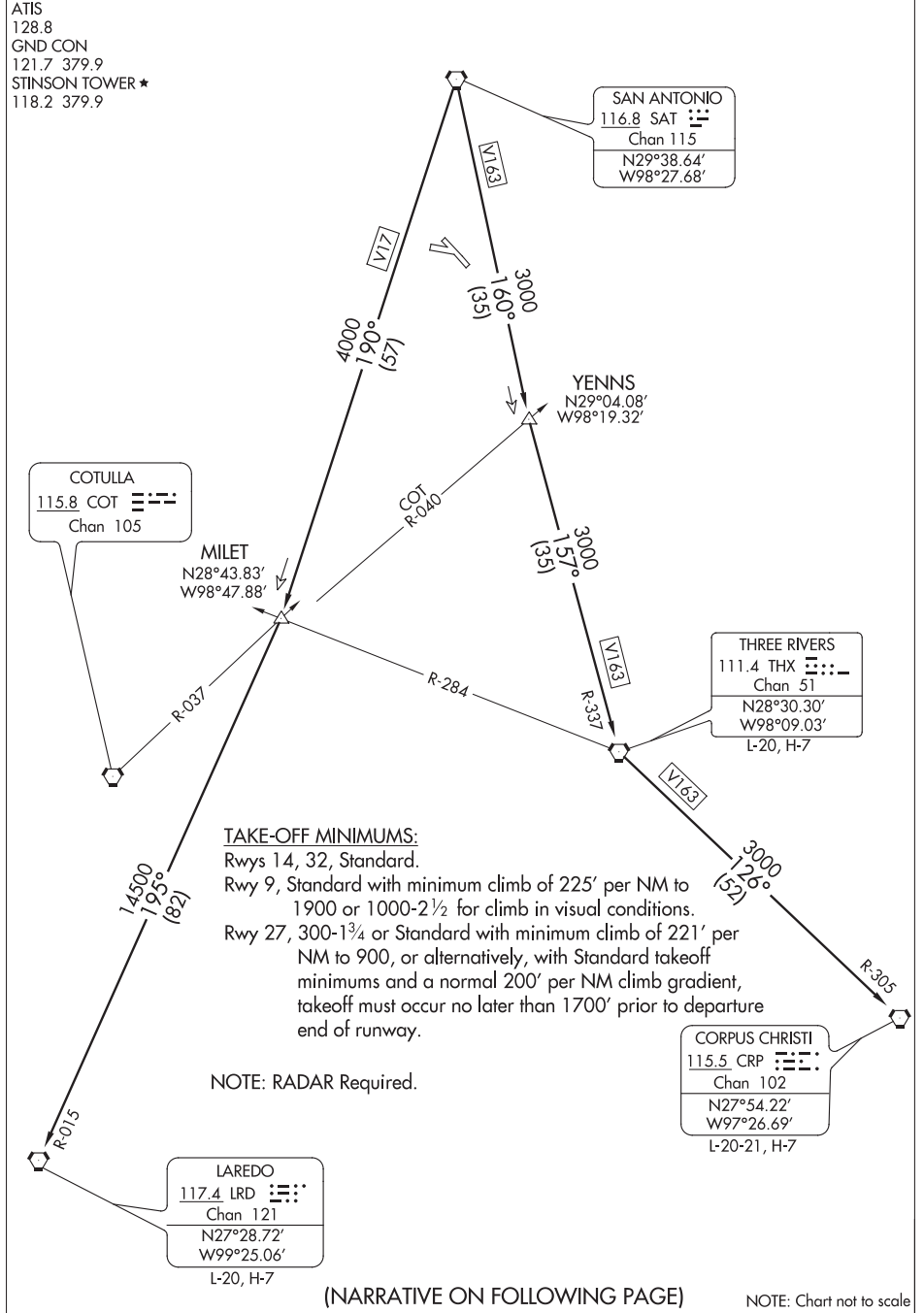
NOTE: RADAR Required.

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017



BOWIE SIX DEPARTURE



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 9, 14, 27, 32: Climb on assigned heading and altitude for radar vectors to SAT VORTAC, thence. . .

. . . on transition/route. Expect filed altitude 10 minutes after departure.

CORPUS CHRISTI TRANSITION (BOWIE6.CRP): From over SAT VORTAC on SAT R-160 to YENNS/SAT 35 DME, then on THX R-337 to THX VORTAC, then on THX R-126 and CRP R-305 to CRP VORTAC.

LAREDO TRANSITION (BOWIE6.LRD): From over SAT VORTAC on SAT R-190 to MILET/SAT 57 DME, then on LRD R-015 to LRD VORTAC.

TAKE-OFF OBSTACLES:

- Rwy 9: Vehicle on road, 285' from DER, 380' left of centerline, 15' AGL/584' MSL.
Trees beginning 1653' from DER, 435' right of centerline, up to 70' AGL/629' MSL.
- Rwy 14: Vehicle on road 114' from DER, on centerline extending 373' left of centerline, up to 15' AGL/564' MSL.
Trees beginning 72' from DER, 79' right of centerline, up to 70' AGL/607' MSL.
Trees beginning 232' from DER, 54' left of centerline, up to 70' AGL/618' MSL.
Transmission line tower 4205' from DER, 133' right of centerline, 119' AGL/663' MSL.
- Rwy 27: Fence 41' from DER, 30' right of centerline, 8' AGL/584' MSL.
Vehicle on road, 108' from DER, 202' right of centerline, 15' AGL/584' MSL.
Vehicle on road 123' from DER, 113' right of centerline, 15' AGL/596' MSL.
Trees and poles beginning 229' from DER, 117' right of centerline, up to 70' AGL/645' MSL.
Trees and poles beginning 599' from DER, 6' left of centerline, up to 70' AGL/634' MSL.
Tanks beginning 1.3 NM from DER, 1338' right of centerline, 179' AGL/799' MSL.
Building 1422' from DER, 432' right of centerline, 40' AGL/627' MSL.
Building 2133' from DER, 36' left of centerline, 55' AGL/635' MSL.
- Rwy 32: Fence 17' from DER, 80' left of centerline, 8' AGL/578' MSL.
Vehicle on road 54' from DER, 199' left of centerline, 15' AGL/586' MSL.
Trees beginning 164' from DER, 125' right of centerline, up to 70' AGL/639' MSL.
Trees and poles beginning 43' from DER, 41' left of centerline, up to 75' AGL/668' MSL.

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SC-3, 10 NOV 2016 to 05 JAN 2017

7:10Z 10 NOV 2016 10:10 'C-C-C

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWYS 9, 14, 27, 32: Climb on assigned heading and altitude for radar vectors to SAT VORTAC, thence, . . . on depicted transition/route to LEJON INT. Expect filed altitude 10 minutes after departure.

ATIS
128.8
GND CON
121.7 379.9
STINSON TOWER ★
118.2 379.9

STONEWALL
113.8 STV
Chan 85

LEJON
N30°06.77'
W99°07.32'

CENTER POINT
117.5 CSI
Chan 122

TAKEOFF MINIMUMS:

Rwys 14, 32: Standard
Rwy 9: Standard with minimum climb of 225' per NM to 1900 or 1000-2 1/2 for climb in visual conditions.
Rwy 27: 300-1/4 or standard with minimum climb in visual conditions, or alternatively, with standard takeoff minimums and a normal 200' per NM climb gradient, takeoff must occur no later than 1700' prior to DER.

TAKEOFF OBSTACLES:

Rwy 9: Vehicle on road 285' from DER, 380' left of centerline, 15' AGL/584' MSL. Trees beginning 1653' from DER, 435' right of centerline, up to 70' AGL/629' MSL.
Rwy 14: Vehicle on road 114' from DER, on centerline extending 373' left of centerline, up to 15' AGL/564' MSL. Trees beginning 72' from DER, 79' right of centerline, up to 70' AGL/607' MSL. Trees beginning 232' from DER, 54' left of centerline, up to 70' AGL/618' MSL. Transmission line tower 4205' from DER, 133' right of centerline, 119' AGL/663' MSL.
Rwy 27: Fence 41' from DER, 30' right of centerline, 8' AGL/584' MSL. Vehicle on road 108' from DER, 202' right of centerline, 15' AGL/584' MSL. Vehicle on road 123' from DER, 113' right of centerline, 15' AGL/596' MSL. Trees and poles beginning 229' from DER, of centerline, up to 70' AGL/645' MSL. Trees and poles beginning 599' from DER, 6' left of centerline, up to 70' AGL/634' MSL. Tanks beginning 1.3 NM from DER, 1338' right of centerline, 179' AGL/799' MSL. Building 1422' from DER, 432' right of centerline, 40' AGL/627' MSL. Building 2133' from DER, 36' left of centerline, 55' AGL/635' MSL.
Rwy 32: Fence 17' from DER, 80' left of centerline, 8' AGL/578' MSL. Vehicle on road 54' from DER, 199' left of centerline, 15' AGL/ 586' MSL. Trees beginning 164' from DER, 12.5' right of centerline, up to 70' AGL/639' MSL. Trees and poles beginning 43' from DER, 41' left of centerline, up to 75' AGL/668' MSL.

R-248

R-187

R-015

4100
30/11
(211)

4100
30/10
(23)

TATAR
N29°53.23'
W98°48.15'

SAN ANTONIO
116.8 SAT
Chan 115
N29°38.64'
W98°27.68'
L-19, H-7

V198

V198



NOTE: RADAR required.
NOTE: Chart not to scale

MILET THREE DEPARTURE (RNAV)

ATIS 128.8
GND CON
121.7 379.9
STINSON TOWER *
118.2 379.9

TAKEOFF OBSTACLES

- Rwy 9: Vehicle on road 285' from DER, 380' left of centerline, 15' AGL/584' MSL. Trees beginning 1653' from DER, 435' right of centerline, up to 70' AGL/629' MSL.
- Rwy 14: Vehicle on road 114' from DER, on centerline extending 373' left of centerline, up to 15' AGL/564' MSL. Trees beginning 72' from DER, 79' right of centerline, up to 70' AGL/607' MSL. Trees beginning 232' from DER, 54' left of centerline, up to 70' AGL/618' MSL. Transmission line tower 4205' from DER, 133' right of centerline, 119' AGL/663' MSL.
- Rwy 27: Fence 41' from DER, 30' right of centerline, 8' AGL/584' MSL. Vehicle on road, 108' from DER, 202' right of centerline, 15' AGL/584' MSL. Vehicle on road 123' from DER, 113' right of centerline, 15' AGL/596' MSL. Trees and poles beginning 229' from DER, 117' right of centerline, up to 70' AGL/645' MSL. Trees and poles beginning 599' from DER, 6' left of centerline, up to 70' AGL/634' MSL. Tanks beginning 1.3 NM from DER, 1338' right of centerline, 179' AGL/799' MSL. Building 1422' from DER, 432' right of centerline, 40' AGL/627' MSL. Building 2133' from DER, 36' left of centerline, 55' AGL/635' MSL.
- Rwy 32: Fence 17' from DER, 80' left of centerline, 8' AGL/578' MSL. Vehicle on road 54' from DER, 199' left of centerline, 15' AGL/586' MSL. Trees beginning 164' from DER, 125' right of centerline, up to 70' AGL/639' MSL. Trees and poles beginning 43' from DER, 41' left of centerline, up to 75' AGL/668' MSL.

TAKEOFF MINIMUMS

- Rwy 14, 32: Standard.
- Rwy 9: Standard with minimum climb of 225' per NM to 1900 or 1000-2 1/2 for climb in visual conditions.
- Rwy 27: 300-3/4 or Standard with a minimum climb of 221' per NM to 900, or alternatively, with Standard takeoff minimums and a normal 200' per NM climb gradient, takeoff must occur no later than 1700' prior to DER.

- NOTE: RNAV 1.
- NOTE: RADAR required.
- NOTE: DME/DME/IRU or GPS required.
- NOTE: For non-GPS equipped aircraft SAT, THX, and COT DME's must be operational.

TAKEOFF RUNWAY 9, 14, 27, 32:
Climb on assigned heading and altitude for radar vectors to RAYBN, thence. . . .

. . . .On depicted route/transition to LRD VORTAC. Expect filed altitude 10 minutes after departure.

LAREDO LRD

NOTE: Chart not to scale.

SC-3, 10 NOV 2016 to 05 JAN 2017

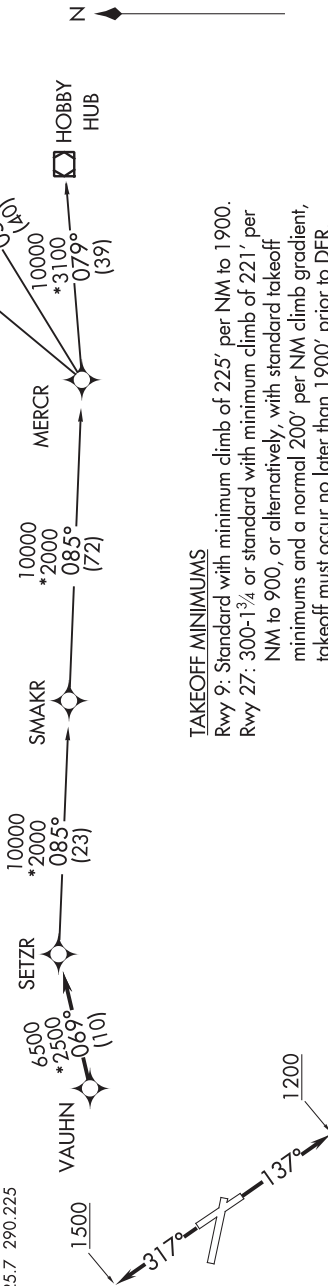
SC-3, 10 NOV 2016 to 05 JAN 2017

MILET THREE DEPARTURE (RNAV)

SC-3, 10 NOV 2016 to 05 JAN 2017

ATIS 128.8
CLINC DEL 121.7
GND CON 121.7 379.9
STINSON TOWER * 118.2 379.9
REGIONAL DEP CON 125.7 290.225

NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: For use by turbojet and turboprop aircraft only.
NOTE: RNAV 1



TAKEOFF MINIMUMS

Rwy 9: Standard with minimum climb of 225' per NM to 1900.
Rwy 27: 300-1³/₄ or standard with minimum climb of 221' per NM to 900, or alternatively, with standard takeoff minimums and a normal 200' per NM climb gradient, takeoff must occur no later than 1900' prior to DER.

NOTE: Chart not to scale

DEPARTURE ROUTE DESCRIPTION

TAKEOFF Rwy 9: Climb on assigned heading for RADAR vectors to VAUHN, thence ...
TAKEOFF Rwy 14: Climb on heading 137° to 1200, then on assigned heading for RADAR vectors to VAUHN, thence ...
TAKEOFF Rwy 27: Climb on assigned heading for RADAR vectors to VAUHN, thence ...
TAKEOFF Rwy 32: Climb on heading 317° to 1500, then on assigned heading for RADAR vectors to VAUHN, thence ...
... on track 069° to SETZR, then on (transition) maintain 5000 or as assigned by ATC. Expect filed altitude 10 minutes after departure.

- HOBBS TRANSITION (SETZR1.HUB)
- HUMBLE TRANSITION (SETZR1.IAH)
- SMAKR TRANSITION (SETZR1.SMAKR)
- WYLSN TRANSITION (SETZR1.WYLSN)

SC-3, 10 NOV 2016 to 05 JAN 2017

TAKEOFF OBSTACLES:

- Rwy 9: Vehicle on road, 285' from DER, 380' left of centerline, 15' AGL/584' MSL.
Trees beginning 1653' from DER, 435' right of centerline, up to 70' AGL/629' MSL.
- Rwy 14: Vehicle on road 114' from DER, on centerline extending 373' left of centerline, up to 15' AGL/564' MSL.
Trees beginning 72' from DER, 79' right of centerline, up to 70' AGL/607' MSL.
Trees beginning 232' from DER, 54' left of centerline, up to 70' AGL/618' MSL.
Transmission line tower 4205' from DER, 133' right of centerline, 119' AGL/663' MSL.
- Rwy 27: Fence 41' from DER, 30' right of centerline, 8' AGL/584' MSL.
Vehicle on road, 108' from DER, 202' right of centerline, 15' AGL/584' MSL.
Vehicle on road 123' from DER, 113' right of centerline, 15' AGL/596' MSL.
Trees and poles beginning 229' from DER, 117' right of centerline, up to 70' AGL/645' MSL.
Trees and poles beginning 599' from DER, 6' left of centerline, up to 70' AGL/634' MSL.
Building 1422' from DER, 432' right of centerline, 40' AGL/627' MSL.
Building 2133' from DER, 36' left of centerline, 55' AGL/635' MSL.
Tank beginning 1.3 NM from DER, 1338' right of centerline, 179' AGL/799' MSL.
- Rwy 32: Fence 17' from DER, 80' left of centerline, 8' AGL/578' MSL.
Vehicle on road 54' from DER, 199' left of centerline, 15' AGL/586' MSL.
Trees beginning 164' from DER, 125' right of centerline, up to 70' AGL/639' MSL.
Trees and poles beginning 43' from DER, 41' left of centerline, up to 75' AGL/668' MSL.

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SC-3, 10 NOV 2016 to 05 JAN 2017

THREE RIVERS THREE DEPARTURE (RNAV)

12.10Z JAN 01 09:10Z NOV 01 '08-05

ATIS 118.9
GND CON
121.7 379.9
STINSON TOWER *
118.2 379.9

TAKEOFF MINIMUMS:

- Rwys 14, 32: Standard.
- Rwy 9: Standard with minimum climb of 225' per NM to 1900 or 1000-2 1/2 for climb in visual conditions.
- Rwy 27: 300-1 1/4 or standard with minimum climb of 221' per NM to 900, or alternatively, with standard takeoff minimums and a normal 200' per NM climb gradient; takeoff must occur no later than 1700' prior to DER.



YENN'S ▲

N



4000
157°
(35)

THREE RIVERS
THX

1000
120°
(52)

Note: RNAV 1

Note: RADAR required

Note: DME/DME/IRU or GPS required.

Note: For non-GPS equipped aircraft COT, THX, and VCT DMEs must be operational.

Note: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 9, 14, 27, 32: Climb on assigned heading and altitude for radar vectors to YENN'S, thence. . . .

. . . . on depicted route/transition to CRP VORTAC. Expect filed altitude 10 minutes after departure.

TAKEOFF OBSTACLES:

- Rwy 9: Vehicle on road 285' from DER, 380' left of centerline, 15' AGL/584' MSL.
Trees beginning 1653' from DER, 435' right of centerline, up to 70' AGL/629' MSL.
- Rwy 14: Vehicle on road 114' from DER, on centerline extending 373' left of centerline, up to 15' AGL/564' MSL.
Trees beginning 72' from DER, 79' right of centerline, up to 70' AGL/607' MSL.
Trees beginning 232' from DER, 54' left of centerline, up to 70' AGL/618' MSL.
Transmission line tower 4205' from DER, 133' right of centerline, 119' AGL/663' MSL.
- Rwy 27: Fence 41' from DER, 30' right of centerline, 8' AGL/584' MSL.
Vehicle on road, 108' from DER, 202' right of centerline, 15' AGL/584' MSL.
Vehicle on road, 123' from DER, 113' right of centerline, 15' AGL/584' MSL.
Trees and poles beginning 229' from DER, 117' right of centerline, up to 70' AGL/645' MSL.
Trees and poles beginning 599' from DER, 6' left of centerline, up to 70' AGL/634' MSL.
Tanks beginning 1.3 NM from DER, 1338' right of centerline, 179' AGL/799' MSL.
Building 1422' from DER, 432' right of centerline, 40' AGL/627' MSL.
Building 2133' from DER, 36' left of centerline, 55' AGL/635' MSL.
- Rwy 32: Fence 17' from DER, 80' left of centerline, 8' AGL/578' MSL.
Vehicle on road 54' from DER, 199' left of centerline, 15' AGL/586' MSL.
Trees beginning 164' from DER, 125' right of centerline, up to 70' AGL/639' MSL.
Trees and poles beginning 43' from DER, 41' left of centerline, up to 75' AGL/668' MSL.

CORPUS CHRISTI
CRP

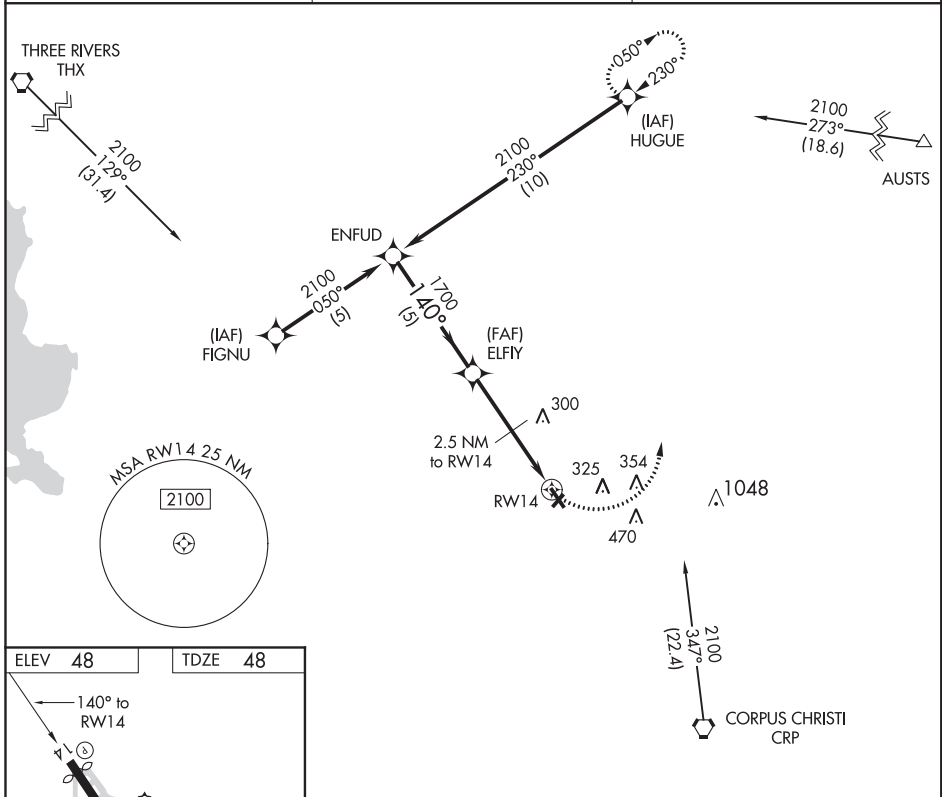
THREE RIVERS THREE DEPARTURE (RNAV) (THX3.THX) 15344

APP CRS 140°	Rwy Idg 4073 TDZE 48 Apt Elev 48
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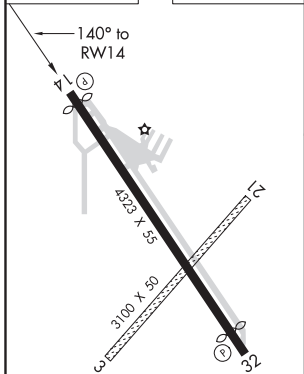
GPS RWY 14
ALFRED C 'BUBBA' THOMAS (T69)

<p>Use Corpus Christi Intl altimeter setting. Circling to Rwy 3/21 NA.</p>	<p>MISSED APPROACH: Climbing left turn to 2100 direct HUGUE and hold.</p>
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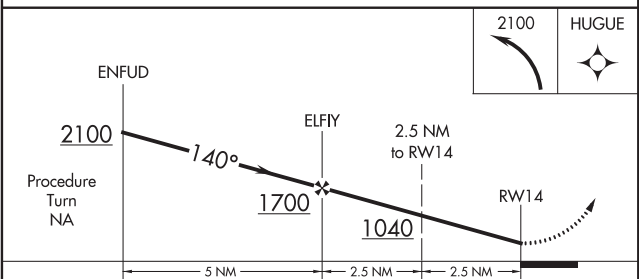
AWOS-1 118.25	CORPUS APP CON 120.9 348.725	UNICOM 122.8 (CTAF) 0
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ELEV 48	TDZE 48
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MIRL Rwy 14-32 0
REIL Rwy 14 and 32 0



CATEGORY	A	B	C	D
S-14	480-1	432 (500-1)	NA	NA
CIRCLING	620-1 572 (600-1)	720-1 672 (700-1)	NA	NA

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

SINTON, TEXAS

AL-5274 (FAA)

