Federal Aviation Administration

U.S. Terminal Procedures Publication

South Central (SC) Vol 5 of 5

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22 APR 2021

Consult the Change Notice (CN) effective 25 MAR 2021 for revised Instrument Procedure Charts for this volume

Consult NOTAMs for latest information

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CORRECTIONS, COMMENTS AND/OR PROCUREMENT

FOR CHARTING ERRORS, OR FOR CHANGES, ADDITIONS, RECOMMENDATIONS ON PROCEDURAL ASPECTS CONTACT:
FAA, Aeronautical Information Services
1305 East-West Highway
SSMC 4, Room 3424
Silver Spring, MD 20910
Telephone: 1-800-638-8972
https://www.faa.gov/air_traffic/flight_info/aeronav/aero_data/

For inquiries regarding military charts, please contact aerohelp@nga.mil

FOR PROCUREMENT:
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For a list of approved FAA Print Providers, visit our website at:
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Frequently asked questions (FAQ) are answered on our website at https://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 19339

INOPERATIVE COMPONENTS OR VISUAL AIDS TABLE
(For Civil Use Only)

Straight-in and Sidestep landing minimums published on instrument approach procedure charts are based on full operation of all components and visual aids (see exception below for ALSF 1 & 2) associated with the particular 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 glideslope inoperative minimums are published on the instrument approach charts as localizer minimums. This table applies to approach categories A thru D and is to be used unless amended by notes on the approach chart. Such notes apply only to the particular approach category(ies) as stated. Category E inoperative notes will be specified when published on civil charts. The inoperative table does not apply to Circling minimums. See legend page for description of components indicated below.

Full Operation Exception: For ALSF 1 & 2 operated as SSALR, or when the sequenced flashing lights are inoperative, there is no effect on visibility for ILS lines of minima.

(1) ILS, PAR, LPV, GLS minima

Inoperative Component or Visual Aid	Increase Visibility
All ALS types (except ODALS)	¼ mile

(2) ILS, LPV, GLS with visibility minima of RVR 1800†/2000*/2200*

Inoperative Component or Visual Aid	Increase Visibility
ALSF 1 & 2, MALSR, SSALR	To RVR 4000† To RVR 4500*
TDZL or RCLS	To RVR 2400#
RVR	To ½ mile

#For ILS, LPV, GLS procedures with a 200 foot HAT, RVR 1800 authorized with use of FD or AP or HUD to DA.

(3) All Approach Types and all lines of minima other than (1) & (2) above

Inoperative Component or Visual Aid	Increase Visibility
ALSF 1 & 2, MALSR, SSALR	½ mile
MALSF, MALS, SSALF, SSALS, SALSF, SALS	¼ mile

(4) Sidestep minima (CAT C-D)

Inoperative Component or Visual Aid to Sidestep Runway	Increase Visibility
ALSF 1 & 2, MALSR, SSALR	½ mile

(5) All Approach Types, All lines of minima

Inoperative Component or Visual Aid	Increase Visibility
ODALS (CAT A-B)	¼ mile
ODALS (CAT C-D)	⅛ mile

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TERMS/LANDING MINIMA DATA 20142

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.

Visibility (RVR 100's of feet) — DA — Aircraft Approach Category — HAT

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)

Straight-in ILS to Runway 27

Straight-in with Glide Slope Inoperative or not used to Runway 27

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

MDA — HAA — Visibility in Statute Miles

COPTER MINIMA ONLY

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

Copter Approach Direction — Height of MDA/DA Above Landing Area (HAL) — 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 AIRPORTS

NOTE: A ❄-12°C symbol indicates a cold temperature altitude correction is required at this airport when reported temperature is at or below the published temperature. See the following Cold Temperature Error Table to make manual corrections. Advise ATC with altitude correction. Advising ATC with altitude corrections is not required in the final segment. See Aeronautical Information Manual (AIM), Chapter 7, for guidance and additional information. For a complete list, see the "Cold Temperature Airports" link under the Additional Resources heading at the bottom of the following page: http://www.faa.gov/air_traffic/flight_info/aeronav/digital_products/dtpp/search/

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. When necessary to operate the aircraft at an airspeed in excess of the maximum airspeed of its certified aircraft approach category, pilots should use the applicable higher category minima. For additional options and to ensure the aircraft remains within protected airspace, consult the AIM. 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

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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 4800 RVR, use 5000 RVR with the resultant visibility of 1 mile.

RVR (feet)	Visibility (SM)	RVR (feet)	Visibility (SM)	RVR (feet)	Visibility (SM)	RVR (feet)	Visibility (SM)
1600	¼	2400	½	3500	⅝	5500	1
1800	½	2600	½	4000	¾	6000	1¼
2000	½	3000	⅝	4500	⅞		
2200	½	3200	⅝	5000	1		

RADAR MINIMA

	RWY	GP/TCH/RPI	CAT	DA/ MDA-VIS	HAT HAA	CEIL-VIS	CAT	DA/ MDA-VIS	HAT HAA	CEIL-VIS
PAR	10	2.5°/42/1000	ABCDE	**195**/16	100	(100-¼)				
	28	2.5°/48/1068	ABCDE	**187**/16	100	(100-¼)				
ASR	10		ABC	**560**/40	463	(500-¾)	DE	**560**/50	463	(500-1)
	28		AB	**600**/50	513	(600-1)	CDE	**600**/60	513	(600-1¼)
CIR	10		AB	**560-**1¼	463	(500-1¼)	CDE	**560-**1½	463	(500-1½)
	28		AB	**600-**1¼	503	(600-1¼)	CDE	**600-**1½	503	(600-1½)

Visibility (RVR 100's of feet)

Visibility in Statute Miles

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

Radar 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 500-1½.

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
(V) 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".

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

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

T Airport is published in the Takeoff Minimums, (Obstacle) Departure Procedures, and Diverse Vector Area (Radar Vectors) tabulation.

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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 contain information on civil operations at military airports.

The FAA uses an internal numbering system on all charts in the TPP. This Approach and Landing (AL) number is located on the top center margin of the chart followed by the organization responsible for the procedure in parentheses, e.g., AL-18 (FAA), AL-227 (USAF).

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.

FAA Procedure Amendment Number → Orig 31DEC09 ← Procedure Amendment Effective Date

FAA Procedure Amendment Number → Amdt 2B 12MAR09 ← Procedure Amendment Effective Date

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. On Departure Procedures and Standard Terminal Arrivals, procedural revisions to the current chart are indicated by an upnumber to the procedure title with the procedure amendment effective date following. On Radar Minima, Takeoff Minimums and (Obstacle) Departure Procedures and Diverse Vector Areas, the FAA Procedure Amendment Number, Procedure Effective Date, and the Julian Date of Last Revision will be shown on the same line, e.g., AMDT 2 10DEC15 (15344).

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 are in nautical miles (except visibility in statute miles and Runway Visual Range in hundreds of feet). Runway dimensions are in feet. Elevations are in feet, Mean Sea Level (MSL). Ceilings are 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.

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 (FREH3.RBV), FREEHOLD THREE DEPARTURE, ELWOOD CITY TRANSITION, file (FREH3.EWC).

PROCEDURE PBN/EQUIPMENT REQUIREMENTS

Users will begin to see Performance-Based Navigation (PBN) Requirements and Equipment Requirements on Instrument Approach Procedures (IAPs), RNAV STARS and RNAV DPs prominently displayed in separate, standardized notes boxes. For procedures with PBN elements, the PBN box will contain the procedure's navigation specification(s); and, if required: specific sensors or infrastructure needed for the navigation solution; any additional or advanced functional requirements; the minimum Required Navigation Performance (RNP) value and any amplifying remarks. Items listed in this PBN box are REQUIRED for the procedure's PBN elements. The Equipment Requirements Box will list non-PBN requirements. On charts with both PBN elements and equipment requirements, the PBN requirements box will be listed first. The publication of these notes will continue incrementally until all charts have been amended to comply with the new standard.

IAP PBN/Equipment Requirements Notes Box

PBN Requirements Box →	From WINRZ, LIBGE: RNAV-1 GPS, RNAV-1GPS from MAP to YARKU.
Equipment Requirements Box →	DME required for LOC only.
Standard Procedure Notes Box →	T Circling to Rwy 25 NA at night. #For inop MALSR increase S-ILS 16R all cats visibility to 2½ SM.

RNAV STAR and DP PBN/Equipment Requirements Notes Box

PBN Requirements Box →	RNAV 1 - DME/DME/IRU or GPS
Equipment Requirements Box →	RADAR required

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., A1, V, ✿
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., L★

To activate lights, use frequency indicated in the communication section of the chart with a L or the appropriate lighting system identification e.g., UNICOM 122.8 L, A1, V

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)

ABBREVIATIONS

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

ODALS..... Omnidirectional Approach Light System
ODP..... Obstacle Departure Procedure
OM..... Outer Marker
PAR..... Precision Approach Radar
PDC..... Pre-Departure Clearance
PRM..... Precision Runway Monitor
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
SALSF..... Short Approach Lighting System with Sequenced Flashing Lights
SSALF..... Simplified Short Approach Lighting System with Sequenced Flashers
SSALR..... Simplified Short Approach Light System with RAIL
SSALS..... Simplified Short Approach Lighting System
SDF..... Simplified Directional Facility
SM..... Statute Mile
SOIA..... Simultaneous Offset Instrument Approach
SR-SS..... Sunrise-Sunset
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
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)

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LEGEND 20086

INSTRUMENT APPROACH PROCEDURES (CHARTS)

PLANVIEW SYMBOLS

TERMINAL ROUTES

Procedure Track

Missed Approach

Visual Flight Path

165°
345°
Procedure Turn
(Type degree and point of turn optional)

3100 NoPT 5.6 NM to GS Intcpt
045°
(14.2 to LOM)
Minimum Route Altitude
2000
155°
Feeder Route
(15.1)
Mileage

HOLDING PATTERNS

Missed Approach
090°
270°

Hold-in-lieu of Procedure Turn
090°
1 min
270°

090°
(IAS)
270°
4 NM

HOLD 8000
Arrival
090°
270°

Holding pattern with max. restricted airspeed:
(175K) applies to all altitudes.
(210K) applies to altitudes above 6000′ to and including 14000′.
Arrival Holding Pattern altitude restrictions will be indicated when they deviate from the adjacent leg.
Timing or distance limits for Hold-in-lieu of Procedure Turn Holding Patterns will be shown.
DME fixes may be shown.

FIXES/ATC REPORTING REQUIREMENTS

Reporting Point
▲ Name (Compulsory)
△ Name (Non-Compulsory)

Intersection

WAYPOINT (Compulsory)

WAYPOINT (Non-Compulsory)

FLYOVER POINT

MAP WP (Flyover)

Computer Navigation Fix (CNF) - No ATC Function
x (NAME) ("x" omitted when it conflicts with runway pattern)

15 DME Distance From Facility

AUSTN INT
ARC/DME/RNAV Fix

R-198 → Radial line and value

LR-198 → Lead Radial

LB-198 → Lead Bearing

ALTITUDES

5500 Mandatory Altitude
2500 Minimum Altitude
4300 Maximum Altitude
3000 Recommended Altitude
5000 Mandatory Block
3000 Altitude

INDICATED AIRSPEED

175K	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:
VOR, VORTAC, DME, VOR/DME, TACAN, NDB, NDB/DME

Non-Compulsory:
VOR, VORTAC, DME, VOR/DME, TACAN, NDB, NDB/DME

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

Marker Beacon

Marker beacons that are not specifically part of the procedure.

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 postion off the end of the runway.)

Primary Navaid with Coordinate Values
LIMA
114.5 LIM
Chan 92
S12°00.80′
W77°07.00′

Secondary Navaid
LMM
LIMA
248 NT

SCOTT
Chan 59
SKE
(112.2)
VHF Paired Frequency

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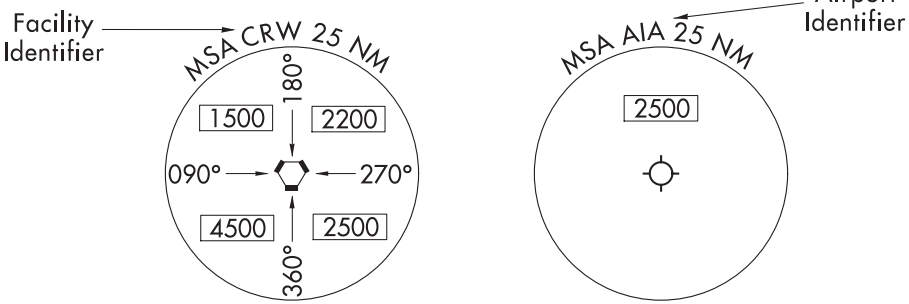
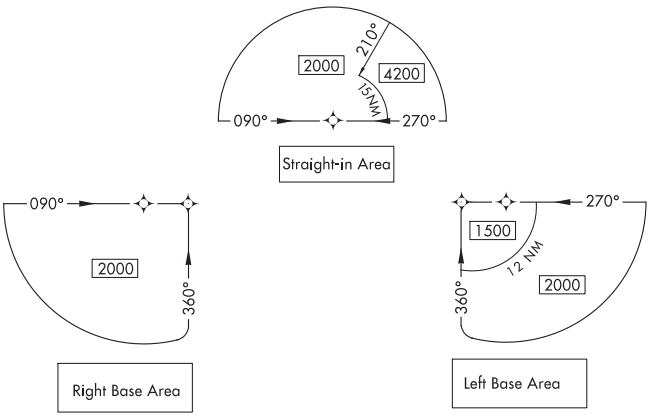
PLANVIEW SYMBOLS

MINIMUM SAFE ALTITUDE (MSA)



(arrows on distance circle identify sectors)

TERMINAL ARRIVAL AREA (TAA)



MISCELLANEOUS

VOR Changeover Point

RWY 15 S12° 00.52′ W77° 06.91′ — End of Rwy Coordinates (DOD only)

Distance not to scale

International Boundary

Air Defense Identification Zone

SPECIAL USE AIRSPACE

R-352

R-Restricted
P-Prohibited
W-Warning
A-Alert

AIRPORTS

Primary and Secondary (named in planview)

Civil

Seaplane Base

Heliport

OBSTACLES

Spot Elevation

Obstacle

Highest Obstacle

Highest Spot Elevation

Group of Obstacles

Doubtful accuracy

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LEGEND 20198

INSTRUMENT APPROACH PROCEDURES (CHARTS)

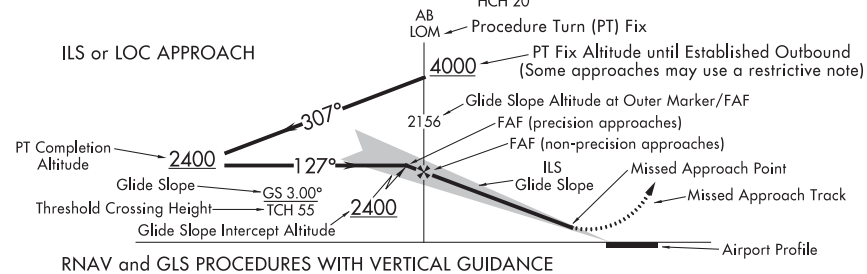
PROFILE VIEW

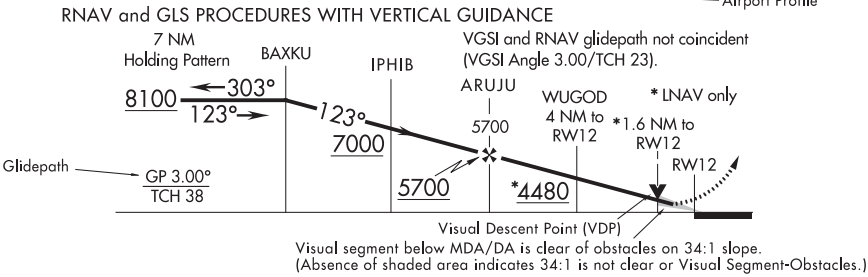
Three different methods are used to depict either electronic or vertical guidance: "GS", "GP", or "VDA".

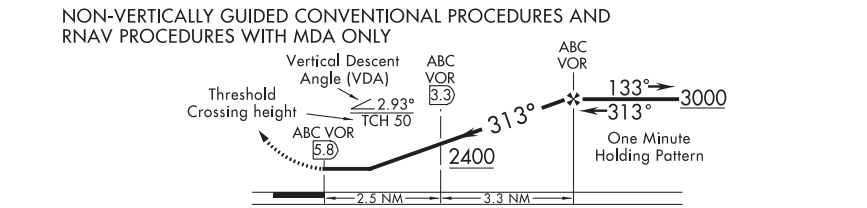
1. "GS" indicates that an Instrument Landing System (ILS) electronic glide slope (a ground antenna) provides vertical guidance. The profile section of ILS procedures depict a GS angle and TCH in the following format: GS 3.00°/TCH 55.

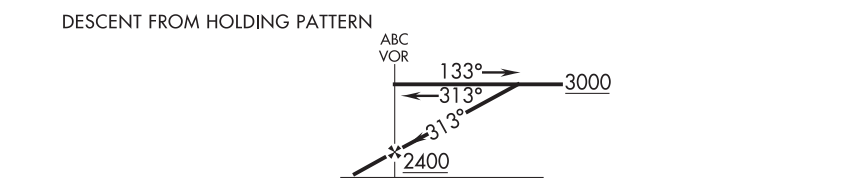
2. "GP" on GLS and RNAV procedures indicates that either electronic vertical guidance (via Wide Area Augmentation System - WAAS or Ground Based Augmentation System - GBAS) or barometric vertical guidance is provided. GLS and RNAV procedures with a published decision altitude (DA/H) depict a GP angle and TCH in the following format: GP 3.00°/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: ∠3.00°/TCH 55. On Copter procedures this is depicted in the following format: ∠7.30°/HCH 20.









ALTITUDES

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

PROFILE SYMBOLS

- 2400 — 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.

LEGEND 20198

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LEGEND 19059

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:

VOR, VORTAC, DME, NDB/DME, VOR/DME, TACAN, NDB

Non-Compulsory:

VOR, VORTAC, DME, NDB/DME, VOR/DME, TACAN, NDB

LMM, LOM (Compass locator)

Marker Beacon

LOC, LOC/DME (shown when installation is offset from its normal position off the end of the runway.) (DP)

Localizer Course

SDF Course

(T) indicates frequency protection range (STAR)

(Y) TACAN must be placed in "Y" mode to receive distance information

Identifier

Frequency

ORLANDO
112.25 (T) ORL
Chan 59 (Y)
N28°32.56′ - W81°20.10′

Geographic Position

L-19, H-5

DME or TACAN Channel

Underline indicates no voice transmitted on this frequency

Enroute Chart Reference

Coordinates

Waypoint Name

PRAYS
N38°58.30′ W89°51.50′
112.7 CAP 187.1°-56.2
590

Frequency

Identifier

Reference Facility Elevation

Radial-Distance (Facility to Waypoint)

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

DME fix

WAYPOINT (Compulsory)

WAYPOINT (Non-Compulsory)

FLYOVER POINT

X Computer Navigation Fix (CNF) - No ATC Function
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

Transition Route

R-275 Radial line and value

Lost Communications Track

Visual Flight Path (DP)

V12 J80 Airway/Jet Route Identification

DP Holding Pattern (IAS)

STAR Holding Pattern (IAS)

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

SPECIAL USE AIRSPACE

R-352

R-Restricted W-Warning
P-Prohibited A-Alert
MOA-Military Operations Area

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

(DP)

Heliport

Civil Military Joint Civil-Military

Airports not served by the procedure shown in screened color (STAR)

Civil Military Joint Civil-Military

MISCELLANEOUS

Changeover Point

Distance not to scale (DP)

International Boundary (DP)

Air Defense Identification Zone

T Takeoff Minimums and (Obstacle) Departure Procedures entry published. (DP)

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LEGEND 19059

19339

LEGEND

INSTRUMENT APPROACH PROCEDURES (CHARTS)

AIRPORT DIAGRAM/AIRPORT SKETCH

Runways

Hard Surface | Other Than Hard Surface | Stopways,Taxiways, Parking Areas | Metal Surface

Closed Runway | Closed Surface | Under Construction | Water Runway

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.

uni-directional | bi-directional | Jet Barrier

ARRESTING SYSTEM (EMAS)

REFERENCE FEATURES

Displaced Threshold.....
Hot Spot .....
Runway Holding Position Markings.....
Buildings.....
24-Hour Self-Serve Fuel ##.....
Tanks.....
Obstructions.....
Airport Beacon #.....
Runway
Radar Reflectors.....
Control Tower #..... TWR

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.

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)

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

Helicopter Alighting Areas

Negative Symbols used to identify Copter Procedures landing point.....

NOTE:
Landmark features depicted on Copter Approach insets and sketches are provided for visual reference only.

Runway TDZ elevation.....TDZE 123

Runway Slope.....0.8% UP ⟵ 0.3% DOWN ⟶
(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.

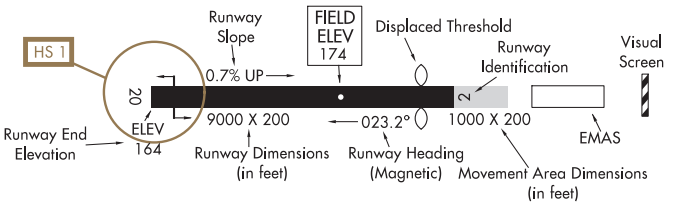
True/magnetic North orientation may vary from diagram to diagram

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.

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.



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.

LEGEND

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LEGEND 15344

INSTRUMENT APPROACH PROCEDURES (CHARTS)

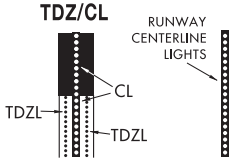
APPROACH LIGHTING SYSTEM - UNITED STATES

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

TDZ/CL

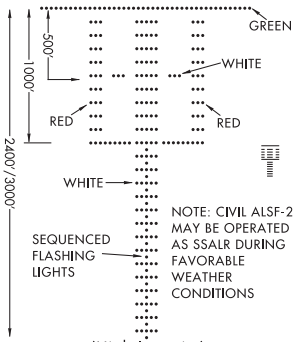


AVAILABILITY of TDZ/CL will be shown by NOTE in SKETCH e.g. "TDZ/CL Rwy 15"

APPROACH LIGHTING SYSTEM

A

ALSF-2



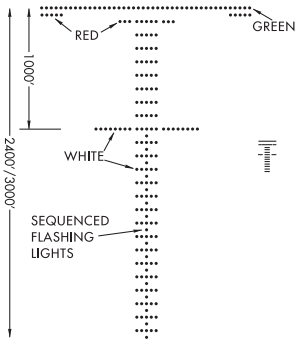
NOTE: CIVIL ALSF-2 MAY BE OPERATED AS SSALR DURING FAVORABLE WEATHER CONDITIONS

(High Intensity)
LENGTH 2400/3000 FEET

APPROACH LIGHTING SYSTEM

A1

ALSF-1



(High Intensity)
LENGTH 2400/3000 FEET

SHORT APPROACH LIGHTING SYSTEM

A2

SALS/SALSF

(High Intensity)

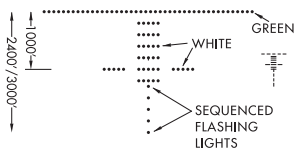
SAME AS INNER 1500' OF ALSF-1

SIMPLIFIED SHORT APPROACH LIGHTING SYSTEM

with Runway Alignment Indicator Lights

A3

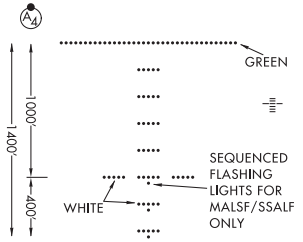
SSALR



(High Intensity)
LENGTH 2400/3000 FEET

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

A4



LENGTH 1400 FEET

MEDIUM INTENSITY APPROACH LIGHTING SYSTEM

with Runway Alignment Indicator Lights

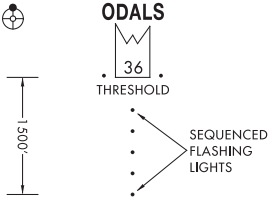
A5

MALSR

SAME LIGHT CONFIGURATION AS SSALR.

OMNIDIRECTIONAL APPROACH LIGHTING SYSTEM

ODALS



LENGTH 1500 FEET

VISUAL APPROACH SLOPE INDICATOR

V

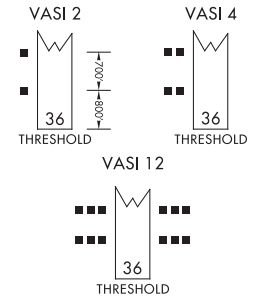
VASI

VISUAL APPROACH SLOPE INDICATOR WITH STANDARD THRESHOLD CLEARANCE PROVIDED.

ALL LIGHTS WHITE — TOO HIGH

FAR LIGHTS RED, NEAR LIGHTS WHITE — ON GLIDE SLOPE

ALL LIGHTS RED — TOO LOW

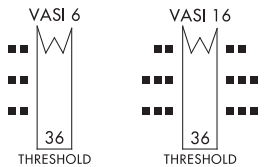


VISUAL APPROACH SLOPE INDICATOR

V3

VASI

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



LEGEND 15344

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LEGEND 18256

INSTRUMENT APPROACH PROCEDURES (CHARTS)

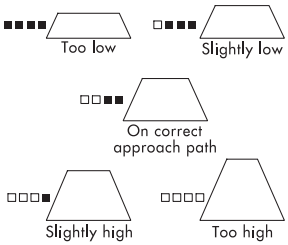
APPROACH LIGHTING SYSTEM - UNITED STATES

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., (A1). Negative symbology, e.g., (A1), (V) indicates Pilot Controlled Lighting (PCL).

(P) PRECISION APPROACH PATH INDICATOR

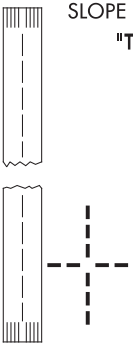
PAPI



Legend: □ White ■ Red

(V1) "T"-VISUAL APPROACH SLOPE INDICATOR

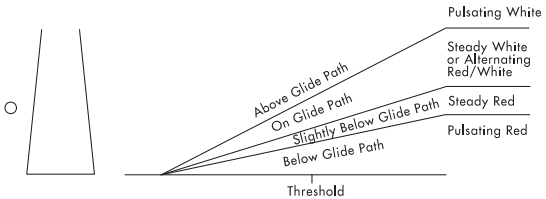
"T"-VASI



"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.

(V2) PULSATING VISUAL APPROACH SLOPE INDICATOR

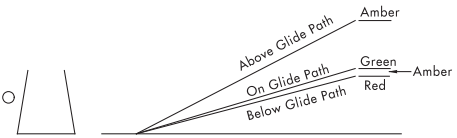
PVASI



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.