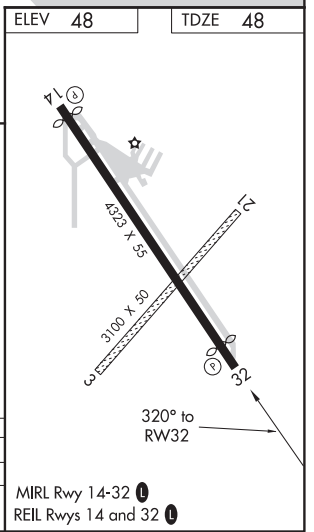
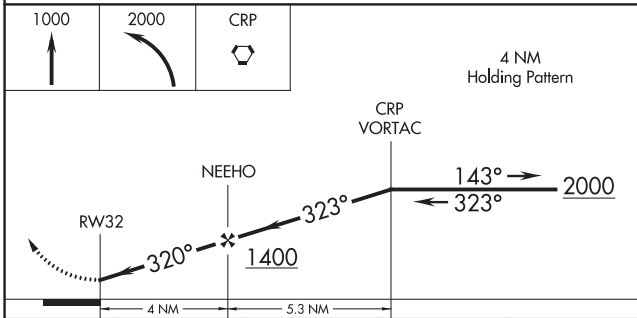
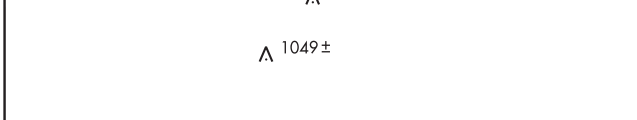
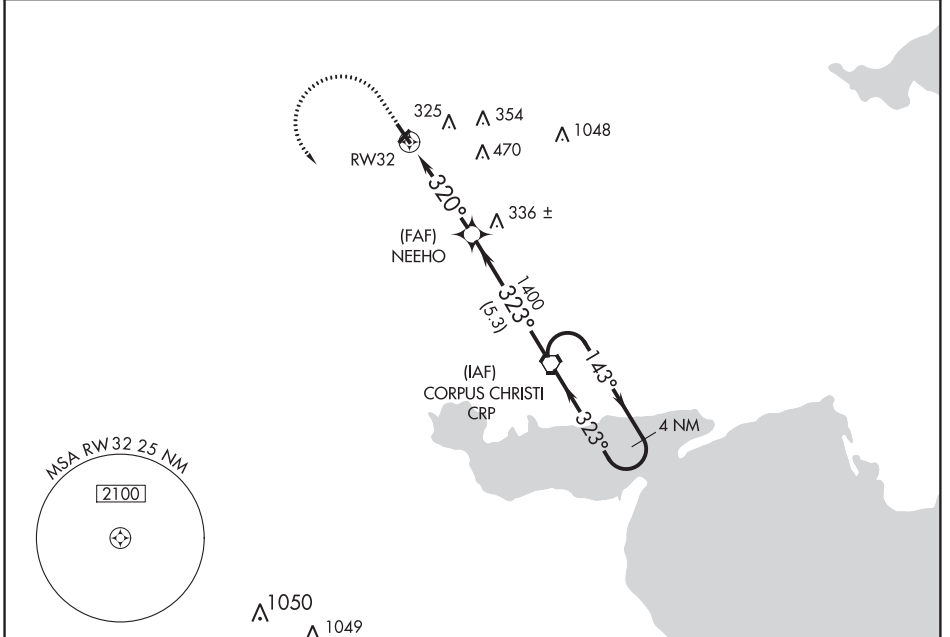
15064

APP CRS 320°	Rwy Idg 3923 TDZE 48 Apt Elev 48
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GPS RWY 32
ALFRED C 'BUBBA' THOMAS (T69)

<p>▼ Use Corpus Christi altimeter setting. ▲ NA Circling to Rwy 3/21 NA.</p>	<p>MISSED APPROACH: Climb to 1000 then climbing left turn to 2000 direct CRP VORTAC and hold.</p>
--	---

AWOS-1 118.25	CORPUS APP CON 120.9 348.725	UNICOM 122.8 (CTAF) 0
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CATEGORY	A	B	C	D
S-32	520-1	472 (500-1)		NA
CIRCLING	620-1 572 (600-1)	720-1 672 (700-1)		NA

SINTON, TEXAS
Orig-A 13NOV14

28°02' N-97°33' W

ALFRED C 'BUBBA' THOMAS (T69)
GPS RWY 32

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

SINTON, TEXAS

AL-5274 (FAA)

15064

VORTAC CRP 115.5	APP CRS 138°	Rwy Idg TDZE 48	4073
Chan 102		Apt Elev 48	

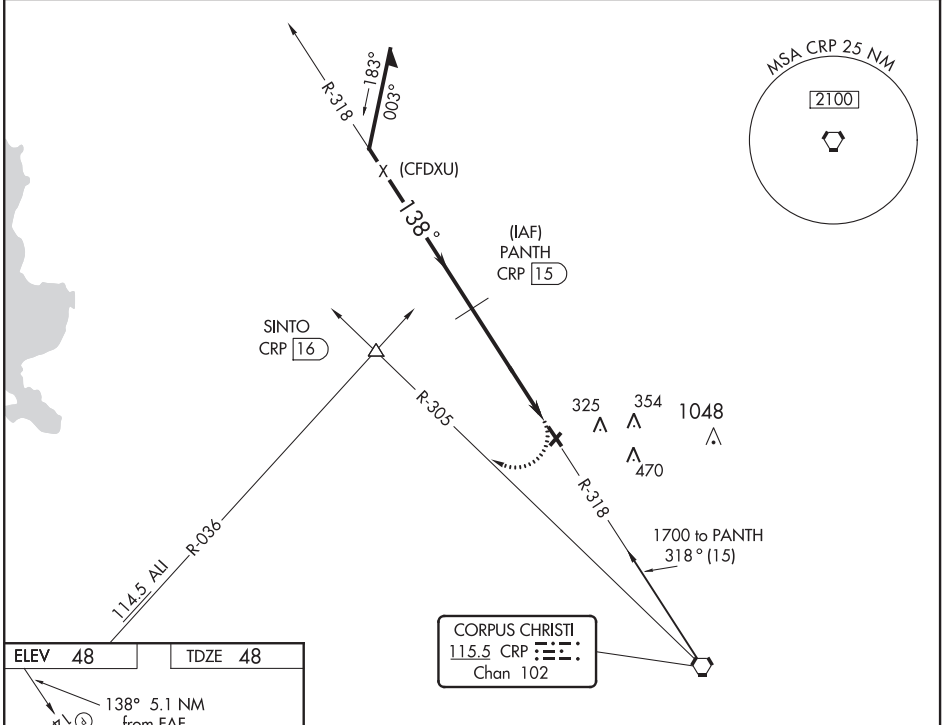
VOR/DME RWY 14

ALFRED C 'BUBBA' THOMAS (T69)

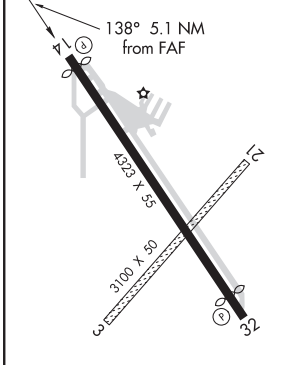
▼ Use Corpus Christi Intl altimeter setting.
▲ NA Circling to Rwy 3/21 NA.

MISSED APPROACH: Climbing right turn to 1700 via CRP R-305 to SINTO Int.

AWOS-1 118,25	CORPUS APP CON 120.9 348.725	UNICOM 122.8 (CTAF) 0
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ELEV 48	TDZE 48
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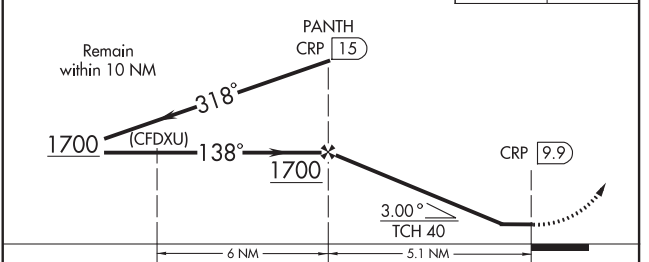
MIRL Rwy 14-32 **0**
REL Rwys 14 and 32 **0**

FAF to MAP 5.1 NM

Knots	60	90	120	150	180
Min:Sec	5:06	3:24	2:33	2:02	1:42

VGSI and descent angles not coincident (VGSI Angle 3.00°/TCH 19).

1700	SINTO
CRP R-305	▲



CATEGORY	A	B	C	D
S-14	640-1	592 (600-1)		NA
CIRCLING	640-1	720-1		NA
	592 (600-1)	672 (700-1)		

SINTON, TEXAS
Amdt 1B 13NOV14

28°02' N-97°33' W
435

ALFRED C 'BUBBA' THOMAS (T69)
VOR/DME RWY 14

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

SINTON, TEXAS

AL-5274 (FAA)

15064

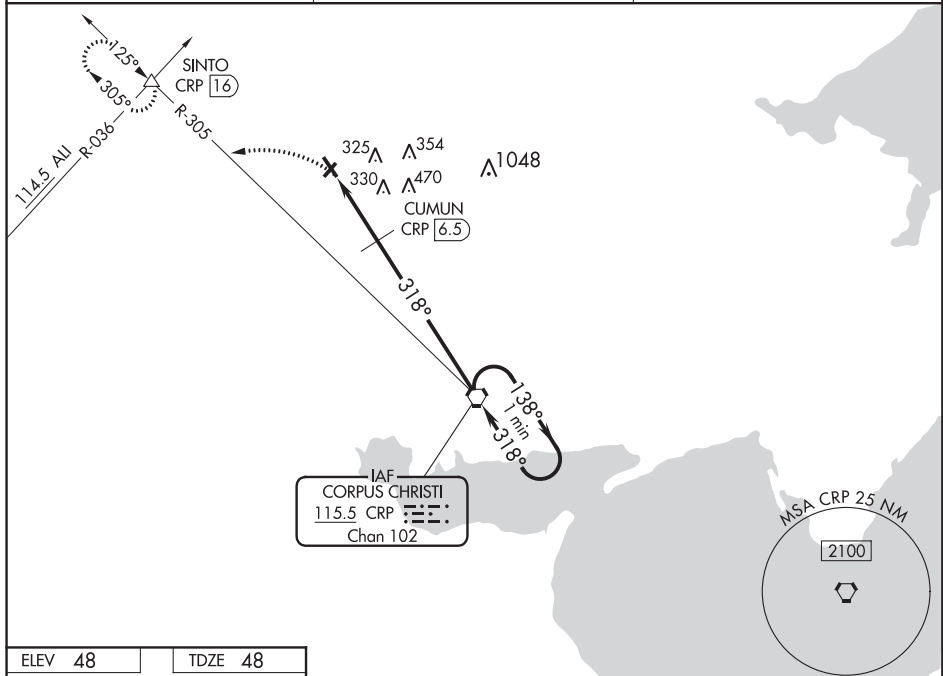
VORTAC CRP 115.5 Chan 102	APP CRS 318°	Rwy Idg 3923 TDZE 48 Apt Elev 48
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VOR RWY 32

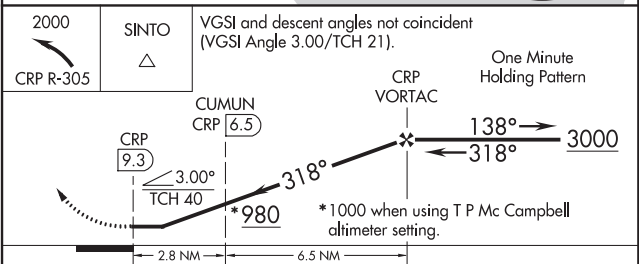
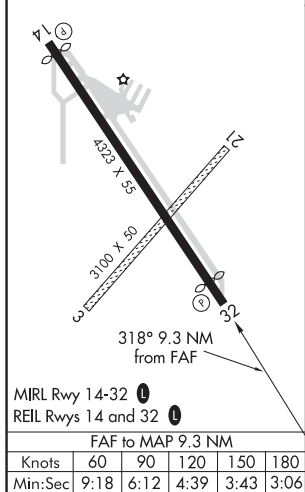
ALFRED C 'BUBBA' THOMAS (T69)

⚠ Use Corpus Christi Intl altimeter setting; when not received, use McCampbell-Porter altimeter setting and increase all MDA 20 feet and Cat B visibility ¼ mile.
⚠ NA Procedure NA at night. Circling to Rwy 3/21 NA. MISSED APPROACH: Climbing left turn to 2000 on CRP VORTAC R-305 to SINTO INT and hold.

AWOS-1 118.25	CORPUS APP CON 120.9 348.725	UNICOM 122.8 (CTAF) 📻
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ELEV 48	TDZE 48
----------------	----------------



CATEGORY	CUMUN FIX MINIMUMS			
	A	B	C	D
S-32	980-1¼	932 (1000-1¼)		NA
CIRCLING	980-1¼	932 (1000-1¼)		NA
S-32	680-1	632 (700-1)		NA
CIRCLING	680-1 632 (700-1)	720-1 632 (700-1)		NA

SINTON, TEXAS
Amdt 9A 13NOV14

28°02'N-97°33'W

ALFRED C 'BUBBA' THOMAS (T69)

VOR RWY 32

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

NDB or GPS RWY 18

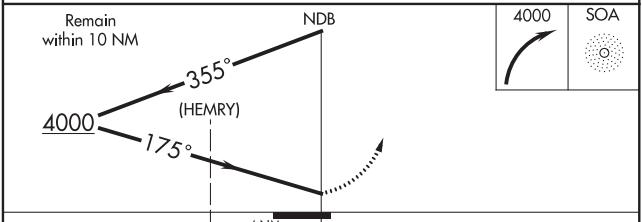
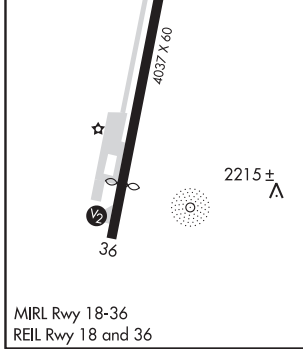
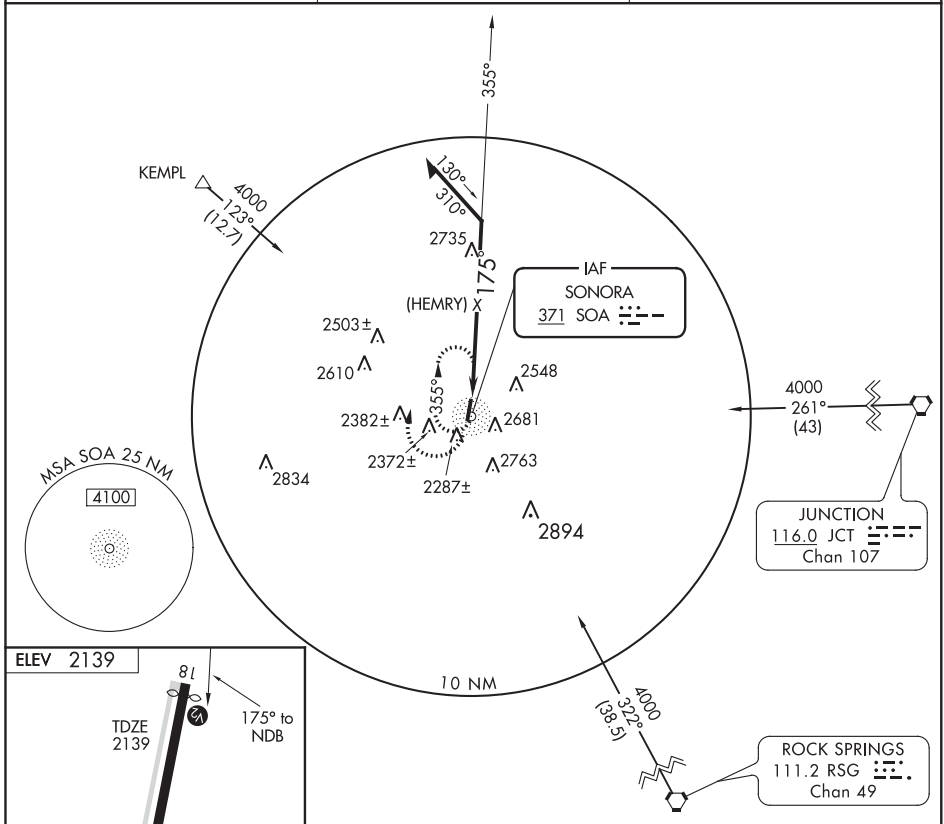
SONORA MUNI (SOA)

NDB SOA 371	APP CRS 175°	Rwy Idg 3944
		TDZE 2139
		Apt Elev 2139

Procedure not authorized at night.
Use San Angelo altimeter setting.

MISSED APPROACH: Climbing right turn to 4000 in SOA NDB holding pattern.

AWOS-3 118.075	HOUSTON CENTER 125.75 346.4	UNICOM 122.8 (CTAF) 0
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CATEGORY	A	B	C	D
S-18	3240-1¼ 1101 (1200-1¼)	3240-1½ 1101 (1200-1½)		NA
CIRCLING	3240-1¼ 1101 (1200-1¼)	3240-1½ 1101 (1200-1½)		NA

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

TAYLOR, TEXAS

AL-6938 (FAA)

16147

WAAS CH 90535 W17A	APP CRS 174°	Rwy Idg 4000 TDZE 600 Apt Elev 600
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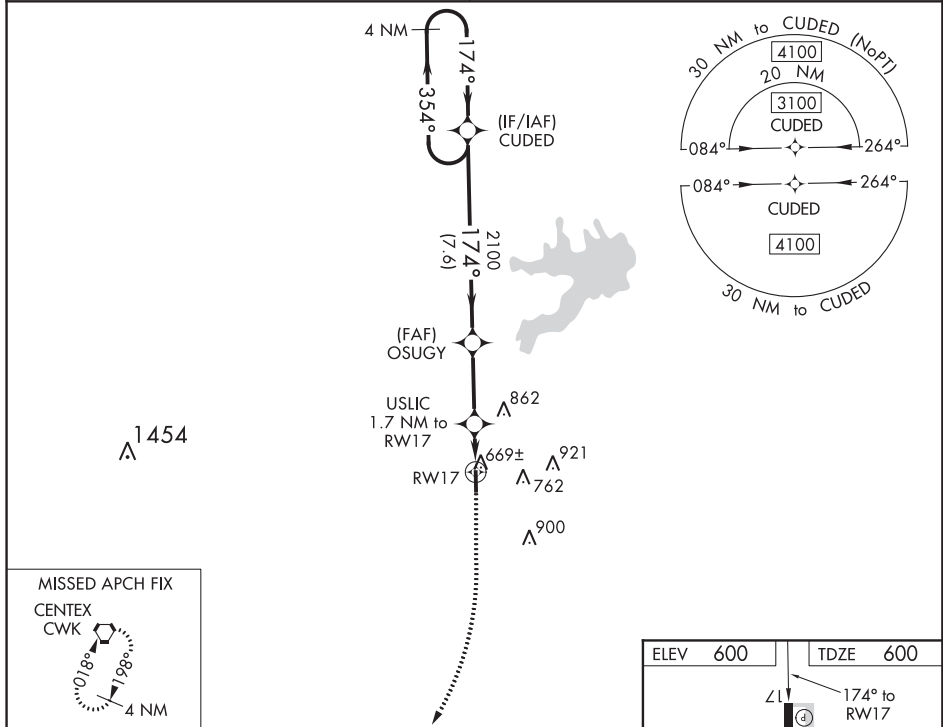
RNAV (GPS) RWY 17

TAYLOR MUNI (T74)

NA DME/DME RNP-0.3 NA. Baro-VNAV NA. Use Austin Executive altimeter setting; when not received use Georgetown altimeter setting and increase all DA to 909 and all visibilities 1/8 mile. Increase all MDA 40 feet.

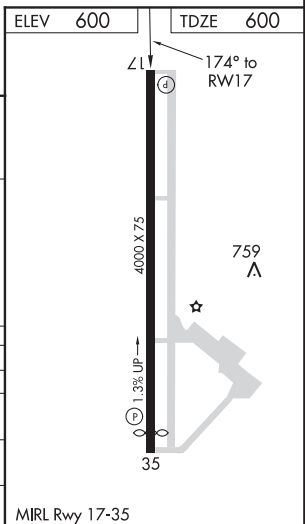
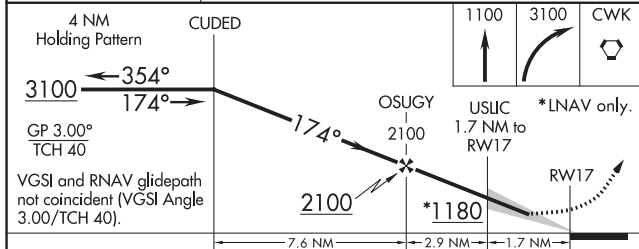
MISSED APPROACH: Climb to 1100 then climbing right turn to 3100 direct CWK VORTAC and hold.

AUSTIN APP CON 127.225 317.65	UNICOM 122.8 (CTAF)
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SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017



CATEGORY	A	B	C	D
LPV DA	882-7/8	282 (300-7/8)		NA
LNNAV/VNAV DA	882-7/8	282 (300-7/8)		NA
LNNAV MDA	960-1	360 (400-1)		NA
C CIRCLING	1100-1	500 (500-1)		NA

TAYLOR, TEXAS
Orig-A 26MAY16

30°34' N-97°27' W

RNAV (GPS) RWY 17

TAYLOR MUNI (T74)

MIRL Rwy 17-35

TAYLOR, TEXAS

AL-6938 (FAA)

14317

VORTAC CWK 112.8 Chan 75	APP CRS 194°	Rwy Idg 4000 TDZE 600 Apt Elev 600
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VOR/DME RWY 17

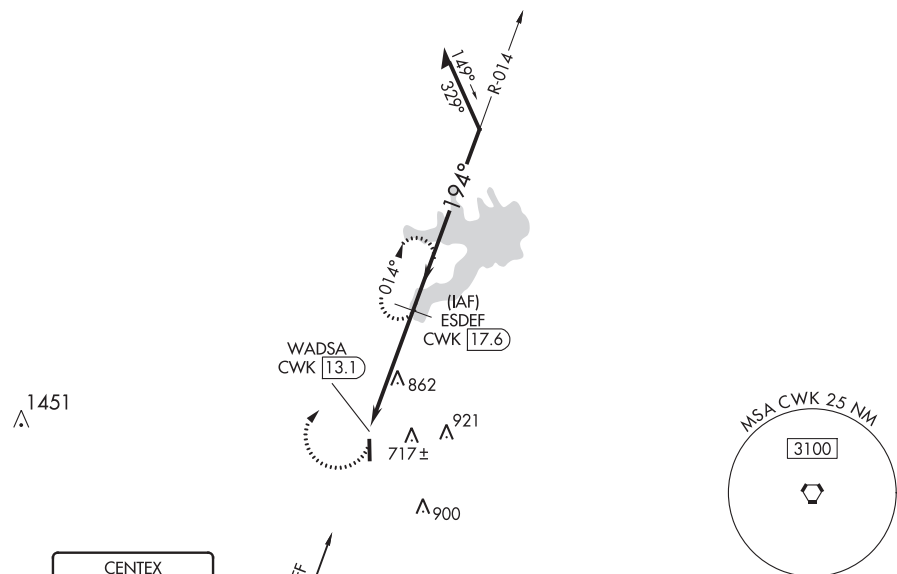
TAYLOR MUNI (T74)

NA Procedure NA at night. Use Austin-Bergstrom Intl Altimeter setting, when not received use Georgetown Muni Altimeter setting. Helicopter visibility reduction below 1 SM NA.

MISSED APPROACH: Climbing right turn to 2500 via CWK VORTAC R-014 to ESDEF/17.6 DME and hold.