(V4) TRI-COLOR VISUAL APPROACH SLOPE INDICATOR

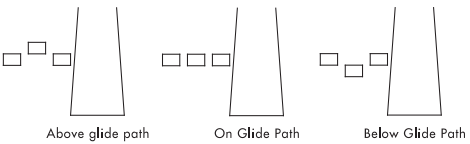
TRCV



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 18256

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FREQ PAIRING 20198

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		

See the Chart Supplement for a complete listing.

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FREQ PAIRING 20198

INDEX OF TERMINAL CHARTS AND MINIMUMS

NAME PROC SECT PG

ANAHUAC, TX
CHAMBERS COUNTY(T00)
TAKEOFF MINIMUMS L
STARS ..... BLUBELL FOUR Z4
CESAN FOUR (RNAV) Z5
HUDZY FOUR Z18
OHIIO FOUR Z27
TKNIQ TWO (RNAV) Z39
TSHRT ONE ARRIVAL Z41
WAPPL FIVE (RNAV) Z44
IAPS ..... RNAV (GPS) RWY 12 1
DPS ..... BLTWY SIX (RNAV) 2
BORRN FOUR (RNAV) 3
HOODO SIX (RNAV) 5
INDIE SEVEN (RNAV) 6
KARRR SIX (RNAV) 7
LURIC SEVEN (RNAV) 9
MMALT FIVE (RNAV) 10
PALACIOS ONE 11
STRYA SEVEN (RNAV) 13
STYCK SEVEN (RNAV) 14
WATFO FIVE (RNAV) 15
WYLSN SEVEN (RNAV) 16

ANGELINA COUNTY
---SEE LUFKIN, TX

ANGLETON/LAKE JACKSON, TX
TEXAS GULF COAST RGNL(LBX)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ..... M
STARS ..... BLUBELL FOUR Z4
CESAN FOUR (RNAV) Z5
HUDZY FOUR Z18
OHIIO FOUR Z27
SNIFY ONE ARRIVAL Z34
TKNIQ TWO (RNAV) Z39
TSHRT ONE ARRIVAL Z41
WAPPL FIVE (RNAV) Z44
IAPS ..... ILS OR LOC RWY 17 17
RNAV (GPS) RWY 17 18
RNAV (GPS) RWY 35 19
DPS ..... ALEXANDRIA TWO 20
BLTWY SIX (RNAV) 22
BORRN FOUR (RNAV) 23
CRIED NINE 25
EL DORADO NINE 26
GIFFA NINE 27
HOODO SIX (RNAV) 28
INDIE SEVEN (RNAV) 29
INDUSTRY NINE 30
KARRR SIX (RNAV) 32
LEONA THREE 34
LUFKIN TWO 36
LURIC SEVEN (RNAV) 38
MMALT FIVE (RNAV) 39
PALACIOS ONE 40
STRYA SEVEN (RNAV) 42
STYCK SEVEN (RNAV) 43
WATFO FIVE (RNAV) 44
WYLSN SEVEN (RNAV) 45

BAY CITY, TX
BAY CITY RGNL(BYY)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ..... M
STARS ..... CESAN FOUR (RNAV) Z5
WAPPL FIVE (RNAV) Z44
IAPS ..... RNAV (GPS) RWY 13 46
RNAV (GPS) RWY 31 47
VOR-A 48
DPS ..... BLTWY SIX (RNAV) 49
INDIE SEVEN (RNAV) 50
LURIC SEVEN (RNAV) 51
MMALT FIVE (RNAV) 52
STRYA SEVEN (RNAV) 53
STYCK SEVEN (RNAV) 54
WYLSN SEVEN (RNAV) 55

INDEX OF TERMINAL CHARTS AND MINIMUMS

NAME	PROC	SECT PG
BAYTOWN, TX		
BAYTOWN(HPY)		
TAKEOFF MINIMUMS		L
STARS	BLUBELL FOUR	Z4
	CESAN FOUR (RNAV)	Z5
	HUDZY FOUR	Z18
	OHIIO FOUR	Z27
	TKNIQ TWO (RNAV)	Z39
	TSHRT ONE ARRIVAL	Z41
	WAPPL FIVE (RNAV)	Z44
IAPS	RNAV (GPS) RWY 14	56
	RNAV (GPS) RWY 32	57
DPS	BLTWY SIX (RNAV)	58
	BORRN FOUR (RNAV)	59
	HOODO SIX (RNAV)	61
	INDIE SEVEN (RNAV)	62
	KARRR SIX (RNAV)	63
	LURIC SEVEN (RNAV)	65
	MMALT FIVE (RNAV)	66
	PALACIOS ONE	67
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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. An entry may also be listed that contains only Takeoff Obstacle Notes. 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 Visual Climb 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.

SC-5, 25 FEB 2021 to 22 APR 2021

ANAHUAC, TX

CHAMBERS COUNTY (T00)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 10MAR11 (11069) (FAA)

TAKEOFF MINIMUMS:

Rwys 17,35, NA-Environmental.

TAKEOFF OBSTACLE NOTES:

Rwy 12, vehicles on roadway beginning 19' from DER, left and right of centerline, up to 15' AGL/34' MSL.
Trees beginning 986' from DER, 732' left of centerline, up to 100' AGL/119' MSL.
Rwy 30, trees beginning 60' from DER, left and right of centerline, up to 100' AGL/124' MSL.
Vehicles on roadway 121' from DER, 512' right of centerline, up to 17' AGL/36' MSL.
Tower 2152' from DER, 593' right of centerline 60' AGL/83' MSL.

ANGLETON/LAKE JACKSON, TX

TEXAS GULF COAST RGNL (LBX)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 22JUN17 (17173) (FAA)

TAKEOFF OBSTACLE NOTES:

Rwy 35, tree 1330’ from DER, 797’ left of centerline, 71’ MSL.
Tree 1404’ from DER, 796’ left of centerline, 73’ MSL.
Trees beginning 1467’ from DER, 788’ left of centerline, up to 75’ MSL.
Tree 1474’ from DER, 670’ right of centerline, 72’ MSL.
Tree 1516’ from DER, 684’ right of centerline, 73’ MSL.
Tree 1578’ from DER, 759’ right of centerline, 74’ MSL.

BAY CITY, TX

BAY CITY RGNL (BYY)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 22JUN17 (17173) (FAA)

TAKEOFF OBSTACLE NOTES:

Rwy 13, trees and poles beginning 51' from DER, 306' left of centerline, up to 91' MSL.
Tree 337' from DER, 442' right of centerline, 79' MSL. Tree 478' from DER, 473' right of centerline, 83' MSL.
Trees beginning 714' from DER, 496' right of centerline, up to 86' MSL.
Rwy 31, tree 102' from DER, 340' right of centerline, 61' MSL.
Tree 548' from DER, 272' left of centerline, 59' MSL.
Tree 944' from DER, 272' right of centerline, 70' MSL.
Trees beginning 1002' from DER, 255' right of centerline, up to 78' MSL.
Tree 1139' from DER, 750' right of centerline, 80' MSL.

BAYTOWN, TX

BAYTOWN (HPY)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG-A 10OCT19 (19283) (FAA)

TAKEOFF MINIMUMS:

Rwy 14, 300-1 or std. w/min. climb of 460' per NM to 300.

TAKEOFF OBSTACLE NOTES:

Rwy 14, tree 9' from DER, 214' left of centerline, 47' MSL.
Trees, poles, traverse way beginning 11' from DER, 33'right of centerline, up to 54' MSL.
Tree 89' from DER, 413' left of centerline, 51' MSL.
Poles, building, trees, traverse way beginning 122' from DER, 9' left of centerline, up to 58' MSL.
Trees, poles beginning 316' from DER, 158' left of centerline, up to 66' MSL.
Poles, trees beginning 462' from DER, 237' left of centerline, up to 67' MSL.
Tree 977' from DER, 447' left of centerline, 68' MSL.
Tree 1223' from DER, 90' left of centerline, 70' MSL.
Tree 1356' from DER, 427' left of centerline, 72' MSL.
Tree 1467' from DER, 531' right of centerline, 80' MSL.
Tree 1886' from DER, 558' left of centerline, 91' MSL.
Tower 4066' from DER, 1217' right of centerline, 156' AGL/180' MSL.
Rwy 32, trees, building, fence, poles beginning 131' from DER, 6' right of centerline, up to 76' MSL.
Buildings beginning 251' from DER, 38' left of centerline, up to 42' MSL.
Poles, building, trees, traverse way beginning 289' from DER, 4' left of centerline, up to 38' AGL/71' MSL.
Poles, trees beginning 688' from DER, 70' right of centerline, up to 48' AGL/80' MSL.

RWJ AIRPARK (54T)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1A 25APR19 (19115) (FAA)

TAKEOFF MINIMUMS:

Rwys 14, 32, NA -Environmental.

TAKEOFF OBSTACLE NOTES:

Rwy 8, trees beginning 21' from DER, 152' left of centerline, up to 100' AGL/129' MSL.
Vehicle on road beginning 100' from DER, crossing centerline, up to 15' AGL/44' MSL.
Fence beginning abeam DER, 115' right of centerline, up to 6' AGL/35' MSL.
Trees beginning 133' from DER, 333' right of centerline, up to 100' AGL/129' MSL.
Buildings beginning 266' from DER, left and right of centerline, up to 30' AGL/59' MSL.
Power lines beginning 356' from DER, 460' left of centerline, up to 32' AGL/61' MSL.
Pole 663' from DER, 188' right of centerline, 100' AGL/129' MSL.
Rwy 26, buildings beginning 47' from DER, 118' right of centerline, up to 30' AGL/64' MSL.
Buildings beginning 187' from DER, 85' left of centerline, up to 30' AGL/64' MSL.
Power lines beginning 407' from DER, crossing centerline, up to 32' AGL/66' MSL.
Vehicle on road beginning 448' from DER, crossing centerline, up to 15' AGL/49' MSL.
Trees beginning 619' from DER, left and right of centerline, up to 100' AGL/134' MSL.
Quarry equipment 2800' from DER, 193' right of centerline, up to 100' AGL/134' MSL.

BEAUMONT, TX

BEAUMONT MUNI (BMT)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 15JAN09 (09015) (FAA)

TAKEOFF MINIMUMS:

Rwys 16,34, NA - Obstacles.

TAKEOFF OBSTACLE NOTES:

Rwy 13, multiple trees, poles and buildings beginning 82' from DER, 2' left of centerline, up to 74' AGL/106' MSL.
Multiple trees, poles and signs beginning 441' from DER, 22' right of centerline, up to 73' AGL/105' MSL.
Vehicle on road 152' from DER, 428' left of centerline, 15' AGL/46' MSL.
Train on railroad 545' from DER, 506' right of centerline, 23' AGL/57' MSL.
Rwy 31, multiple trees, poles and transmission line towers beginning 81' from DER, 2' left of centerline, up to 64' AGL/94' MSL.
Multiple trees, poles, and transmission line towers beginning 241' from DER, 4' right of centerline, up to 56' AGL/88' MSL.
Train on railroad 375' from DER, 354' right of centerline, 23' AGL/55' MSL.

SC-5, 25 FEB 2021 to 22 APR 2021
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BEAUMONT/PORT ARTHUR, TX

JACK BROOKS RGNL (BPT)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 17DEC09 (09351) (FAA)

TAKEOFF OBSTACLE NOTES:

Rwy 12, multiple trees beginning 1024' from DER, 202' left of centerline, up to 43' AGL/48' MSL.
Trees 1676' from DER, 778' right of centerline, 51' AGL/56' MSL.
Rwy 16, multiple trees beginning 580' from DER, 519' right of centerline, up to 51' AGL/56' MSL.
Rwy 30, trees 1005' from DER, 629' right of centerline, 54' AGL/64' MSL.
Multiple trees beginning 1041' from DER, 617' left of centerline, up to 67' AGL/77' MSL.
Rwy 34, building 770' from DER, 386' right of centerline, 28' AGL/38' MSL.
Multiple trees beginning 1274' from DER, 398' right of centerline, up to 70' AGL/80' MSL.
Multiple trees beginning 1288' from DER, 218' left of centerline, up to 72' AGL/82' MSL.
Tower 1487' from DER, 398' right of centerline, 60' AGL/75' MSL.

BRENHAM, TX

BRENHAM MUNI (11R)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 11FEB10 (10042) (FAA)

TAKEOFF OBSTACLE NOTES:

Rwy 16, trees and poles beginning 45' from DER, 272' right of centerline to 305' left of centerline, up to 89' AGL/299' MSL.
Rwy 34, trees beginning 18' from DER, 325' right of centerline to 380' left of centerline, up to 61' AGL/351' MSL.

BRYAN, TX

COULTER FIELD (CFD)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 05JUL07 (07186) (FAA)

TAKEOFF OBSTACLE NOTES:

Rwy 15, vehicle on road 266' from DER, on centerline, 17' AGL/386' MSL.
Multiple trees and poles beginning 169' from DER, 339' right of centerline, up to 20' AGL/389' MSL.
Multiple trees and poles beginning 203' from DER, 245' left of centerline, up to 35' AGL/400' MSL.
Rwy 33, multiple poles and T-L towers beginning 36' from DER, 207' left of centerline, up to 35' AGL/382' MSL.
Trees 508' from DER, 290' right of centerline, 25' AGL/371' MSL.

CALDWELL, TX

CALDWELL MUNI (RWV)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 20SEP12 (12264) (FAA)

TAKEOFF MINIMUMS:

Rwy 33, 300-1 or std. w/min. climb of 778' per NM to 800.

TAKEOFF OBSTACLE NOTES:

Rwy 15, trees beginning 323' from DER, left and right of centerline, up to 40' AGL/399' MSL.
Train on tracks 372' from DER, left and right of centerline, up to 23' AGL/382' MSL.
Power lines beginning 1896' from DER, left and right of centerline, up to 100' AGL/499' MSL.
Rwy 33, trees beginning 5' from DER, left and right of centerline, up to 40' AGL/449' MSL.
Power lines beginning 925' from DER, left and right of centerline, up to 50' AGL/499' MSL.
Water tank 3624' from DER, 1031' left of centerline 215' AGL/648' MSL.

CENTER, TX

CENTER MUNI (F17)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 29JUL10 (10210) (FAA)

DEPARTURE PROCEDURE:

Rwy 17, climb heading 167° to 1000 before turning right.

TAKEOFF OBSTACLE NOTES:

Rwy 17, numerous trees beginning 326' from DER, 432' right and left of centerline, up to 100' AGL/414' MSL.
Vehicle on road 234' from DER, 530' left of centerline, up to 15' AGL/314' MSL.
Rwy 35, numerous trees beginning 1724' from DER, 388' left and right of centerline, up to 100' AGL/459' MSL.
Vehicle on road 1091' from DER, 742' right of centerline, up to 15' AGL/354' MSL.

CLEVELAND, TX

CLEVELAND MUNI (6R3)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 22SEP11 (11265) (FAA)

DEPARTURE PROCEDURE:

Rwy 16, climb heading 157° to 1400 before turning right.

Rwy 34, climb heading 312° to 2000 before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 16, trees beginning abeam DER, right and left of centerline, up to 100' AGL/239' MSL.

Rwy 34, trees beginning 120' from DER, 243' left of centerline, up to 100' AGL/259' MSL.

Trees and poles beginning 225' from DER, 363' right of centerline, up to 100' AGL/220' MSL.

Vehicles on road 738' from DER, right and left of centerline, up to 19' AGL/169' MSL.

COLLEGE STATION, TX

EASTERWOOD FIELD (CLL)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 4A 28FEB19 (19059) (FAA)

DEPARTURE PROCEDURE:

Rwy 35, climb heading 346° to 900 before turning right .

TAKEOFF OBSTACLE NOTES:

Rwy 11, traverse way 5' from DER, 275' right of centerline, 322' MSL.

Tree 8' from DER, 497' right of centerline, 40' AGL/346' MSL.

Tree 10' from DER, 323' right of centerline, 39' AGL/347' MSL.

Pole 10' from DER, 55' left of centerline, 2' AGL/312' MSL.

Tree, traverse way beginning 44' from DER, 162' right of centerline, up to 44' AGL/352' MSL.

Electrical system 139' from DER, 498' left of centerline, 315' MSL.

Tree 496' from DER, 30' left of centerline, 42' AGL/325' MSL.

Trees beginning 497' from DER, 101' left of centerline, up to 331' MSL.

Elevator, building beginning 1888' from DER, 704' left of centerline, up to 64' AGL/366' MSL.

Transmission line 2483' from DER, 1148' left of centerline, 374' MSL.

Rwy 29, pole 11' from DER, 55' right of centerline, 1' AGL/320' MSL.

Tree 30' from DER, 414' left of centerline, 322' MSL.

Tree 135' from DER, 530' left of centerline, 343' MSL.

Trees beginning 305' from DER, 533' left of centerline, up to 361' MSL.

Trees beginning 536' from DER, 561' right of centerline, up to 346' MSL.

Tree 838' from DER, 665' right of centerline, 348' MSL.

Trees beginning 1010' from DER, 371' left of centerline, up to 362' MSL.

Pole beginning 1083' from DER, 692' right of centerline, up to 358' MSL.

Trees beginning 1174' from DER, 244' left of centerline, up to 363' MSL.

Tree, pole beginning 1257' from DER, 251' left of centerline, up to 365' MSL.

Trees beginning 1429' from DER, 420' right of centerline, up to 366' MSL.

Trees beginning 1542' from DER, 528' right of centerline, up to 370' MSL.

Pole beginning 1735' from DER, 278' left of centerline, up to 42' AGL/367' MSL.

Trees beginning 1865' from DER, 87' right of centerline, up to 379' MSL.

Tree, pole beginning 1879' from DER, 37' left of centerline, up to 49' AGL/369' MSL.

Trees beginning 1945' from DER, 65' left of centerline, up to 48' AGL/371' MSL.

Tree 2059' from DER, 378' left of centerline, 372' MSL.

Rwy 35, pole 11' from DER, 55' left of centerline, 1' AGL/321' MSL.

Sign 23' from DER, 251' left of centerline, 322' MSL.

Tree 232' from DER, 552' left of centerline, 38' AGL/361' MSL.

Trees beginning 297' from DER, 460' left of centerline, up to 41' AGL/364' MSL.

Tree 774' from DER, 598' right of centerline, 341' MSL.

Tree 808' from DER, 607' right of centerline, 349' MSL.

Tree, building beginning 883' from DER, 235' left of centerline, up to 366' MSL.

Tree 1085' from DER, 649' right of centerline, 355' MSL.

Tree 1181' from DER, 719' right of centerline, 356' MSL.

Pole 1552' from DER, 818' left of centerline, 376' MSL.

Trees beginning 1740' from DER, 751' left of centerline, up to 380' MSL.

CROCKETT, TX

HOUSTON COUNTY (DKR)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 15DEC11 (11349) (FAA)

TAKEOFF MINIMUMS:

Rwy 2, 400-2 or std. w/min. climb of 280' per NM to 800.

Rwy 20, 300-1½ or std. w/min. climb of 459'per NM to 700.

TAKEOFF OBSTACLE NOTES:

Rwy 2, multiple trees beginning 57' from DER, 61' right of centerline, up to 50' AGL/399' MSL.

Multiple trees and terrain beginning 27' from DER, 109' left of centerline, up to 50' AGL/409' MSL.

Tower 1.5 NM from DER, 2864' left of centerline 233' AGL/623' MSL.

Rwy 20, multiple towers beginning 4567' from DER, 1025' right of centerline, up to 200' AGL/529' MSL.

EAGLE LAKE, TX

EAGLE LAKE (ELA)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 05DEC19 (19339) (FAA)

TAKEOFF MINIMUMS:

Rwy 17, 300-2¼, or std. w/min. climb of 210' per NM to 400.

TAKEOFF OBSTACLE NOTES:

Rwy 17, vehicles on road, tree, vegetation beginning 38' from DER, 126' left of centerline, up to 197' MSL.
Tree 153' from DER, 110' left of centerline, 202' MSL.
Vehicles on road, tree beginning 155' from DER, 6' right of centerline, up to 197' MSL.
Trees beginning 155' from DER, 12' left of centerline, up to 36' AGL/216' MSL.
Trees, vehicles on road beginning 216' from DER, 205' right of centerline, up to 212' MSL.
Trees beginning 270' from DER, 357' left of centerline, up to 40' AGL/220' MSL.
Tree 1682' from DER, 458' left of centerline, 233' MSL.
Tower 2588' from DER, 792' left of centerline, 192' AGL/317' MSL.
Tower 1.7 NM from DER, 3144' right of centerline, 270' AGL/443' MSL.
Rwy 35, terrain beginning 5' from DER, 287' left of centerline, up to 186' MSL.
Terrain 9' from DER, 270' right of centerline, 185' MSL.
Trees beginning 96' from DER, 271' right of centerline, up to 17' AGL/199' MSL.
Vegetation 116' from DER, 366' left of centerline, 193' MSL.
Trees, vehicles on road, pole beginning 323' from DER, 127' left of centerline, up to 219' MSL.
Tree 641' from DER, 21' right of centerline, 200' MSL.
Tree 696' from DER, 31' right of centerline, 202' MSL.
Tree, vehicles on road beginning 702' from DER, 16' right of centerline, up to 207' MSL.
Pole 1055 ' from DER, 441' right of centerline, 219' MSL.
Tree, poles beginning 1062' from DER, 580' right of centerline, up to 223' MSL.

EDNA, TX

JACKSON COUNTY (26R)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 10DEC15 (15344) (FAA)

TAKEOFF OBSTACLE NOTES:

Rwy 15, trees beginning 758' from DER, left and right of centerline, up to 20' AGL/84' MSL.
Rwy 33, vehicle on road beginning 292' from DER, 576' left of centerline, up to 15' AGL/79' MSL.
Power poles beginning 783' from DER, 397' left of centerline, 40' AGL/104' MSL.
Power pole 1169' from DER, 506' right of centerline, 40' AGL/104' MSL.

GALVESTON, TX

SCHOLES INTL AT GALVESTON (GLS)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 5 22AUG13 (13234) (FAA)

DEPARTURE PROCEDURE:

Rwy 32, climb heading 318° to 800 before turning left.

TAKEOFF OBSTACLE NOTES:

Rwy 14, building 2614' from DER, 376' right of centerline, 76' AGL/81' MSL.
Rwy 18, buildings beginning 2560' from DER, 284' left of centerline, up to 121' AGL/178' MSL.
T-L tower 636' from DER, 551' right of centerline, 55' AGL/60' MSL.
Trees and poles beginning 50' from DER, 75' right of centerline, up to 60' AGL/65' MSL.
Rwy 32, crane 4434' from DER, 1081' left of centerline, 131' AGL/131' MSL.
Rwy 36, bush 419' from DER, 577' left of centerline, 12' AGL/17' MSL.
Tree 526' from DER, 371' left of centerline, 14' AGL/19' MSL.
Trees beginning 713' from DER, 383' right of centerline, up to 27' AGL/32' MSL.

GIDDINGS, TX

GIDDINGS-LEE COUNTY (GYB)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 29JUL10 (10210) (FAA)

TAKEOFF OBSTACLE NOTES:

Rwy 17, numerous trees beginning 720' from DER, 58' right of centerline, up to 50' AGL/479' MSL.
Numerous trees beginning 754' from DER, 340' left of centerline, up to 50' AGL/479' MSL.
Rwy 35, numerous trees beginning 613' from DER, 272' right of centerline, up to 50' AGL/539' MSL.
Numerous trees beginning 558' from DER, 265' left of centerline, up to 50' AGL/559' MSL.
Vehicle on road 516' from DER, 246' left of centerline, 15' AGL/514' MSL.

HOUSTON, TX

CONROE-NORTH HOUSTON RGNL (CXO)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 4 22JUN17 (17173) (FAA)

TAKEOFF OBSTACLE NOTES:

Rwy 01, tree 829' from DER, 548' right of centerline, 297' MSL.
Tree 1252' from DER, 553' right of centerline, 312' MSL.
Trees beginning 1609' from DER, 300' left of centerline, up to 322' MSL.
Trees beginning 3635' from DER, 464' left of centerline, up to 327' MSL.
Tree 3830' from DER, 580' right of centerline, 347' MSL.
Tree 4658' from DER, 135' right of centerline, 348' MSL.
Rwy 14, NAVAID 399' from DER, 266' right of centerline, 20' AGL/255' MSL.
Tree 1478' from DER, 691' right of centerline, 291' MSL.
Tree 1653' from DER, 682' left of centerline, 294' MSL.
Tree 2129' from DER, 80' right of centerline, 306' MSL.
Tree 2153' from DER, 407' left of centerline, 300' MSL.
Rwy 19, tree 1' from DER, 474' left of centerline, 292' MSL.
Trees beginning 16' from DER, 264' left of centerline, up to 295' MSL.
Tree 67' from DER, 322' right of centerline, 263' MSL.
Trees beginning 855' from DER, 324' right of centerline, up to 303' MSL.
Trees beginning 2139' from DER, 65' right of centerline, up to 316' MSL.
Trees beginning 2365' from DER, 331' left of centerline, up to 312' MSL.
Trees beginning 2475' from DER, 158' left of centerline, up to 315' MSL.
Tree 3423' from DER, 123' right of centerline, 323' MSL.

DAVID WAYNE HOOKS MEMORIAL (DWH)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3 05JUN08 (08157) (FAA)

TAKEOFF MINIMUMS:

Rwys 17L, 35R, NA-Environmental.
Waterways 17, 35, NA - air traffic.

TAKEOFF OBSTACLE NOTES:

Rwy 17R, multiple trees beginning 708' from DER, 68' left of centerline, up to 71' AGL/220' MSL.
Multiple hangars beginning 433' from DER, 515' left of centerline, up to 37' AGL/182' MSL.
DME antenna 653' from DER, 256' left of centerline, 13' AGL/162' MSL.
Multiple trees and pole beginning 85' from DER, 294' right of centerline, up to 45' AGL/189' MSL.
Rwy 35L, multiple trees and poles beginning 144' from DER, 32' left of centerline, up to 79' AGL/238' MSL.
Multiple hangars and buildings beginning 85' from DER, 9' left of centerline, up to 53' AGL/202' MSL.
Multiple trees, towers and pole beginning 100' from DER, 124' right of centerline, up to 93' AGL/247' MSL.
Vehicle and road 315' from DER, on centerline 15' AGL/166' MSL.
Building 894' from DER, 231' right of centerline, 23' AGL/173' MSL.

ELLINGTON (EFD)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3 10JAN13 (13010) (FAA)

TAKEOFF MINIMUMS:

Rwy 22, 200-1¼ or std w/min. climb of 214' per NM to 300, or alternatively with std. takeoff minimums and a normal 200' per NM climb gradient, takeoff must occur no later than 1400' prior to DER.

TAKEOFF OBSTACLE NOTES:

Rwy 4, tree 1526' from DER, 737' right of centerline, 39' AGL/69' MSL.
Rwy 17R, pole 1488' from DER, 817' right of centerline, 40' AGL/74' MSL.
Rwy 22, obstruction light on GS and equipment 321' from DER, 544' left of centerline, 39' AGL/68' MSL.
Sign 213' from DER, 472' right of centerline, 6' AGL/32' MSL.
Antenna on building 1998' from DER, 598' right of centerline, 54' AGL/83' MSL.
Obstruction light on communication equipment and antenna 1626' from DER, 837' right of centerline, 88' AGL/114' MSL.
Obstruction light on water tower and tank 6114' from DER, 1635' right of centerline,159' AGL/192' MSL.
Rwy 35L, trees beginning 1119' from DER, 679' right of centerline, up to 37' AGL/77' MSL.
Crane 2353' from DER, 1024' left of centerline, 58' AGL/97' MSL.
Rwy 35R, tree 1597' from DER, 32' left of centerline, 50' AGL/80' MSL.
Tank 2639' from DER, 1157' right of centerline, 77' AGL/109' MSL.

GEORGE BUSH INTERCONTINENTAL/HOUSTON (IAH)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 05JUN08 (08157) (FAA)

TAKEOFF OBSTACLE NOTES:

Rwy 8L, tree 2866' from DER, 921' left of centerline, 107' AGL/201' MSL.
Multiple trees beginning 2750' from DER, 106' right of centerline, up to 80' AGL/174' MSL.
Rwy 15L, multiple trees 2638' from DER, 758' right of centerline, up to 76' AGL/160' MSL.
Rwy 15R, tower 1431' from DER, 591' left of centerline, 48' AGL/133' MSL.
Antenna on glideslope 1469' from DER, 621' left of centerline, 49' AGL/133' MSL.
Rwy 26R, pole 950' from DER, 660' right of centerline, 40' AGL/129' MSL.
Rwy 33R, tree 2868' from DER, 1027' right of centerline, 73' AGL/172' MSL.

HOUSTON, TX (CON'T)

HOUSTON EXECUTIVE (TME)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 30AUG07 (07242) (FAA)
DEPARTURE PROCEDURE:
Rwy 36, Climb heading 355° to 700 before turning east.
TAKEOFF OBSTACLE NOTES:
Rwy 36, power poles from left to right beginning 703' from DER, 623' left to 685' right of centerline, up to 32' AGL/196' MSL.

HOUSTON-SOUTHWEST (AXH)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 5 05JUN08 (08157) (FAA)
DEPARTURE PROCEDURE:
Rwy 9, climb heading 089° to 2000 before turning left.
Rwy 27, climb heading 269° to 2200 before turning right.
TAKEOFF OBSTACLE NOTES:
Rwy 9, multiple hangars beginning 239' from DER, 360' right of centerline, up to 42' AGL/106' MSL.
Multiple trees beginning 501' from DER, 355' right of centerline, up to 43' AGL/111' MSL.
Multiple hangars beginning 119' from DER, 498' left of centerline, up to 41' AGL/105' MSL.
Pole 332' from DER, 299' left of centerline, 43' AGL/97' MSL.
Antenna 1172' from DER, 658' left of centerline, 51' AGL/115' MSL.
Multiple trees beginning 558' from DER, 68' left of centerline, up to 58' AGL/122' MSL.
Rwy 27, multiple trees beginning 1050' from DER, 40' left of centerline, up to 71' AGL/140' MSL.
Vehicle and road 99' from DER, 291' right of centerline, 15' AGL/83' MSL.
Multiple trees beginning 873' from DER, 514' right of centerline, up to 59' AGL/130' MSL.
Multiple transmission poles beginning 1304' from DER, 131' right of centerline, up to 41' AGL/110' MSL.

PEARLAND RGNL (LVJ)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 4 03APR14 (14093) (FAA)
DEPARTURE PROCEDURE:
Rwy 14, climb heading 142° to 1600 before turning right.
Rwy 32, climb heading 322° to 700 before proceeding on course.
TAKEOFF OBSTACLE NOTES:
Rwy 14, vehicles on road beginning 11' from DER, 450' right of centerline, up to 15' AGL/54' MSL.
Hangers 99' from DER, 521' left of centerline, up to 13' AGL/53' MSL.
Trees beginning 102' from DER, 328' left of centerline, up to 27' AGL/71' MSL.
Trees beginning 199' from DER, 307' right of centerline, up to 64' AGL/98' MSL.
Vehicles on road beginning 364' from DER, left and right of centerline, up to 15' AGL/59' MSL.
Trees beginning 618' from DER, 331' left of centerline, up to 32' AGL/71' MSL.
Trees beginning 983' from DER, 94' right of centerline, up to 20' AGL/90' MSL.
Trees beginning 1251' from DER, 72' left of centerline, up to 60' AGL/94' MSL.
Rwy 32, multiple trees beginning 30' from DER, 142' right of centerline, up to 59' AGL/100' MSL.
Multiple trees beginning 41' from DER, 200' left of centerline, up to 74' AGL/118' MSL.
Pole 68' from DER, 107' right of centerline, 26' AGL/70' MSL.
Multiple buildings and poles beginning 103' from DER, 235' right of centerline, up to 34' AGL/78' MSL.
Vehicles on road 513' from DER, left and right of centerline, 15' AGL/59' MSL.
Multiple poles and trees beginning 605' from DER, left and right of centerline up to 84' AGL/128' MSL.

SUGAR LAND RGNL (SGR)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 7A 20SEP12 (12264) (FAA)
DEPARTURE PROCEDURE:
Rwy 17, climb heading 170° to 1500 before turning eastbound.
Rwy 35, climb heading 350° to 1100 before turning southbound.
TAKEOFF OBSTACLE NOTES:
Rwy 17, multiple poles beginning 436' from DER, 172' right of centerline, up to 44' AGL/124' MSL.
Railroad 110' from DER, 10' left of centerline, 23' AGL/104' MSL.
Multiple poles beginning 135' from DER, 270' left of centerline, up to 44' AGL/ 111' MSL.
Building 1036' from DER, 743' right of centerline, 26' AGL/102' MSL.
Rwy 35, vehicle and road 65' from DER , 2' right of centerline, 15' AGL/ 96' MSL.
Multiple trees beginning 37' from DER , 275' right of centerline, up to 81' AGL/164' MSL.
DME antenna 380' from DER , 253' right of centerline, 24' AGL/100' MSL.
Multiple trees beginning 83' from DER , 65' left of centerline, up to 81' AGL/155' MSL.

HOUSTON, TX (CON'T)

WEST HOUSTON (IWS)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 4 20SEP12 (12264) (FAA)

TAKEOFF OBSTACLE NOTES:

Rwy 15, road and vehicle beginning 74' from DER, 60' left of centerline, up to 15' AGL/123' MSL.
Road and vehicle beginning 342' from DER, 6' right of centerline, up 15' AGL/123' MSL.
Building 177' from DER, 398' left of centerline, 18' AGL/126' MSL.
Light pole 942' from DER, 453' right of centerline, 39' AGL/145' MSL.
Trees beginning 307' from DER, 26 left of centerline, up to 58' AGL/165' MSL.
Trees beginning 130' from DER, 117' right of centerline, up to 100' AGL/208' MSL.
Rwy 33, trees beginning 168' from DER, 9' left of centerline, up to 70' AGL/179' MSL.
Trees beginning 66' from DER, 3' right of centerline, up to 75' AGL/184' MSL.

WILLIAM P HOBBY (HOU)

AMDT 7 21MAY20 (20142) (FAA)

TAKEOFF MINIMUMS:

Rwy 22, std. w/min. climb of 290' per NM to 2700.

DEPARTURE PROCEDURE:

Rwy 17, climb heading 176° to 700 before turning westbound.
Rwy 31L, climb heading 311° to 800 before turning westbound.
Rwy 31R, climb heading 311° to 800 before turning westbound.

TAKEOFF OBSTACLE NOTES:

Rwy 4, lighting beginning 2' from DER, 85' left of centerline, up to 1' AGL/39' MSL.
Lighting beginning 2' from DER, 84' right of centerline, up to 1' AGL/39' MSL.
Lighting beginning 9' from DER, 4' left of centerline, up to 1' AGL/40' MSL.
Lighting beginning 9' from DER, 5' right of centerline, up to 1' AGL/40' MSL.
Building 1562' from DER, 858' right of centerline, 69' AGL/103' MSL.
Tree 2399' from DER, 154' left of centerline, 66' AGL/99' MSL.
Pole beginning 4403' from DER, 767' right of centerline, up to 121' AGL/166' MSL
Rwy 13L, tree, lighting, sign beginning 3' from DER, 39' right of centerline, up to 75' AGL/115' MSL.
Lighting beginning 9' from DER, 39' left of centerline, up to 1' AGL/40' MSL.
Sign 26' from DER, 149' left of centerline, 2' AGL/42' MSL.
Trees, building, tree beginning 174' from DER, 9' left of centerline, up to 75' AGL/115' MSL.
Trees beginning 423' from DER, 24' right of centerline, up to 75' AGL/118' MSL.
Trees beginning 2389' from DER, 55' left of centerline, up to 75' AGL/118' MSL.
Trees 2448' from DER, 1149' right of centerline, 75' AGL/121' MSL.
Rwy 13R, lighting beginning 12' from DER, 85' right of centerline, up to 1' AGL/42' MSL.
Lighting beginning 12' from DER, 94' left of centerline, up to 1' AGL/42' MSL.
Lighting 41' from DER, 115' left of centerline, 3' AGL/44' MSL.
Lighting 42' from DER, 114' right of centerline, 2' AGL/43' MSL.
Fence 87' from DER, 492' left of centerline, 7' AGL/45' MSL.
Traverse way 178' from DER, 497' left of centerline, 55' MSL.
Traverse way 516' from DER, 542' right of centerline, 55' MSL.
Pole, tree beginning 752' from DER, 686' left of centerline, up to 50' AGL/90' MSL.
Trees beginning 1113' from DER, 737' right of centerline, up to 58' AGL/98' MSL.
Tree 1930' from DER, 905' left of centerline, 50' AGL/92' MSL.
Tree 2313' from DER, 948' right of centerline, 58' AGL/101' MSL.
Tree 2365' from DER, 1030' right of centerline, 59' AGL/105' MSL.
Tree 2716' from DER, 1128' right of centerline, 70' AGL/117' MSL.
Rwy 17, lighting beginning 9' from DER, 65' right of centerline, up to 1' AGL/44' MSL.
Trees, sign, lighting, pole, traverse way, building, tree, general utility beginning 17' from DER, 13' left of centerline, up to 75' AGL/121' MSL.
Traverse way beginning 563' from DER, 26' right of centerline, up to 59' MSL.
Pole 605' from DER, 496' right of centerline, 40' AGL/82' MSL.
Pole, tree beginning 721' from DER, 491' right of centerline, up to 40' AGL/84' MSL.
Pole, trees beginning 916' from DER, 44' right of centerline, up to 75' AGL/121' MSL.
Crane, trees, pole beginning 1794' from DER, 2' right of centerline, up to 100' AGL/150' MSL.
Trees beginning 1845' from DER, 3' left of centerline, up to 75' AGL/125' MSL.
Rwy 22, lighting beginning 5' from DER, 84' right of centerline, up to 1' AGL/43' MSL.
Pole, tree beginning 727' from DER, 626' right of centerline, up to 34' AGL/77' MSL.
Pole 1353' from DER, 776' left of centerline, 38' AGL/82' MSL.
Pole 1804' from DER, 968' right of centerline, 64' AGL/109' MSL.
Pole 2942' from DER, 1189' right of centerline, 72' AGL/117' MSL.
Rwy 31L, lighting 9' from DER, 94' right of centerline, 1' AGL/45' MSL.
Lighting beginning 9' from DER, 85' left of centerline, up to 1' AGL/45' MSL.
Electrical system 135' from DER, 482' left of centerline, 7' AGL/50' MSL.
Pole 190' from DER, 508' left of centerline, 40' AGL/83' MSL.
Pole, building beginning 359' from DER, 411' left of centerline, up to 39' AGL/84' MSL.
Building 547' from DER, 273' right of centerline, 27' AGL/69' MSL.
Tree 1391' from DER, 466' left of centerline, 89' MSL.
Tree 2585' from DER, 702' left of centerline, 83' AGL/121' MSL.

CON'T

HOUSTON, TX (CON'T)

WILLIAM P HOBBY (HOU) (CON'T)

Rwy 31R, sign beginning 29' from DER, 82' left of centerline, up to 2' AGL/47' MSL.
Trees, pole beginning 60' from DER, 308' right of centerline, up to 75' AGL/121' MSL.
Building 499' from DER, 525' left of centerline, 27' AGL/69' MSL.
Rwy 35, sign 23' from DER, 200' left of centerline, 2' AGL/46' MSL.
Sign beginning 27' from DER, 126' right of centerline, up to 3' AGL/47' MSL.
Building 66' from DER, 471' left of centerline, 27' AGL/69' MSL.
Trees, pole beginning 345' from DER, 176' right of centerline, up to 75' AGL/121' MSL.
Trees beginning 1264' from DER, 54' left of centerline, up to 75' AGL/121' MSL.

HUNTSVILLE, TX

HUNTSVILLE MUNI (UTS)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

DEPARTURE PROCEDURE:

Rwy 18, climb runway heading to 700 before turning.

JACKSONVILLE, TX

CHEROKEE COUNTY (JSO)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 16FEB06 (06047) (FAA)

DEPARTURE PROCEDURE:

Rwy 14, climb via heading 135° to 1200 before proceeding on course.

JASPER, TX

JASPER COUNTY-BELL FIELD (JAS)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 27AUG09 (09239) (FAA)

TAKEOFF OBSTACLE NOTES:

Rwy 18, trees beginning 2081' from DER, 118' left of centerline, up to 100' AGL/327' MSL.
Trees beginning 690' from DER, 87' right of centerline, up to 100' AGL/329' MSL.
Rwy 36, hangar 320' from DER, 504' left of centerline, 27' AGL/236' MSL.
Trees beginning 534' from DER, 139' left of centerline, up to 100' AGL/329' MSL.
Pole 1968' from DER, 409' left of centerline, 33' AGL/262' MSL.
Bush 94' from DER, 476' right of centerline, 8' AGL/217' MSL.
Trees beginning 514' from DER, 6' right of centerline, up to 100' AGL/354' MSL.
Hangar 1176' from DER, 675' right of centerline, 30' AGL/249' MSL.
Tower 1246' from DER, 611' right of centerline, 40' AGL/258' MSL.

KOUNTZE/SILSBEE, TX

HAWTHORNE FIELD (45R)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 14FEB08 (08045) (FAA)

TAKEOFF OBSTACLE NOTES:

Rwy 13, Terrain 3' from DER, 81' right of centerline, 0' AGL/69' MSL.
Trees beginning 64' from DER, 277' right of centerline, up to 50' AGL/119' MSL.
Tree 111' from DER, 516' left of centerline, 50' AGL/124' MSL.
Terrain 172' from DER, 119' left of centerline, 0' AGL/74' MSL.
Rwy 31, Terrain 109' from DER, 134' left of centerline, 0' AGL/74' MSL.
Tree 536' from DER, 457' right of centerline, 50' AGL/114' MSL.

LA GRANGE, TX

FAYETTE RGNL AIR CENTER (3T5)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 13SEP18 (18256) (FAA)

TAKEOFF OBSTACLE NOTES:

Rwy 16, trees, terrain beginning 146' from DER, 389' right of centerline, up to 45' AGL/378' MSL.
Vehicles on traverse way beginning 199' from DER, 481' left of centerline, up to 15' AGL/336' MSL.
Trees beginning 246' from DER, 454' right of centerline, up to 47' AGL/381' MSL.
Tree 525' from DER, 533' right of centerline, 49' AGL/383' MSL.
Tree 570' from DER, 540' left of centerline, 35' AGL/355' MSL.
Tree, building beginning 760' from DER, 527' right of centerline, up to 45' AGL/384' MSL.
Tree 769' from DER, 569' left of centerline, 43' AGL/361' MSL.
Tree 880' from DER, 524' right of centerline, 45' AGL/386' MSL.
Tree, pole, catenary beginning 926' from DER, 589' right of centerline, up to 48' AGL/390' MSL.
Tree 945' from DER, 532' left of centerline, 45' AGL/364' MSL.
Trees beginning 1005' from DER, 367' left of centerline, up to 46' AGL/365' MSL.
Tree 1183' from DER, 632' right of centerline, 49' AGL/396' MSL.
Trees beginning 1319' from DER, 259' left of centerline, up to 44' AGL/369' MSL.
Trees beginning 1465' from DER, 297' right of centerline, up to 56' AGL/406' MSL.
Trees beginning 1467' from DER, 28' left of centerline, up to 48' AGL/380' MSL.
Tree 1570' from DER, 652' right of centerline, 54' AGL/407' MSL.
Tree, catenary, pole beginning 1625' from DER, 32' right of centerline, up to 56' AGL/411' MSL.
Tree 2052' from DER, 188' left of centerline, 34' AGL/381' MSL.
Tree 2111' from DER, 523' left of centerline, 42' AGL/382' MSL.
Trees beginning 2456' from DER, 51' left of centerline, up to 44' AGL/399' MSL.
Trees beginning 2599' from DER, 5' right of centerline, up to 60' AGL/415' MSL.
Rwy 34, trees beginning 35' from DER, 322' left of centerline, up to 53' AGL/358' MSL.
Tree 200' from DER, 482' right of centerline, 13' AGL/315' MSL.
Tree 262' from DER, 335' right of centerline, 24' AGL/326' MSL.
Trees beginning 310' from DER, 361' right of centerline, up to 29' AGL/331' MSL.
Tree 494' from DER, 396' left of centerline, 58' AGL/360' MSL.
Tree, pole, catenary beginning 513' from DER, 205' left of centerline, up to 61' AGL/365' MSL.
Trees beginning 634' from DER, 389' right of centerline, up to 52' AGL/352' MSL.
Trees beginning 799' from DER, 162' right of centerline, up to 55' AGL/353' MSL.

LA PORTE, TX

LA PORTE MUNI (T41)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 6 29MAY14 (14149) (FAA)

DEPARTURE PROCEDURE:

Rwy 5, climb heading 046° to 500 before proceeding on course.
Rwy 12, climb heading 121° to 500 before turning right.
Rwy 30, climb heading 301° to 700 before turning right.

TAKEOFF OBSTACLE NOTES:

Rwy 5, trees beginning 334' from DER, left and right of centerline, up to 67' AGL/91' MSL.
Poles beginning 973' from DER, 387' left of centerline, up to 40' AGL/64' MSL.
Buildings beginning 319' from DER, left and right of centerline, up to 30' AGL/54' MSL.
Stack 2.3 NM from DER, 3296' left of centerline, 300' AGL/334' MSL.
Rwy 12, poles beginning 127' from DER, left and right of centerline, up to 54' AGL/74' MSL.
Trees beginning 183' from DER, 446' right of centerline, up to 40' AGL/60' MSL.
Building 675' from DER, 411' right of centerline, up to 32' AGL/55' MSL.
Trees beginning 888' from DER, 113' right of centerline, up to 43' AGL/63' MSL.
Rwy 23, buildings beginning 30' from DER, 242' left of centerline, up to 30' AGL/54' MSL.
Buildings beginning 231' from DER, 134' right of centerline, up to 30' AGL/54' MSL.
Trees beginning 243' from DER, 494' right of centerline, up to 67' AGL/91' MSL.
Poles beginning 363' from DER, left and right of centerline, up to 40' AGL/64' MSL.
Vehicle on road beginning 493' from DER, 562' left of centerline, up to 15' AGL/39' MSL.
Trees beginning 573' from DER, 292' left of centerline, up to 67' AGL/91' MSL.
Trees beginning 1123' from DER, 69' right of centerline, up to 67' AGL/91' MSL.
Rwy 30, trees beginning 44' from DER, 331' right of centerline, up to 51' AGL/71' MSL.
Pole 114' from DER, 500' left of centerline, 37' AGL/60' MSL.
Buildings beginning 334' from DER, 355' left of centerline, up to 25' AGL/50' MSL.
Trees beginning 367' from DER, 471' left of centerline, up to 37' AGL/57' MSL.
Building 669' from DER, 415' right of centerline, 30' AGL/55' MSL.
Poles beginning 768' from DER, 427' right of centerline, up to 50' AGL/74' MSL.
Trees beginning 1048' from DER, left and right of centerline, up to 67' AGL/87' MSL.

LIBERTY, TX

LIBERTY MUNI (T78)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 29MAY14 (14149) (FAA)

DEPARTURE PROCEDURE:

Rwy 16, climb heading 161° to 1700 before turning left.

Rwy 34, climb heading 341° to 1000 before turning right.

TAKEOFF OBSTACLE NOTES:

Rwy 16, hangars beginning 4' from DER, 340' right of centerline, up to 21' AGL/91' MSL.
Tree 273' from DER, 401' right of centerline, 28' AGL/96' MSL.
Trees beginning 1067' from DER, 122' left of centerline, up to 76' AGL/146' MSL.
Trees and poles beginning 1166' from DER. 48' right of centerline, up to 85' AGL/155' MSL.
Rwy 34, trees beginning 176' from DER, 262' left of centerline, up to 52' AGL/117' MSL.
Poles beginning 427' from DER, 318' right of centerline, up to 40' AGL/105' MSL.
Poles beginning 451' from DER, 236' left of centerline, up to 39' AGL/106' MSL.
Trees beginning 758' from DER, 101' right of centerline, up to 101' AGL/166' MSL.
Trees beginning 1953' from DER, 40' left of centerline, up to 96' AGL/161' MSL.

LIVINGSTON, TX

LIVINGSTON MUNI (00R)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 05MAY11 (11125) (FAA)

DEPARTURE PROCEDURE:

Rwy 12, climb heading 125° to 1700 before proceeding on course.

Rwy 30, climb heading 305° to 800 before turning south.

TAKEOFF OBSTACLE NOTES:

Rwy 12, trees beginning at DER, right and left of centerline, up to 100' AGL/249' MSL.
Rwy 30, vehicle on road 10' from DER, 492' right of centerline, 10' AGL/159' MSL.
Trees beginning 260' from DER, 304' right of centerline, up to 100' AGL/249' MSL.

LUFKIN, TX

ANGELINA COUNTY (LFK)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 07DEC17 (17341) (FAA)

TAKEOFF OBSTACLE NOTES:

Rwy 7, trees beginning 109' from DER, 333' right of centerline, up to 354' MSL.
Trees beginning 358' from DER, 293' left of centerline, up to 350' MSL.
Trees beginning 467' from DER, 452' right of centerline, up to 365' MSL.
Trees beginning 513' from DER, 302' left of centerline, up to 381' MSL.
Tree 1470' from DER, 328' right of centerline, 366' MSL.
Trees beginning 1477' from DER, 483' right of centerline, up to 367' MSL.
Trees beginning 1599' from DER, 36' left of centerline, up to 387' MSL.
Trees beginning 1618' from DER, 274' right of centerline, up to 369' MSL.
Trees beginning 1636' from DER, 42' right of centerline, up to 376' MSL.
Trees beginning 1977' from DER, 44' right of centerline, up to 379' MSL.
Trees beginning 3207' from DER, 1351' left of centerline, up to 391' MSL.
Tree 3787' from DER, 965' left of centerline, 395' MSL.
Trees beginning 3798' from DER, 1035' left of centerline, up to 403' MSL.
Rwy 16, trees beginning 6' from DER, 384' left of centerline, up to 56' AGL/324' MSL.
Tree 138' from DER, 529' right of centerline, 284' MSL.
Trees beginning 184' from DER, 3' left of centerline, up to 79' AGL/344' MSL.
Tree 260' from DER, 229' right of centerline, 289' MSL.
Tree, rd (n) beginning 264' from DER, 164' right of centerline, up to 320' MSL.
Trees beginning 1333' from DER, 388' right of centerline, up to 324' MSL.
Trees beginning 1932' from DER, 49' right of centerline, up to 327' MSL.
Tree 2612' from DER, 448' right of centerline, 90' AGL/342' MSL.
Rwy 25, tree 265' from DER, 511' right of centerline, 302' MSL.
Trees beginning 403' from DER, 283' right of centerline, up to 354' MSL.
Trees beginning 407' from DER, 555' left of centerline, up to 299' MSL.
Trees beginning 1375' from DER, 605' left of centerline, up to 328' MSL.
Tree 1627' from DER, 629' left of centerline, 330' MSL.
Tree 2655' from DER, 144' left of centerline, 353' MSL.
Tree 3109' from DER, 417' right of centerline, 362' MSL.
Rwy 34, sign 20' from DER, 200' left of centerline, 1' AGL/290' MSL.
Ldg 48' from DER, 457' right of centerline, 303' MSL.
Tree 95' from DER, 328' right of centerline, 330' MSL.
Trees beginning 166' from DER, 314' right of centerline, up to 54' AGL/338' MSL.
Pole and trees beginning 344' from DER, 310' right of centerline, up to 346' MSL.
Vehicles on road 571' from DER, 3' left of centerline, 312' MSL.
Vehicle on road beginning 579' from DER, 75' right of centerline, up to 306' MSL.
Trees beginning 602' from DER, 166' left of centerline, up to 367' MSL.
Trees beginning 620' from DER, 446' right of centerline, up to 354' MSL.
Tree, pole beginning 809' from DER, 230' right of centerline, up to 361' MSL.
Trees beginning 1249' from DER, 233' right of centerline, up to 364' MSL.

MADISONVILLE, TX

MADISONVILLE MUNI (51R)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 31MAY12 (12152) (FAA)

TAKEOFF OBSTACLE NOTES:

Rwy 18, multiple trees and power poles beginning at DER, 179' right of centerline, up to 50' AGL/310' MSL.
Multiple trees and power poles beginning at DER, 200' left of centerline, up to 50' AGL/309' MSL.
Rwy 36, multiple trees and power poles beginning 99' from DER, 50' left of centerline, up to 50' AGL/341' MSL.
Multiple trees beginning 50' from DER, 75' right of centerline, up to 50' AGL/ 346' MSL.

MARLIN, TX

MARLIN (T15)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 10JAN13 (13010) (FAA)

TAKEOFF OBSTACLE NOTES:

Rwy 17, power lines beginning 411' from DER, left and right of centerline, up to 125' AGL/524' MSL.
Building 7' from DER, 155' left of centerline, 30' AGL/439' MSL.
Trees beginning 656' from DER, left and right of centerline, up to 50' AGL/449' MSL.
Building 309' from DER, 100' left of centerline, 30' AGL/439' MSL.
Vehicles in parking lot 364' from DER, on centerline, up to 15' AGL/415' MSL.
Rwy 35, trees 225' from DER, 232' right of centerline, up to 50' AGL/469' MSL.
Trees 181' from DER, 240' left of centerline, up to 50' AGL/459' MSL.
Trees beginning 708' from DER, left and right of centerline, up to 50' AGL/469' MSL.
Vehicles 68' from DER, 347' right of centerline, up to 15' AGL/424' MSL.

MEXIA, TX

MEXIA-LIMESTONE CO (LXY)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 05MAY11 (11125) (FAA)

TAKEOFF MINIMUMS:

Rwy 36, 300-2¼ or std. w/min. climb of 212' per NM to 1000, or alternatively, with std. takeoff minimums and a normal 200' per NM climb gradient, takeoff must occur no later than 1600' prior to DER.