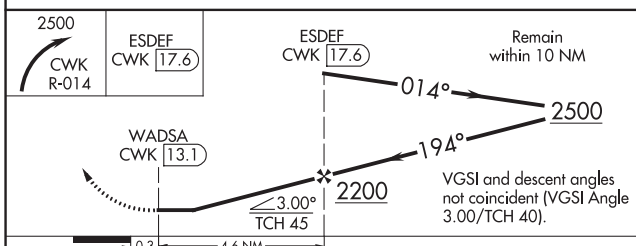
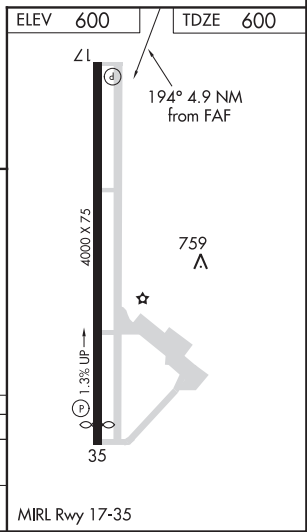
AUSTIN APP CON
127.225 317.65

UNICOM
122.8 (CTAF)



SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017



CATEGORY	A	B	C	D
S-17	1180-1	580 (600-1)		NA
CIRCLING	1180-1	580 (600-1)		NA

TAYLOR, TEXAS
Amdt 1B 26JUN14

30°34' N-97°27' W

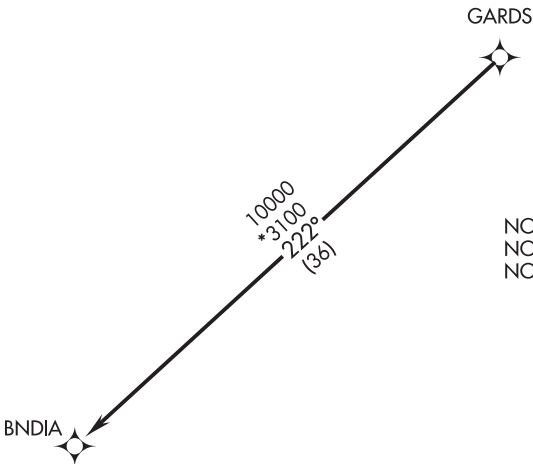
TAYLOR MUNI (T74) VOR/DME RWY 17

BNDIA ONE DEPARTURE (RNAV)

AUSTIN DEP CON
127.225 317.65

TAKEOFF MINIMUMS:

Rwys 17, 35: Standard.



NOTE: RADAR required.
 NOTE: DME/DME/IRU or GPS required.
 NOTE: RNAV-1

TAKEOFF OBSTACLES:

Rwy 17: Transmission line towers 2213' from DER, crossing centerline, up to 110' AGL/661' MSL.
 Rwy 35: Vehicle on road 773' from DER, crossing centerline, 15' AGL/645' MSL. Pole 829' from DER, 448' left of centerline, 28' AGL/642' MSL. Tree 1129' from DER, 415' right of centerline, 20' AGL/639' MSL. Poles beginning 1150' from DER, 475' right of centerline, up to 30' AGL/644' MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 17, 35: Climb on assigned heading for radar vectors to GARDS, then on depicted route to BNDIA, thence

. . . . maintain 3000 or as assigned by ATC. Expect filed altitude 10 minutes after departure.

BNDIA ONE DEPARTURE (RNAV)

(DILLO1.DILLO) 15064

DILLO ONE DEPARTURE (RNAV) SL-6938 (FAA)

TAYLOR MUNI (T74)

TAYLOR, TEXAS

AUSTIN DEP CON
127.225 317.65

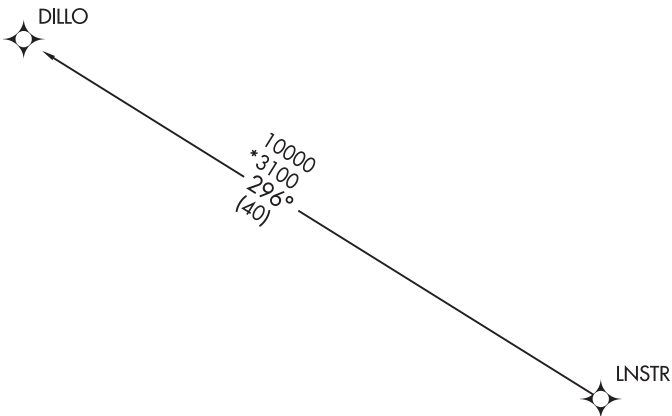
TAKEOFF MINIMUMS:

Rwys 17, 35: Standard.

NOTE: RADAR required.

NOTE: DME/DME/IRU or GPS required.

NOTE: RNAV-1



TAKEOFF OBSTACLES:

Rwy 17: Transmission line towers 2213' from DER, crossing centerline, up to 110' AGL/661' MSL.

Rwy 35: Vehicle on road 773' from DER, crossing centerline, 15' AGL/645' MSL. Pole 829' from DER, 448' left of centerline, 28' AGL/642' MSL. Tree 1129' from DER, 415' right of centerline, 20' AGL/639' MSL. Poles beginning 1150' from DER, 475' right of centerline, up to 30' AGL/644' MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 17, 35: Climb on assigned heading for radar vectors to LNSTR then on depicted route to DILLO, thence . . .

. . . . maintain 3000 or as assigned by ATC. Expect filed altitude 10 minutes after departure.

DILLO ONE DEPARTURE (RNAV)

(DILLO1.DILLO) 15064

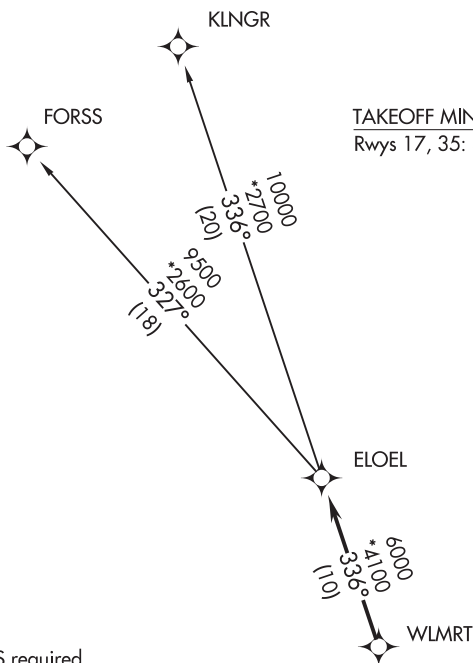
TAYLOR, TEXAS

TAYLOR MUNI (T74)

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

AUSTIN DEP CON
127.225 317.65



TAKEOFF MINIMUMS:
Rwys 17, 35: Standard.

NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV-1

TAKEOFF OBSTACLES:

Rwy 17: Transmission line towers 2213' from DER, crossing centerline, up to 110' AGL/661' MSL.
Rwy 35: Vehicle on road 773' from DER, crossing centerline, 15' AGL/645' MSL. Pole 829' from DER, 448' left of centerline, 28' AGL/642' MSL. Tree 1129' from DER, 415' right of centerline, 20' AGL/639' MSL. Poles beginning 1150' from DER, 475' right of centerline, up to 30' AGL/644' MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 17, 35: Climb on assigned heading for radar vectors to WLMRT then on depicted route to ELOEL, thence . . .

. . . On (transition). Maintain 3000 or as assigned by ATC. Expect filed altitude 10 minutes after departure.

FORSS TRANSITION (ELOEL1 .FORSS):
KLNGR TRANSITION (ELOEL1 .KLNGR):

(ILEXY1..ILEXY) 15064

ILEXY ONE DEPARTURE (RNAV)

SL-6938

TAYLOR MUNI (T74)
TAYLOR, TEXAS

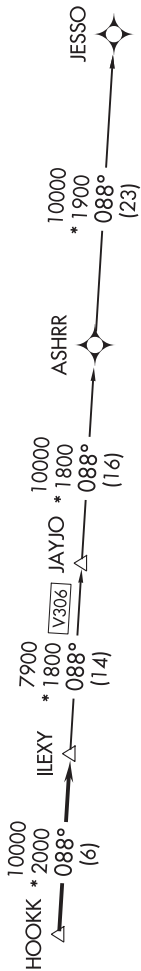
SC-3, 10 NOV 2016 to 05 JAN 2017

AUSTIN DEP CON
127.225 317.65

TAKEOFF MINIMUMS:

Rwys 17, 35: Standard.

- NOTE: RADAR required.
- NOTE: DME/DME/IRU or GPS required.
- NOTE: RNAV-1.
- NOTE: Houston terminal area arrivals expect routing from ILEXY.
- NOTE: JAYJO transition to join V306 only.



TAKEOFF OBSTACLE NOTES:

- Rwy 17: Transition line lowers beginning 2213' from DER, crossing centerline, up to 110' AGL/661' MSL.
- Rwy 35: Vehicle on road 773' from DER, crossing centerline, 15' AGL/645' MSL.
- Pole 829' from DER, 448' left of centerline, 28' AGL/642' MSL.
- Tree 1129' from DER, 415' right of centerline, 20' AGL/639' MSL.
- Poles beginning 1150' from DER, 475' right of centerline, up to 30' AGL/644' MSL.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWYS 17, 35: Climb on assigned heading for radar vectors to HOOKK, then on depicted route to ILEXY, thence

. . . . on (transition). Maintain 3000 or as assigned by ATC. Expect filed altitude 10 minutes after departure.

JAYJO TRANSITION (ILEXY1..JAYJO):
JESSO TRANSITION (ILEXY1..JESSO):

ILEXY ONE DEPARTURE (RNAV)

(ILEXY1..ILEXY) 15064

TAYLOR, TEXAS
TAYLOR MUNI (T74)

SC-3, 10 NOV 2016 to 05 JAN 2017

MUCKY ONE DEPARTURE (RNAV)

AUSTIN DEP CON
127.225 317.65

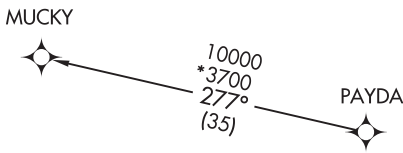
TAKEOFF MINIMUMS:

Rwys 17, 35: Standard.

NOTE: RADAR required.

NOTE: DME/DME/IRU or GPS required.

NOTE: RNAV-1



TAKEOFF OBSTACLE NOTES:

Rwy 17: Transmission line towers beginning 2213' from DER, crossing centerline, up to 110' AGL/661' MSL.

Rwy 35: Vehicle on road 773' from DER, crossing centerline, 15' AGL/645' MSL.

Pole 829' from DER, 448' left of centerline, 28' AGL/642' MSL.

Tree 1129' from DER, 415' right of centerline, 20' AGL/639' MSL.

Poles beginning 1150' from DER, 475' right of centerline, up to 30' AGL/644' MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 17, 35: Climb on assigned heading for radar vectors to PAYDA, then on depicted route to MUCKY, thence

. . . . Maintain 3000 or as assigned by ATC. Expect filed altitude 10 minutes after departure.

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

(SAYBR1.SAYBR) 15176

SAYBR ONE DEPARTURE (RNAV)

SL-6938 (FAA)

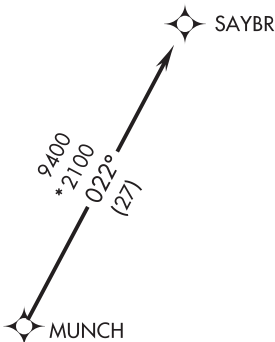
TAYLOR MUNI (T74)

TAYLOR, TEXAS

AUSTIN DEP CON
127.225 317.65

TAKEOFF MINIMUMS:

Rwys 17, 35: Standard.



- NOTE: RADAR required.
- NOTE: DME/DME/IRU or GPS required.
- NOTE: RNAV-1
- NOTE: For DFW Terminal Area Arrivals at FL230 or below only.

TAKEOFF OBSTACLE NOTES:

- Rwy 17: Transmission line towers beginning 2213' from DER, crossing centerline, up to 110' AGL/661' MSL.
- Rwy 35: Vehicle on road 773' from DER, crossing centerline, 15' AGL/645' MSL.
Pole 829' from DER, 448' left of centerline, 28' AGL/642' MSL.
Tree 1129' from DER, 415' right of centerline, 20' AGL/639' MSL.
Poles beginning 1150' from DER, 475' right of centerline, up to 30' AGL/644' MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 17, 35: Climb on assigned heading for radar vectors to MUNCH, then on depicted route to SAYBR, thence

. . . . Maintain 3000 or as assigned by ATC. Expect filed altitude 10 minutes after departure.

SAYBR ONE DEPARTURE (RNAV)

(SAYBR1.SAYBR) 15176

TAYLOR, TEXAS

TAYLOR MUNI (T74)

TEMPLE, TEXAS

AL-809 (FAA)

15344

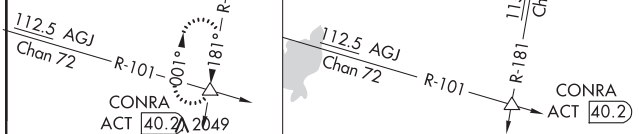
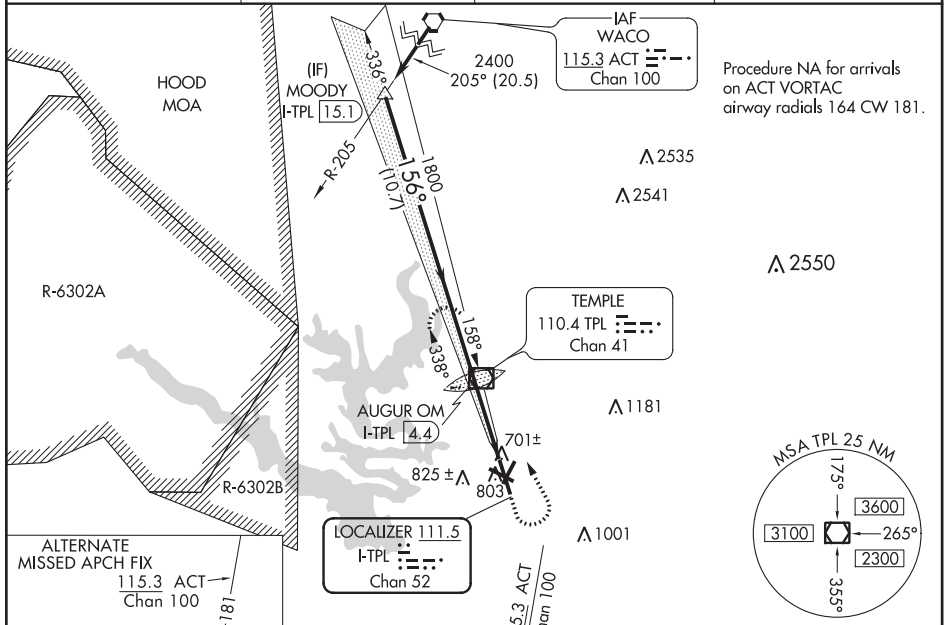
LOC/DME I-TPL 111.5 Chan 52	APP CRS 156°	Rwy Idg 7000 TDZE 682 Apt Elev 682
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ILS or LOC RWY 15
DRAUGHON-MILLER CENTRAL TEXAS RGNL (TPL)

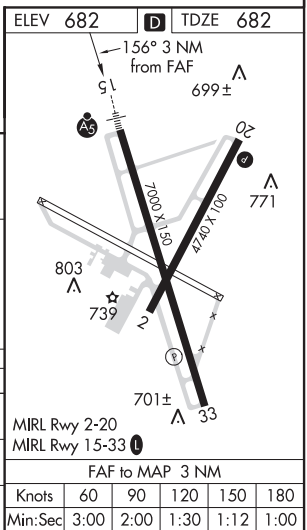
NA When local altimeter setting not received, use Killen altimeter setting and increase all DA 58 feet and all MDA 60 feet, increase S-LOC 15 Cats C and D visibility ¼ mile. VDP NA with Killen altimeter setting. Autopilot coupled approach NA below 990.

MALS MISSED APPROACH: Climb to 1300, then climbing left turn to 2200 direct TPL VOR/DME and hold.

AWOS-3PT 134.975	GRAY APP CON 120.075 370.0	CINC DEL 125.9	UNICOM 123.0 (CTAF)
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ELEV 682	TDZE 682
1300	2200
TPL	
CONRA ACT 40.2	



CATEGORY	A	B	C	D
S-ILS 15	882-½ 200 (200-½)			
S-LOC 15	1060-½ 378 (400-½)		1060-¾ 378 (400-¾)	
CIRCLING	1120-1 438 (500-1)	1180-1 498 (500-1)	1180-1½ 498 (500-1½)	1240-2 558 (600-2)

TEMPLE, TEXAS
Amdt 12A 05FEB15

DRAUGHON-MILLER CENTRAL TEXAS RGNL (TPL)
ILS or LOC RWY 15
31°09'N-97°24'W

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

WAAS Ch 72701 W02A	APP CRS 021°	Rwy Idg TDZE 675 Apt Elev 682	4740
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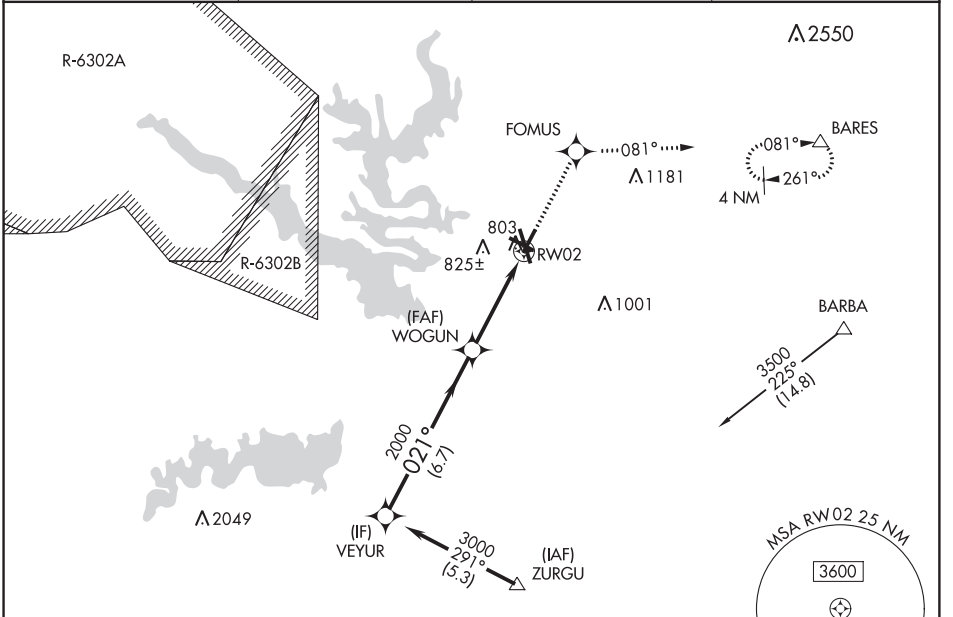
RNAV (GPS) RWY 2

DRAUGHON-MILLER CENTRAL TEXAS RGNL (TPL)

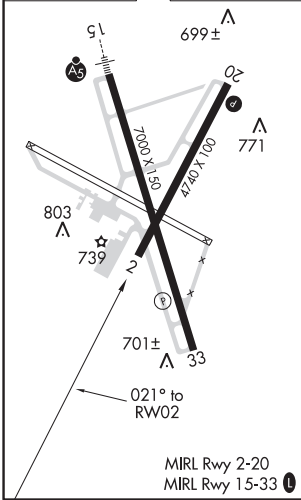
⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 47°C (116°F). DME/DME RNP-0.3 NA. Baro-VNAV and VDP NA when using Killeen altimeter setting. When local altimeter setting not received, use Killeen altimeter setting and increase all DA 58 feet and all MDA 60 feet, increase LNAV Cat D visibility ¼ mile.

MISSED APPROACH: Climb to 3600 direct FOMUS and on track 081° to BARES and hold, continue climb-in-hold to 3600.

AWOS-3PT 134.975	GRAY APP CON 120.075 370.0	CLNC DEL 125.9	UNICOM 123.0 (CTAF) 📞
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ELEV 682	D	TDZE 675
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CATEGORY	A	B	C	D
LPV DA		875-1	200 (200-1)	
LNAV/VNAV DA		1145-1¾	470 (500-1¾)	
LNAV MDA	1080-1	405 (400-1)	1080-1¼	405 (400-1¼)
CIRCLING	1120-1 438 (500-1)	1180-1 498 (500-1)	1180-1½ 498 (500-1½)	1240-2 558 (600-2)

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

WAAS Ch 82401 W33A	APP CRS 336°	Rwy Idg TDZE Apt Elev	6301 674 682
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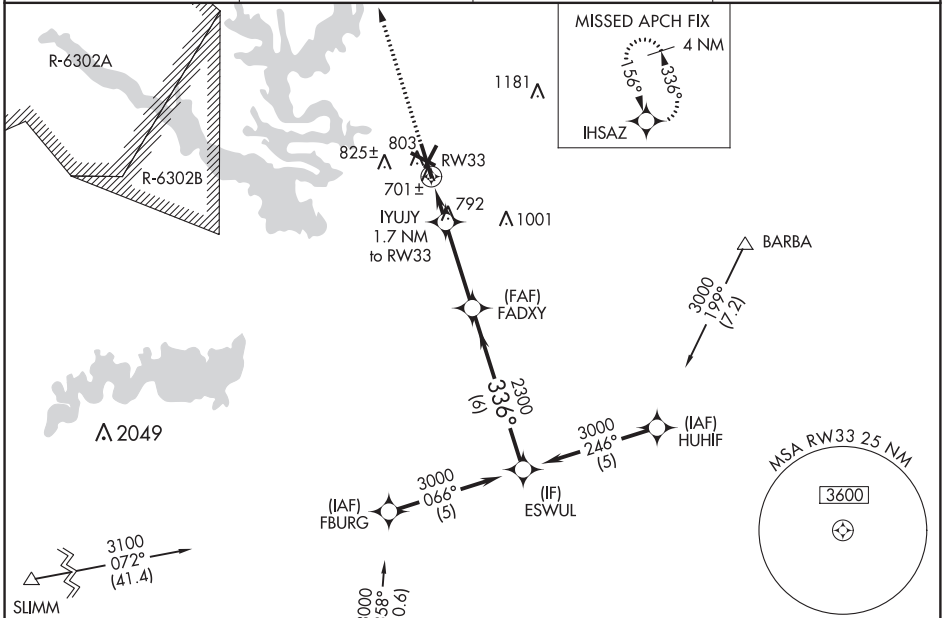
RNAV (GPS) RWY 33

DRAUGHON-MILLER CENTRAL TEXAS RGNL (TPL)

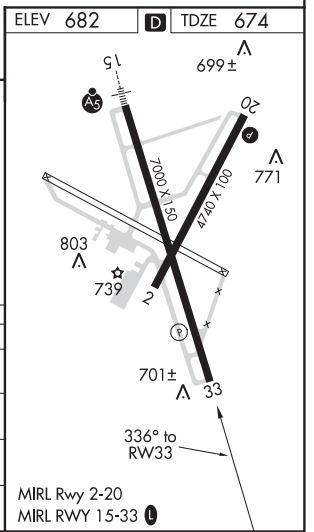
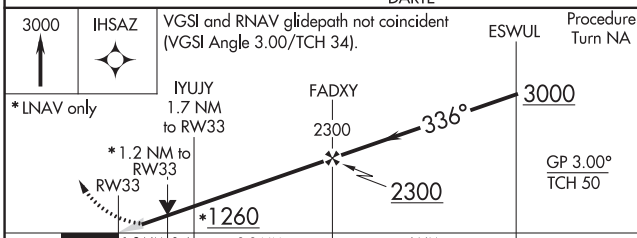
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 47°C (116°F). DME/DME RNP-0.3 NA. Baro-VNAV and VDP NA when using Killeen altimeter setting. When local altimeter setting not received, use Killeen altimeter setting and increase all DA 58 feet and all MDA 60 feet, increase LPV and LNAV/VNAV all Cats and LNAV Cat C and D visibility 1/4 mile.

MISSED APPROACH: Climb to 3000 direct ILSAZ and hold.