TAKEOFF OBSTACLE NOTES:

Rwy 18, vehicles on road beginning 202' from DER, 400' left of centerline, up to 15' AGL/554' MSL.
Tree 419' from DER, 292' right of centerline, up to 80' AGL/619' MSL.
Rwy 36, trees beginning 179' from DER, 382' right of centerline, up to 80' AGL/619' MSL.
Trees beginning 391' from DER, 315' left of centerline, up to 80' AGL/629' MSL.

NACOGDOCHES, TX

NACOGDOCHES A L MANGHAM JR RGNL (OCH)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2A 22JUN17 (17173) (FAA)

DEPARTURE PROCEDURE:

Rwy 36, climb heading 359° to 1000 before turning right.

TAKEOFF OBSTACLE NOTES:

Rwy 18, trees 47' from DER, 503' left of centerline, 67' AGL/397' MSL.
Trees 1227' from DER, 580' left of centerline, 52' AGL/382' MSL.
Trees 2234' from DER, 939' right of centerline, 71' AGL/431' MSL.
Rwy 36, trees 252' from DER, 485' left of centerline, 81' AGL/401' MSL.
Trees 792' from DER, 513' left of centerline, 87' AGL/447' MSL.
Trees beginning 1957' from DER, 23' left of centerline, up to 70' AGL/470' MSL.
Trees 207' from DER, 492' right of centerline, 58' AGL/388' MSL.
Multiple OL's and trees beginning 661' from DER, 2' right of centerline, up to 74' AGL/434' MSL.
Multiple trees beginning 2290' from DER, 316' right of centerline, up to 87' AGL/487' MSL.

NAVASOTA, TX

NAVASOTA MUNI (60R)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 02FEB84 (84033) (FAA)

DEPARTURE PROCEDURE:

Rwy 35, climb runway heading to 2100 before turning eastbound.

ORANGE, TX

ORANGE COUNTY (ORG)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 22OCT09 (09295) (FAA)

TAKEOFF MINIMUMS:

Rwy 4, 400-1¼ or std. w/ min. climb of 425' per NM to 500.

Rwys 13, 31, NA-Environmental.

TAKEOFF OBSTACLE NOTES:

Rwy 4, trees beginning 893' from DER, 513' right of centerline, up to 30' AGL/87' MSL.
Trees beginning 1856' from DER, 550 left of centerline, up to 30' AGL/66' MSL.
Transmission poles beginning 2518' from DER, left and right of centerline, up to 73' AGL/83' MSL.
Tower 6401' from DER, 1900' left of centerline, 283' AGL/298' MSL.

Rwy 22, trees beginning at DER, left and right of centerline, up to 30' AGL/39' MSL.

PALACIOS, TX

PALACIOS MUNI (PSX)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG-A 26MAY16 (16147) (FAA)

DEPARTURE PROCEDURE:

Rwy 8, climbing right turn heading 125° to 1800 before proceeding on course.

Rwy 13, climb heading 132° to 1100 before turning left.

Rwy 36, climb heading 357° to 1100 before turning right.

TAKEOFF OBSTACLE NOTES:

Rwy 31, bush 20' from DER, 296' right of centerline, 6' AGL/16' MSL.

PALESTINE, TX

PALESTINE MUNI (PSN)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3 30JAN20 (20030) (FAA)

TAKEOFF MINIMUMS: **Rwy 9,** 400-3 w/min. climb of 262’ per NM to 1200 or std. w/min. climb of 316’ per NM to 900 or 1000-3 for VCOA.

VCOA:

Rwy 9, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Palestine Muni at or above 1300 before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 9, trees beginning 201’ from DER, 195’ left of centerline, up to 100’ AGL/381’ MSL.
Trees beginning 207’ from DER, 87’ right of centerline, up to 100’ AGL/378’ MSL.
Trees beginning 2276’ from DER, 216’ left of centerline, up to 100’ AGL/384’ MSL.
Trees beginning 2535’ from DER, 218’ left of centerline, up to 100’ AGL/388’ MSL.
Trees beginning 2538’ from DER, 84’ right of centerline, up to 100’ AGL/388’ MSL.
Trees beginning 2794’ from DER, 221’ left of centerline, up to 100’ AGL/394’ MSL.
Trees beginning 2796’ from DER, 69’ right of centerline, up to 100’ AGL/401’ MSL.
Trees beginning 3052’ from DER, 223’ left of centerline, up to 100’ AGL/401’ MSL.
Trees beginning 4085’ from DER, 233’ left of centerline, up to 100’ AGL/407’ MSL.
Trees beginning 4344’ from DER, 236’ left of centerline, up to 100’ AGL/414’ MSL.
Trees beginning 4350’ from DER, 66’ right of centerline, up to 100’ AGL/407’ MSL.
Trees beginning 4603’ from DER, 238’ left of centerline, up to 100’ AGL/420’ MSL.
Trees beginning 4609’ from DER, 64’ right of centerline, up to 100’ AGL/414’ MSL.
Trees beginning 4862’ from DER, 241’ left of centerline, up to 100’ AGL/427’ MSL.
Trees beginning 4868’ from DER, 61’ right of centerline, up to 100’ AGL/420’ MSL.
Trees beginning 5124’ from DER, 243’ left of centerline, up to 100’ AGL/430’ MSL.
Trees beginning 5127’ from DER, 59’ right of centerline, up to 100’ AGL/430’ MSL.
Tree 5380’ from DER, 549’ left of centerline, 100’ AGL/434’ MSL.
Trees beginning 5386’ from DER, 56’ right of centerline, up to 100’ AGL/437’ MSL.
Trees beginning 5404’ from DER, 54’ right of centerline, up to 100’ AGL/440’ MSL.
Trees beginning 5627’ from DER, 855’ left of centerline, up to 100’ AGL/440’ MSL.
Trees beginning 5639’ from DER, 249’ left of centerline, up to 100’ AGL/443’ MSL.
Tree 5663’ from DER, 1872’ right of centerline, 100’ AGL/443’ MSL.
Tree 5883’ from DER, 2070’ left of centerline, 100’ AGL/447’ MSL.
Trees beginning 5886’ from DER, 251’ left of centerline, up to 100’ AGL/450’ MSL.
Trees beginning 5904’ from DER, 51’ right of centerline, up to 100’ AGL/450’ MSL.
Tree 1 NM from DER, 2073’ left of centerline, 100’ AGL/457’ MSL.
Trees beginning 1 nm from DER, 254’ left of centerline, up to 100’ AGL/460’ MSL.
Trees beginning 1 NM from DER, 48’ right of centerline, up to 100’ AGL/457’ MSL.
Tree 1 NM from DER, 1867’ right of centerline, 100’ AGL/460’ MSL.
Tree 1 NM from DER, 2075’ left of centerline, 100’ AGL/463’ MSL.
Trees beginning 1 NM from DER, 256’ left of centerline, up to 100’ AGL/470’ MSL.
Trees beginning 1 NM from DER, 46’ right of centerline, up to 100’ AGL/463’ MSL.
Tree 1 NM from DER, 2078’ left of centerline, 100’ AGL/473’ MSL.
Trees beginning 1 NM from DER, 43’ right of centerline, up to 100’ AGL/473’ MSL.
Tree 1.1 NM from DER, 2080’ left of centerline, 100’ AGL/483’ MSL.
Trees beginning 1.1 NM from DER, 261’ left of centerline, up to 100’ AGL/489’ MSL.
Trees beginning 1.1 NM from DER, 41’ right of centerline, up to 100’ AGL/479’ MSL.

CON’T

SC-5, 25 FEB 2021 to 22 APR 2021
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PALESTINE, TX (CON'T)

PALESTINE MUNI (PSN) (CON'T)

Rwy 9 (CON'T), trees beginning 1.1 NM from DER, 950' right of centerline, up to 100' AGL/483' MSL.
Tree 1.1 NM from DER, 2083' left of centerline, 100' AGL/493' MSL.
Trees beginning 1.1 NM from DER, 264' left of centerline, up to 100' AGL/499' MSL.
Trees beginning 1.1 NM from DER, 38' right of centerline, up to 100' AGL/486' MSL.
Trees beginning 1.1 NM from DER, 36' right of centerline, up to 100' AGL/493' MSL.
Tree 1.2 NM from DER, 1479' left of centerline, 100' AGL/509' MSL.
Trees beginning 1.2 NM from DER, 267' left of centerline, up to 100' AGL/519' MSL.
Trees beginning 1.2 NM from DER, 33' right of centerline, up to 100' AGL/499' MSL.
Trees beginning 1.2 NM from DER, 269' left of centerline, up to 100' AGL/532' MSL.
Trees beginning 1.2 NM from DER, 30' right of centerline, up to 100' AGL/525' MSL.
Trees beginning 1.3 NM from DER, 272' left of centerline, up to 100' AGL/552' MSL.
Trees beginning 1.3 NM from DER, 12' right of centerline, up to 100' AGL/552' MSL.
Trees beginning 1.3 NM from DER, 274' left of centerline, up to 100' AGL/568' MSL.
Tree 1.4 NM from DER, 2705' left of centerline, 100' AGL/575' MSL.
Trees beginning 1.4 NM from DER, 279' left of centerline, up to 100' AGL/601' MSL.
Trees beginning 1.4 NM from DER, 5' left of centerline, up to 100' AGL/621' MSL.
Tower 2.5 NM from DER, 345' left of centerline, 199' AGL/809' MSL.
Rwy 18, tree abeam DER, 409' left of centerline, 415' MSL.
Tree, terrain beginning 43' from DER, 241' right of centerline, up to 421' MSL.
Trees beginning 80' from DER, 257' left of centerline, up to 435' MSL.
Trees beginning 158' from DER, 166' right of centerline, up to 447' MSL.
Trees beginning 328' from DER, 41' left of centerline, up to 81' AGL/451' MSL.
Trees, vehicle on road beginning 481' from DER, 478' right of centerline, up to 449' MSL.
Tree 594' from DER, 352' right of centerline, 450' MSL.
Trees beginning 695' from DER, 35' right of centerline, up to 463' MSL.
Trees beginning 1561' from DER, 109' right of centerline, up to 465' MSL.
Rwy 27, trees beginning 189' from DER, 149' left of centerline, up to 100' AGL/420' MSL.
Trees beginning 195' from DER, 133' right of centerline, up to 100' AGL/411' MSL.
Rwy 36, tree, terrain beginning 134' from DER, 404' right of centerline, up to 439' MSL.
Tree 178' from DER, 403' left of centerline, 418' MSL.
Tree 200' from DER, 481' left of centerline, 421' MSL.
Trees beginning 432' from DER, 270' left of centerline, up to 434' MSL.
Tree 561' from DER, 481' left of centerline, 452' MSL.
Trees beginning 612' from DER, 306' left of centerline, up to 462' MSL.
Trees beginning 783' from DER, 401' left of centerline, up to 471' MSL.
Tree 990' from DER, 733' right of centerline, 456' MSL.

PORT LAVACA, TX

CALHOUN COUNTY (PKV)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG-A 13SEP18 (18256) (FAA)

TAKEOFF MINIMUMS:

Rwys 5, 23, NA-environmental.

TAKEOFF OBSTACLE NOTES:

Rwy 14, vehicles on road 475' from DER, on centerline, up to 44' MSL.
Rwy 32, vegetation 65' from DER, 408' left of centerline, 34' MSL.
Pole and vehicles on road beginning 547' from DER, 412' right of centerline, up to 35' AGL/60' MSL.
Vehicles on road 570' from DER, 411' left of centerline, up to 45' MSL.

VICTORIA, TX

VICTORIA RGNL (VCT)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 31MAY12 (12152) (FAA)

TAKEOFF MINIMUMS:

Rwys 6, 24, NA - environmental.

TAKEOFF OBSTACLE NOTES:

Rwy 13R, poles, railroad, and tower beginning 796' from DER, 61' right of centerline, up to 59' AGL/161' MSL.
Hopper and tank beginning 1124' from DER, 407' left of centerline, up to 32' AGL/134' MSL.
Rwy 18, DME on building 588' from DER, 414' left centerline, 15' AGL/118' MSL.
Rwy 36, bush 104' from DER, 165' right of centerline, 10' AGL/116' MSL.

WHARTON,TX

WHARTON RGNL (ARM)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 27AUG09 (09239) (FAA)

TAKEOFF OBSTACLE NOTES:

Rwy 32, vehicle on roads beginning 26' from DER, 312' right of centerline, up to 17' AGL/113' MSL.
Buildings beginning 40' from DER, 338' right of centerline, up to 26' AGL/125' MSL.
Poles beginning 140' from DER, 467' right of centerline, up to 43' AGL/142' MSL.
Tree 828' from DER, 509' right of centerline, 28' AGL/127' MSL.
Fence 24' from DER, 288' left of centerline, 4' AGL/103' MSL.
Tree 1147' from DER, 425' left of centerline, 41' AGL/140' MSL.

SC-5, 25 FEB 2021 to 22 APR 2021

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)
20142
L15

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
ANGLETON/LAKE JACKSON, TX	
TEXAS GULF COAST RGNL (LBX)	**ILS or LOC Rwy 17** **RNAV (GPS) Rwy 17** **RNAV (GPS) Rwy 35**
NA when local weather not available.	
BAY CITY, TX	
BAY CITY RGNL (BYY)	**RNAV (GPS) Rwy 13**[1] **RNAV (GPS) Rwy 31**[1] **VOR-A**[2]
[1]NA when local weather not available. [2]Categories A, B, 1100-2; Category C, 1100-3.	
BEAUMONT, TX	
BEAUMONT MUNI (BMT)	**RNAV (GPS) Rwy 13**
Category D, 800-2¼;	
BEAUMONT/PORT ARTHUR, TX	
JACK BROOKS RGNL (BPT)	**ILS or LOC Rwy 12**[12] **RNAV (GPS) Rwy 12**[3] **RNAV (GPS) Rwy 16**[3] **RNAV (GPS) Rwy 30**[3] **RNAV (GPS) Rwy 34**[3] **VOR/DME Rwy 34**[3] **VOR Rwy 12**[3]
NA when local weather not available. [1]ILS, LOC, Categories A, B, 900-2; Category C, D, 900-2½; Category E, 900-2¾. [2]NA when control tower closed. [3]Category E, 900-2¾.	
BRENHAM, TX	
BRENHAM MUNI (11R)	**RNAV (GPS) Rwy 16** **RNAV (GPS) Rwy 34**
NA when local weather not available. Category D, 800-2¼.	
CALDWELL, TX	
CALDWELL MUNI (RWV)	**RNAV (GPS) Rwy 15** **RNAV (GPS) Rwy 33** **VOR/DME-A**
NA when local weather not available.	
COLLEGE STATION, TX	
EASTERWOOD FIELD (CLL)	**ILS or LOC Rwy 35**[12] **LOC BC Rwy 17**[13] **RNAV (GPS) Rwy 11**[34] **RNAV (GPS) Rwy 17**[34] **RNAV (GPS) Rwy 29**[34] **RNAV (GPS) Rwy 35**[34] **VOR Rwy 29**[5] **VOR or TACAN Rwy 11**[34]
[1]NA when control tower closed. [2]LOC, Category D, 900-2¾; Category E, 900-3. [3]Category D, 900-2¾; Category E, 900-3. [4]NA when local weather not available. [5]Category D, 900-2¾.	
CROCKETT, TX	
HOUSTON COUNTY (DKR)	**RNAV (GPS) Rwy 2**
NA when local weather not available.	
EAGLE LAKE, TX	
EAGLE LAKE (ELA)	**RNAV (GPS) Rwy 35**
Category C, 900-2½.	
GALVESTON, TX	
SCHOLES INTL AT GALVESTON (GLS)	**RNAV (GPS) Rwy 14** **RNAV (GPS) Rwy 18**[1] **RNAV (GPS) Rwy 32** **RNAV (GPS) Rwy 36**
Category E 800-2¼. [1]NA when local weather not available.	
GIDDINGS, TX	
GIDDINGS-LEE COUNTY (GYB)	**RNAV (GPS) Rwy 17** **RNAV (GPS) Rwy 35**
NA when local weather not available.	

NAME ALTERNATE MINIMUMS

HEARNE, TX
HEARNE MUNI (LHB)……**RNAV (GPS) Rwy 18**
RNAV (GPS) Rwy 36
NA when local weather not available.

HOUSTON, TX
CONROE-NORTH HOUSTON
RGNL (CXO)……**RNAV (GPS) Rwy 1**
RNAV (GPS) Rwy 14
RNAV (GPS) Rwy 19
RNAV (GPS) Rwy 32
Category D, 800-2¼.

DAVID WAYNE HOOKS
MEMORIAL (DWH)……**RNAV (GPS) Rwy 35L**
NA when local weather not available.

ELLINGTON (EFD)……**ILS Z or LOC Z Rwy 17R[1]**
ILS Z or LOC Z Rwy 22[1]
ILS Z or LOC Z Rwy 35L[1]
RNAV (GPS) Rwy 4[2]
RNAV (GPS) Rwy 17R[2]
RNAV (GPS) Rwy 22[2]
RNAV (GPS) Rwy 35L[2]
[1]LOC, Category E, 800-2¼.
[2]Category E, 800-2¼.

GEORGE BUSH INTERCONTINENTAL/
HOUSTON (IAH)……**ILS or LOC Rwy 27**
NA when local weather not available.

PEARLAND RGNL (LVJ)……**RNAV (GPS) Rwy 32**
NA when local weather not available.

SUGAR LAND
RGNL (SGR)……**ILS or LOC Rwy 35[1]**
RNAV (GPS) Rwy 35
NA when local weather not available.
[1]NA when control tower closed.

WILLIAM P
HOBBY (HOU)……**ILS or LOC Rwy 4[1]**
ILS or LOC Rwy 13R[1]
ILS or LOC Rwy 31L[2]
LOC Rwy 22[3]
RNAV (GPS) Rwy 4[4]
RNAV (GPS) Rwy 13R[4]
RNAV (GPS) Rwy 17[5]
RNAV (GPS) Rwy 22[3]
RNAV (GPS) Rwy 31L[6]
RNAV (GPS) Rwy 35[5]

[1]LOC, Categories C, D, 800-2¼;
Category E, 900-3.
[2]LOC, Categories C, D, 800-2¼.
[3]Category D, 800-2¼; Category E, 800-2¾.
[4]Categories C, D, 800-2¼; Category E, 900-3.
[5]Category D, 800-2¼.
[6]Categories C, D, 800-2¼.

NAME ALTERNATE MINIMUMS

HUNTSVILLE, TX
HUNTSVILLE
MUNI (UTS)……**RNAV (GPS) Rwy 18**
VOR/DME-A
NA when local weather not available.

JACKSONVILLE, TX
CHEROKEE
COUNTY (JSO)……**RNAV (GPS) Rwy 14**
RNAV (GPS) Rwy 32
VOR Rwy 14
NA when local weather not available.

JASPER, TX
JASPER COUNTY-
BELL FIELD (JAS)……**RNAV (GPS) Rwy 18**
RNAV (GPS) Rwy 36
NA when local weather not available.

LA GRANGE, TX
FAYETTE RGNL
AIR CENTER (3T5)……**RNAV (GPS) Rwy 16**
RNAV (GPS) Rwy 34
NA when local weather not available.

LUFKIN, TX
ANGELINA
COUNTY (LFK)……**RNAV (GPS) Rwy 7**
RNAV (GPS) Rwy 16
RNAV (GPS) Rwy 25
RNAV (GPS) Rwy 34
VOR Rwy 16
VOR Rwy 34
Category D, 900-2¾.

NACOGDOCHES, TX
NACOGDOCHES A L MANGHAM JR
RGNL (OCH)……**RNAV (GPS) Rwy 18**
RNAV (GPS) Rwy 36
NA when local weather not available.

ORANGE, TX
ORANGE
COUNTY (ORG)……**RNAV (GPS) Rwy 22**
VOR/DME Rwy 22
NA when local weather not available.

PALACIOS, TX
PALACIOS
MUNI (PSX)……**RNAV (GPS) Rwy 13**
NA when local weather not available.

PALESTINE, TX
PALESTINE
MUNI (PSN)……**RNAV (GPS) Rwy 18**
RNAV (GPS) Rwy 36
NA when local weather not available.

ALTERNATE MINS

21056

NAME	ALTERNATE MINIMUMS	NAME	ALTERNATE
PORT LAVACA, TX			
CALHOUN COUNTY (PKV)	**RNAV (GPS) Rwy 14** **RNAV (GPS) Rwy 32** **VOR/DME-A**		
NA when local weather not available.			
VICTORIA, TX			
VICTORIA RGNL (VCT)	**RNAV (GPS) Rwy 13L** **RNAV (GPS) Rwy 31R** **VOR Rwy 13L** **VOR/DME Rwy 31R**		
NA when local weather not available.			
WHARTON, TX			
WHARTON RGNL (ARM)	**VOR/DME-A**		
NA when local weather not available.			

SC-5, 25 FEB 2021 to 22 APR 2021

ALTERNATE MINS

21056

M3

THERE ARE NO RADAR PROCEDURES FOR SOUTHEAST TEXAS (SC-5)

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12264

LAND AND HOLD-SHORT OPERATIONS (LAHSO)

LAHSO is an acronym for "Land and Hold-Short Operations." These operations include landing and holding short of an intersection runway, an intersecting taxiway, or other predetermined points on the runway other than a runway or taxiway. Measured distance represents the available landing distance on the landing runway, in feet.

Specific questions regarding these distances should be referred to the air traffic manager of the facility concerned. The Aeronautical Information Manual contains specific details on hold-short operations and markings.

CITY/AIRPORT	LDG RWY	HOLD-SHORT POINT	AVBL LDG DIST
HOUSTON, TX			
GEORGE BUSH INTERCONTINENTAL/	26L	TWY NE	9,010 feet
HOUSTON (IAH)	08R	TWY NP	9,019 feet

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12264

20142

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*
BEAUMONT/PORT ARTHUR, TX		
JACK BROOKS RGNL (BPT)	HS 1	South end of Twy B not visible from control twr.
COLLEGE STATION, TX		
EASTERWOOD FIELD (CLL)	HS 1	Rwy holding position marking Twy B and Rwy 11.
HOUSTON, TX		
DAVID WAYNE HOOKS MEMORIAL (DWH)	HS 1	Ramp A and Twy C at Rwy 17R.
	HS 2	Twy E, Twy D, Twy K at Rwy 17L.
	HS 3	Twy E at Rwy 17R-35L.
	HS 4	Int of Twy G and Rwy 17L-35R
	HS 5	Int of Twy H and Rwy 17L-35R
HOUSTON, TX		
CONROE-NORTH HOUSTON RGNL (CXO)	HS 1	Twy F west of Twy D.
HOUSTON, TX		
SUGAR LAND RGNL (SGR)	HS 1	Twy E int with Twy A, Twy A3 from Rwy 17-35.
HOUSTON, TX		
WILLIAM P. HOBBY (HOU)	HS 1	Twy D at Rwy 13L, and Rwy 13R.
	HS 2	Twy G at Rwy 13R.
	HS 3	Twy K1 at Rwy 04.
	HS 4	Twy E at int Rwy 13L.

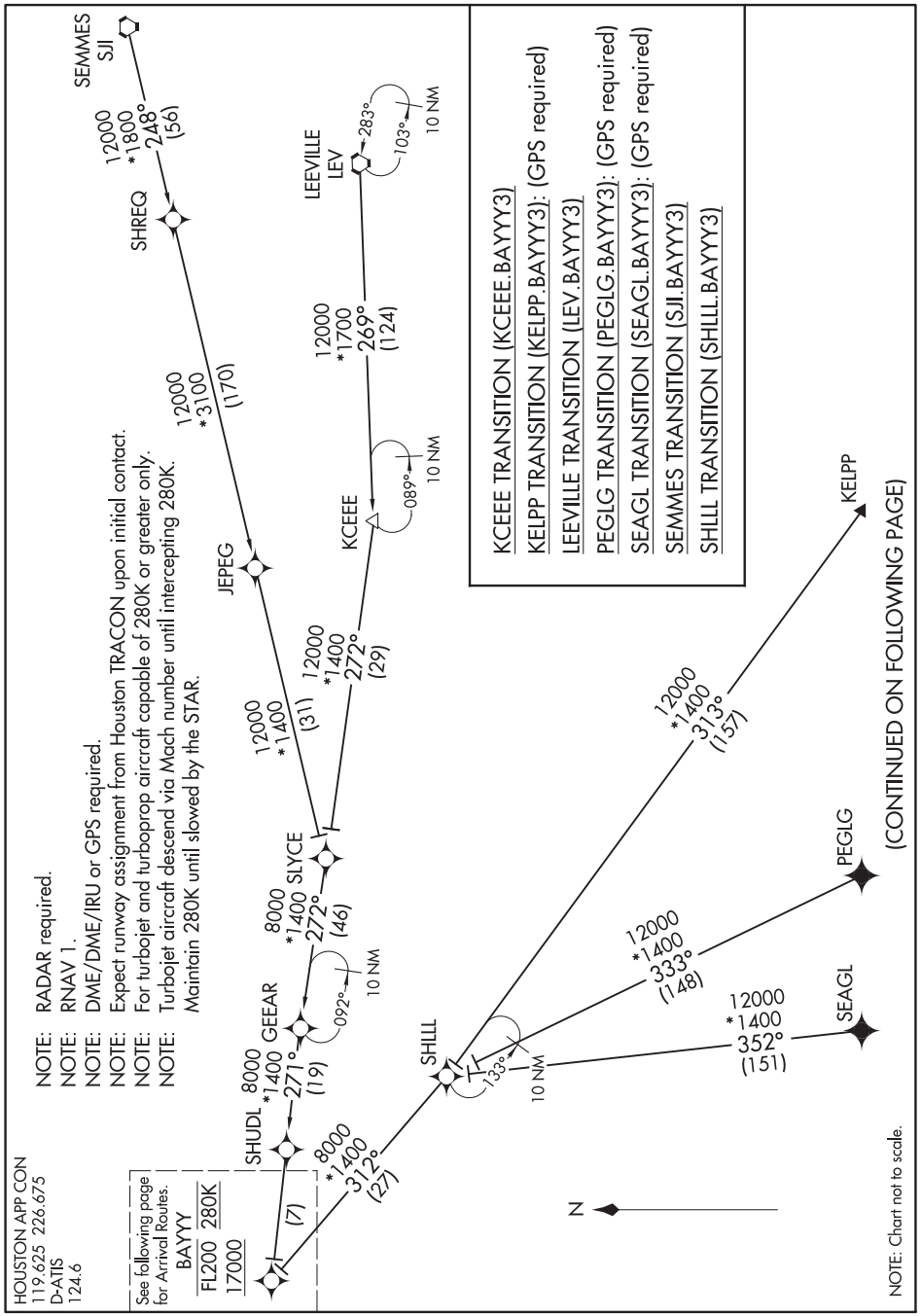
*See appropriate Chart Supplement HOT SPOT table for additional information.

20142

SC-5, 25 FEB 2021 to 22 APR 2021

BAYYY THREE ARRIVAL (RNAV) Transition Routes

HOUSTON, TEXAS



(CONTINUED ON FOLLOWING PAGE)

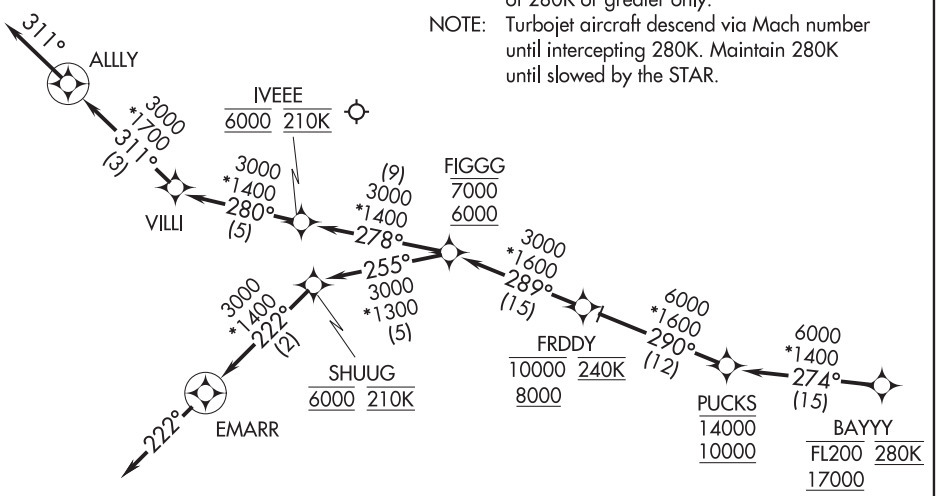
SC-5, 25 FEB 2021 to 22 APR 2021

BAYYY THREE ARRIVAL (RNAV) Transition Routes
HOUSTON, TEXAS

BAYYY THREE ARRIVAL (RNAV) Arrival Routes

HOUSTON APP CON
119.625 226.675
D-ATIS
124.6

NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: Expect runway assignment from Houston TRACON upon initial contact.
NOTE: For turbojet and turboprop aircraft capable of 280K or greater only.
NOTE: Turbojet aircraft descend via Mach number until intercepting 280K. Maintain 280K until slowed by the STAR.



NOTE: Chart not to scale.

ARRIVAL ROUTE DESCRIPTION

From BAYYY on track 274° to cross PUCKS between 10000 and 14000.

LANDING RWY 4: From PUCKS on track 290° to cross FRDDY between 8000 and 10000 and at 240K, then on track 289° to cross FIGGG between 6000 and 7000, then on track 255° to cross SHUUG at 6000 and at 210K, then on track 222° to EMARR, then on track 222°. Expect vectors to final approach course.

LANDING RWYS 13L/R, 17: From PUCKS on track 290° to cross FRDDY between 8000 and 10000 and at 240K, then on track 289° to cross FIGGG between 6000 and 7000, then on track 278° to cross IVEEE at 6000 and at 210K, then on track 280° to VILLI, then on track 311° to ALLLY, then on track 311°. Expect vectors to final approach course.

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(BELLR.BELLR3) 20086

AL-198 (FAA)

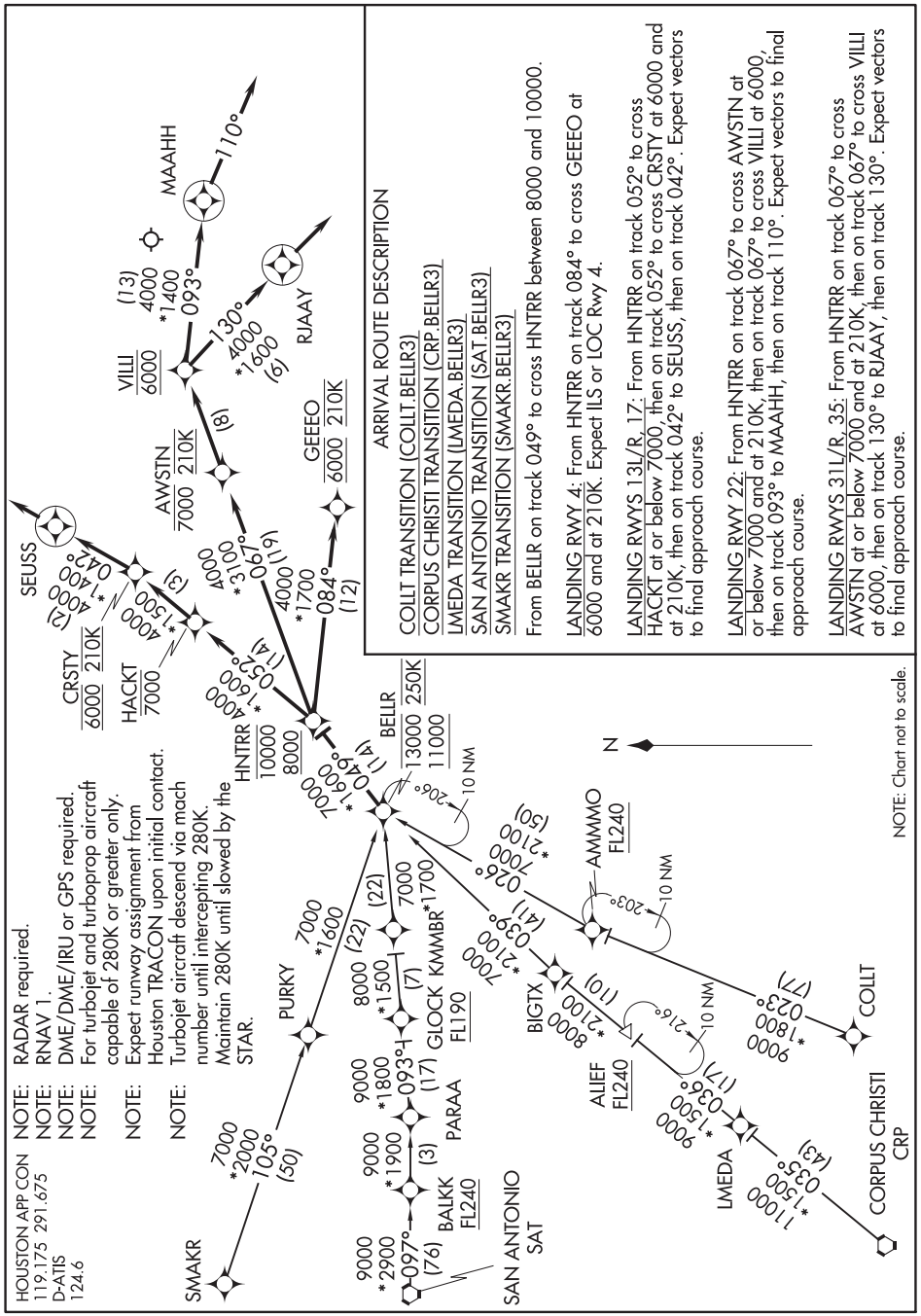
WILLIAM P HOBBY (HOU)

BELLR THREE ARRIVAL (RNAV)

HOUSTON, TEXAS

HOUSTON APP CON 119.175 291.675
D-ATIS 124.6

NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: For turbojet and turboprop aircraft capable of 280K or greater only.
NOTE: Expect runway assignment from Houston TRACON upon initial contact.
NOTE: Turbojet aircraft descend via mach number until intercepting 280K. Maintain 280K until slowed by the STAR.



ARRIVAL ROUTE DESCRIPTION

COLLT TRANSITION (COLLT.BELLR3)
CORPUS CHRISTI TRANSITION (CRP.BELLR3)
LMEDA TRANSITION (LMEDA.BELLR3)
SAN ANTONIO TRANSITION (SAT.BELLR3)
SMAKR TRANSITION (SMAKR.BELLR3)

From BELLR on track 049° to cross HNTRR between 8000 and 10000.

LANDING RWY 4: From HNTRR on track 084° to cross GEEEO at 6000 and at 210K. Expect ILS or LOC Rwy 4.

LANDING RWYS 13L/R, 17: From HNTRR on track 052° to cross HACKT at or below 7000, then on track 052° to cross CRSTY at 6000 and at 210K, then on track 042° to SEUSS, then on track 042°. Expect vectors to final approach course.

LANDING RWY 22: From HNTRR on track 067° to cross AWSTN at or below 7000 and at 210K, then on track 067° to cross VILLI at 6000, then on track 093° to MAAHH, then on track 110°. Expect vectors to final approach course.

LANDING RWYS 31L/R, 35: From HNTRR on track 067° to cross AWSTN at or below 7000 and at 210K, then on track 067° to cross VILLI at 6000, then on track 130° to RJAAY, then on track 130°. Expect vectors to final approach course.

NOTE: Chart not to scale.

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BELLR THREE ARRIVAL (RNAV)

HOUSTON, TEXAS

(BELLR.BELLR3) 10NOV16

WILLIAM P HOBBY (HOU)

BLUBELL FOUR ARRIVAL

HOUSTON, TEXAS

ARRIVAL ROUTE DESCRIPTION

COLLEGE STATION TRANSITION (CLL.BLUBL4): From over CLL VORTAC on CLL R-153 to BLUBL. Thence . . . .

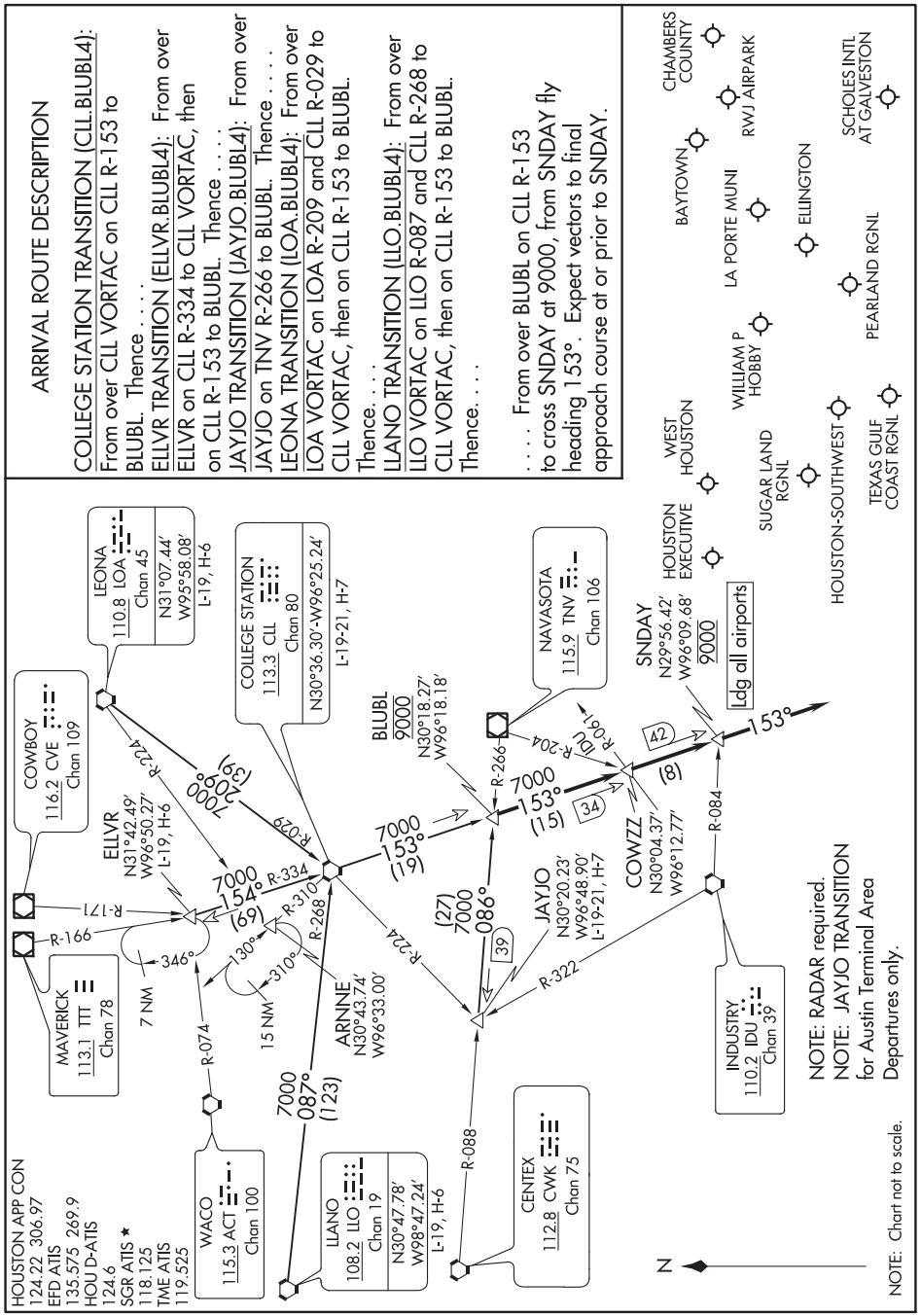
ELLVR TRANSITION (ELLVR.BLUBL4): From over ELLVR on CLL R-334 to CLL VORTAC, then on CLL R-153 to BLUBL. Thence . . . .

JAYJO TRANSITION (JAYJO.BLUBL4): From over JAYJO on TNV R-266 to BLUBL. Thence . . . .

LEONA TRANSITION (LOA.BLUBL4): From over LOA VORTAC on LOA R-209 and CLL R-029 to CLL VORTAC, then on CLL R-153 to BLUBL. Thence. . . .

LLANO TRANSITION (LLO.BLUBL4): From over LLO VORTAC on LLO R-087 and CLL R-268 to CLL VORTAC, then on CLL R-153 to BLUBL. Thence. . . .

. . . . From over BLUBL on CLL R-153 to cross SNDAY at 9000, from SNDAY fly heading 153°. Expect vectors to final approach course at or prior to SNDAY.



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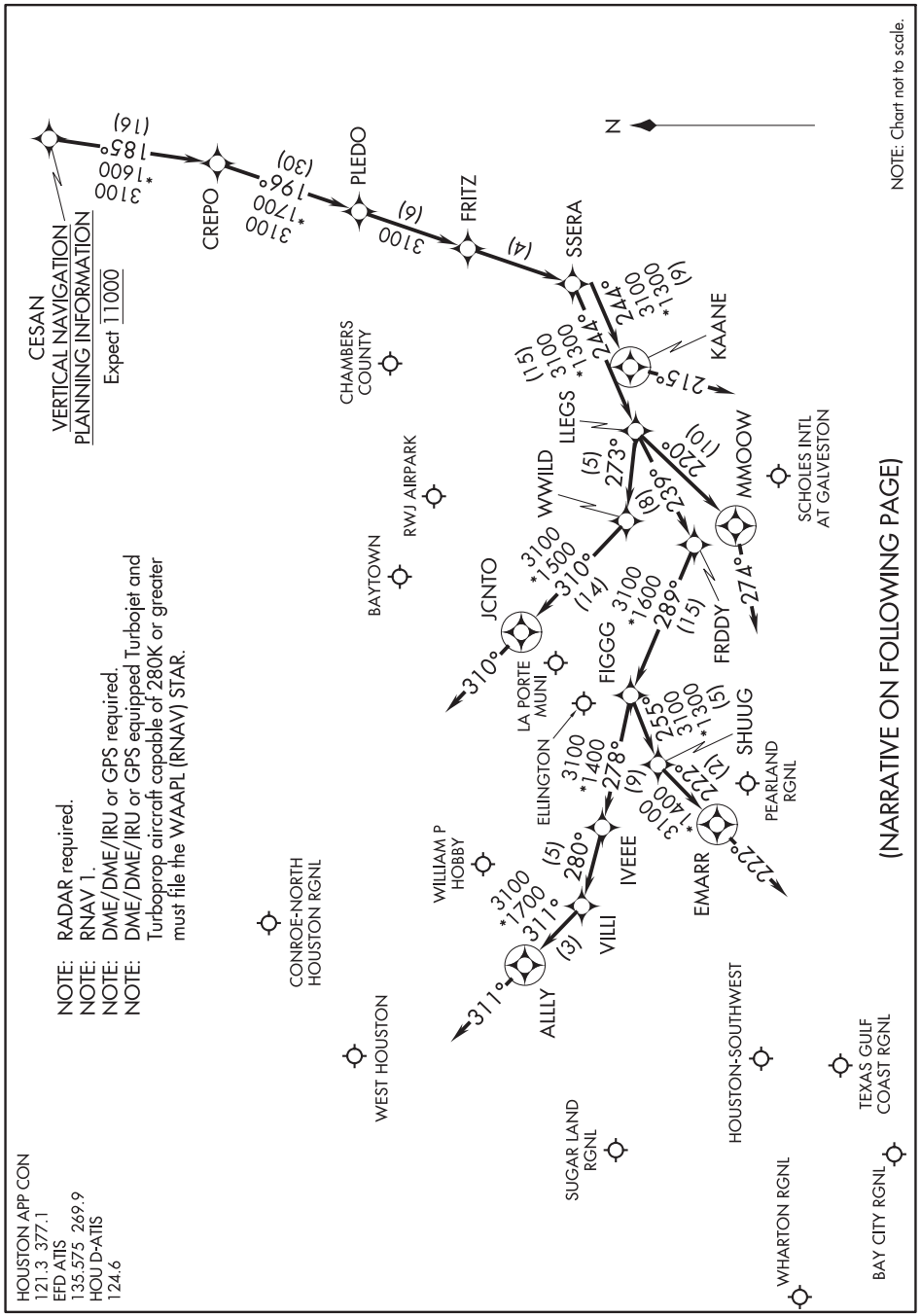
BLUBELL FOUR ARRIVAL

HOUSTON, TEXAS

CESAN FOUR ARRIVAL (RNAV)

HOUSTON, TEXAS



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CESAN FOUR ARRIVAL (RNAV)
HOUSTON, TEXAS

ARRIVAL ROUTE DESCRIPTION

From CESAN on track 185° to CREPO, then on track 196° to PLEDO.

LANDING HOU RWYS 13L/R: From PLEDO on track 196° to FRITZ, then on track 196° to SSERA, then on track 244° to LLEGS, then on track 239° to FRDDY, then on track 289° to FIGGG, then on track 278° to IVEEE, then on track 280° to VILLI, then on track 311° to ALLLY, then on track 311°. Expect vectors to final approach course.

LANDING HOU RWY 4: From PLEDO on track 196° to FRITZ, then on track 196° to SSERA, then on track 244° to LLEGS, then on track 239° to FRDDY, then on track 289° to FIGGG, then on track 255° to SHUUG, then on track 222° to EMARR, then on track 222°. Expect vectors to approach course.

LANDING HOU RWY 22: From PLEDO on track 196° to FRITZ, then on track 196° to SSERA, then on track 244° to LLEGS, then on track 273° to WWILD, then on track 310° to JCNTO, then on track 310°. Expect vectors to final approach course.

LANDING HOU RWYS 31L/R: From PLEDO on track 196° to FRITZ, then on track 196° to SSERA, then on track 244° to LLEGS, then on track 220° to MMOOW, then on track 274°. Expect vectors to final approach course.

ALL OTHER AIRPORTS: From CESAN on track 185° to CREPO, then on track 196° to PLEDO, then on track 196° to FRITZ, then on track 196° to SSERA, then on track 244° to KAANE, then on track 215°. Expect vectors to final approach course.

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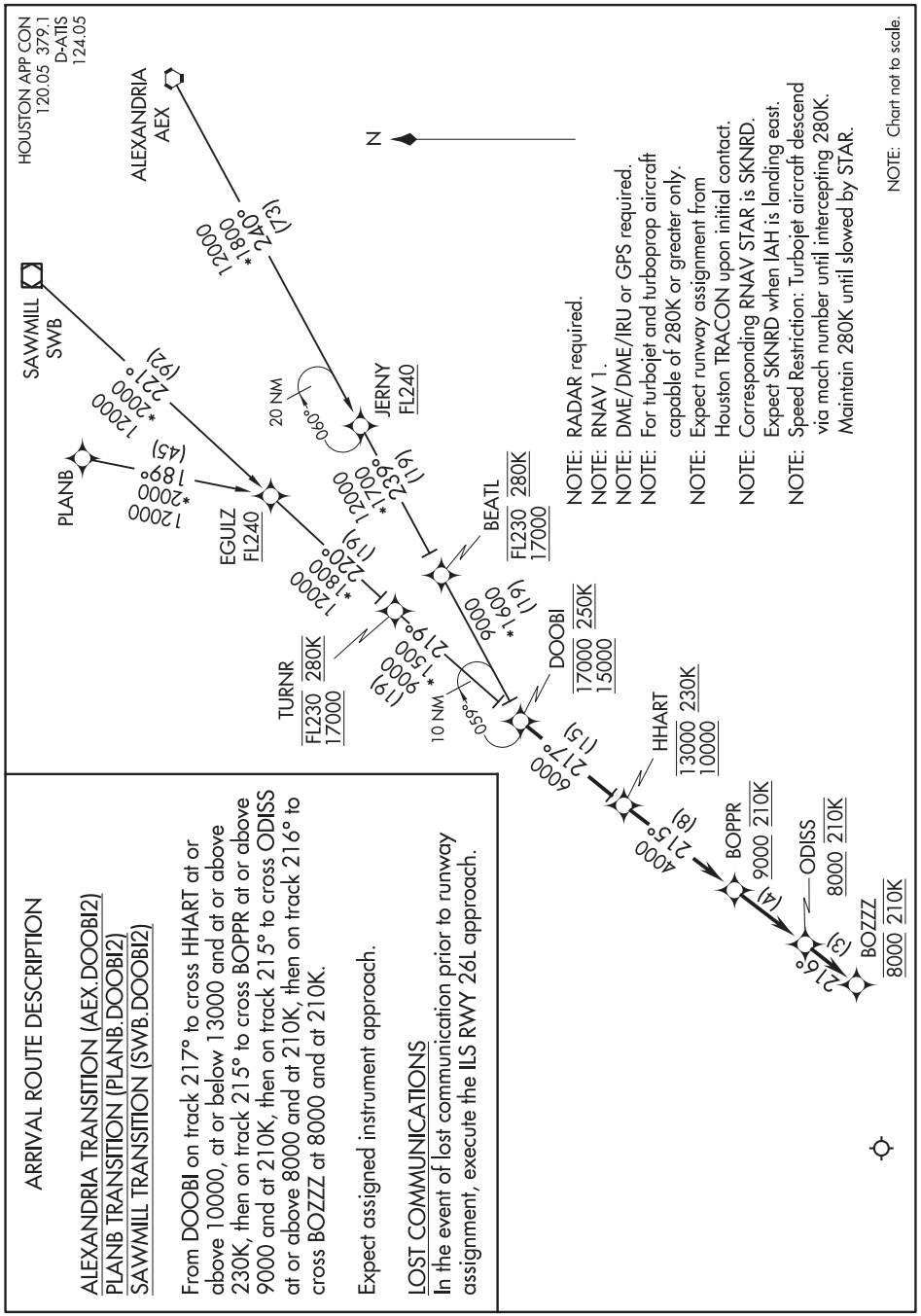
(DOOBI.DOOBI2) 17117

DOOBI TWO ARRIVAL (RNAV)

ST-5461 (FAA)

GEORGE BUSH INTERCONTINENTAL/HOUSTON (IAH)

HOUSTON, TEXAS



ARRIVAL ROUTE DESCRIPTION

ALEXANDRIA TRANSITION (AEX.DOOBI2)
PLANB TRANSITION (PLANB.DOOBI2)
SAWMILL TRANSITION (SWB.DOOBI2)

From DOOBI on track 217° to cross HHART at or above 10000, at or below 13000 and at or above 230K, then on track 215° to cross BOPPR at or above 9000 and at 210K, then on track 215° to cross ODISS at or above 8000 and at 210K, then on track 216° to cross BOZZZ at 8000 and at 210K.

Expect assigned instrument approach.

LOST COMMUNICATIONS

In the event of lost communication prior to runway assignment, execute the ILS RWY 26L approach.

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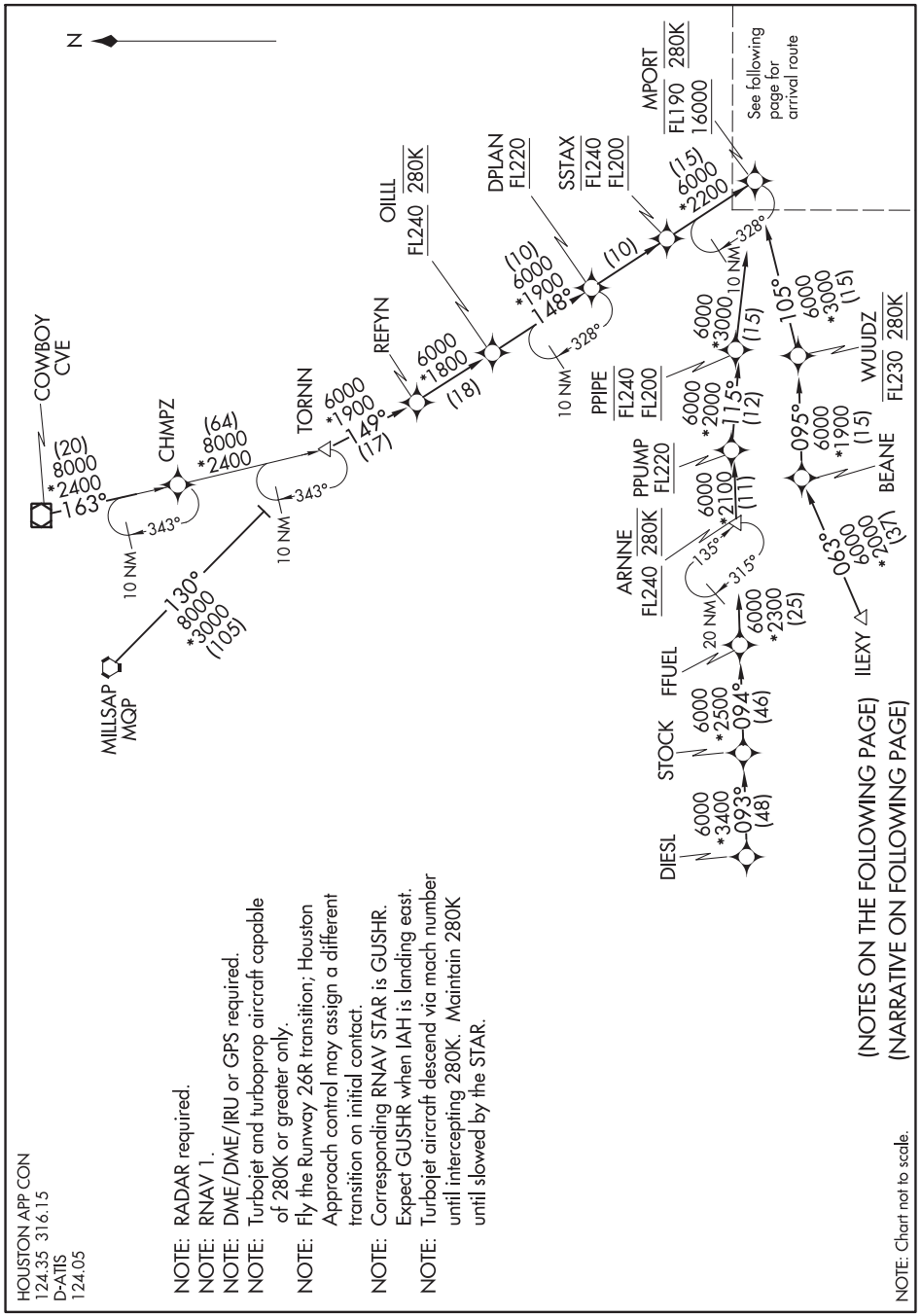
DOOBI TWO ARRIVAL (RNAV)

(DOOBI.DOOBI2) 24JUL14

GEORGE BUSH INTERCONTINENTAL/HOUSTON (IAH)

HOUSTON, TEXAS


N
COWBOY
CVE
(20)
8000
*2400
163°
CHMPZ
(64)
8000
*2400
TORNN
6000
*1900
149°
(17)
REFYN
6000
*1800
(18)
OILLL
FL240 280K
DPLAN
FL220
SSTAX
FL240
FL200
MPORT
FL190 280K
16000
See following page for arrival route
(10)
6000
*1900
148°
(10)
(15)
6000
*2200
10 NM
343°
10 NM
343°
10 NM
328°
10 NM
328°
MILLSAP
MQP
130°
8000
*3000
(105)
PPIPE
FL240
FL200
6000
*3000
(15)
105°
6000
*3000
(15)
WUUDZ
FL230 280K
6000
*2000
115°
(12)
095°
6000
*1900
(15)
BEANE
PPUMP
FL220
6000
*2100
(11)
ARNNE
FL240 280K
135°
315°
20 NM
6000
*2300
(25)
063°
6000
*2000
(37)
ILEXY
FFUEL
6000
*2500
094°
(46)
STOCK
6000
*3400
093°
(48)
DIESL
(NOTES ON THE FOLLOWING PAGE)
(NARRATIVE ON FOLLOWING PAGE)
HOUSTON APP CON
124.35 316.15
D-ATIS
124.05
NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: Turbojet and turboprop aircraft capable of 280K or greater only.
NOTE: Fly the Runway 26R transition; Houston Approach control may assign a different transition on initial contact.
NOTE: Corresponding RNAV STAR is GUSHR. Expect GUSHR when IAH is landing east.
NOTE: Turbojet aircraft descend via mach number until intercepting 280K. Maintain 280K until slowed by the STAR.
NOTE: Chart not to scale.