AWOS-3PT 134.975	GRAY APP CON 120.075 370.0	CLNC DEL 125.9	UNICOM 123.0 (CTAF) U
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ELEV 682	TDZE 674
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CATEGORY	A	B	C	D
LPV DA		874-3/4	200 (200-3/4)	
LNAV/VNAV DA		951-1	277 (300-1)	
LNAV MDA	1060-1	386 (400-1)		1060-1 1/4 386 (400-1 1/4)
CIRCLING	1120-1 438 (500-1)	1180-1 498 (500-1)	1180-1 1/2 498 (500-1 1/2)	1240-2 558 (600-2)

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

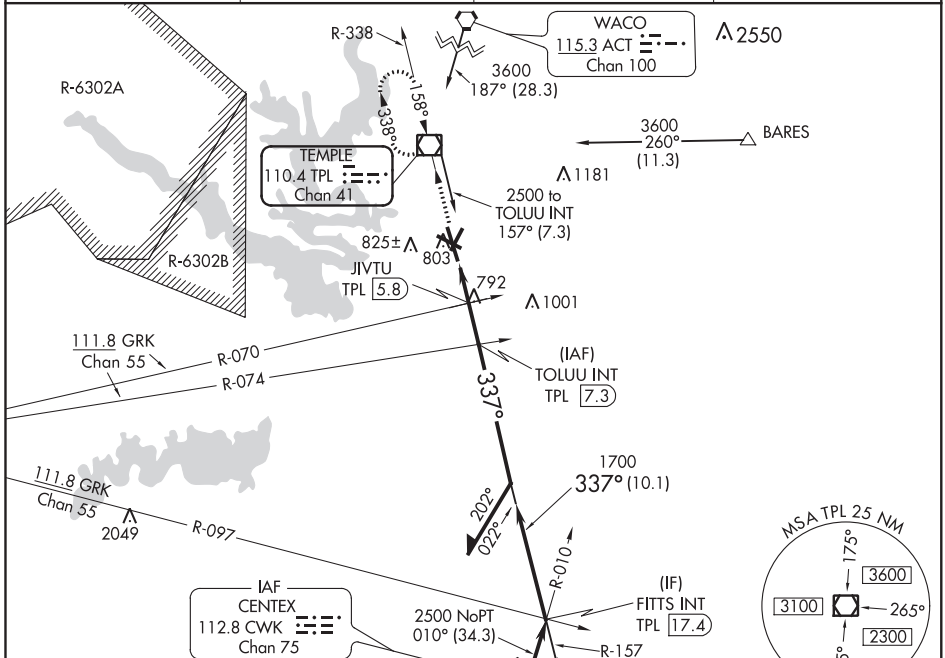
VOR/DME TPL 110.4 Chan 41	APP CRS 337°	Rwy Idg TDZE Apt Elev	6301 674 682
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VOR RWY 33

DRAUGHON-MILLER CENTRAL TEXAS RGNL (T'PL)

⚠ When local altimeter setting not received, use Killeen altimeter setting and increase all MDA 60 feet, increase JIVTU fix minimums S-33 Cats C and D visibility ¼ mile. MISSED APPROACH: Climb to 2200 direct TPL VOR/DME and hold.

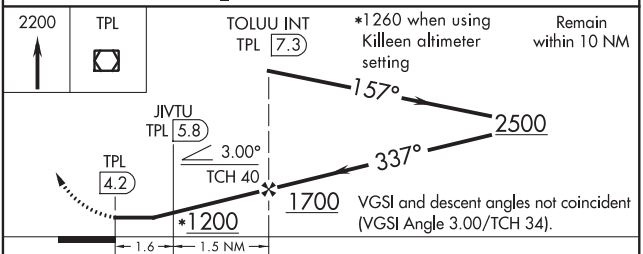
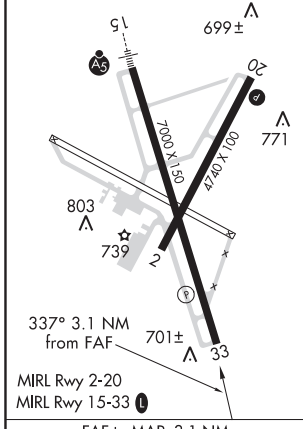
AWOS-3PT 134.975	GRAY APP CON 120,075 370.0	CLNC DEL 125.9	UNICOM 123.0 (CTAF) ⓪
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SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

ELEV 682	D	TDZE 674
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CATEGORY	A	B	C	D
S-33	1200-1	526 (600-1)	1200-1½ 526 (600-1½)	1200-1¾ 526 (600-1¾)
CIRCLING	1200-1	518 (600-1)	518 (600-1½)	1240-2 558 (600-2)
JIVTU FIX MINIMUMS (DUAL VOR RECEIVERS OR DME REQUIRED)				
S-33	1060-1 386 (400-1)			1060-1¼ 386 (400-1¼)
CIRCLING	1120-1 438 (500-1)	1180-1 498 (500-1)	1180-1½ 498 (500-1½)	1240-2 558 (600-2)

TEMPLE, TEXAS
Amdt 4 23SEP10

DRAUGHON-MILLER CENTRAL TEXAS RGNL (T'PL)
31°09'N-97°24'W
VOR RWY 33

APP CRS 328°	Rwy Idg 5256 TDZE 933 Apt Elev 942
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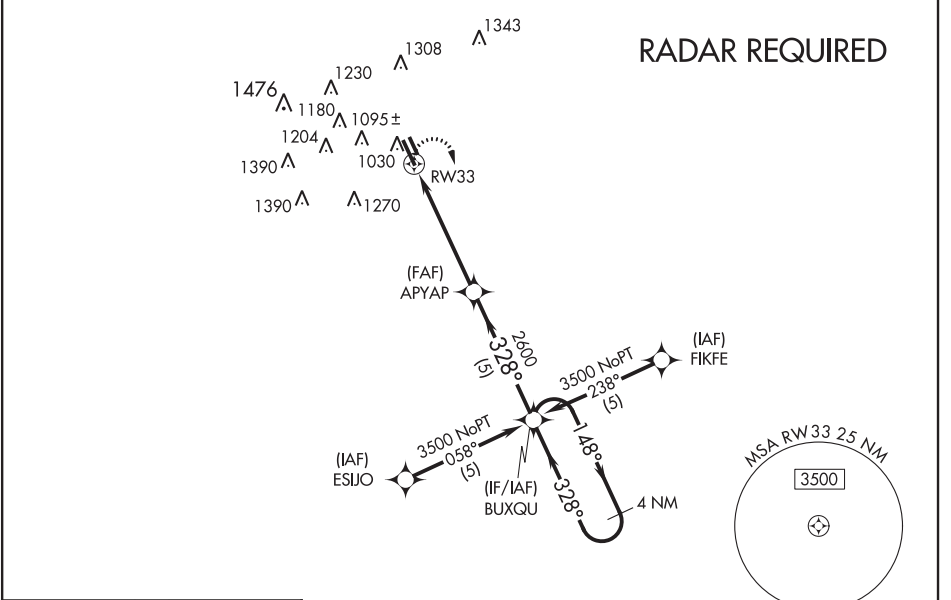
RNAV (GPS) RWY 33

GARNER FIELD (UVA)

⚠ When local altimeter setting not received, use South Texas Rgnl at Hondo altimeter setting and increase all MDA 100 feet and increase LNAV Cat C and D and Circling Cat C visibility ¼ mile. DME/DME RNP-0.3 NA.

MISSED APPROACH:
Climbing right turn to 3500 direct BUXQU WP and hold.

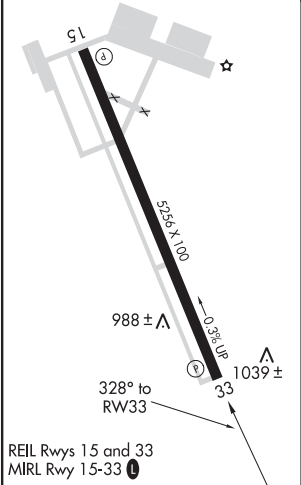
AWOS-3 124.175	HOUSTON CENTER 134.95 269.4	UNICOM 122.8 (CTAF) 0
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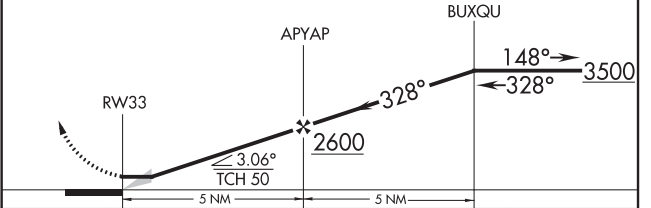
SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

ELEV 942	TDZE 933
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3500 BUXQU VGSi and descent angle not coincident (VGSi Angle 3.00/TCH 35). **4 NM Holding Pattern**



CATEGORY	A	B	C	D
GLS DA	NA			
LNAV/VNAV DA	NA			
LNAV MDA	1380-1 447 (500-1)	1380-1¼ 447 (500-1¼)	1380-1½ 447 (500-1½)	1380-1½ 447 (500-1½)
CIRCLING	1380-1 438 (500-1)	1460-1 518 (600-1)	1460-1½ 518 (600-1½)	1500-2 558 (600-2)

UVALDE, TEXAS
Orig-A 17NOV11

29°13'N-99°45'W

RNAV (GPS) RWY 33

NDB UVA 281	APP CRS 328°	Rwy Idg TDZE Apt Elev	5256 933 942
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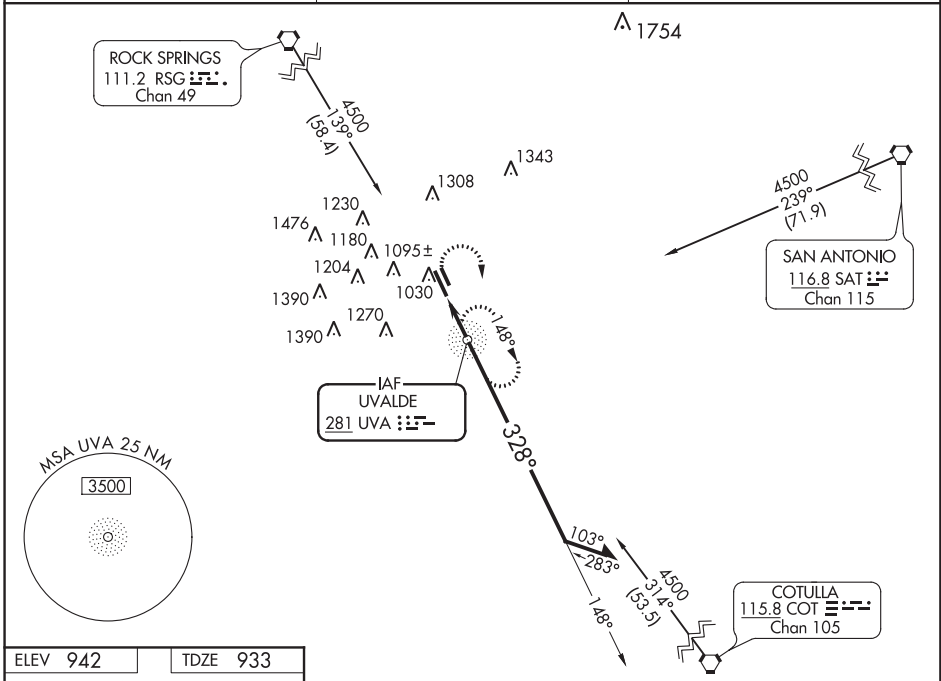
NDB RWY 33

GARNER FIELD (UVA)

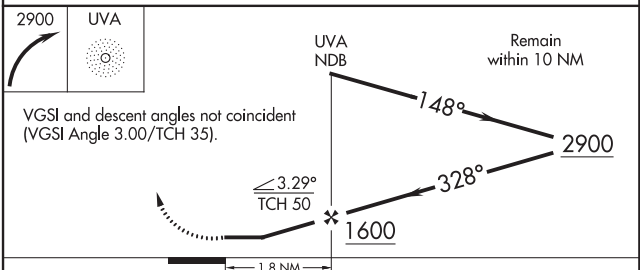
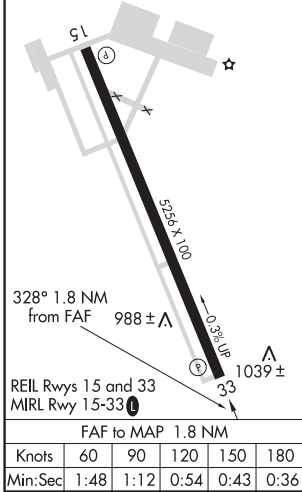
NA Obtain local altimeter setting on CTAF; when not received, use South Texas Rgnl at Hondo altimeter setting.

MISSED APPROACH: Climbing right turn to 2900 direct UVA NDB and hold.

AWOS-3 124.175	HOUSTON CENTER 134.95 269.4	UNICOM 122.8 (CTAF) 0
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ELEV 942	TDZE 933
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CATEGORY	A	B	C	D
S-33	1340-1	407 (400-1)	1340-1/4	407 (400-1/4)
CIRCLING	1340-1 398 (400-1)	1460-1 518 (600-1)	1460-1 1/2 518 (600-1 1/2)	1500-2 558 (600-2)
SOUTH TEXAS REGIONAL AT HONDO ALTIMETER SETTING MINIMUMS				
S-33	1440-1	507 (500-1)	1440-1 1/2	507 (500-1 1/2)
CIRCLING	1440-1 498 (500-1)	1560-1 618 (700-1)	1560-1 3/4 618 (700-1 3/4)	1600-2 658 (700-2)

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

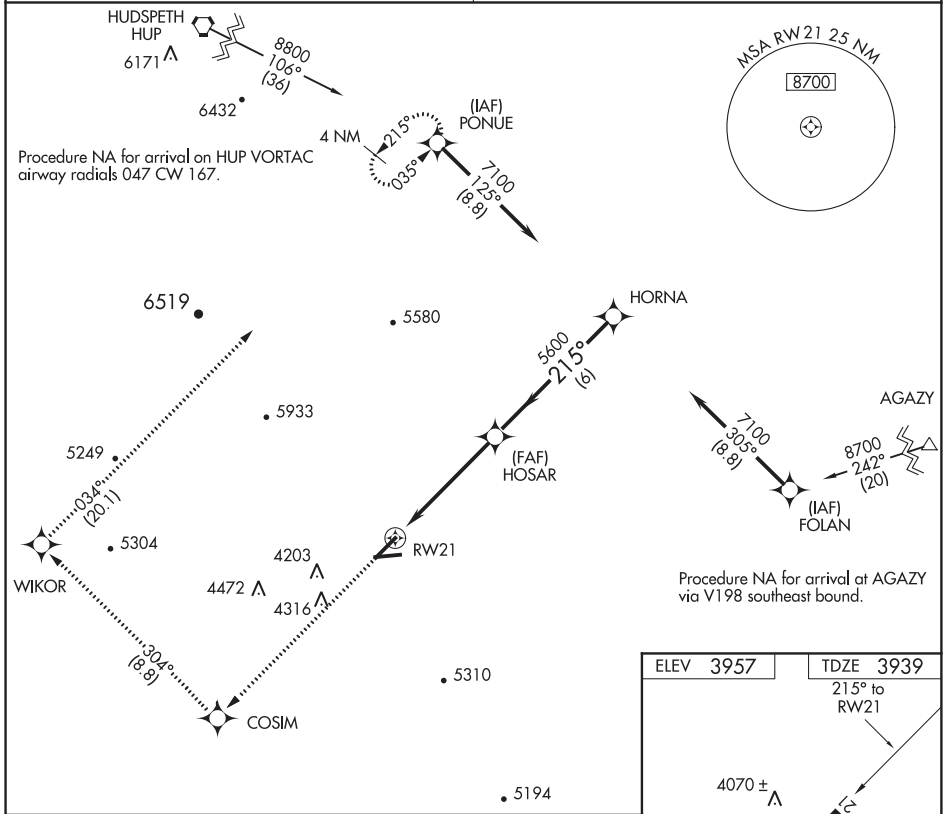
RNAV (GPS) RWY 21

CULBERSON COUNTY (VHN)

APP CRS 215°	Rwy Idg TDZE Apt Elev	6005 3939 3957
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▼ Obtain local altimeter setting on CTAF; when not received, procedure NA. DME/DME RNP-0.3 NA.
 ▲ NA Night landing: Rwy 7, 25 NA.

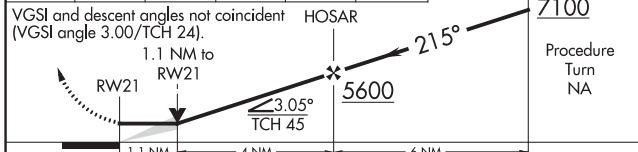
ALBUQUERQUE CENTER 135.875 292.15	CTAF 122.9
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SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

8800	COSIM	WIKOR	PONUE	HORNA
↑	✧	✧	✧	✧
	TRK 304°	TRK 034°		



ELEV 3957	TDZE 3939
215° to RWY 21	

MIRL Rwy's 3-21 and 7-25

CATEGORY	A	B	C	D
LNVA MDA	4300-1 361 (400-1)		4300-1¼ 361 (400-1¼)	
CIRCLING	4440-1 483 (500-1)	4460-1 503 (600-1)	4480-1½ 523 (600-1½)	4840-3 883 (900-3)

VAN HORN, TEXAS

AL-6227 (FAA)

16035

NDB VHN 233	APP CRS 223°	Rwy Idg TDZE Apt Elev	6005 3939 3957
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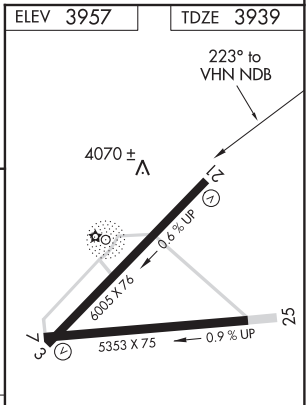
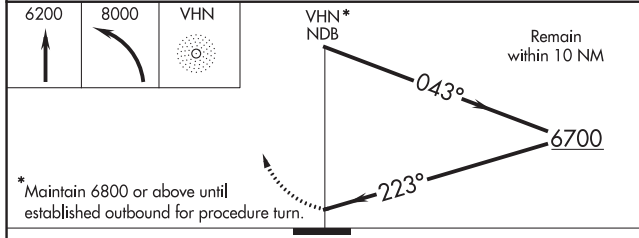
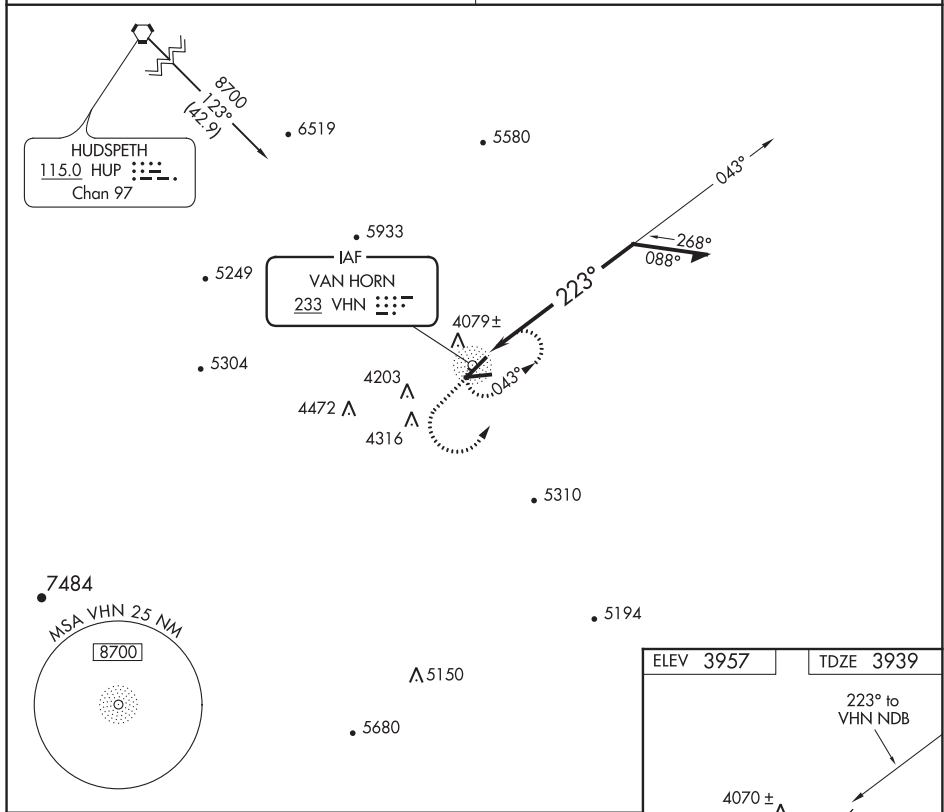
NDB RWY 21

CULBERSON COUNTY (VHN)

▽ Obtain local altimeter setting on CTAF; when not received, **MISSED APPROACH:** Climb to 6200 then climbing left turn to 8000 direct VHN NDB and hold.
▲ NA procedure not authorized. Night landing: Rwy 7, 25 NA.

ALBUQUERQUE CENTER
135.875 292.15

CTAF
122.9



CATEGORY	A	B	C	D
S-21	4780-1 841 (900-1)	4780-1¼ 841 (900-1¼)	4780-2½ 841 (900-2½)	4780-2¾ 841 (900-2¾)
CIRCLING	4780-1 823 (900-1)	4780-1¼ 823 (900-1¼)	4780-2½ 823 (900-2½)	4840-3 883 (900-3)

MIRL Rwy 3-21 and 7-25

VAN HORN, TEXAS
Amdt 2C 23JUL15

31°03'N-104°47'W

CULBERSON COUNTY (VHN)
NDB RWY 21

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

WAAS CH 63230 W17A	APP CRS 173°	Rwy Idg TDZE Apt Elev	5501 592 592
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RNAV (GPS) RWY 17

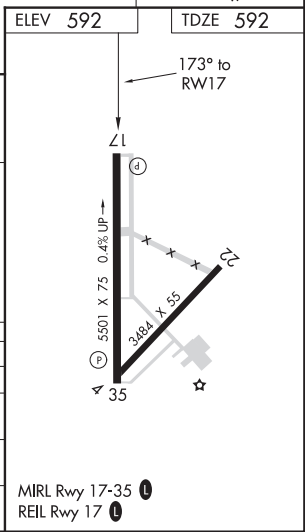
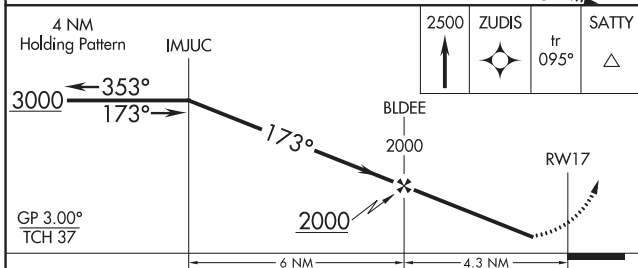
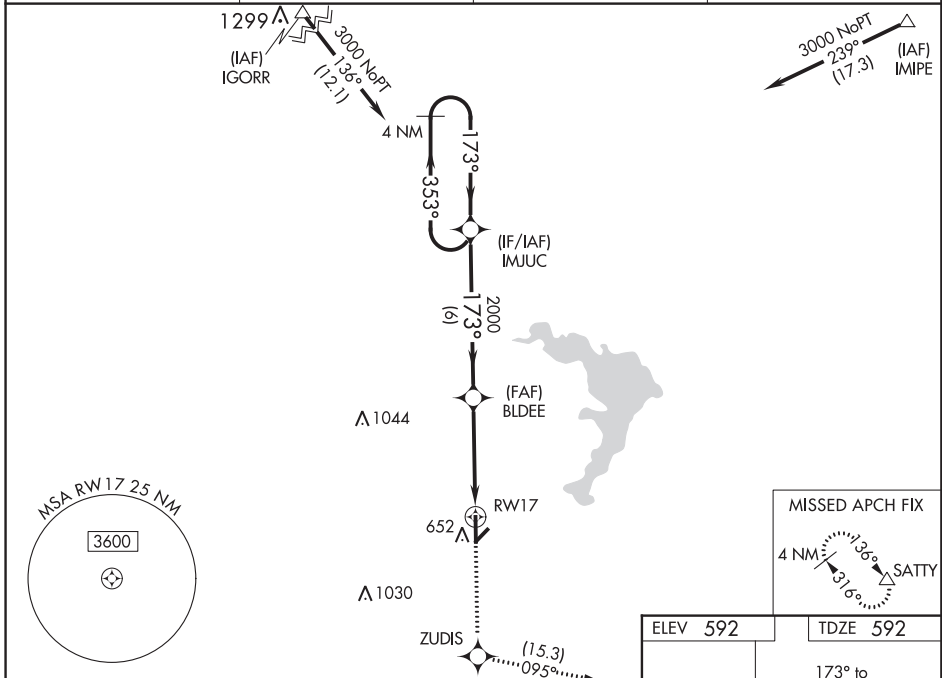
MC GREGOR EXECUTIVE (PWG)

⚠ Circling to Rwy 4 NA at night. Baro-VNAV NA when using Waco Rgnl altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -20°C (-4°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. Helicopter visibility reduction below 3/4 SM NA. When local altimeter setting not received, use Waco Rgnl altimeter setting and increase all DA 31 feet and MDA 40 feet, and increase LPV all Cats visibility and LNAV/VNAV all Cats visibility 1/8 mile.

ASR

MISSED APPROACH: Climb to 2500 direct ZUDIS and on track 095° to SATTY and hold.