DRLLR FIVE ARRIVAL (RNAV) Arrival Routes

(MPORT.DRLLR5) 26MAY16

COWBOY TRANSITION (CVE.DRLLR5):

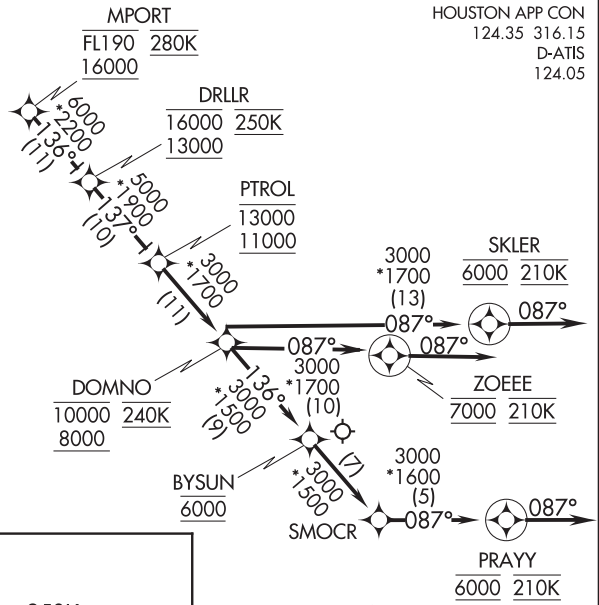
DIESL TRANSITION (DIESL.DRLLR5):

ILEXY TRANSITION (ILEXY.DRLLR5): Austin Terminal Area Departures only.

MILLSAP TRANSITION (MQP.DRLLR5):

OILLL TRANSITION (OILLL.DRLLR5):

TORNN TRANSITION (TORNN.DRLLR5):

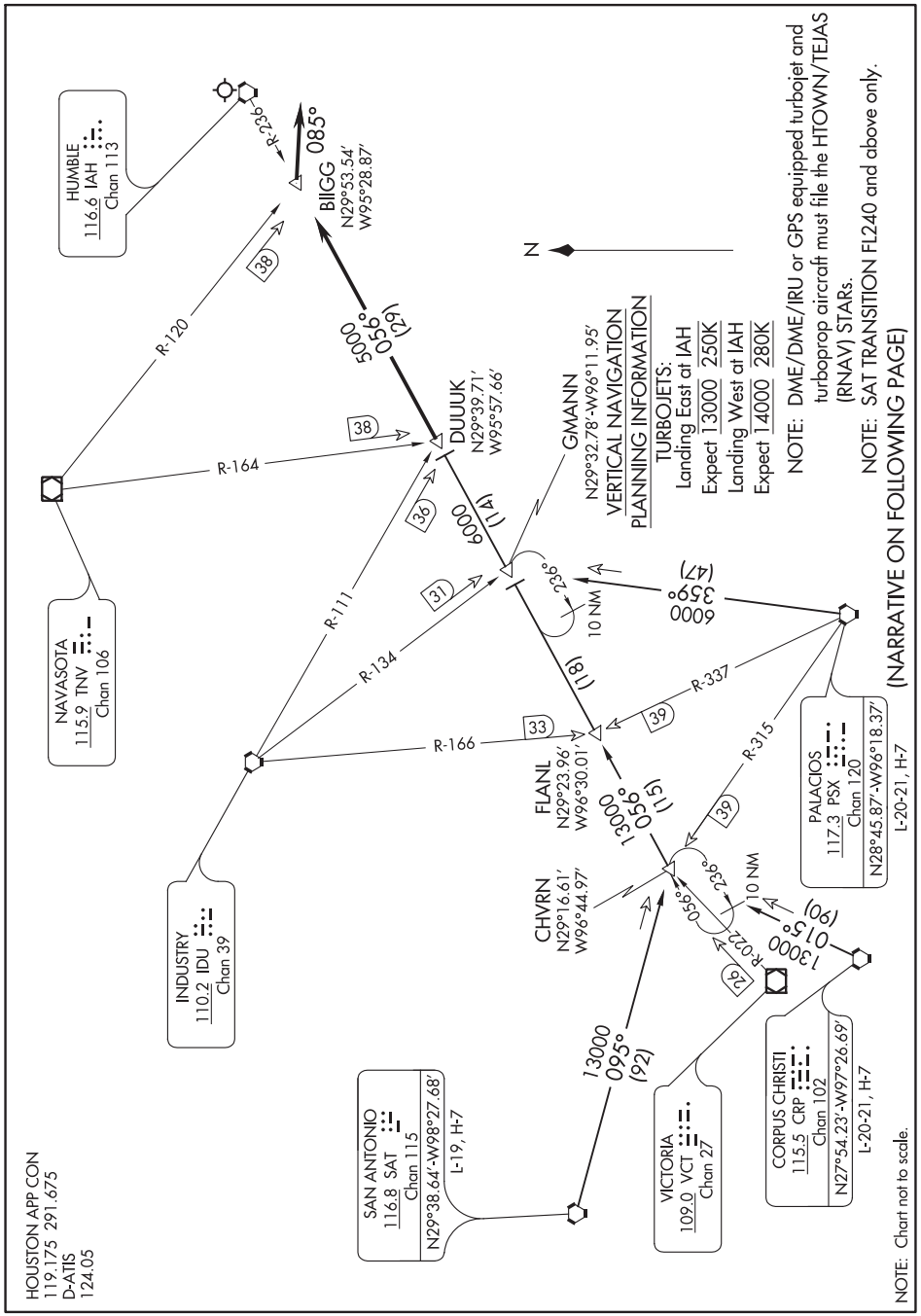


NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: Turbojet and turboprop aircraft capable of 280K or greater only.
NOTE: Fly the Runway 26R transition; Houston Approach control may assign a different transition on initial contact.
NOTE: Corresponding RNAV STAR is GUSHR. Expect GUSHR when IAH is landing east.
NOTE: Turbojet aircraft descend via mach number until intercepting 280K. Maintain 280K until slowed by the STAR.

ARRIVAL ROUTE DESCRIPTION

From MPORT on track 136° to cross DRLLR between 13000 and 16000 and at 250K, then on track 137° to cross PTROL between 11000 and 13000, then on track 137° to cross DOMNO between 8000 and 10000 and at 240K.

LANDING RWY 26L: From DOMNO on track 087° to cross ZOEEE at 7000 and at 210K, then on track 087°. Expect vectors to final approach course.
LANDING RWY 26R: From DOMNO on track 087° to cross SKLER at 6000 and at 210K, then on track 087°. Expect vectors to final approach course.
LANDING RWY 27: From DOMNO on track 136° to cross BYSUN at 6000, then on track 136° to SMOCR, then on track 087° to cross PRAYY at 6000 and at 210K, then on track 087°. Expect vectors to final approach course.


HUMBLE
116.6 IAH
Chan 113
R-229
BIIGG 085°
N29°53.54'
W95°28.87'
R-120
38
5000
095°
(27)
DUUUK
N29°39.71'
W95°57.66'
GMANN
N29°32.78'-W96°11.95'
VERTICAL NAVIGATION
PLANNING INFORMATION
TURBOJETS:
Landing East at IAH
Expect 13000 250K
Landing West at IAH
Expect 14000 280K
NOTE: DME/DME/IRU or GPS equipped turbojet and turboprop aircraft must file the HTOWN/TEJAS (RNAV) STARs.
NOTE: SAT TRANSITION FL240 and above only.
(NARRATIVE ON FOLLOWING PAGE)
R-164
36
6000
(4)
26°
10 NM
6000
359°
(47)
R-111
31
R-134
(8)
R-337
39
NAVASOTA
115.9 TNV
Chan 106
R-166
33
FLANL
N29°23.96'
W96°30.01'
13000
095°
(5)
R-315
PALACIOS
117.3 PSX
Chan 120
N28°45.87'-W96°18.37'
L-20-21, H-7
INDUSTRY
110.2 IDU
Chan 39
CHVRN
N29°16.61'
W96°44.97'
42°
090°
10 NM
R-022
26
13000
015°
(90)
13000
095°
(92)
SAN ANTONIO
116.8 SAT
Chan 115
N29°38.64'-W98°27.68'
L-19, H-7
VICTORIA
109.0 VCT
Chan 27
CORPUS CHRISTI
115.5 CRP
Chan 102
N27°54.23'-W97°26.69'
L-20-21, H-7
HOUSTON APP CON
119.175 291.675
D-ATIS
124.05
NOTE: Chart not to scale.

ARRIVAL ROUTE DESCRIPTION

CORPUS CHRISTI TRANSITION (CRP.DUUUK3): From over CRP VORTAC on CRP R-015 to CHVRN, then on IAH R-236 to DUUUK. Thence . . . .
PALACIOS TRANSITION (PSX.DUUUK3): From over PSX VORTAC on PSX R-359 to GMANN, then on IAH R-236 to DUUUK. Thence . . . .
SAN ANTONIO TRANSITION (SAT.DUUUK3): From over SAT VORTAC on SAT R-095 to CHVRN, then on IAH R-236 to DUUUK. Thence . . . .

. . . . From over DUUUK on IAH R-236 to BIIGG. Depart BIIGG heading 085° for vectors to final approach.

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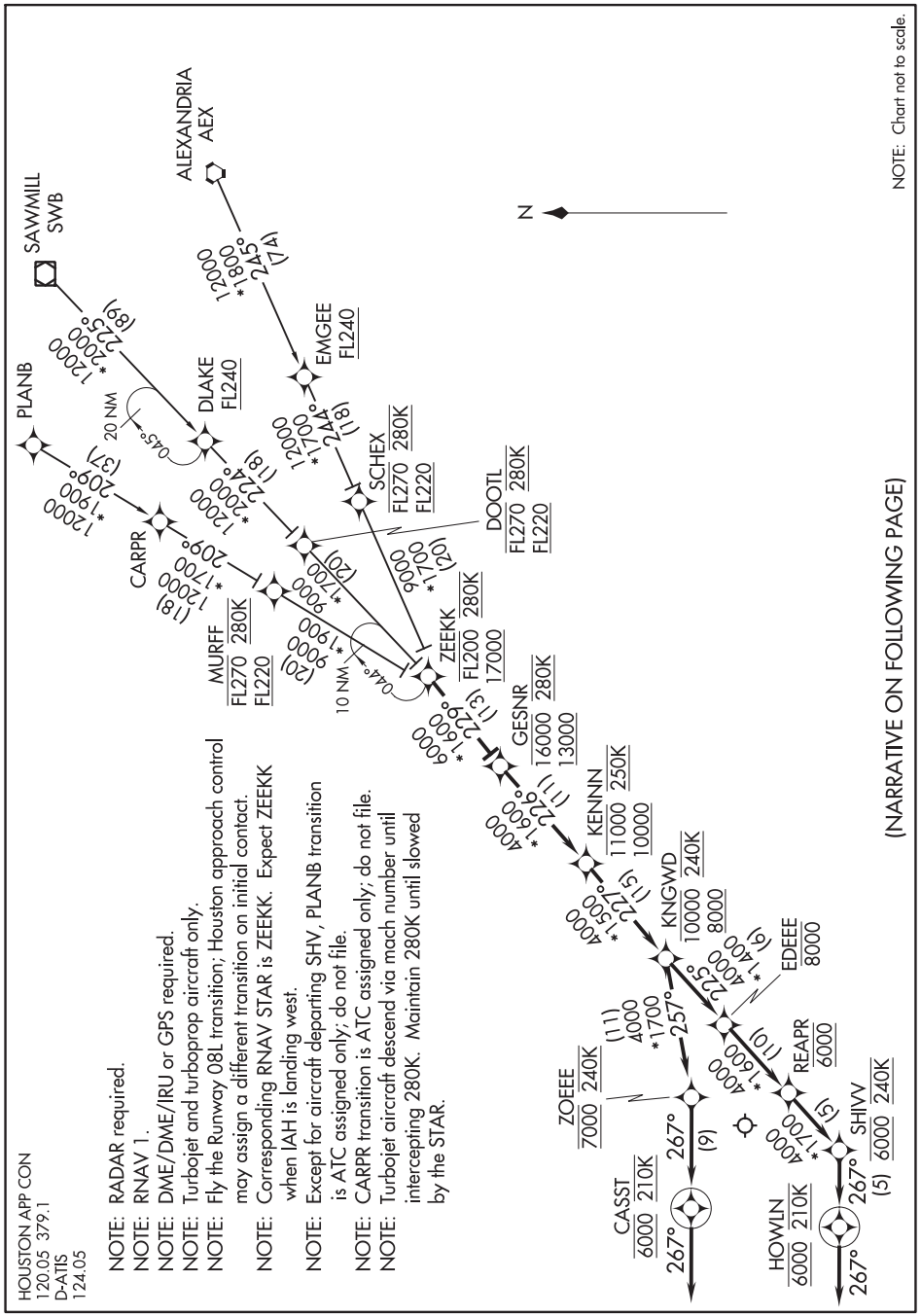
GESNR ONE ARRIVAL (RNAV)

ST-5461 (FAA)



SC-5, 25 FEB 2021 to 22 APR 2021

GESNR ONE ARRIVAL (RNAV)
HOUSTON, TEXAS

ARRIVAL ROUTE DESCRIPTION

ALEXANDRIA TRANSITION (AEX.GESNR1):
CARPR TRANSITION (CARPR.GESNR1):
PLANB TRANSITION (PLANB.GESNR1):
SAWMILL TRANSITION (SWB.GESNR1):

From ZEEKK on track 229° to cross GESNR at or above 13000, at or below 16000 and at 280K.

LANDING RUNWAY 8L: From GESNR on track 226° to cross KENNN at or above 10000, at or below 11000 and at 250K, then on track 227° to cross KNGWD at or above 8000, at or below 10000 and at 240K, then on track 257° to CROSS ZOEEE at 7000 and at 240K, then on track 267° to cross CASST at 6000 and at 210K, then on track 267°. Expect RADAR vectors to final approach course.

LANDING RUNWAYS 8R/9: From GESNR on track 226° to cross KENNN at or above 10000, at or below 11000 and at 250K, then on track 227° to cross KNGWD at or above 8000, at or below 10000 and at 240K, then on track 225° to cross EDEEE at or below 8000, then on track 225° to cross REAPR at 6000, then on track 225° to cross SHIVV at 6000 and at 240K, then on track 267° to cross HOWLN at 6000 and at 210K, then on track 267°. Expect RADAR vectors to final approach course.

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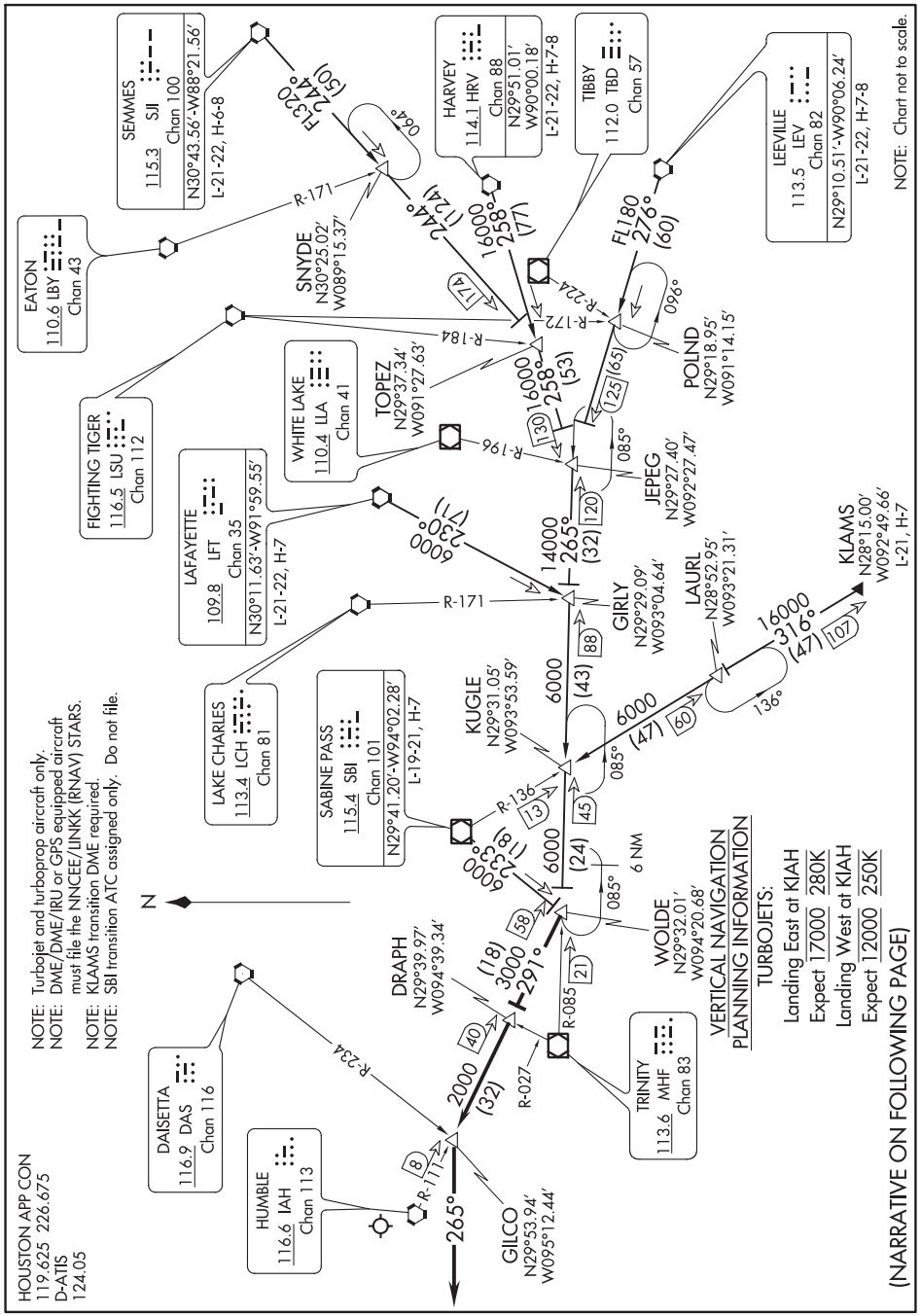

SEMMES
115.3 SJI
Chan 100
N30°43.56'-W88°21.56'
L-21-22, H-6-8
HARVEY
114.1 HRV
Chan 88
N29°51.01'
W90°00.18'
L-21-22, H-7-8
TIBBY
112.0 TBD
Chan 57
LEEVILLE
113.5 LEV
Chan 82
N29°10.51'-W90°06.24'
L-21-22, H-7-8
NOTE: Chart not to scale.
EATON
110.6 LBY
Chan 43
SNYDE
N30°25.02'
W089°15.37'
TOPEZ
N29°37.34'
W091°27.63'
POLND
N29°18.95'
W091°14.15'
WHITE LAKE
110.4 ILA
Chan 41
FIGHTING TIGER
116.5 LSU
Chan 112
LAFAYETTE
109.8 LFT
Chan 35
N30°11.63'-W91°59.55'
L-21-22, H-7
JEPEG
N29°27.40'
W092°27.47'
GIRLY
N29°29.09'
W093°04.64'
LAUREL
N28°52.95'
W093°21.31'
KLAMS
N28°15.00'
W092°49.66'
L-21, H-7
LAKE CHARLES
113.4 LCH
Chan 81
SABINE PASS
115.4 SBI
Chan 101
N29°41.20'-W94°02.28'
L-19-21, H-7
KUGLE
N29°31.05'
W093°53.59'
WOLDE
N29°32.01'
W094°20.68'
DRAPH
N29°39.97'
W094°39.34'
DAISETTA
116.9 DAS
Chan 116
HUMBLE
116.6 IAH
Chan 113
TRINITY
113.6 MHF
Chan 83
GILCO
N29°53.94'
W095°12.44'
N
NOTE: Turbojet and turboprop aircraft only.
NOTE: DME/DME/IRU or GPS equipped aircraft must file the NNCEE/LINKK (RNAV) STARS.
NOTE: KLAMS transition DME required.
NOTE: SBI transition ATC assigned only. Do not file.
HOUSTON APP CON
119.625 226.675
D-ATIS
124.05
VERTICAL NAVIGATION
PLANNING INFORMATION
TURBOJETS:
Landing East at KIAH
Expect 17000 280K
Landing West at KIAH
Expect 12000 250K
(NARRATIVE ON FOLLOWING PAGE)

ARRIVAL ROUTE DESCRIPTION

HARVEY TRANSITION (HRV.GILCO5): From over HRV VORTAC on HRV R-258 to JEPEG, then on MHF R-085 to WOLDE. Thence . . . .
JEPEG TRANSITION (JEPEG.GILCO5): From over JEPEG on MHF R-085 to WOLDE. Thence . . . .
KLAMS TRANSITION (KLAMS.GILCO5): From over KLAMS on SBI R-136 to KUGLE, then on MHF R-085 to WOLDE. Thence . . . .
LAFAYETTE TRANSITION (LFT.GILCO5): From over LFT VORTAC on LFT R-230 to GIRLY, then on MHF R-085 to WOLDE. Thence . . . .
LEEVILLE TRANSITION (LEV.GILCO5): From over LEV VORTAC on LEV R-276 to JEPEG, then on MHF R-085 to WOLDE. Thence . . . .
SABINE PASS TRANSITION (SBI.GILCO5): From over SBI VOR/DME on SBI R-233 to WOLDE. Thence . . . .
SEMMES TRANSITION (SJI.GILCO5): From SJI VORTAC on SJI R-244 to TOPEZ, then on HRV R-258 to JEPEG, then on MHF R-085 to WOLDE. Thence . . . .

. . . .From over WOLDE on IAH R-111 to GILCO.

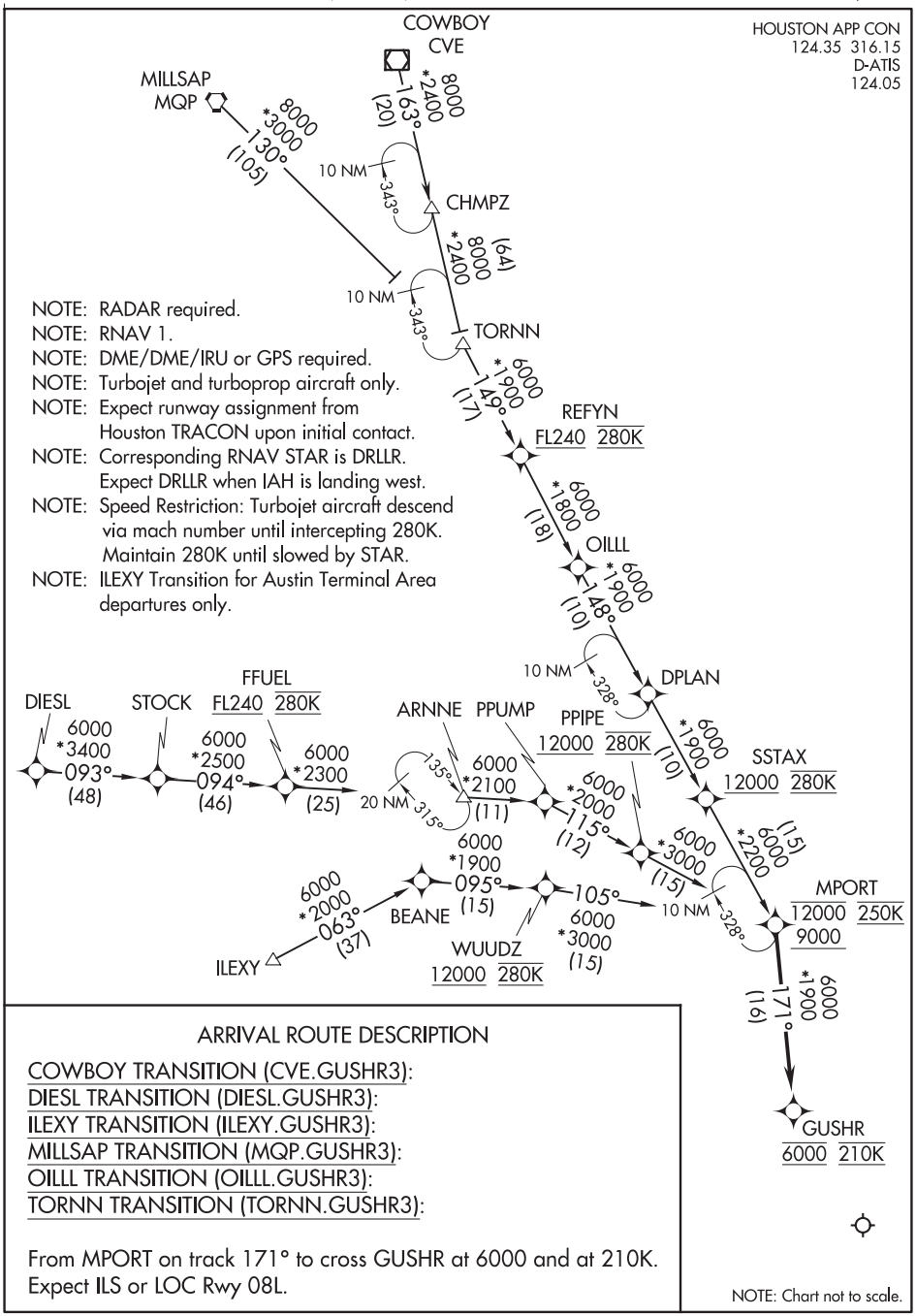
LANDING RUNWAYS 8L/R, 9:
From GILCO fly heading 265° for vectors to final approach course.

FOR ALL OTHER RUNWAYS:
Expect vectors to final approach course at or prior to GILCO.

SC-5, 25 FEB 2021 to 22 APR 2021

GUSHR THREE ARRIVAL (RNAV) ST-5461 (FAA)

HOUSTON, TEXAS



NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: Turbojet and turboprop aircraft only.
NOTE: Expect runway assignment from Houston TRACON upon initial contact.
NOTE: Corresponding RNAV STAR is DRLLR. Expect DRLLR when IAH is landing west.
NOTE: Speed Restriction: Turbojet aircraft descend via mach number until intercepting 280K. Maintain 280K until slowed by STAR.
NOTE: ILEXY Transition for Austin Terminal Area departures only.

ARRIVAL ROUTE DESCRIPTION

COWBOY TRANSITION (CVE.GUSHR3):
DIESL TRANSITION (DIESL.GUSHR3):
ILEXY TRANSITION (ILEXY.GUSHR3):
MILLSAP TRANSITION (MQP.GUSHR3):
OILLL TRANSITION (OILLL.GUSHR3):
TORNN TRANSITION (TORNN.GUSHR3):

From MPORT on track 171° to cross GUSHR at 6000 and at 210K.
Expect ILS or LOC Rwy 08L.

NOTE: Chart not to scale.

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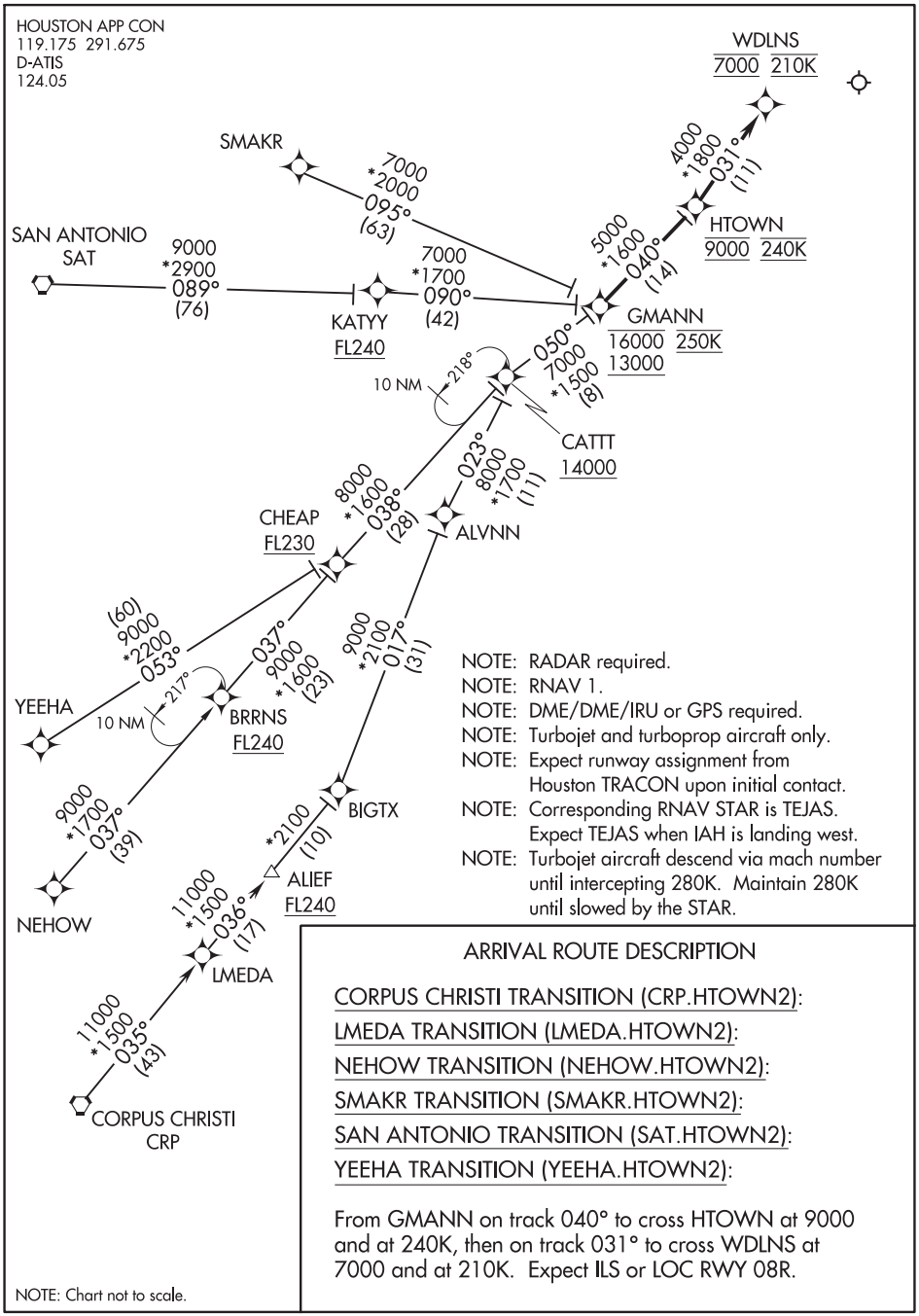
SC-5, 25 FEB 2021 to 22 APR 2021

(GMANN.HTOWN2) 20086

GEORGE BUSH INTERCONTINENTAL/HOUSTON (IAH)

HTOWN TWO ARRIVAL(RNAV)

HOUSTON, TEXAS



NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: Turbojet and turboprop aircraft only.
NOTE: Expect runway assignment from Houston TRACON upon initial contact.
NOTE: Corresponding RNAV STAR is TEJAS. Expect TEJAS when IAH is landing west.
NOTE: Turbojet aircraft descend via mach number until intercepting 280K. Maintain 280K until slowed by the STAR.

ARRIVAL ROUTE DESCRIPTION

CORPUS CHRISTI TRANSITION (CRP.HTOWN2):

LMEDA TRANSITION (LMEDA.HTOWN2):

NEHOW TRANSITION (NEHOW.HTOWN2):

SMAKR TRANSITION (SMAKR.HTOWN2):

SAN ANTONIO TRANSITION (SAT.HTOWN2):

YEEHA TRANSITION (YEEHA.HTOWN2):

From GMANN on track 040° to cross HTOWN at 9000 and at 240K, then on track 031° to cross WDLNS at 7000 and at 210K. Expect ILS or LOC RWY 08R.

NOTE: Chart not to scale.

SC-5, 25 FEB 2021 to 22 APR 2021

HTOWN TWO ARRIVAL(RNAV)

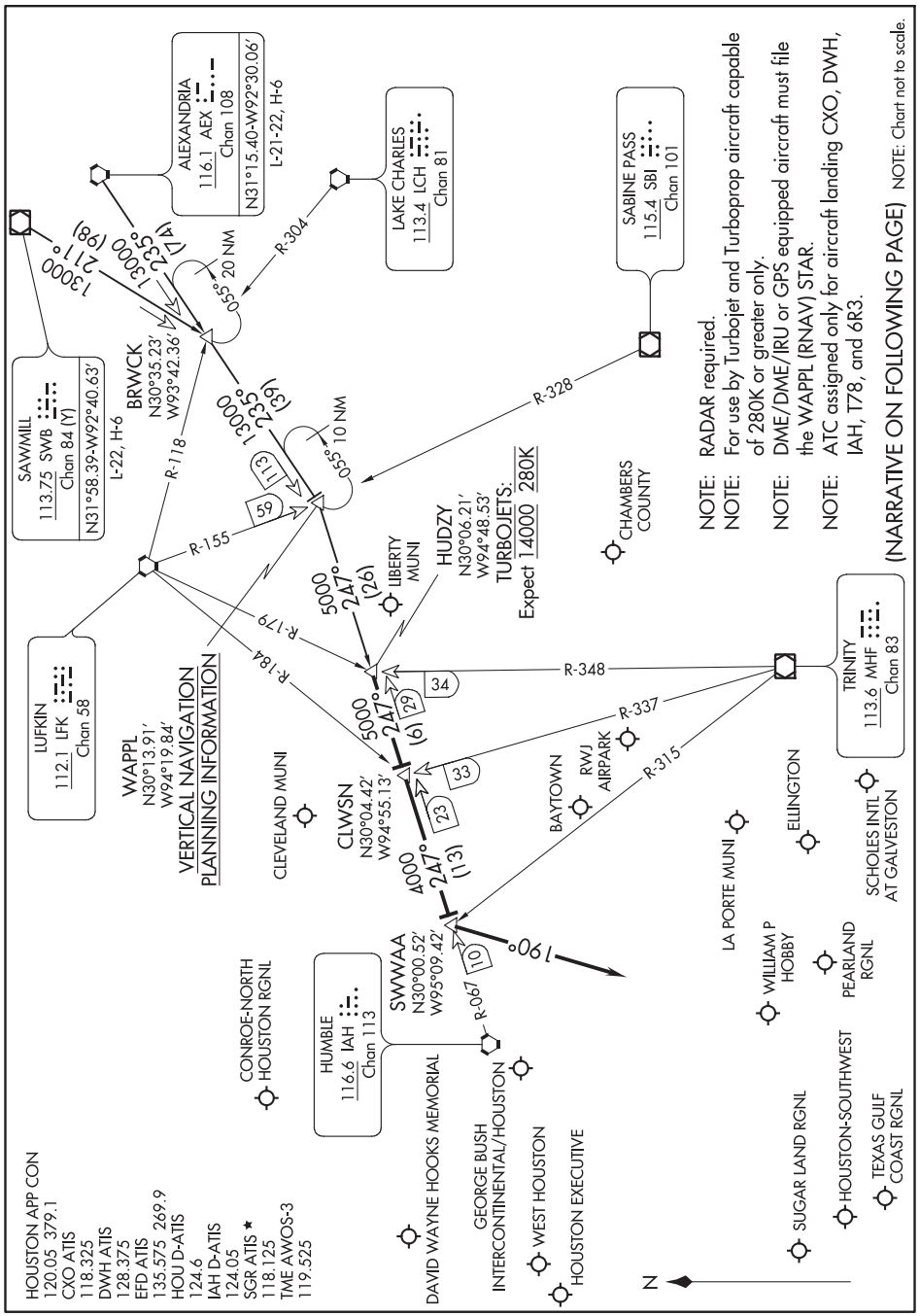
HOUSTON, TEXAS

(GMANN.HTOWN2) 08JAN15

GEORGE BUSH INTERCONTINENTAL/HOUSTON (IAH)

HUDZY FOUR ARRIVAL

HOUSTON, TEXAS



SC-5, 25 FEB 2021 to 22 APR 2021

HUDZY FOUR ARRIVAL

HOUSTON, TEXAS

ARRIVAL ROUTE DESCRIPTION

ALEXANDRIA TRANSITION (AEX.HUDZY4): From over AEX VORTAC on AEX R-235 to WAPPL, then on IAH R-067 to HUDZY. Thence. . . .

SAWMILL TRANSITION (SWB.HUDZY4): From over SWB VOR/DME on SWB R-211 to BRWCK, then on AEX R-235 to WAPPL, then on IAH R-067 to HUDZY. Thence. . . .

. . . .from over HUDZY on IAH R-067 to CLWSN, then on IAH R-067 to SWWAA, then on heading 190°. Expect RADAR vectors to final approach course.

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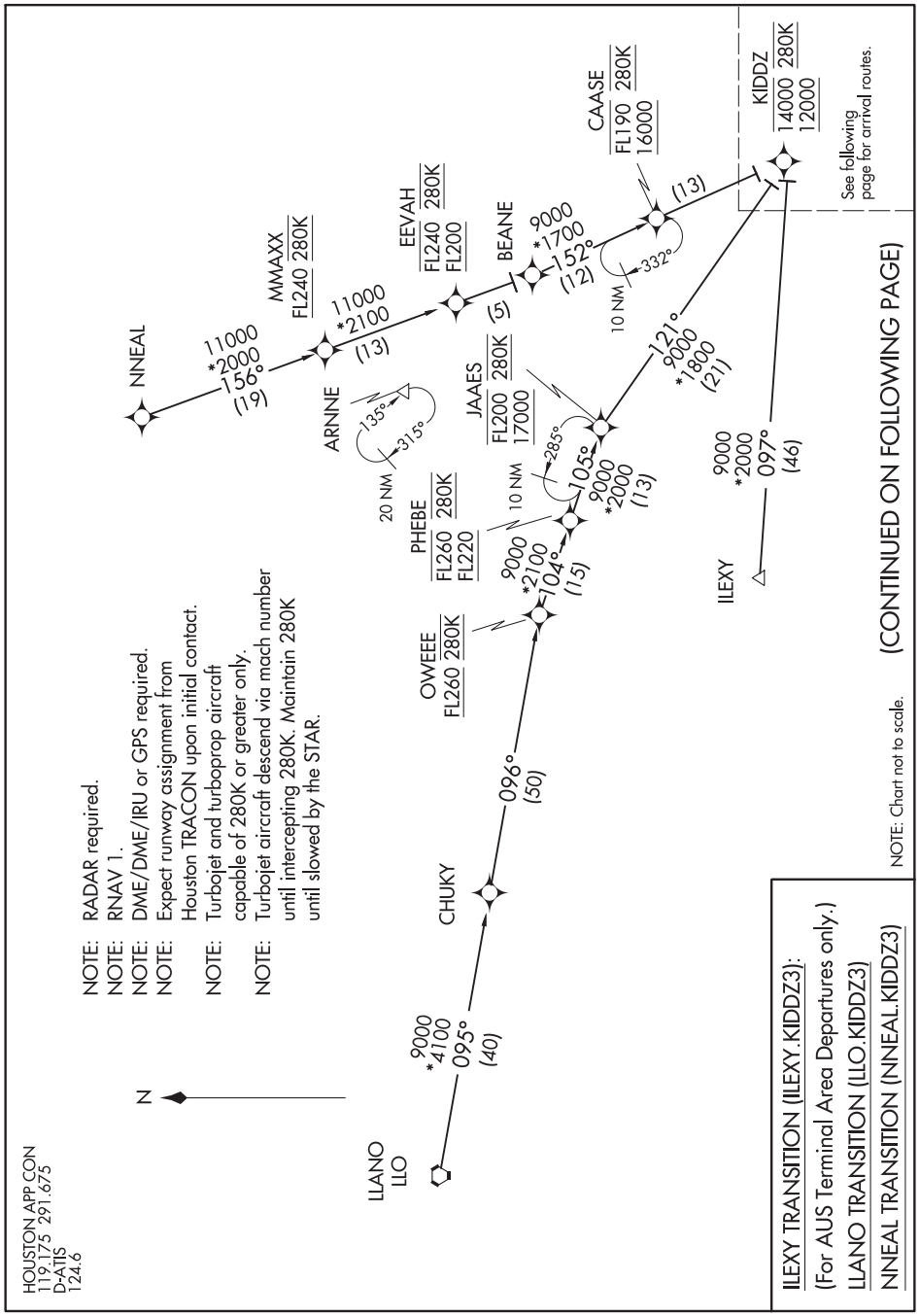
SC-5, 25 FEB 2021 to 22 APR 2021

KIDDZ THREE ARRIVAL (RNAV) Transition Routes

HOUSTON, TEXAS



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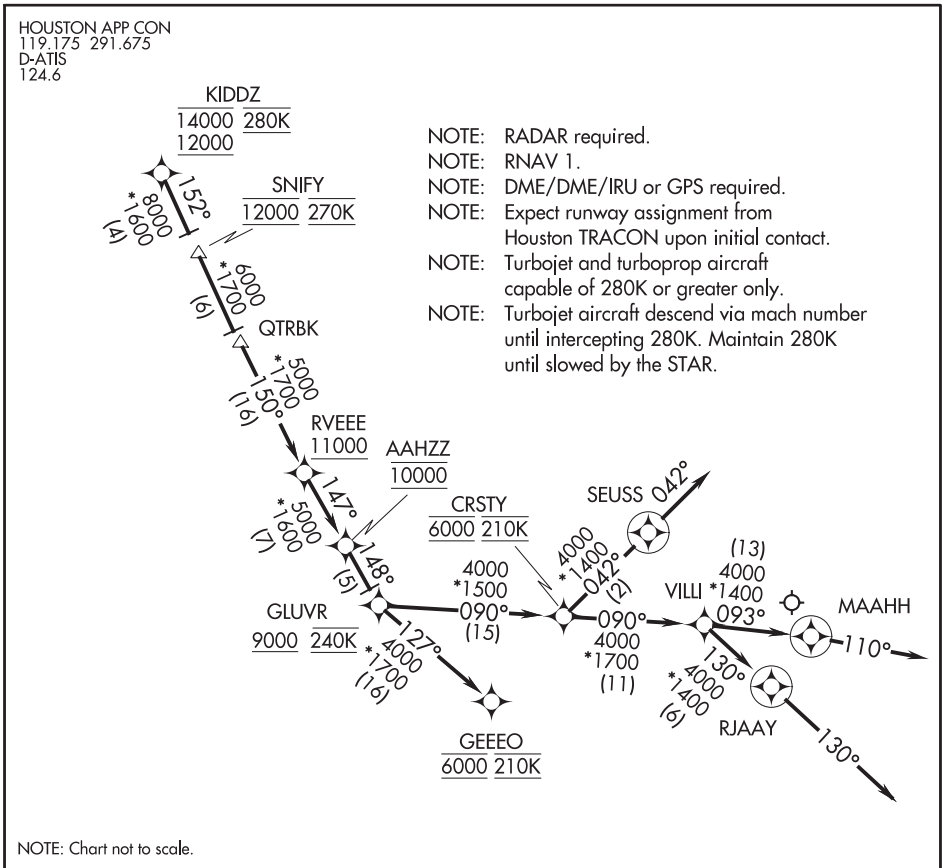
KIDDZ THREE ARRIVAL (RNAV) Transition Routes HOUSTON, TEXAS

(KIDDZ.KIDDZ3) 20086 AL-198 (FAA) WILLIAM P HOBBY (HOU)

KIDDZ THREE ARRIVAL (RNAV) Arrival Routes

HOUSTON, TEXAS



NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: Expect runway assignment from Houston TRACON upon initial contact.
NOTE: Turbojet and turboprop aircraft capable of 280K or greater only.
NOTE: Turbojet aircraft descend via mach number until intercepting 280K. Maintain 280K until slowed by the STAR.

NOTE: Chart not to scale.

ARRIVAL ROUTE DESCRIPTION

From KIDDZ on track 152° to cross SNIFY at 12000 and at 270K, then on track 152° to QTRBK, then on track 150° to cross RVEEE at or above 11000, then on track 147° to cross AAHZZ at 10000, then on track 148° to cross GLUVR at or above 9000 and at 240K.

LANDING RWY 4: From GLUVR on track 127° to cross GEEEO at 6000 and at 210K. Expect ILS or LOC Rwy 04.

LANDING RWYS 13L/R, 17: From GLUVR on track 090° to cross CRSTY at 6000 and at 210K, then on track 042° to SEUSS, then on track 042°. Expect vectors to final approach course.

LANDING RWY 22: From GLUVR on track 090° to cross CRSTY at 6000 and at 210K, then on track 090° to VILLI, then on track 093° to MAAHH, then on track 110°. Expect vectors to final approach course.

LANDING RWYS 31L/R/35: From GLUVR on track 090° to cross CRSTY at 6000 and at 210K, then on track 090° to VILLI, then on track 130° to RJAAY, then on track 130°. Expect vectors to final approach course.

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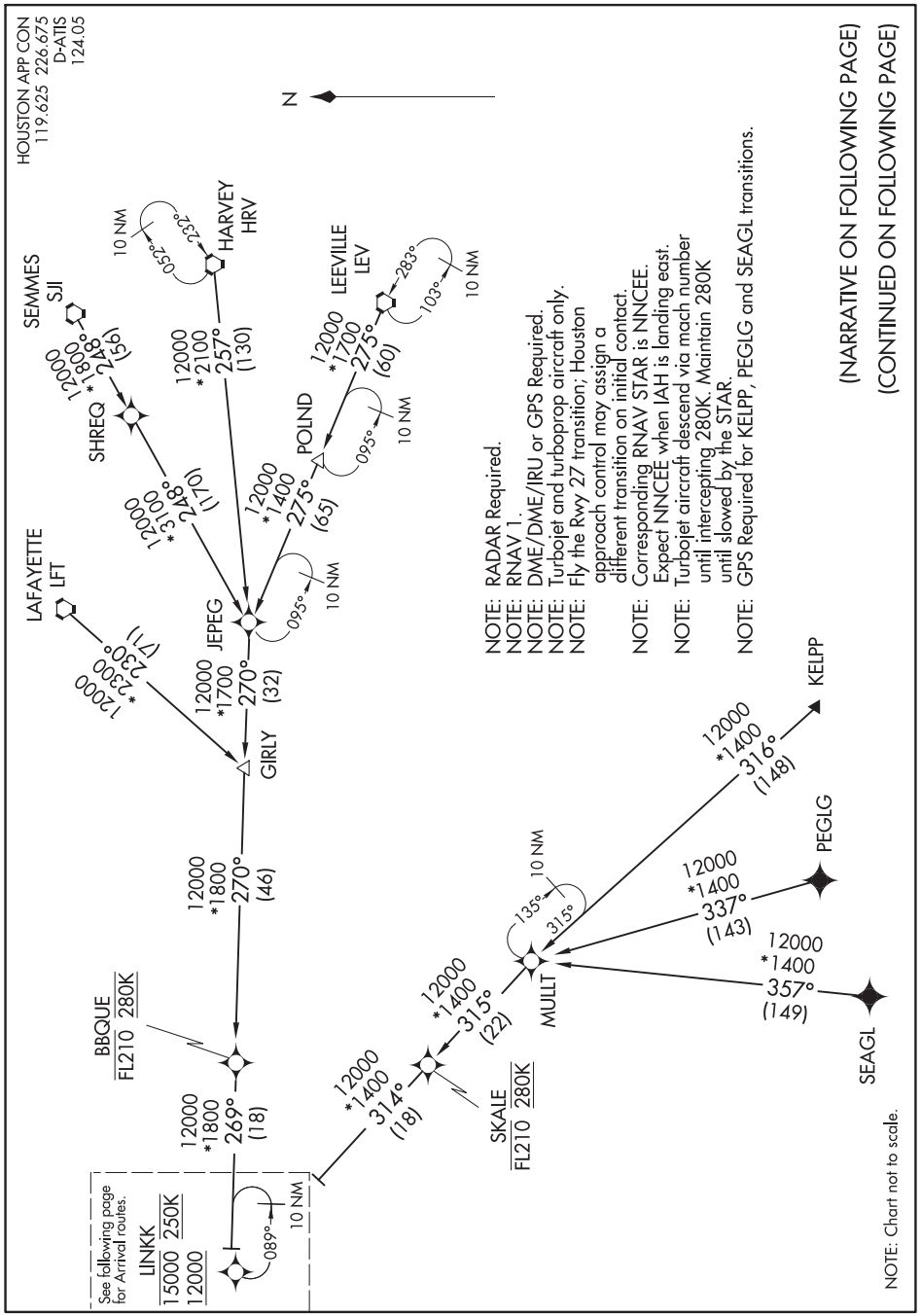
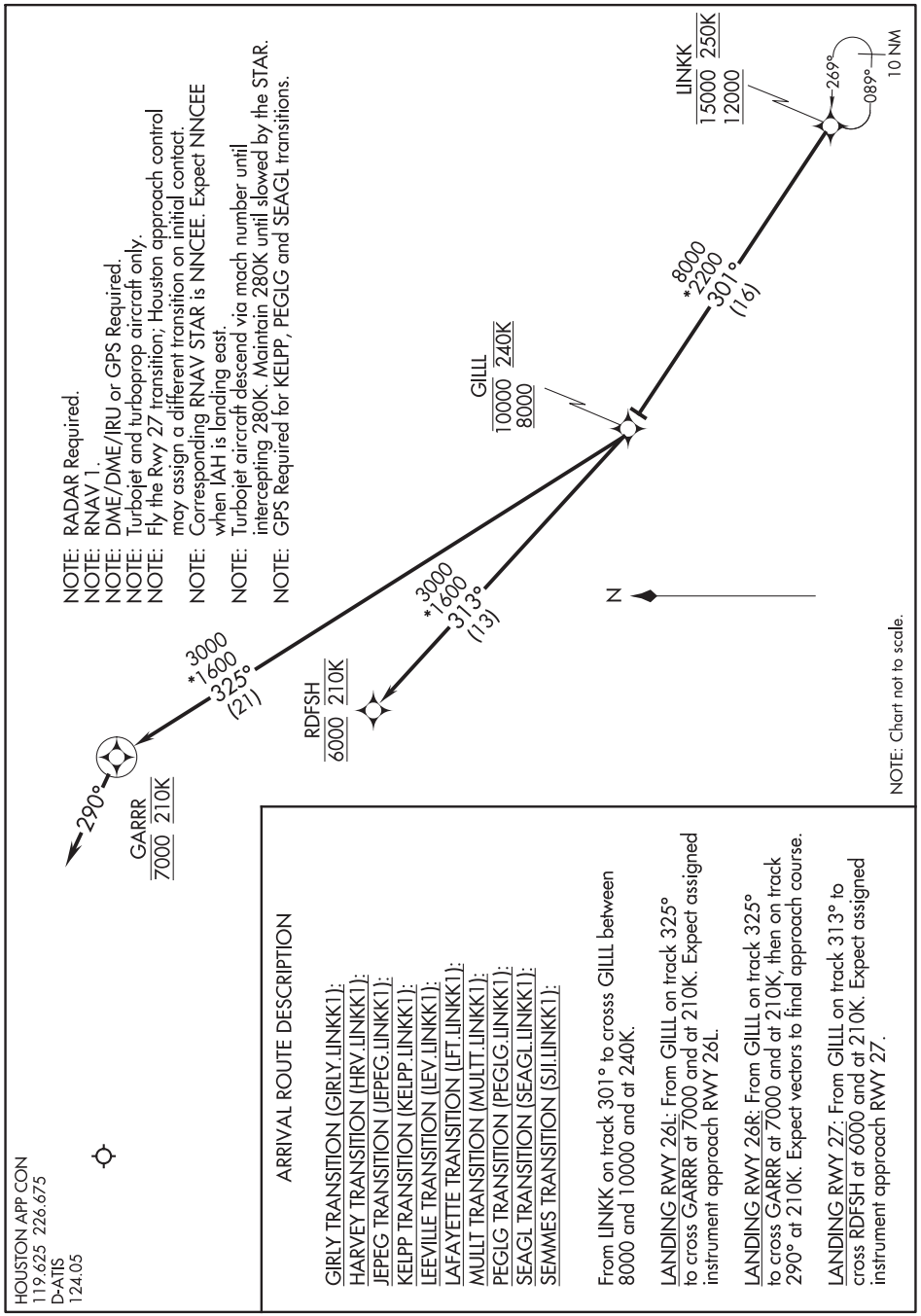
SC-5, 25 FEB 2021 to 22 APR 2021


HOUSTON APP CON
119.625 226.675
D-ATIS
124.05
N
SEMMES
SJI
HARVEY
HRV
LEEVILLE
LEV
SHREQ
POLND
LAFAYETTE
LFT
JEPEG
GIRLY
BBQUE
FL210 280K
SKALE
FL210 280K
MULT
KELPP
PEGLG
SEAGL
12000 *2100 257° (130)
12000 *1700 275° (60)
12000 *1400 275° (65)
12000 *1700 270° (32)
12000 *1800 270° (46)
12000 *1800 269° (18)
12000 *1400 314° (18)
12000 *1400 315° (22)
12000 *1400 316° (148)
12000 *1400 337° (143)
12000 *1400 357° (149)
12000 *3100 248° (170)
12000 *2300 230° (71)
12000 *1800 248° (94)
052°
232°
283°
103°
095°
089°
135°
315°
10 NM
See following page for Arrival routes.
LINKK
15000 250K
12000
NOTE: RADAR Required.
NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS Required.
NOTE: Turbojet and turboprop aircraft only.
NOTE: Fly the Rwy 27 transition; Houston approach control may assign a different transition on initial contact.
NOTE: Corresponding RNAV STAR is NNCEE. Expect NNCEE when IAH is landing east.
NOTE: Turbojet aircraft descend via mach number until intercepting 280K. Maintain 280K until slowed by the STAR.
NOTE: GPS Required for KELPP, PEGLG and SEAGL transitions.
(NARRATIVE ON FOLLOWING PAGE)
(CONTINUED ON FOLLOWING PAGE)
NOTE: Chart not to scale.