AWOS-3PT 135.525	WACO APP CON ★ 127.65 352.0	GCO 121.725	UNICOM 122.8 (CTAF) 0
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CATEGORY	A	B	C	D
LPV DA	842-3/4	250 (300-3/4)		NA
LNAV/VNAV DA	842-3/4	250 (300-3/4)		NA
LNAV MDA	1040-1	448 (500-1)	1040-1 3/8 448 (500-1 3/8)	NA
CIRCLING	1040-1 448 (500-1)	1060-1 468 (500-1)	1060-1 1/2 468 (500-1 1/2)	NA

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

WACO, TEXAS

AL-5441 (FAA)

15288

WAAS CH 87130 W35A	APP CRS 353°	Rwy Idg TDZE Apt Elev	5501 580 592
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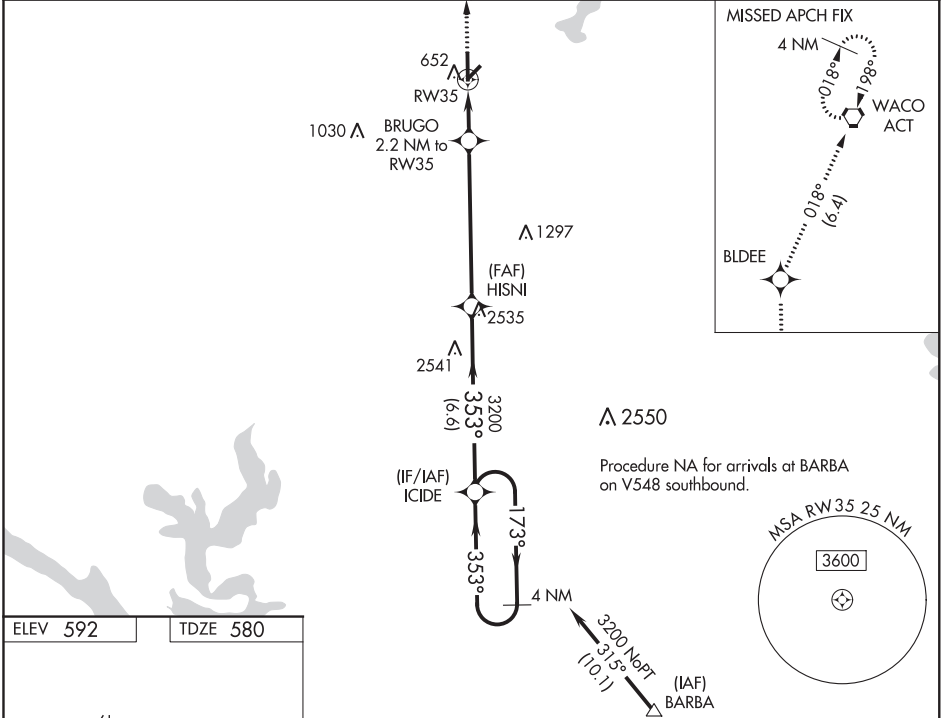
RNAV (GPS) RWY 35

MC GREGOR EXECUTIVE (PWG)

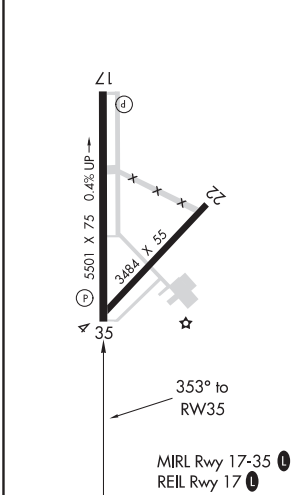
ASR Circling to Rwy 4 NA at night. Baro-VNAV NA when using Waco Rgnl altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 54°C (130°F). When local altimeter setting not received, use Waco Rgnl altimeter setting increase all DA 31 ft and MDA 40 ft. DME/DME RNP-0.3 NA. Helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH:
Climb to 2500 direct BLDEE and on track 018° to ACT VORTAC and hold.

AWOS-3PT 135,525	WACO APP CON * 127.65 352.0	GCO 121.725	UNICOM 122.8 (CTAF) 0
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ELEV 592	TDZE 580
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2500	BLDEE	ACT	HISNI	ICIDE	4 NM Holding Pattern
↑	018°	3200	3200		
* LNAV only		BRUGO 2.2 NM to RW35	3200	353°	173° → 3200
		*1300	3200	← 353°	GP 3.00° TCH 46
		← 2.2 NM	← 5.9 NM	← 6.6 NM	

CATEGORY	A	B	C	D
LPV DA	830-¾	250 (300-¾)		NA
LNAV/VNAV DA	830-¾	250 (300-¾)		NA
LNAV MDA	960-1	380 (400-1)	960-1½ 380 (400-1½)	NA
CIRCLING	1020-1 428 (500-1)	1060-1 468 (500-1)	1060-1½ 468 (500-1½)	NA

WACO, TEXAS
Amdt 1B 02APR15

31°29'N-97°19'W

MC GREGOR EXECUTIVE (PWG)

RNAV (GPS) RWY 35

SC-3, 10 NOV 2016 to 05 JAN 2017

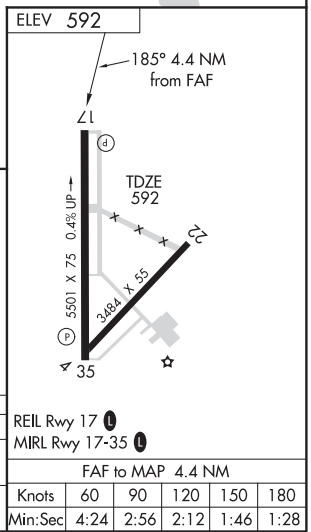
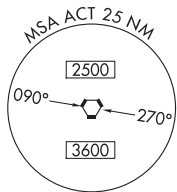
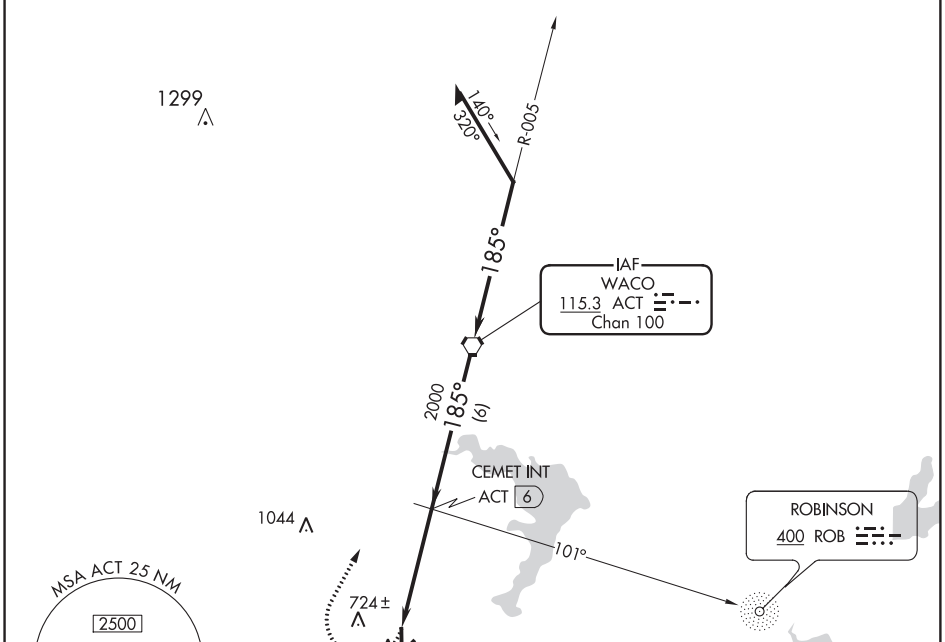
SC-3, 10 NOV 2016 to 05 JAN 2017

VORTAC ACT	APP CRS	Rwy Idg	5501
115.3	185°	TDZE	592
Chan 100		Apt Elev	592

VOR RWY 17

MC GREGOR EXECUTIVE (PWG)

<p>ASR</p> <p>DME or ADF required.</p>		<p>MISSED APPROACH: Climbing right turn to 2000 direct ACT VORTAC.</p>	
<p>AWOS-3PT</p> <p>135.525</p>	<p>WACO APP CON *</p> <p>127.65 352.0</p>	<p>GCO</p> <p>121.725</p>	<p>UNICOM</p> <p>122.8 (CTAF) 0</p>



<p>2000 ACT</p> <p>CEMET INT ACT 6</p> <p>ACT VORTAC</p> <p>Remain within 10 NM</p>		<p>185°</p> <p>2000</p> <p>2000</p> <p>2.92° TCH 45</p> <p>4.4 NM</p> <p>6 NM</p>		
CATEGORY	A	B	C	D
S-17	980-1 388 (400-1)			NA
CIRCLING	1040-1 448 (500-1)	1060-1 468 (500-1)	1060-1½ 468 (500-1½)	NA

REIL Rwy 17 0				
MIRL Rwy 17-35 0				
FAF to MAP 4.4 NM				
Knots	60	90	120	150
Min:Sec	4:24	2:56	2:12	1:46
			1:28	

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

LOC I-CNW 110.7	APP CRS 174°	Rwy Idg TDZE Apt Elev	8600 470 470
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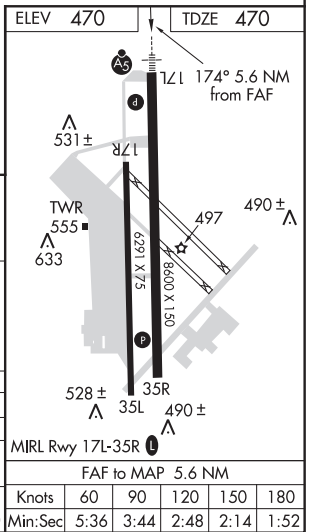
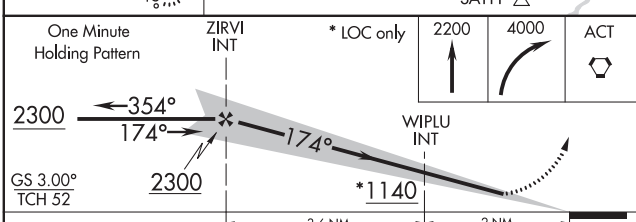
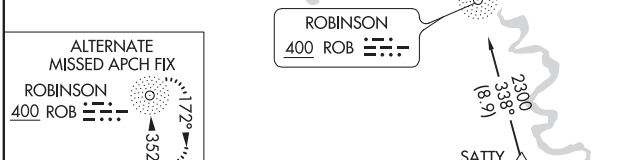
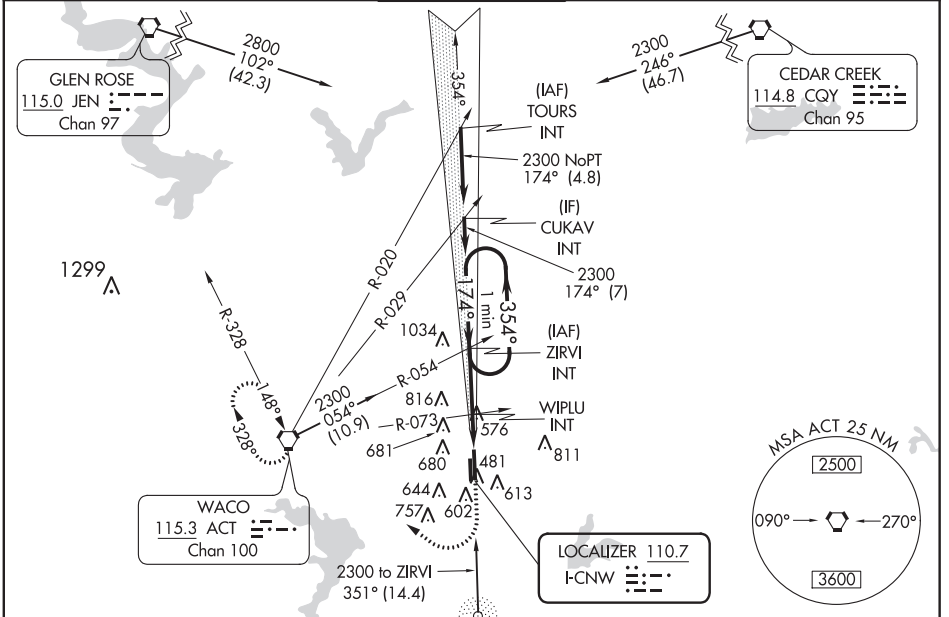
ILS or LOC RWY 17L

WACO/TSTC WACO (CNW)

NA For inop MALS, increase S-ILS 17L Cat E visibility to 3/4 mile, and S-LOC-17L Cat E to 1 1/8 mile. When local altimeter setting not received, use Waco Rgnl altimeter setting and increase all DA 26 feet and all MDA 40 feet. Increase S-LOC 17L Cats C/D/E and Circling Cats C/E visibility 1/4 mile.

MALS MISSED APPROACH: Climb to 2200 then climbing right turn to 4000 direct ACT VORTAC and hold. (TACAN aircraft continue on ACT VORTAC R-305 to IGORR/ACT 14 DME and hold SE, RT, 305° inbound)

AWOS-3 134.225	WACO APP CON * 127.65 227.125	TSTC TOWER * 124.0(CTAF) 255.7	GND CON 121.70	UNICOM 122.95
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CATEGORY	A	B	C	D	E
S-ILS 17L		670-1/2 200 (200-1/2)			
S-LOC 17L	860-1/2 390 (400-1/2)		860-5/8 390 (400-5/8)		
CIRCLING	940-1 470 (500-1)	960-1 490 (500-1)	1040-1 1/2 570 (600-1 1/2)	1040-2 570 (600-2)	1180-2 1/2 710 (800-2 1/2)

SC-3, 10 NOV 2016 to 05 JAN 2017


SC-3, 10 NOV 2016 to 05 JAN 2017

WAAS CH 73020 W17A	APP CRS 174°	Rwy Idg TDZE Apt Elev	8600 470 470
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RNAV (GPS) RWY 17L

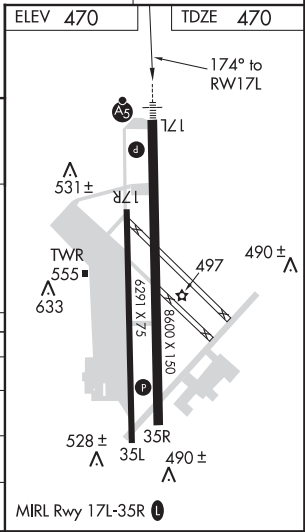
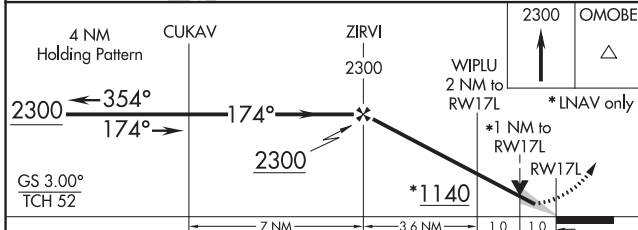
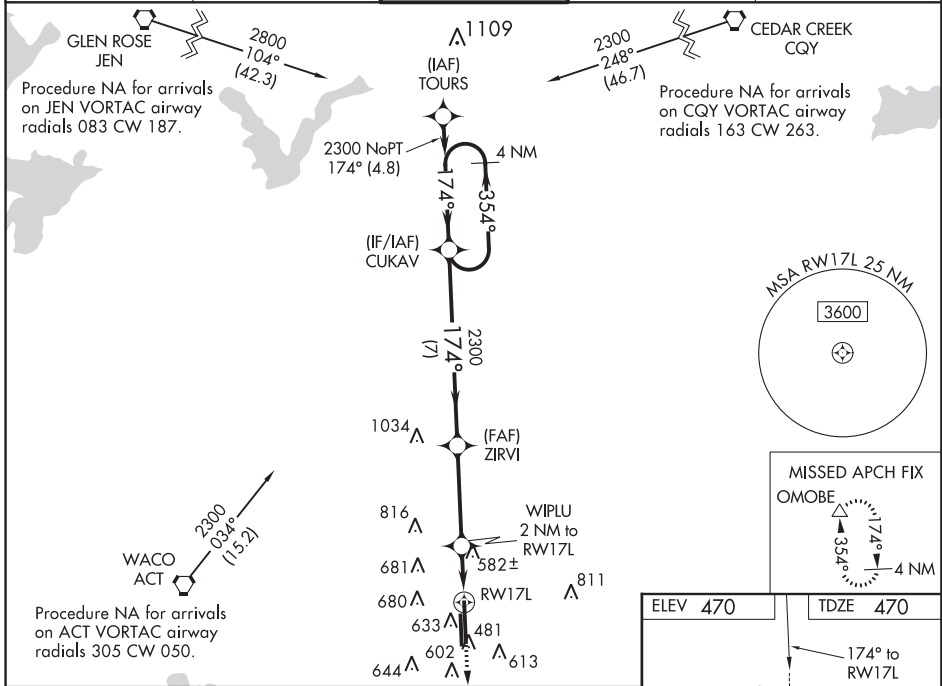
WACO/TSTC WACO (CNW)

ASR Baro-VNAV NA when using Waco Rgnl altimeter setting. DME/DME RNP-0.3 NA. VDP NA with Waco Regl altimeter setting. When local altimeter setting not received, use Waco Rgnl altimeter setting and increase all DA 26 feet and all MDA 40 feet, increase LNAV/VNAV all Cats and LNAV Cats C/D visibility 1/8 mile and Circling Cat C visibility 1/4 mile. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 54°C (130°F).

MALS 

MISSED APPROACH:
Climb to 2300 direct OMOBE and hold.

AWOS-3 134.225	WACO APP CON ★ 127.65 227.125	TSTC TOWER ★ 124.0 (CTAF) 255.7	GND CON 121.7 0	UNICOM 122.95
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CATEGORY	A	B	C	D
LPV DA		670-1/2	200 (200-1/2)	
LNAV/VNAV DA		818-5/8	348 (400-5/8)	
LNAV MDA	840-1/2	370 (400-1/2)	840-5/8	370 (400-5/8)
CIRCLING	940-1 470 (500-1)	960-1 490 (500-1)	1040-1 1/2 570 (600-1 1/2)	1040-2 570 (600-2)

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

WACO, TEXAS

AL-579 (FAA)

15092

WAAS CH 82731 W35A	APP CRS 354°	Rwy Idg 8600 TDZE 462 Apt Elev 470
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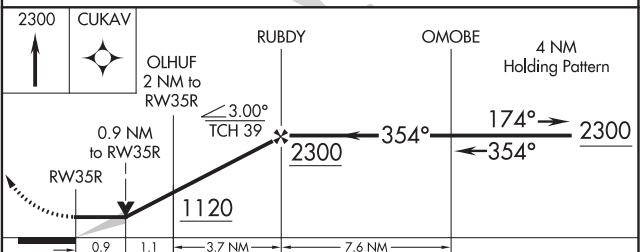
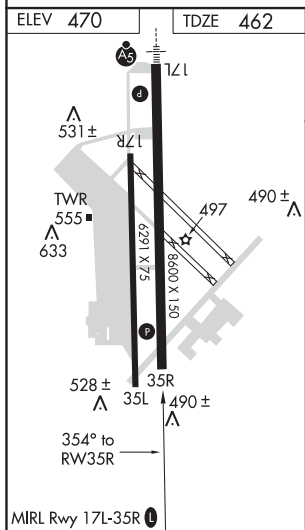
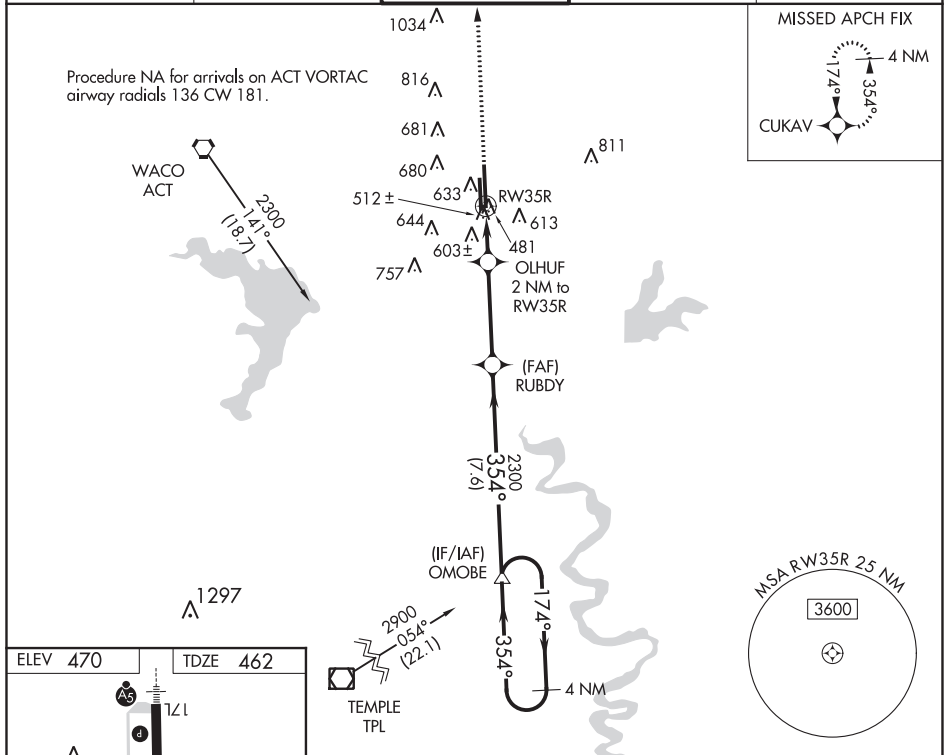
RNAV (GPS) RWY 35R

TSTC WACO (CNW)

ASR **▲** DME/DME RNP-0.3 NA. VDP NA with Waco Rgnl altimeter setting. When local altimeter setting not received, use Waco Rgnl altimeter setting and increase all MDA 40 feet, increase LNAV Cat C and D and Circling Cat C visibility ¼ mile.

MISSED APPROACH: Climb to 2300 direct CUKAV and hold.

AWOS-3 134.225	WACO APP CON ★ 127.65 227.125	TSTC TOWER ★ 124.0(CTAF) 255.7	GND CON 121.70	UNICOM 122.95
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CATEGORY	A	B	C	D
LP MDA	780-1 318 (400-1)			
LNAV MDA	860-1	398 (400-1)	860-1½	398 (400-1½)
CIRCLING	940-1 470 (500-1)	960-1 490 (500-1)	1040-1½ 570 (600-1½)	1040-2 570 (600-2)

WACO, TEXAS
Amdt 1B 02APR15

31°38'N-97°04'W

TSTC WACO (CNW) RNAV (GPS) RWY 35R

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

NDB ROB 400	APP CRS 355°	Rwy Idg TDZE Apt Elev	8600 462 470
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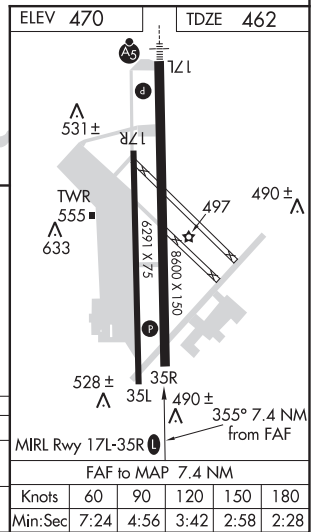
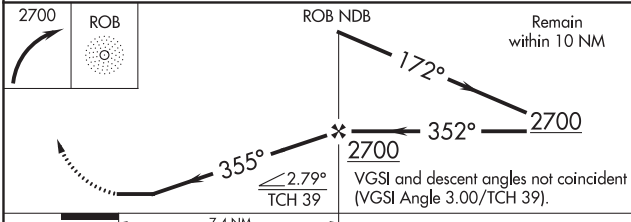
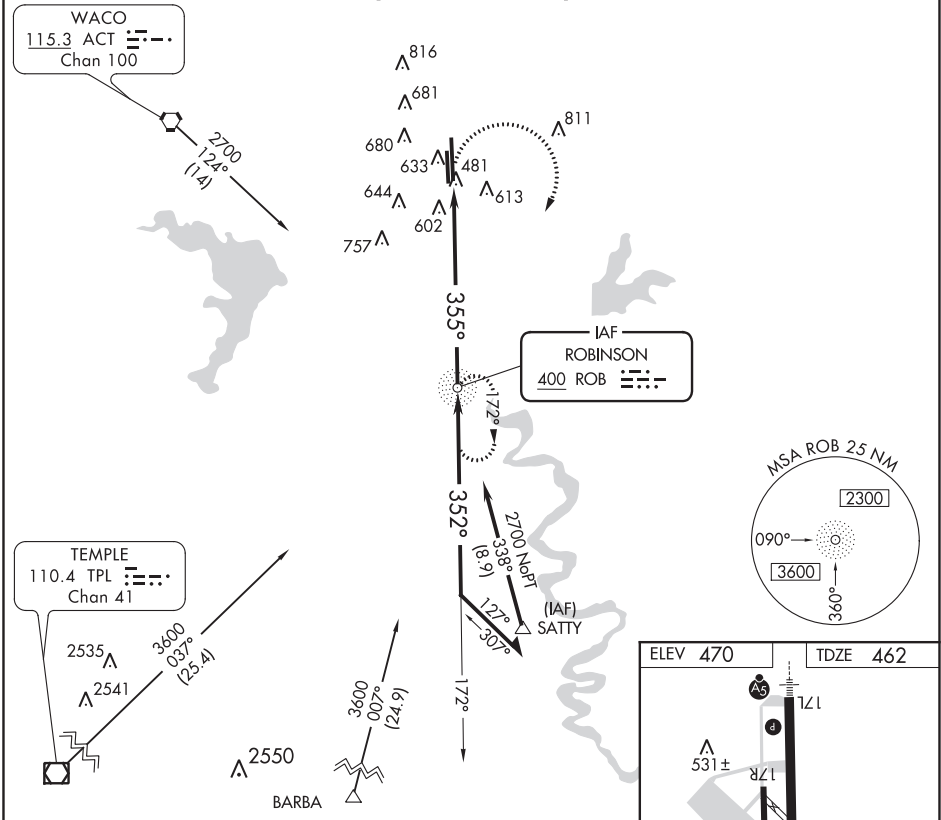
NDB RWY 35R

TSTC WACO (CNW)

ASR When local altimeter setting not received, use Waco Rgnl altimeter setting and increase all MDAs 40 feet, increase S-35R Cat C/D and Circling Cat C visibility 1/8 mile.

MISSED APPROACH: Climbing right turn to 2700 direct ROB NDB and hold.

AWOS-3 134.225	WACO APP CON * 127.65 227.125	TSTC TOWER * 124.0 (CTAF) 255.7	GND CON 121.7 0	UNICOM 122.95
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CATEGORY	A	B	C	D
S-35R	1220-1 758 (800-1)	1220-1¼ 758 (800-1¼)	1220-2½	758 (800-2½)
CIRCLING	1220-1 750 (800-1)	1220-1¼ 750 (800-1¼)	1220-2½	750 (800-2½)

SC-3, 10 NOV 2016 to 05 JAN 2017

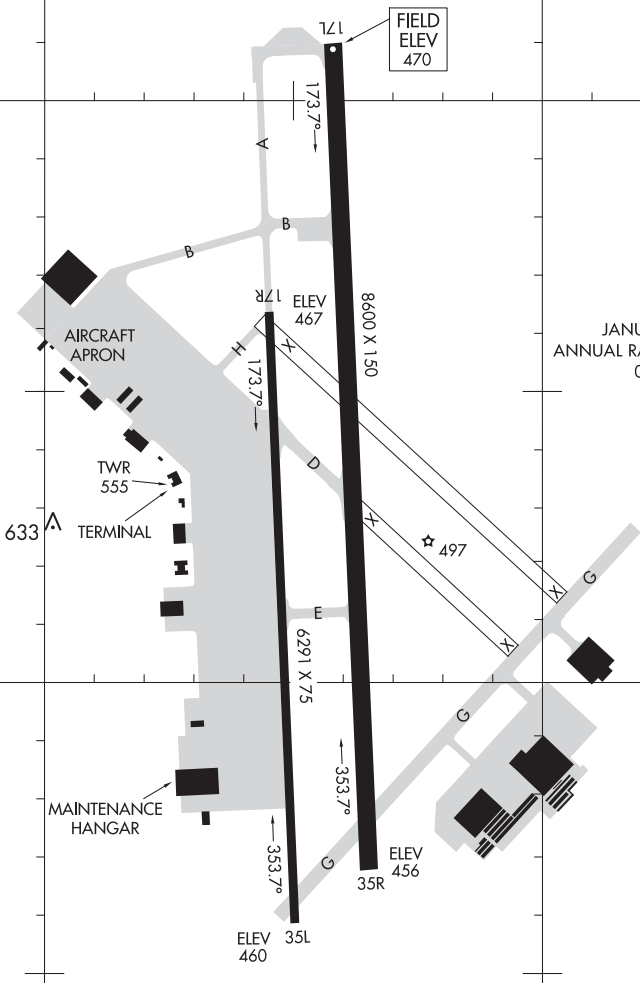
SC-3, 10 NOV 2016 to 05 JAN 2017

AIRPORT DIAGRAM

AL-579 (FAA)

TSTC WACO (CNW)
WACO, TEXAS

AWOS-3
134.225
TSTC TOWER ★
124.0 255.7
GND CON
121.7



31°39'N
31°38'N

VAR 3.8° E

JANUARY 2015
ANNUAL RATE OF CHANGE
0.1° W

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

97°05'W

97°04'W

RWY 17L-35R
S-50, D-200, 2S-175, 2D-450
RWY 17R-35L
S-25, D-76, 2S-96, 2D-140

AIRPORT DIAGRAM

WACO, TEXAS
TSTC WACO (CNW)

LOC/DME I-ACT 109.7 Chan 34	APP CRS 187°	Rwy Idg TDZE Apt Elev	6605 504 516
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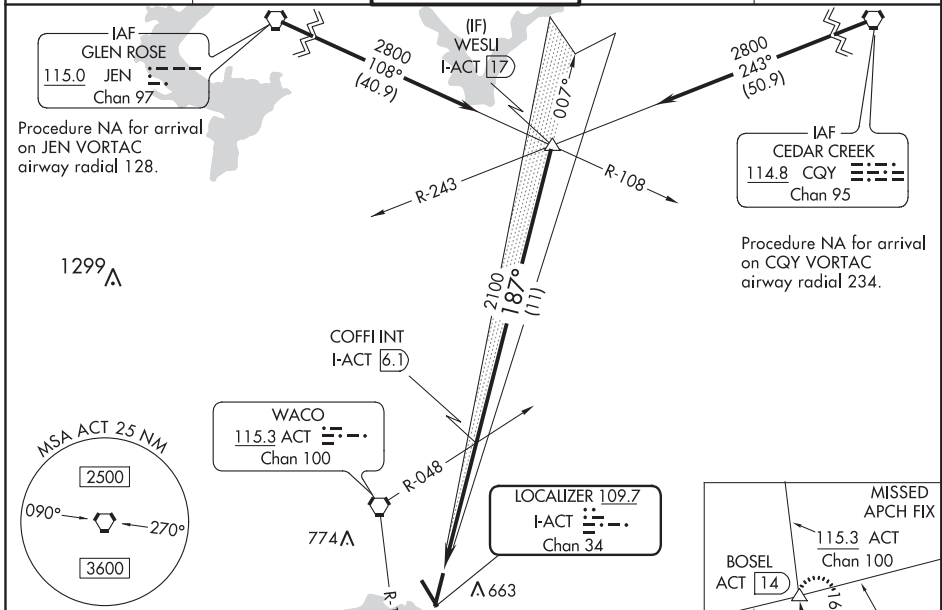
ILS or LOC RWY 19

WACO RGNL (ACT)

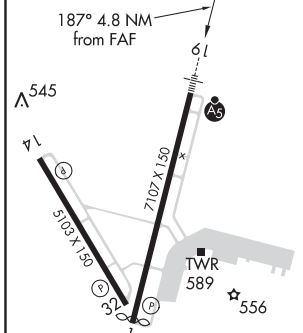
▲ When local altimeter setting not received use Mc Gregor Executive altimeter setting and increase all DA 31 feet and all MDA 40 feet; increase S-LOC 19 Cat C visibility to RVR 4000 and Cat D visibility to RVR 5000 and increase Circling Cat D visibility ¼ mile. VDP NA with Mc Gregor Executive altimeter setting. **RVR 1800 authorized with use of FD or AP or HUD to DA.

MALS R MISSED APPROACH: Climb to 1500 then climbing left turn to 4000 via ACT VORTAC R-164 to BOSEL INT/ACT VORTAC 14 DME and hold, continue climb-in-hold to 4000.

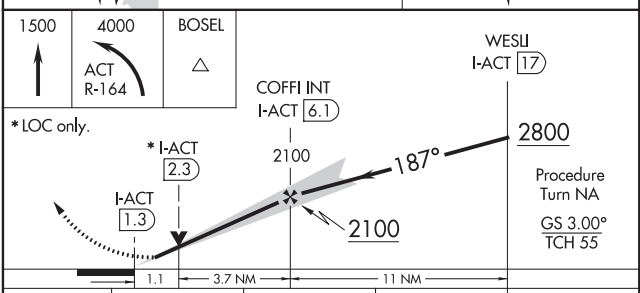
ATIS 123.85	WACO APP CON* 127.65 227.125	WACO TOWER* 119.3 (CTAF) 0 257.8	GND CON 121.9	UNICOM 122.95
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ELEV 516	D	TDZE 504
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Knots	60	90	120	150	180
Min:Sec	4:48	3:12	2:24	1:55	1:36



CATEGORY	A	B	C	D
S-ILS 19	**704/24 200 (200-½)			
S-LOC 19	900/24 396 (400-½)			
C CIRCLING	940-1 424 (500-1)	980-1 464 (500-1)	1020-1½ 504 (600-1½)	1160-2 644 (700-2)

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

WAAS CH 65919 W01A	APP CRS 007°	Rwy Idg TDZE Apt Elev	7005 511 516
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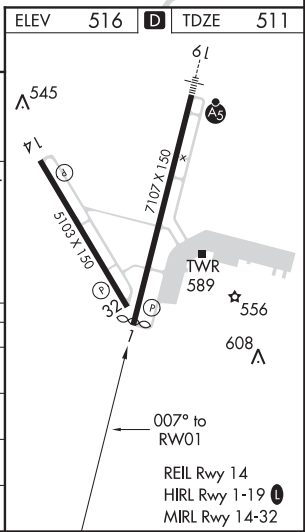
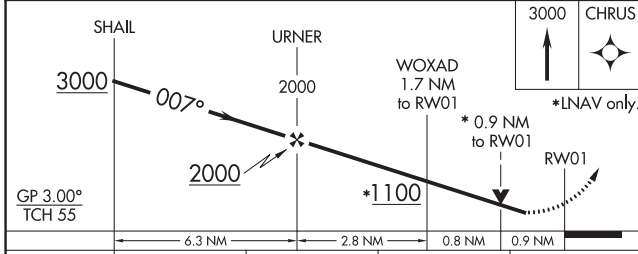
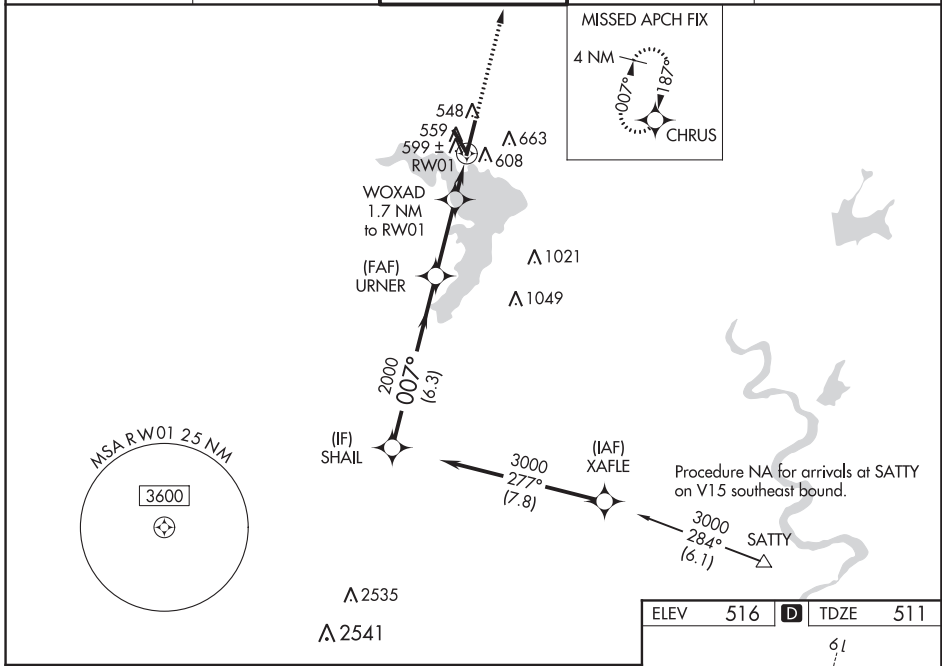
RNAV (GPS) RWY 1

WACO RGNL (ACT)

ASR For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -7°C (19°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. When local altimeter setting not received, use McGregor Executive altimeter setting and increase all DA 31 feet and all MDA 40 feet; increase LPV all Cats and LNAV/VNAV all Cats visibility 1/8 mile and Circling Cat D 1/4 mile. Baro-VNAV and VDP NA with McGregor Executive altimeter setting. Helicopter visibility reduction below 3/4 SM NA.

MISSED APPROACH: Climb to 3000 direct CHRUS and hold.

ATIS 123.85	WACO APP CON ★ 127.65 227.125	WACO TOWER ★ 119.3 (CTAF) 257.8	GND CON 121.9	UNICOM 122.95
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CATEGORY	A	B	C	D
LPV DA		761-3/4	250 (300-3/4)	
LNAV/VNAV DA		782-7/8	271 (300-7/8)	
LNAV MDA		860-1	349 (400-1)	
CIRCLING	940-1 424 (500-1)	980-1 464 (500-1)	1020-1 1/2 504 (600-1 1/2)	1160-2 644 (700-2)

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

WAAS CH 56520 W14A	APP CRS 142°	Rwy Idg TDZE Apt Elev	5103 513 516
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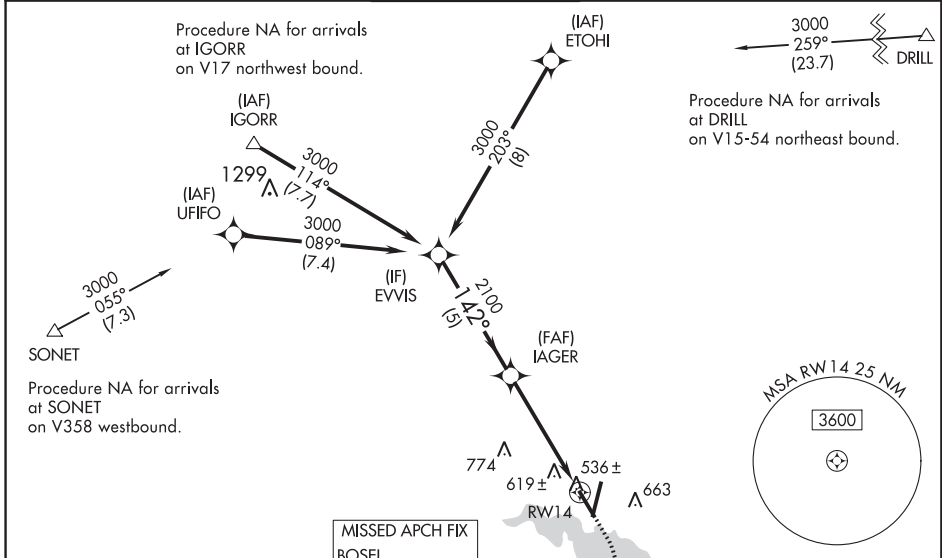
RNAV (GPS) RWY 14

WACO RGNL (ACT)

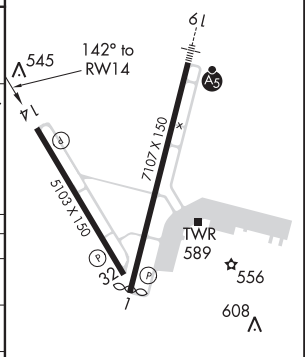
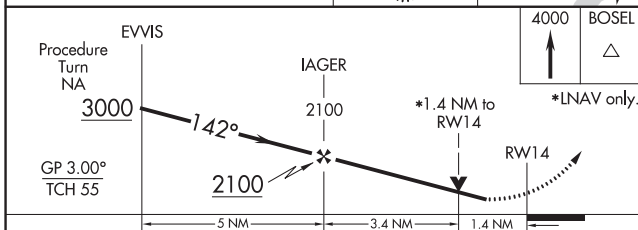
⚠ DME/DME RNP-0.3 NA. Helicopter visibility reduction below 3/4 SM NA. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 40°C (104°F). When local altimeter setting not received use Mc Gregor Executive altimeter setting and increase all DA 31 feet and all MDA 40 feet; increase LPV and LNAV/VNAV all Cats visibility 1/8 mile and LNAV Cat C/D and Circling Cat D visibility 1/4 mile. Baro-VNAV NA when using Mc Gregor Executive altimeter setting. VDP NA with Mc Gregor Executive altimeter setting.

⚠ MISSED APPROACH: Climb to 4000 direct BOSEL and hold.

ATIS 123.85	WACO APP CON * 127.65 227.125	WACO TOWER * 119.3 (CTAF) 257.8	GND CON 121.9	UNICOM 122.95
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ELEV 516	D	TDZE 513
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CATEGORY	A	B	C	D
LPV DA		763-3/4	250 (300-3/4)	
LNAV/VNAV DA		924-1 3/8	411 (500-1 3/8)	
LNAV MDA	1020-1	507 (600-1)	1020-1 3/8	507 (600-1 3/8)
C CIRCLING	1020-1	504 (600-1)	1020-1 1/2	1160-2
			504 (600-1 1/2)	644 (700-2)

REIL Rwy 14
HIRL Rwy 1-19
MIRL Rwy 14-32

WACO, TEXAS

AL-439 (FAA)

16203

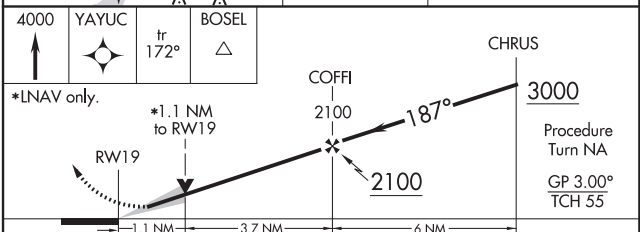
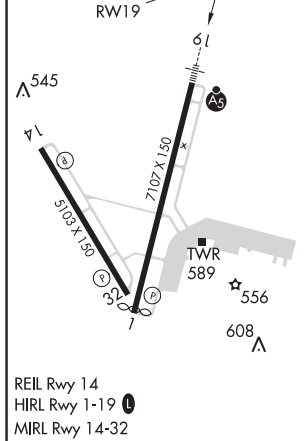
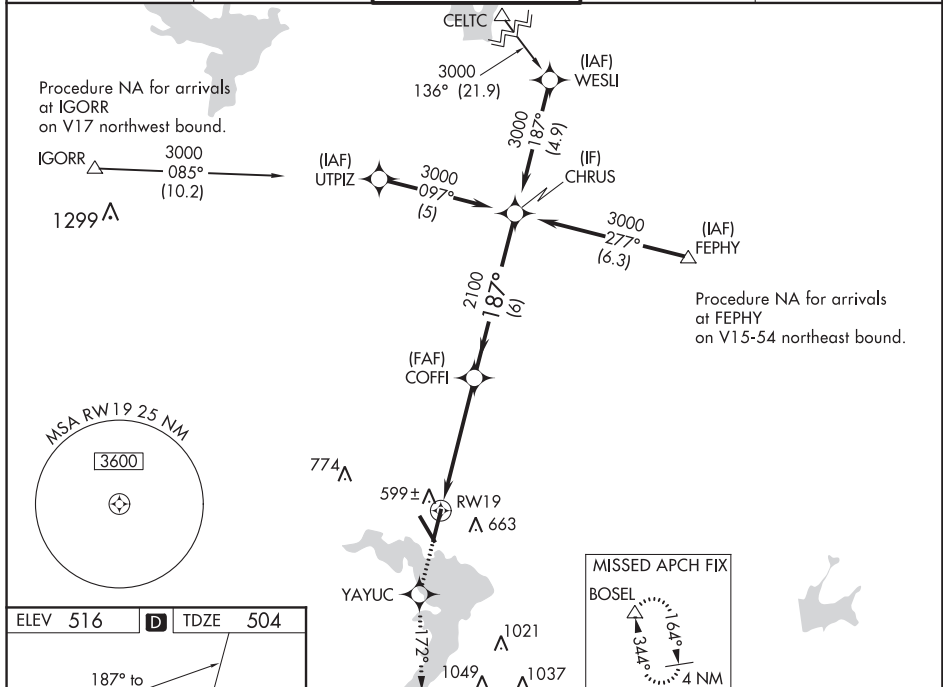
WAAS CH 82119 W19A	APP CRS 187°	Rwy Idg 6605 TDZE 504 Apt Elev 516
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RNAV (GPS) RWY 19

WACO RGNL (ACT)

 	DME/DME RNP-0.3 NA. When local altimeter setting not received use Mc Gregor Executive altimeter setting and increase all DA 31 feet and all MDA 40 feet; increase LNAV Cat C visibility to RVR 4000 and increase Circling Cat D visibility ¼ mile. For inop MALSR, increase LNAV Cat D visibility to RVR 6000. VDP and Baro-VNAV NA with Mc Gregor Executive altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 47°C (116°F).			MALSR 	MISSED APPROACH: Climb to 4000 direct YAYUC and on track 172° to BOSEL and hold, continue climb-in-hold to 4000.

ATIS 123.85	WACO APP CON * 127.65 227.125	WACO TOWER * 119.3 (CTAF) 257.8	GND CON 121.9	UNICOM 122.95
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CATEGORY	A	B	C	D
LPV DA		704/24	200 (200-½)	
LNAV/VNAV DA		869/40	365 (400-¾)	
LNAV MDA		900/24	396 (400-½)	900/50 396 (400-1)
C CIRCLING	940-1 424 (500-1)	980-1 464 (500-1)	1020-1½ 504 (600-1½)	1160-2 644 (700-2)

WACO, TEXAS
Orig-A 17OCT13

31°37'N-97°14'W

WACO RGNL (ACT) RNAV (GPS) RWY 19

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

WAAS CH 69420 W32A	APP CRS 322°	Rwy Idg TDZE Apt Elev	5103 516 516
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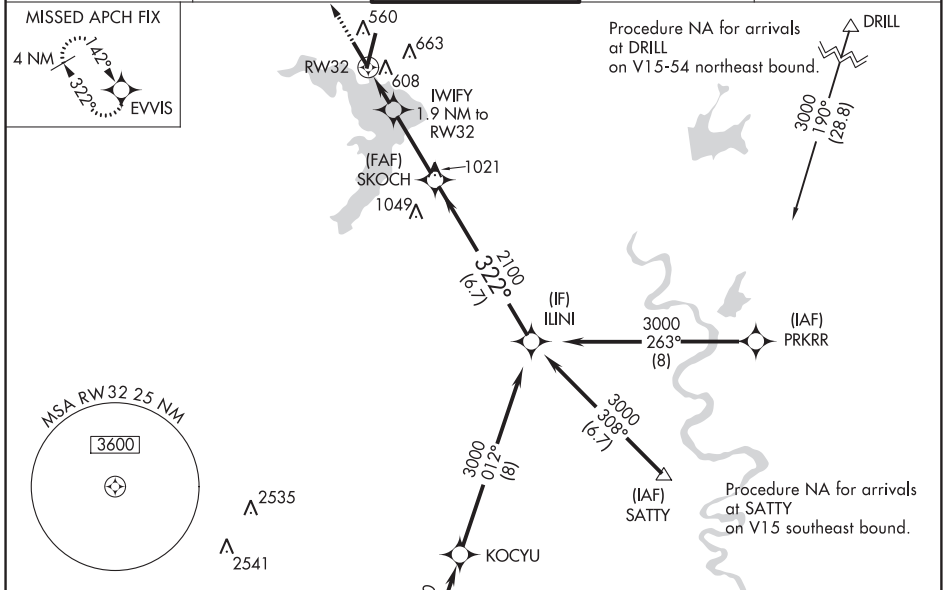
RNAV (GPS) RWY 32

WACO RGNL (ACT)

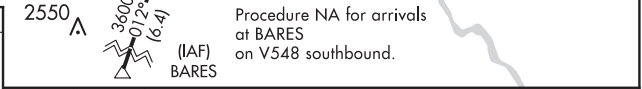
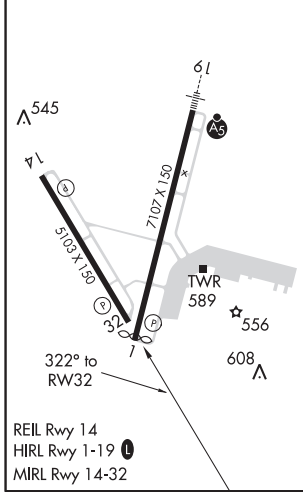
ASR DME/DME RNP-0.3 NA. When local altimeter setting not received use Mc Gregor Executive altimeter setting and increase all DA 31 feet and all MDA 40 feet; increase LPV and LNAV/VNAV all Cats and LNAV Cats C/D visibility 1/8 mile and Circling Cat D visibility 1/4 mile. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -13°C (9°F) or above 54°C (130°F). Baro-VNAV NA when using Mc Gregor Executive altimeter setting. VDP NA with Mc Gregor Executive altimeter setting.

MISSED APPROACH: Climb to 4000 direct EVVIS and hold, continue climb-in-hold to 4000.

ATIS 123.85	WACO APP CON * 127.65 227.125	WACO TOWER * 119.3(CTAF) 257.8	GND CON 121.9	UNICOM 122.95
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ELEV 516	D	TDZE 516
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CATEGORY	A	B	C	D
LPV DA		766-3/4	250 (300-3/4)	
LNAV/VNAV DA		773-3/4	257 (300-3/4)	
LNAV MDA		860-1	344 (400-1)	
CIRCLING	940-1	980-1	1020-1 1/2	1160-2
	424 (500-1)	464 (500-1)	504 (600-1 1/2)	644 (700-2)

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

WACO, TEXAS

AL-439 (FAA)

16203

VORTAC ACT 115.3 Chan 100	APP CRS 321°	Rwy Idg TDZE Apt Elev	5103 516 516
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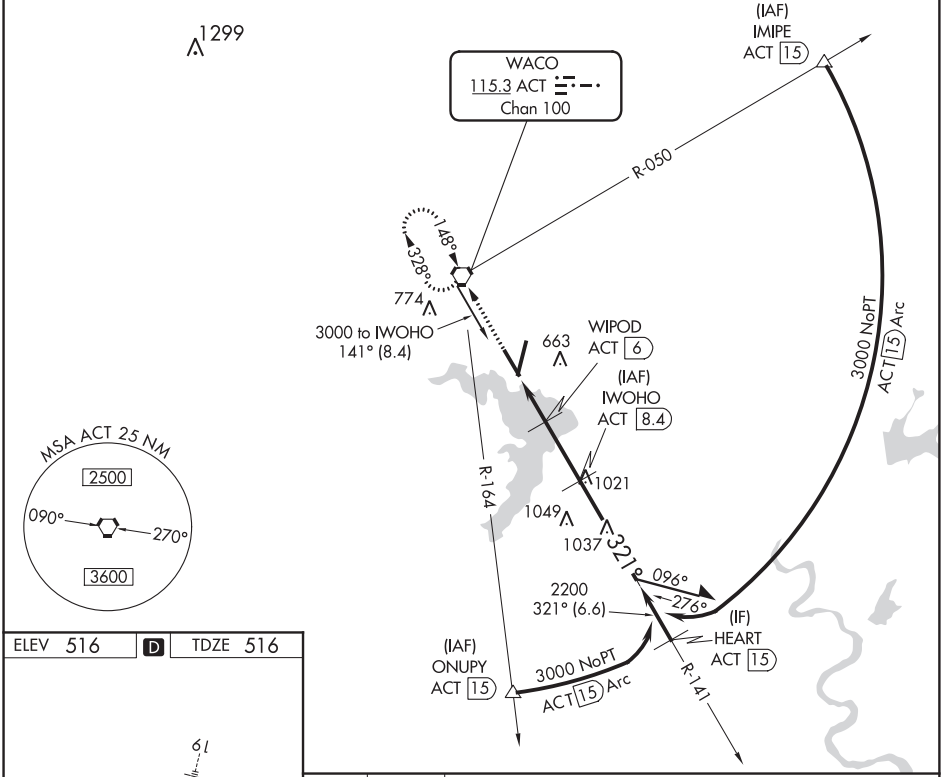
VOR/DME RWY 32

WACO RGNL (ACT)

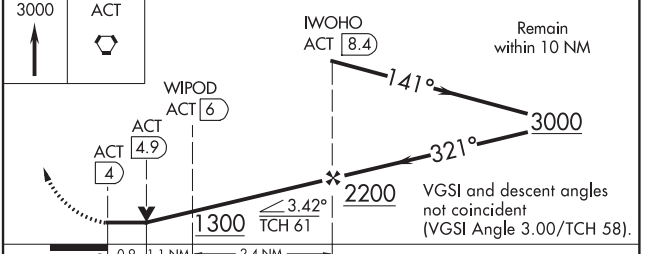
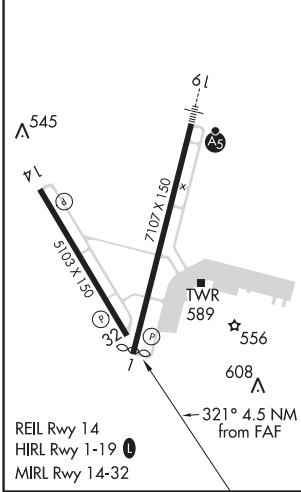
ASR VDP NA with Mc Gregor Executive altimeter setting. When local altimeter setting not received use Mc Gregor Executive altimeter setting and increase all MDA 40 feet; increase S-32 Cats C/D visibility 1/8 mile and Circling Cat D visibility 1/4 mile.

MISSED APPROACH: Climb to 3000 direct ACT VORTAC and hold, continue climb-in-hold to 3000.

ATIS 123.85	WACO APP CON * 127.65 227.125	WACO TOWER * 119.3 (CTAF) 0 257.8	GND CON 121.9	UNICOM 122.95
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ELEV 516	D	TDZE 516
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CATEGORY	A	B	C	D
S-32	860-1 344 (400-1)			
C CIRCLING	940-1 424 (500-1)	980-1 464 (500-1)	1020-1½ 504 (600-1½)	1160-2 644 (700-2)

WACO, TEXAS
Amdt 15B 02APR15

31°37'N-97°14'W

WACO RGNL (ACT)

VOR/DME RWY 32

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

APP CRS 134°	Rwy Idg 4826
	TDZE 70
	Apt Elev 70

GPS RWY 13

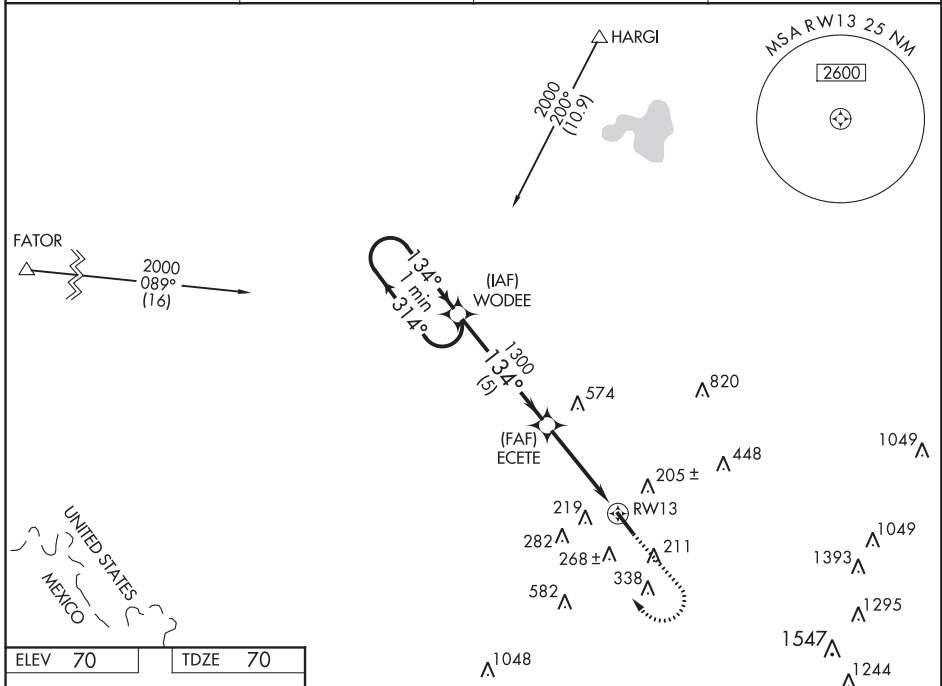
MID VALLEY (T65)

NA When local altimeter setting not received, use Mc Allen Miller altimeter setting. Procedure NA at night. Helicopter visibility reduction below 1 SM NA.

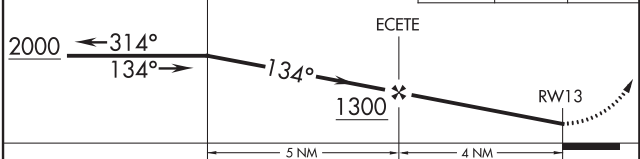
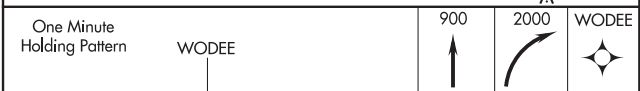
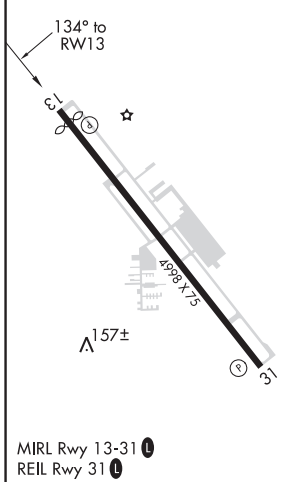
ODALS

MISSED APPROACH: Climb to 900, then climbing right turn to 2000 direct WODEE and hold.

AWOS-3 118.575	VALLEY APP CON 121.0 284.7	CLNC DEL 125.95	UNICOM 122.8 (CTAF)
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ELEV 70	TDZE 70
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CATEGORY	A	B	C	D
S-13	500-1	430 (500-1)	500-1¼ 430 (500-1¼)	NA
CIRCLING	620-1	550 (600-1)	620-1½ 550 (600-1½)	NA
MC ALLEN MILLER INTL ALTIMETER SETTING MINIMUMS				
S-13	540-1	470 (500-1)	540-1¼ 470 (500-1¼)	NA
CIRCLING	660-1	590 (600-1)	660-1½ 590 (600-1½)	NA

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

WESLACO, TEXAS

AL-6930 (FAA)

15344

VOR/DME MFE 117.2 Chan 119	APP CRS 080°	Rwy Idg TDZE Apt Elev 70	N/A N/A 70
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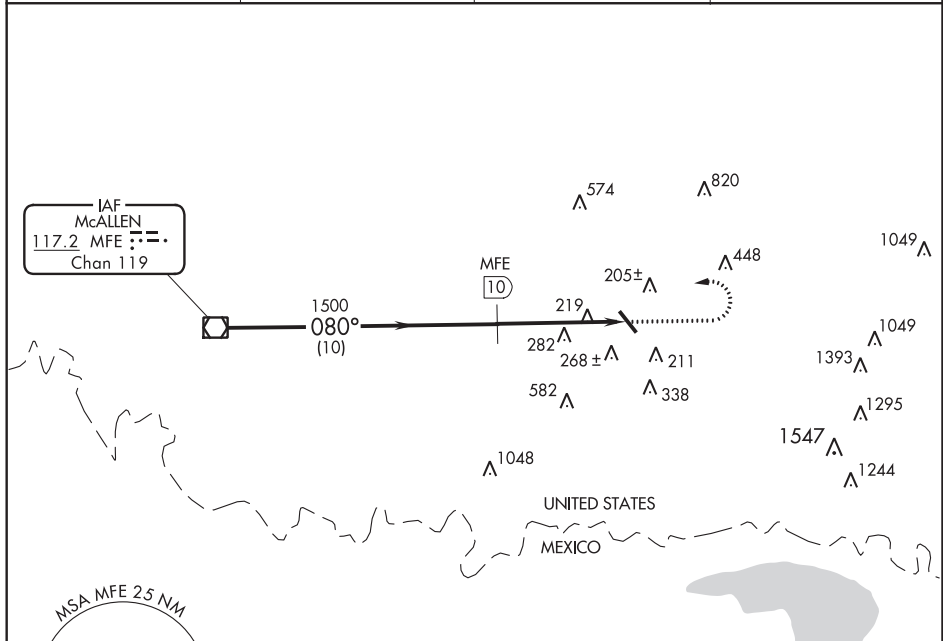
VOR/DME-A

MID VALLEY (T65)

NA Procedure NA at night. Helicopter visibility reduction below 1 SM NA. When local altimeter setting not received, use McAllen Miller altimeter setting.

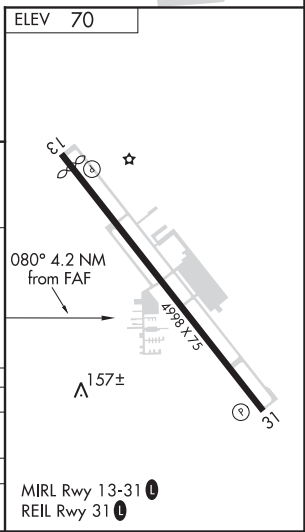
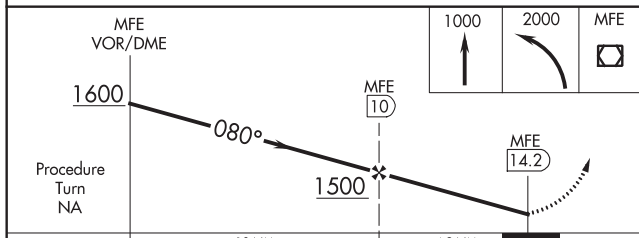
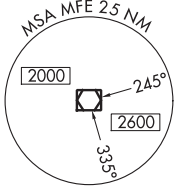
MISSED APPROACH: Climb to 1000, then climbing left turn to 2000 direct MFE VOR/DME.

AWOS-3 118.575	VALLEY APP CON 121.0 284.7	CLNC DEL 125.95	UNICOM 122.8 (CTAF)
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SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017



CATEGORY	A	B	C	D
CIRCLING	620-1	550 (600-1)	620-1½ 550 (600-1½)	NA
MC ALLEN MILLER INTL ALTIMETER SETTING MINIMUMS				
CIRCLING	660-1	590 (600-1)	660-1½ 590 (600-1½)	NA

WESLACO, TEXAS
Orig-A 25JUN15

26°11'N-97°58'W

MID VALLEY (T65)

VOR/DME-A

WAAS CH 93831 W13A	APP CRS 132°	Rwy Idg TDZE Apt Elev	5003 2822 2822
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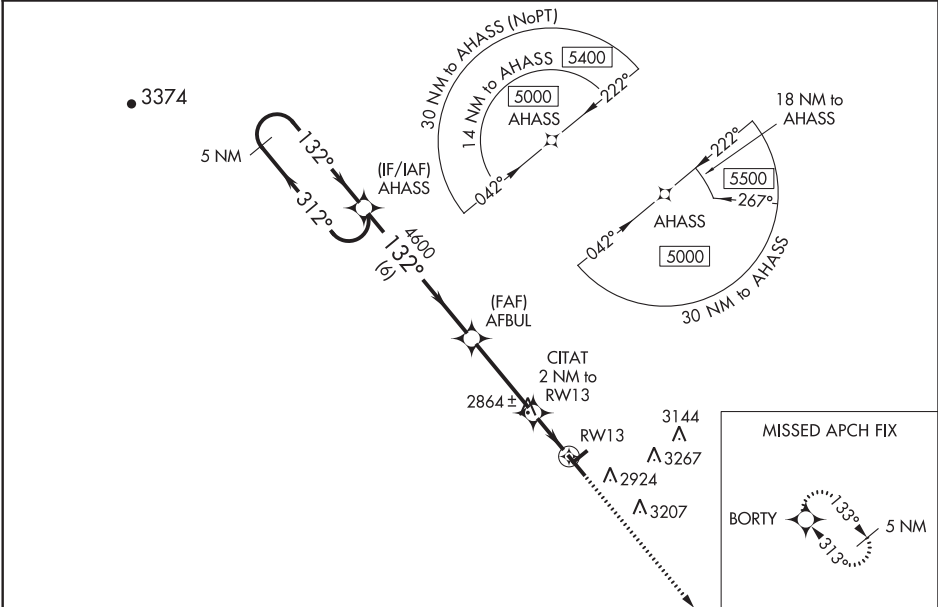
RNAV (GPS) RWY 13

WINK/ WINKLER COUNTY (INK)

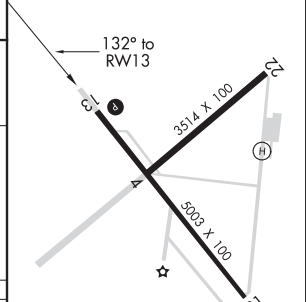
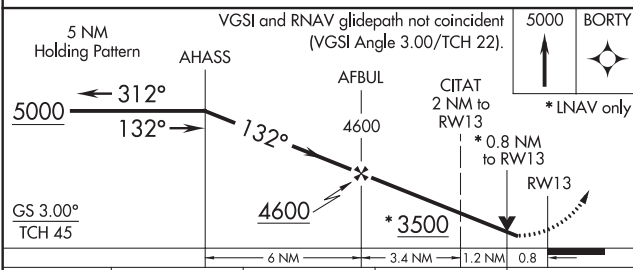
⚠ Baro-VNAV NA when using Pecos altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -20°C (-4°F) or above 54°C (130°F). DME/DME-0.3 NA. VDP NA with Pecos altimeter setting. Helicopter visibility reduction below 3/4 SM NA. When local altimeter setting not received, use Pecos altimeter setting and increase all DA 95 feet and all MDA 100 feet. Increase LPV and LNAV/VNAV all Cats visibility 3/8 mile, LNAV and Circling Cat C visibility 1/4 mile.

MISSED APPROACH:
Climb to 5000 direct BORTY and hold.

ASOS 118.325	FORT WORTH CENTER 133.1 298.95	UNICOM 123.0 (CTAF) ①
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ELEV 2822	TDZE 2822
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CATEGORY	A	B	C	D
LPV DA	3072-3/4	250 (300-3/4)		NA
LNAV/VNAV DA	3072-3/4	250 (300-3/4)		NA
LNAV MDA	3120-1	298 (300-1)	3120-7/8 298 (300-7/8)	NA
CIRCLING	3280-1	458 (500-1)	3580-2 1/4 758 (800-2 1/4)	NA

MIRL Rwy's 4-22 and 13-31 ①

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

WINK, TEXAS

AL-461 (FAA)

15092

WAAS CH 56233 W31A	APP CRS 313°	Rwy Idg TDZE Apt Elev	5003 2818 2822
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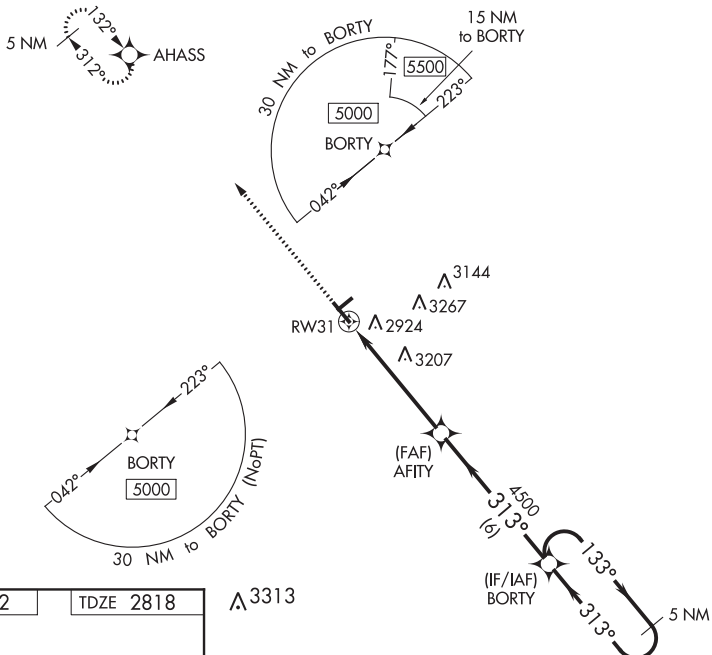
RNAV (GPS) RWY 31

WINK/WINKLER COUNTY (INK)

⚠ Baro-VNAV NA when using Pecos altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -20°C (-4°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. VDP NA with Pecos altimeter setting. When local altimeter setting not received, use Pecos altimeter setting and increase all DA 95 feet and all MDA 100 feet. Increase LPV all Cats visibility ¼ mile, LNAV/VNAV all Cats visibility ⅓ mile, LNAV Cat B visibility ¼ mile, LNAV Cat C visibility ½ mile and Circling Cats B and C visibility ¼ mile.

MISSED APPROACH:
Climb to 5000 direct AHASS and hold.

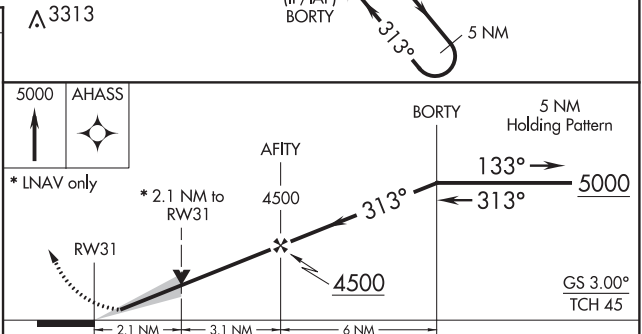
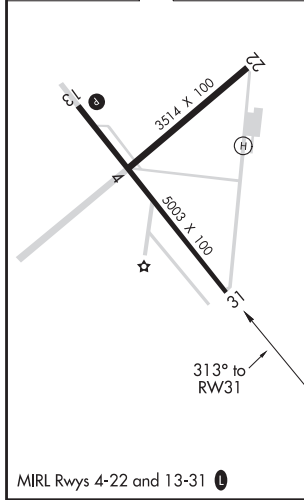
ASOS 118.325	FORT WORTH CENTER 133.1 298.95	UNICOM 123.0 (CTAF) 0
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SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

ELEV 2822	TDZE 2818
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CATEGORY	A	B	C	D
LPV DA	3018-¾		200 (200-¾)	NA
LNAV/VNAV DA	3130-1		312 (400-1)	NA
LNAV MDA	3520-1	702 (700-1)	3520-2 702 (700-2)	NA
CIRCLING	3520-1	698 (700-1)	3580-2¼ 758 (800-2¼)	NA

WINK, TEXAS
Amdt 1A 02APR15

31°47'N-103°12'W

WINK/WINKLER COUNTY (INK)
RNAV (GPS) RWY 31

VORTAC INK 112.1 Chan 58	APP CRS 150°	Rwy Idg TDZE Apt Elev	5003 2822 2822
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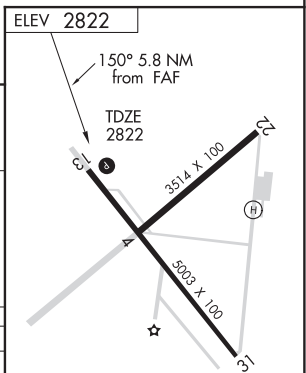
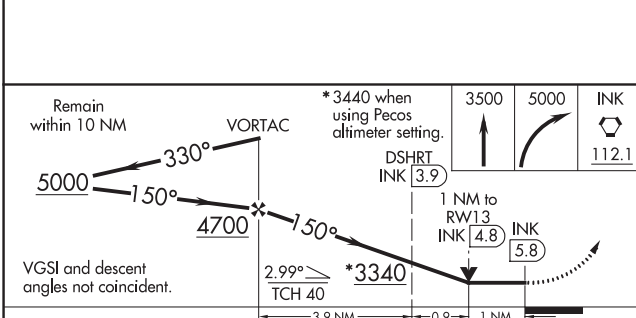
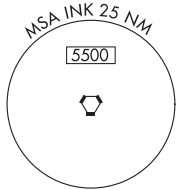
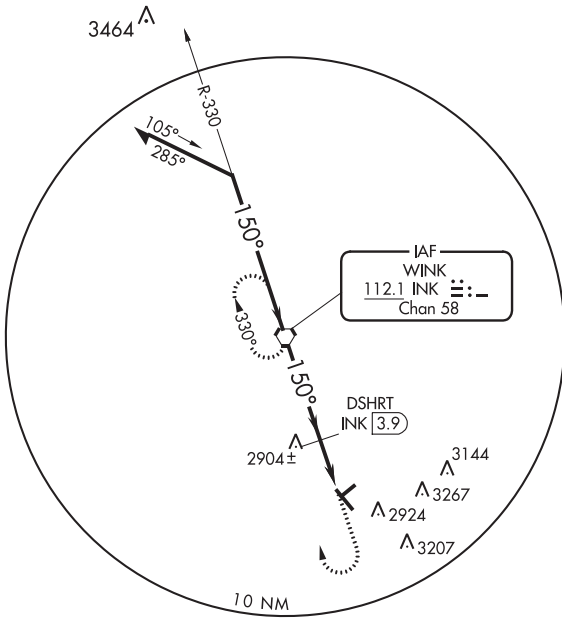
VOR RWY 13

WINK/WINKLER COUNTY (INK)

▼ When local altimeter setting not received, use Pecos altimeter setting and increase all MDAs 100 feet and Cat C visibility ¼ mile and increase DSHRT fix: all MDA 100 feet and S-13 Cat C visibility ¼ mile. VDP NA when using Pecos altimeter setting.

MISSED APPROACH: Climb to 3500 then climbing right turn to 5000 direct INK VORTAC and hold.

ASOS 118.325	FORT WORTH CENTER 133.1 298.95	UNICOM 123.0 (CTAF) 0
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CATEGORY	A	B	C	D
S-13	3340-1	518 (600-1)	3340-1½ 518 (600-1½)	NA
CIRCLING	3340-1	518 (600-1)	3340-1½ 518 (600-1½)	NA
DSHRT FIX MINIMUMS				
S-13	3160-1 338 (400-1)			NA
CIRCLING	3280-1 458 (500-1)	3300-1 478 (500-1)	3300-1½ 478 (500-1½)	NA

MIRL Rwy 4-22 and 13-31 0					
FAF to MAP 5.8 NM					
Knots	60	90	120	150	180
Min:Sec	5:48	3:52	2:54	2:19	1:56

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

WINTERS, TEXAS

AL-6639 (FAA)

15092

WAAS CH 93822 W17A	APP CRS 172°	Rwy Idg TDZE Apt Elev	3204 1870 1871
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RNAV (GPS) RWY 17

WINTERS MUNI (77F)

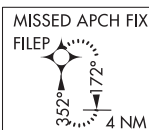
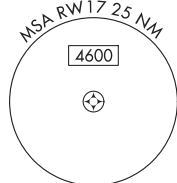
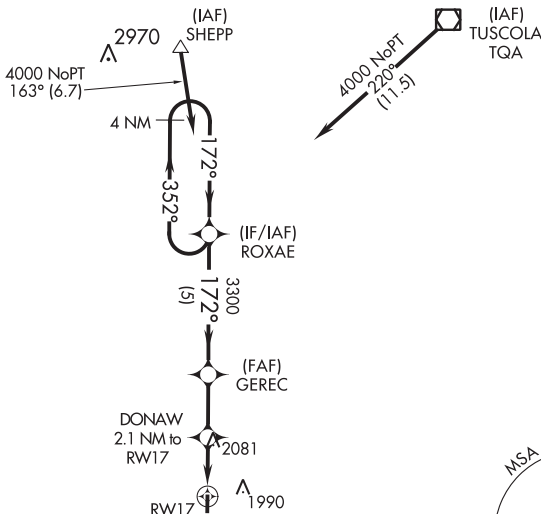
⚠ Circling to Rwy 35 NA at night. DME/DME RNP-0.3 NA. Use Abilene altimeter setting. When not received, use Coleman altimeter setting and increase all MDA 20 feet.

MISSED APPROACH:
Climb to 3400 direct FILEP and hold.

ABILENE APP CON
127.2 282.3

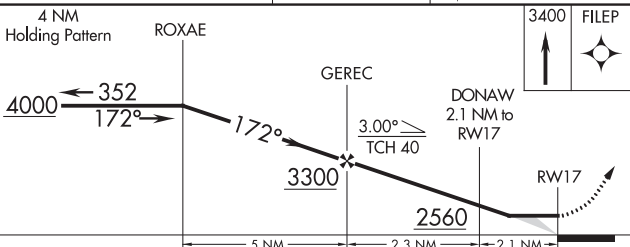
CTAF
122.9

Procedure NA for arrivals at SHEPP on V77 northbound.

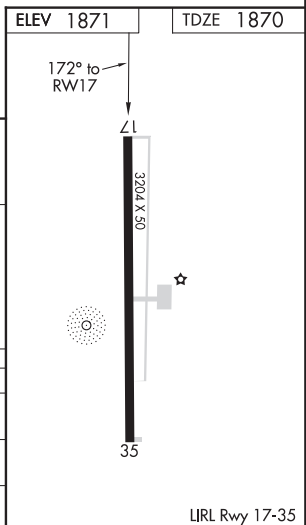


ELEV 1871 | TDZE 1870

172° to RWY 17



CATEGORY	A	B	C	D
LP MDA	2480-1	610 (700-1)		NA
LNVA MDA	2480-1	610 (700-1)		NA
CIRCLING	2480-1	609 (700-1)		NA



LIRL Rwy 17-35

WINTERS, TEXAS
Orig-A 02APR15

31°57'N-99°59'W

RNAV (GPS) RWY 17

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

WAAS CH 49022 W35A	APP CRS 352°	Rwy Idg TDZE Apt Elev	3204 1871 1871
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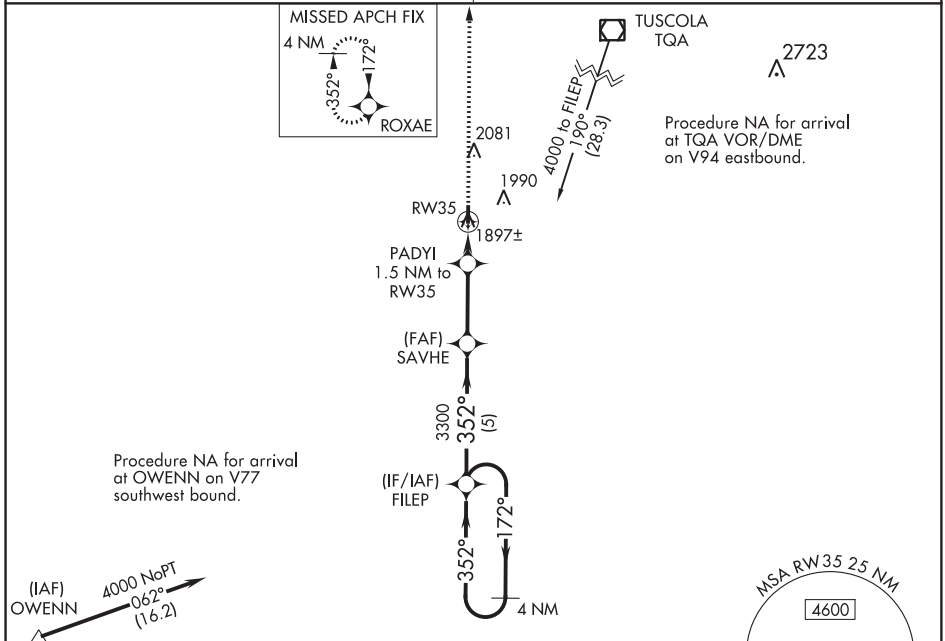
RNAV (GPS) RWY 35

WINTERS MUNI (77F)

NA DME/DME RNP-0.3 NA. Helicopter visibility reduction below 1 SM NA. Use Abilene altimeter setting; when not received, use Coleman altimeter setting and increase all MDA 20 feet. Night landing: Rwy 35 NA.

MISSED APPROACH: Climb to 4000 direct ROXAE and hold.

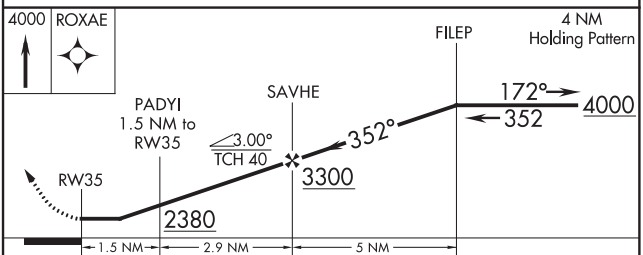
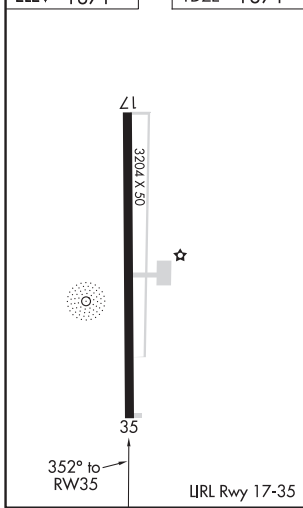
ABILENE APP CON 127.2 282.3	CTAF 122.9
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SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

ELEV 1871	TDZE 1871
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CATEGORY	A	B	C	D
LP MDA	2240-1	369 (400-1)		NA
LNAV MDA	2240-1	369 (400-1)		NA
CIRCLING	2440-1	569 (600-1)		NA

YOAKUM, TEXAS

AL-6157 (FAA)

12208

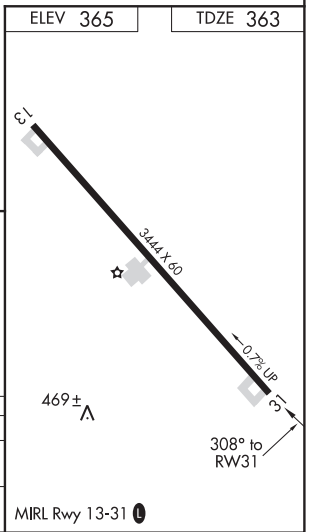
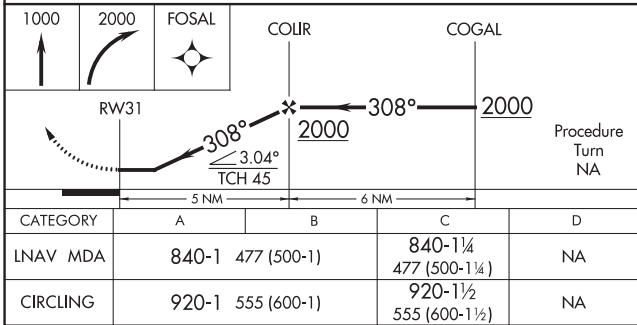
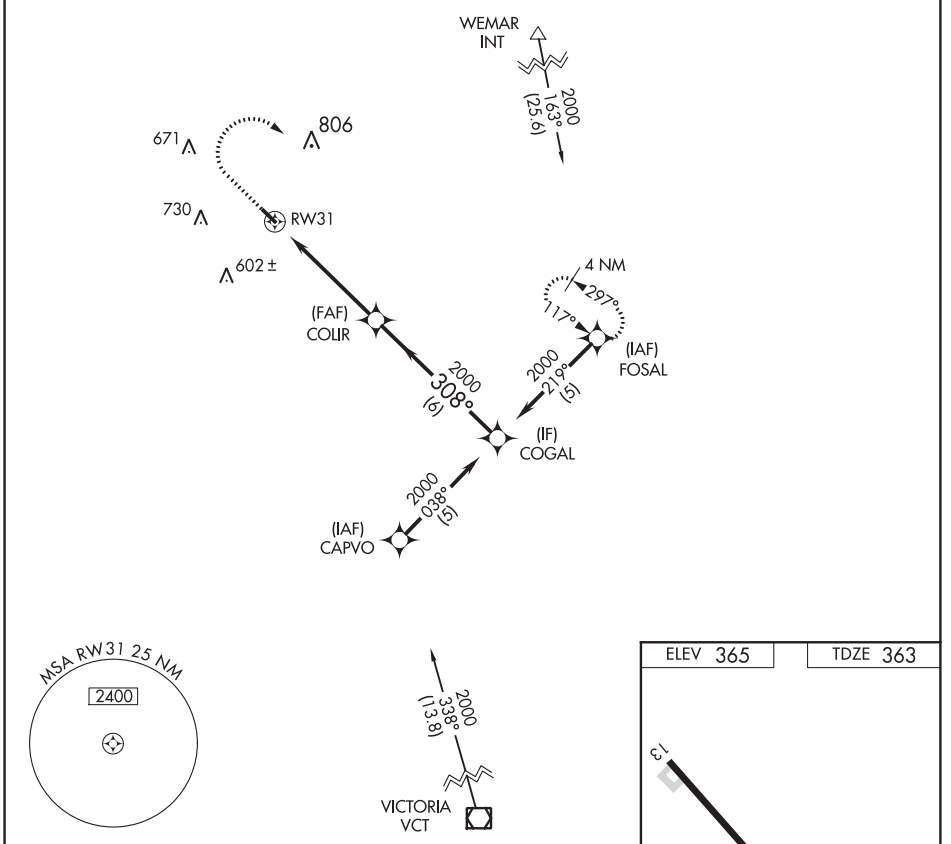
APP CRS	Rwy Idg	3444
308°	TDZE	363
	Apt Elev	365

RNAV (GPS) RWY 31

YOAKUM MUNI (T85)

NA Use Victoria Regional altimeter setting. Procedure not authorized at night. DME/DME RNP-0.3 NA. **MISSED APPROACH:** Climb to 1000 then climbing right turn to 2000 direct FOSAL and hold.

VICTORIA REGIONAL ASOS 119.025	HOUSTON CENTER 132.8 343.7	CTAF 122.9 0
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YOAKUM, TEXAS				YOAKUM MUNI (T85)
Orig-B 08MAR12	29°19'N-097°08'W			RNAV (GPS) RWY 31

SC-3, 10 NOV 2016 to 05 JAN 2017

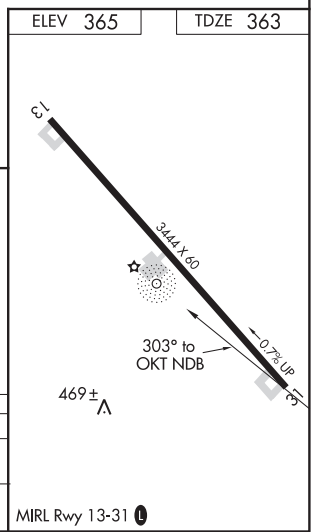
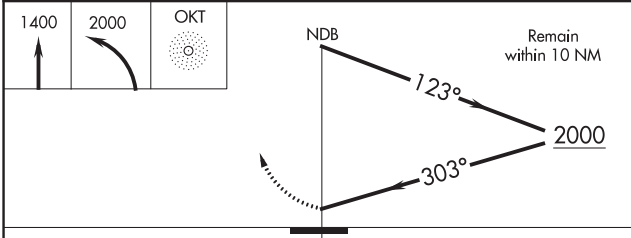
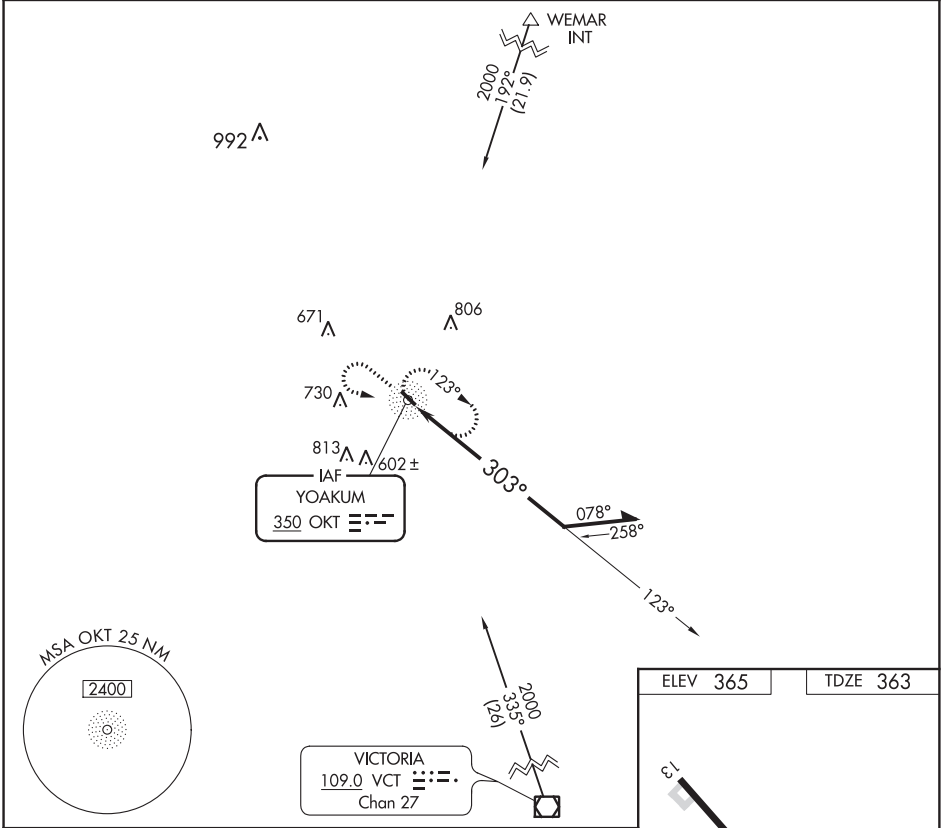
SC-3, 10 NOV 2016 to 05 JAN 2017

NDB OKT 350	APP CRS 303°	Rwy Idg 3444 TDZE 363 Apt Elev 365
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NDB RWY 31
YOAKUM MUNI (T85)

NA Use Victoria Regional altimeter setting. Procedure not authorized at night. **MISSED APPROACH:** Climb to 1400 then climbing left turn to 2000 direct OKT NDB and hold.

VICTORIA REGIONAL ASOS 119.025	HOUSTON CENTER 132.8 343.7	CTAF 122.9
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CATEGORY	A	B	C	D
S-31	940-1 577 (600-1)		940-1½ 577 (600-1½)	NA
CIRCLING	940-1 575 (600-1)		940-1½ 575 (600-1½)	NA

SC-3, 10 NOV 2016 to 05 JAN 2017

SC-3, 10 NOV 2016 to 05 JAN 2017

INTENTIONALLY

LEFT

BLANK

CLIMB/DESCENT TABLE 10042

INSTRUMENT TAKEOFF OR APPROACH PROCEDURE CHARTS RATE OF CLIMB/DESCENT TABLE

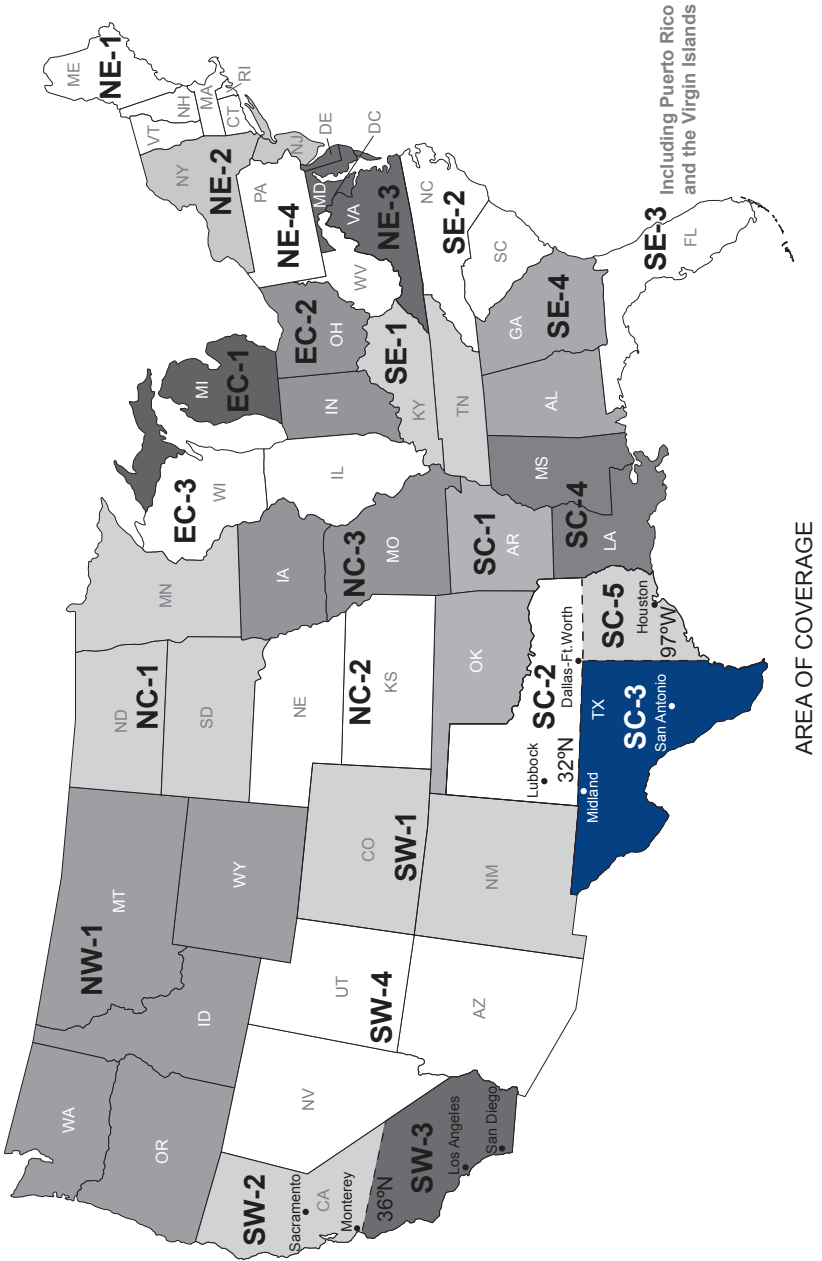
(ft. per min)

A rate of climb/descent table is provided for use in planning and executing climbs or descents under known or approximate ground speed conditions. It will be especially useful for approaches when the localizer only is used for course guidance. A best speed, power, altitude combination can be programmed which will result in a stable glide rate and altitude favorable for executing a landing if minimums exist upon breakout. Care should always be exercised so that minimum descent altitude and missed approach point are not exceeded.

CLIMB/ DESCENT ANGLE (degrees and tenths)	ft/NM	GROUND SPEED (knots)											
		60	90	120	150	180	210	240	270	300	330	360	
2.0	210	210	320	425	530	635	743	850	955	1060	1165	1275	
2.5	265	265	400	530	665	795	930	1060	1195	1325	1460	1590	
VERTICAL PATH ANGLE	2.7	287	287	430	574	717	860	1003	1147	1290	1433	1576	1720
	2.8	297	297	446	595	743	892	1041	1189	1338	1486	1635	1783
	2.9	308	308	462	616	770	924	1078	1232	1386	1539	1693	1847
	3.0	318	318	478	637	797	956	1115	1274	1433	1593	1752	1911
	3.1	329	329	494	659	823	988	1152	1317	1481	1646	1810	1975
	3.2	340	340	510	680	850	1020	1189	1359	1529	1699	1869	2039
	3.3	350	350	526	701	876	1052	1227	1402	1577	1752	1927	2103
	3.4	361	361	542	722	903	1083	1264	1444	1625	1805	1986	2166
3.5	370	370	555	745	930	1115	1300	1485	1670	1860	2045	2230	
4.0	425	425	640	850	1065	1275	1490	1700	1915	2125	2340	2550	
4.5	480	480	715	955	1195	1435	1675	1915	2150	2390	2630	2870	
5.0	530	530	795	1065	1330	1595	1860	2125	2390	2660	2925	3190	
5.5	585	585	880	1170	1465	1755	2050	2340	2635	2925	3220	3510	
6.0	640	640	960	1275	1595	1915	2235	2555	2875	3195	3510	3830	
6.5	690	690	1040	1385	1730	2075	2425	2770	3115	3460	3805	4155	
7.0	745	745	1120	1490	1865	2240	2610	2985	3355	3730	4105	4475	
7.5	800	800	1200	1600	2000	2400	2800	3200	3600	4000	4400	4800	
8.0	855	855	1280	1710	2135	2560	2990	3415	3845	4270	4695	5125	
8.5	910	910	1360	1815	2270	2725	3180	3630	4085	4540	4995	5450	
9.0	960	960	1445	1925	2405	2885	3370	3850	4330	4810	5295	5775	
9.5	1015	1015	1525	2035	2540	3050	3560	4065	4575	5085	5590	6100	
10.0	1070	1070	1605	2145	2680	3215	3750	4285	4820	5355	5890	6430	

CLIMB/DESCENT TABLE 10042

U.S. TERMINAL PUBLICATION VOLUMES



FAA Product ID: BTPPSC3



NSN 7641015059587

NGA REF. NO. OK-10-2859 TERMXFAABTTPPSC3



EFF. DATE 16315