(LINKK.LINKK1) 19227 AL-5461 (FAA) GEORGE BUSH INTERCONTINENTAL/HOUSTON (IAH)

LINKK ONE ARRIVAL (RNAV) Arrival Routes

HOUSTON, TEXAS



SC-5, 25 FEB 2021 to 22 APR 2021

LINKK ONE ARRIVAL (RNAV) Arrival Routes

HOUSTON, TEXAS

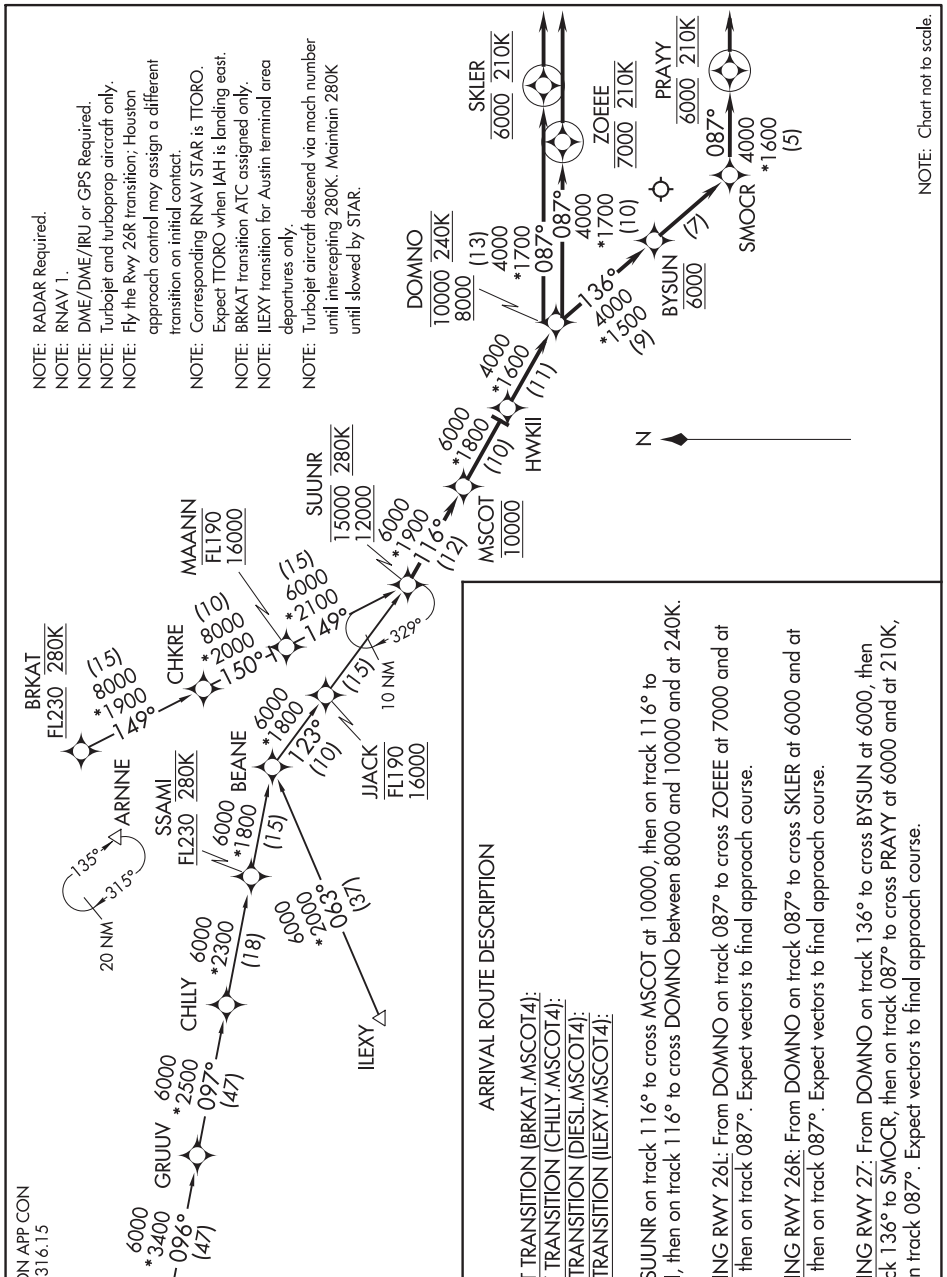
(LINKK.LINKK1) 30APR15 GEORGE BUSH INTERCONTINENTAL/HOUSTON (IAH)

MSCOT FOUR ARRIVAL (RNAV)

ST-5461 (FAA)

HOUSTON, TEXAS

NOTE: RADAR Required.
NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS Required.
NOTE: Turbojet and turboprop aircraft only.
NOTE: Fly the Rwy 26R transition; Houston approach control may assign a different transition on initial contact.
NOTE: Corresponding RNAV STAR is TTORO. Expect TTORO when IAH is landing east.
NOTE: BRKAT transition ATC assigned only.
NOTE: ILEXY transition for Austin terminal area departures only.
NOTE: Turbojet aircraft descend via mach number until intercepting 280K. Maintain 280K until slowed by STAR.



ARRIVAL ROUTE DESCRIPTION

BRKAT TRANSITION (BRKAT.MSCOT4):
CHLLY TRANSITION (CHLLY.MSCOT4):
DIESL TRANSITION (DIESL.MSCOT4):
ILEXY TRANSITION (ILEXY.MSCOT4):

From SUUNR on track 116° to cross MSCOT at 10000, then on track 116° to HWKII, then on track 116° to cross DOMNO between 8000 and 10000 and at 240K.

LANDING RWY 26L: From DOMNO on track 087° to cross ZOEEE at 7000 and at 210K, then on track 087°. Expect vectors to final approach course.

LANDING RWY 26R: From DOMNO on track 087° to cross SKLER at 6000 and at 210K, then on track 087°. Expect vectors to final approach course.

LANDING RWY 27: From DOMNO on track 136° to cross BYSUN at 6000, then on track 136° to SMOCR, then on track 087° to cross PRAYY at 6000 and at 210K, then on track 087°. Expect vectors to final approach course.

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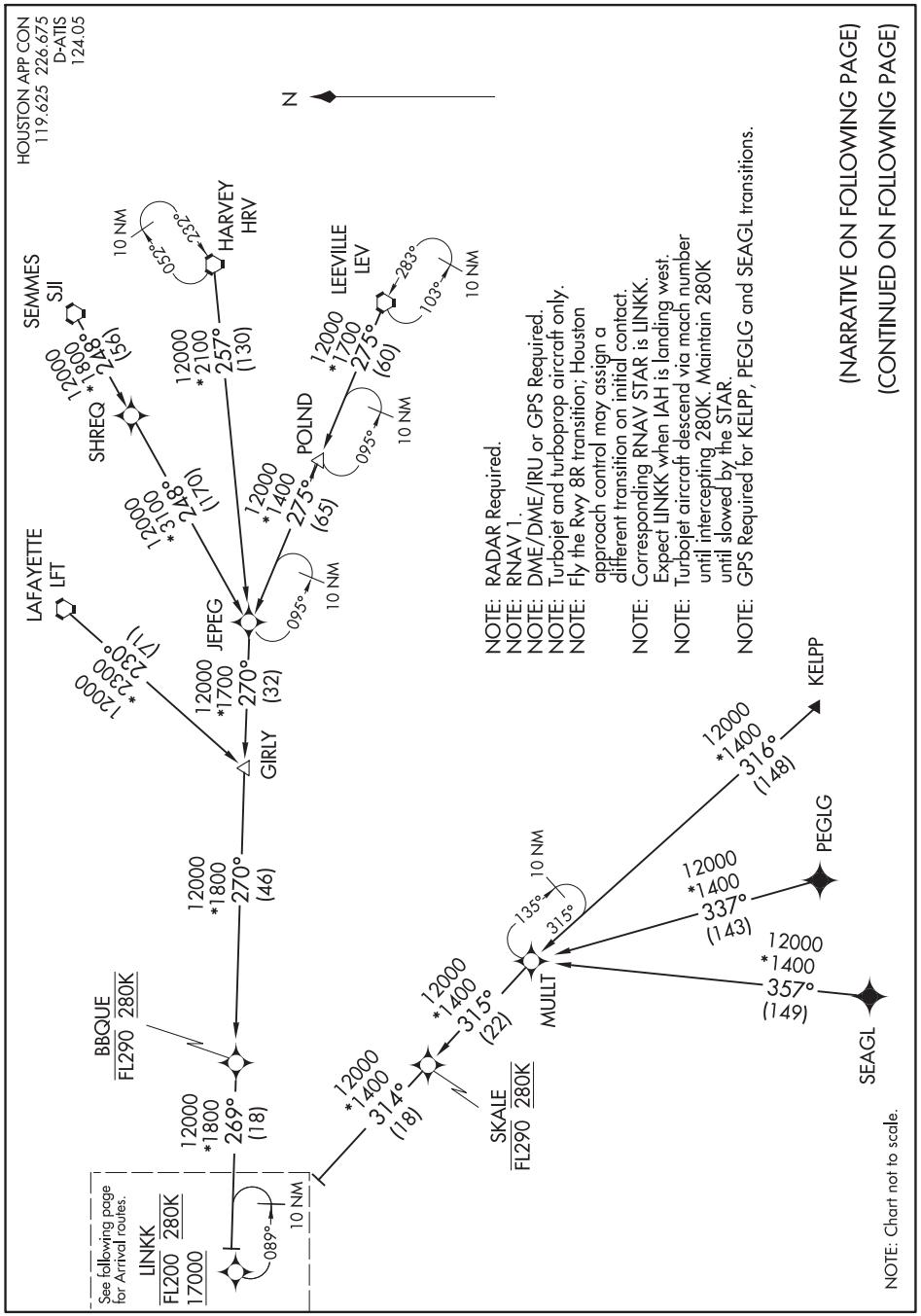
SC-5, 25 FEB 2021 to 22 APR 2021

NNCEE ONE ARRIVAL (RNAV) Transition Routes

HOUSTON, TEXAS

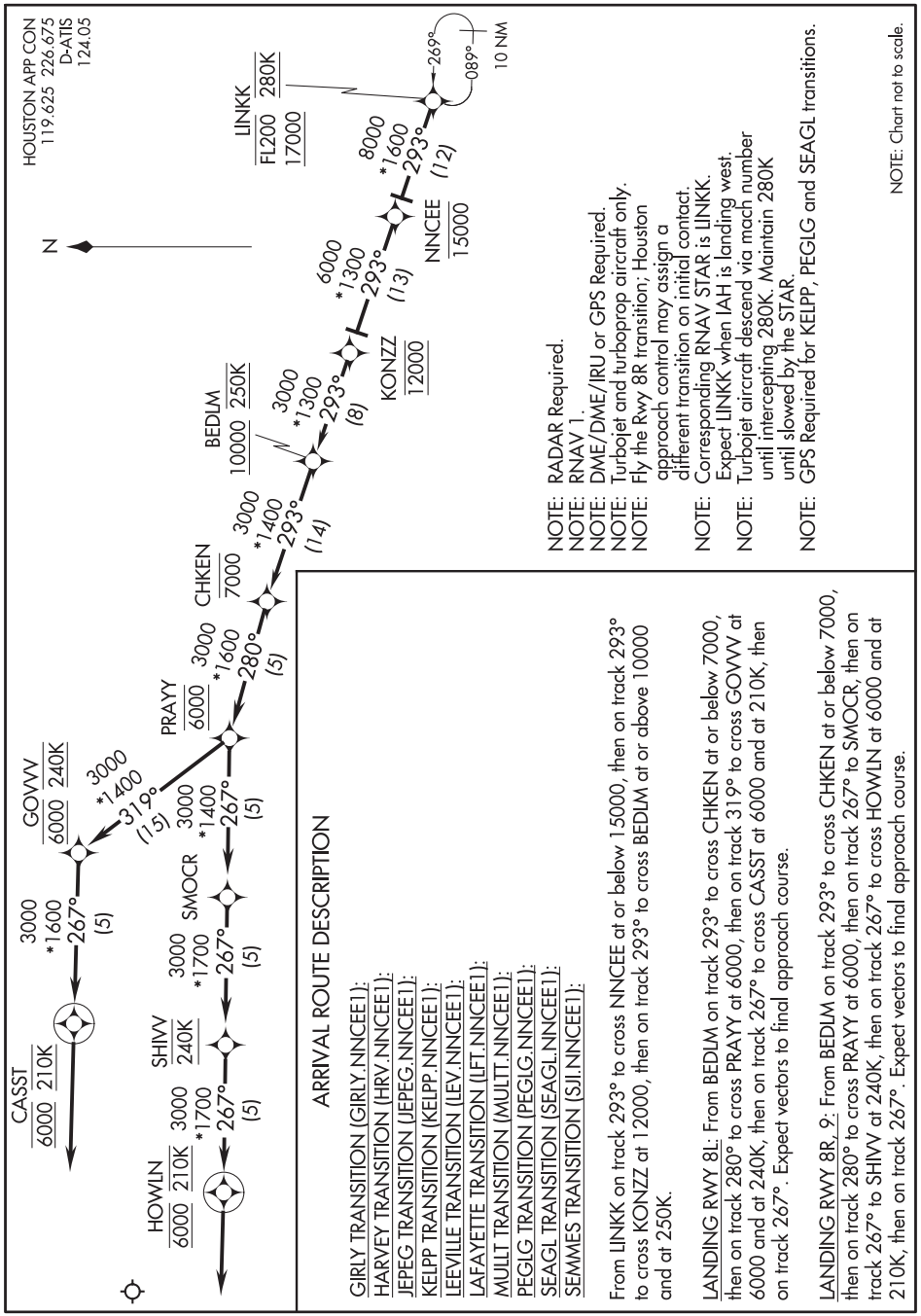


SC-5, 25 FEB 2021 to 22 APR 2021

SC-5, 25 FEB 2021 to 22 APR 2021

NNCEE ONE ARRIVAL (RNAV) Arrival Routes

HOUSTON, TEXAS



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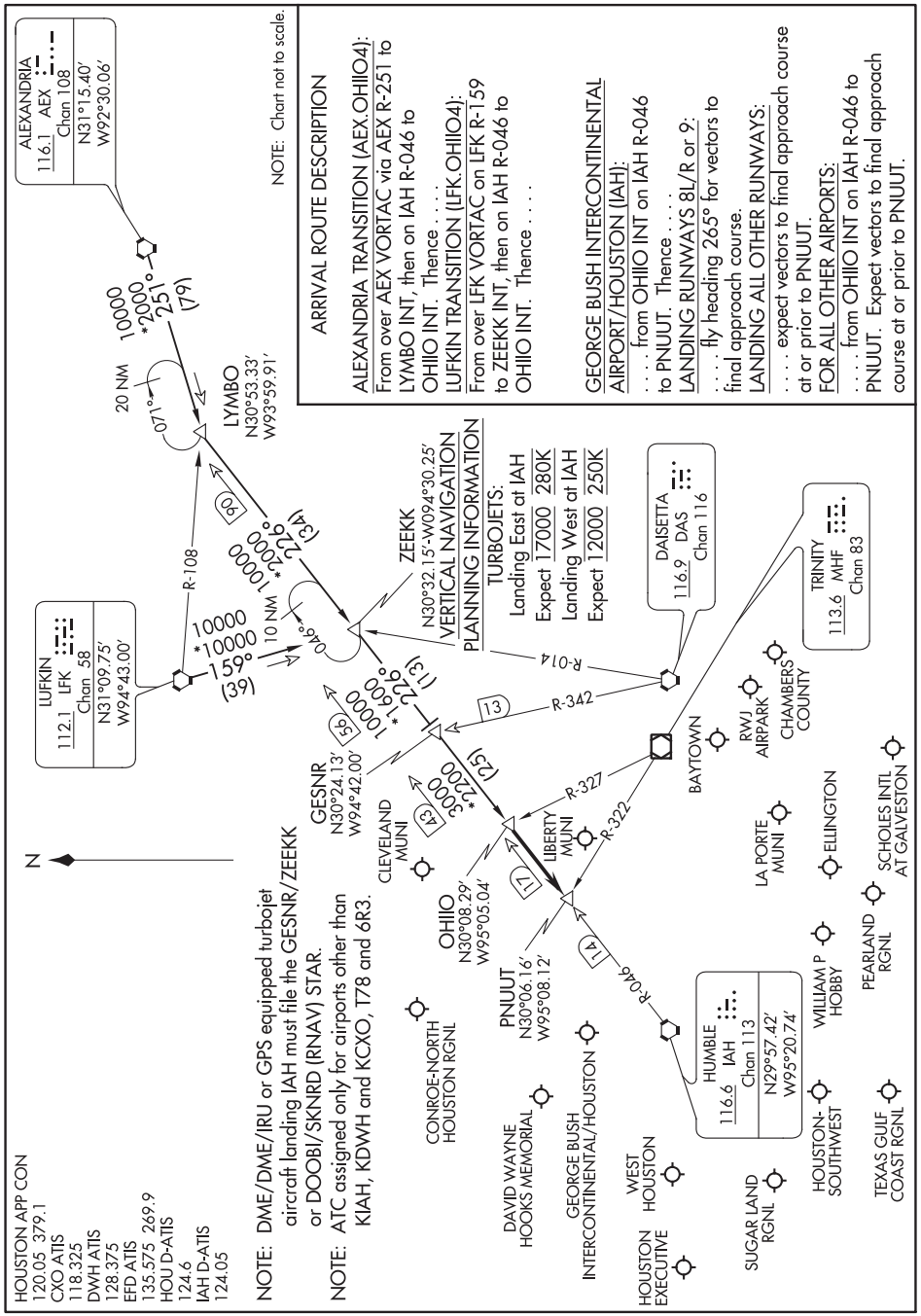
NNCEE ONE ARRIVAL (RNAV) Arrival Routes
HOUSTON, TEXAS

OHIIO FOUR ARRIVAL

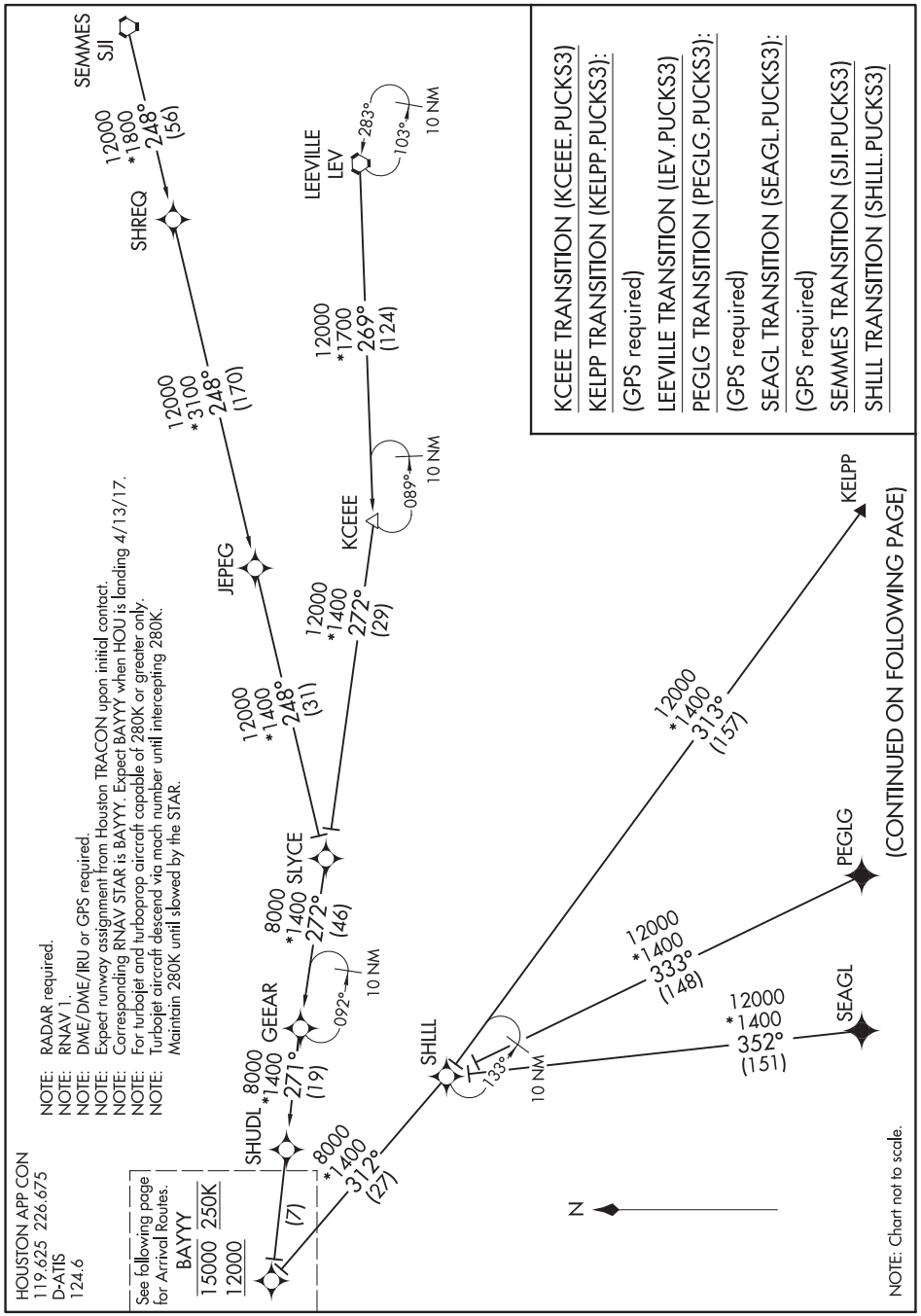
HOUSTON, TEXAS



SC-5, 25 FEB 2021 to 22 APR 2021

SC-5, 25 FEB 2021 to 22 APR 2021

PUCKS THREE ARRIVAL (RNAV) Transition Routes



(CONTINUED ON FOLLOWING PAGE)

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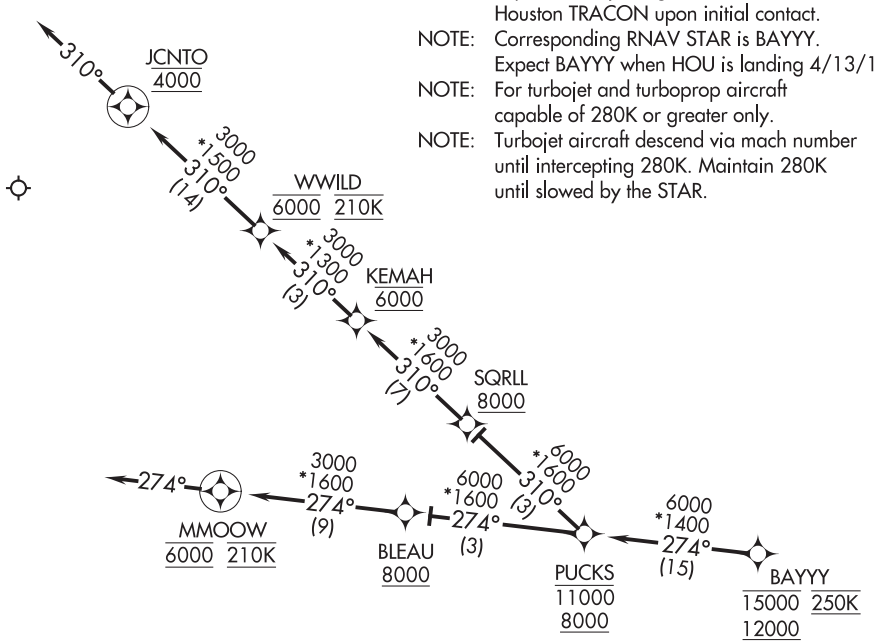
PUCKS THREE ARRIVAL (RNAV) Transition Routes
(BAYYY.PUCKS3) 10NOV16
HOUSTON, TEXAS
WILLIAM P HOBBY (HOU)

PUCKS THREE ARRIVAL (RNAV) Arrival Routes

HOUSTON APP CON
119.625 226.675
D-ATIS
124.6

NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: Expect runway assignment from Houston TRACON upon initial contact.
NOTE: Corresponding RNAV STAR is BAYYY. Expect BAYYY when HOU is landing 4/13/17.
NOTE: For turbojet and turboprop aircraft capable of 280K or greater only.
NOTE: Turbojet aircraft descend via mach number until intercepting 280K. Maintain 280K until slowed by the STAR.



NOTE: Chart not to scale.

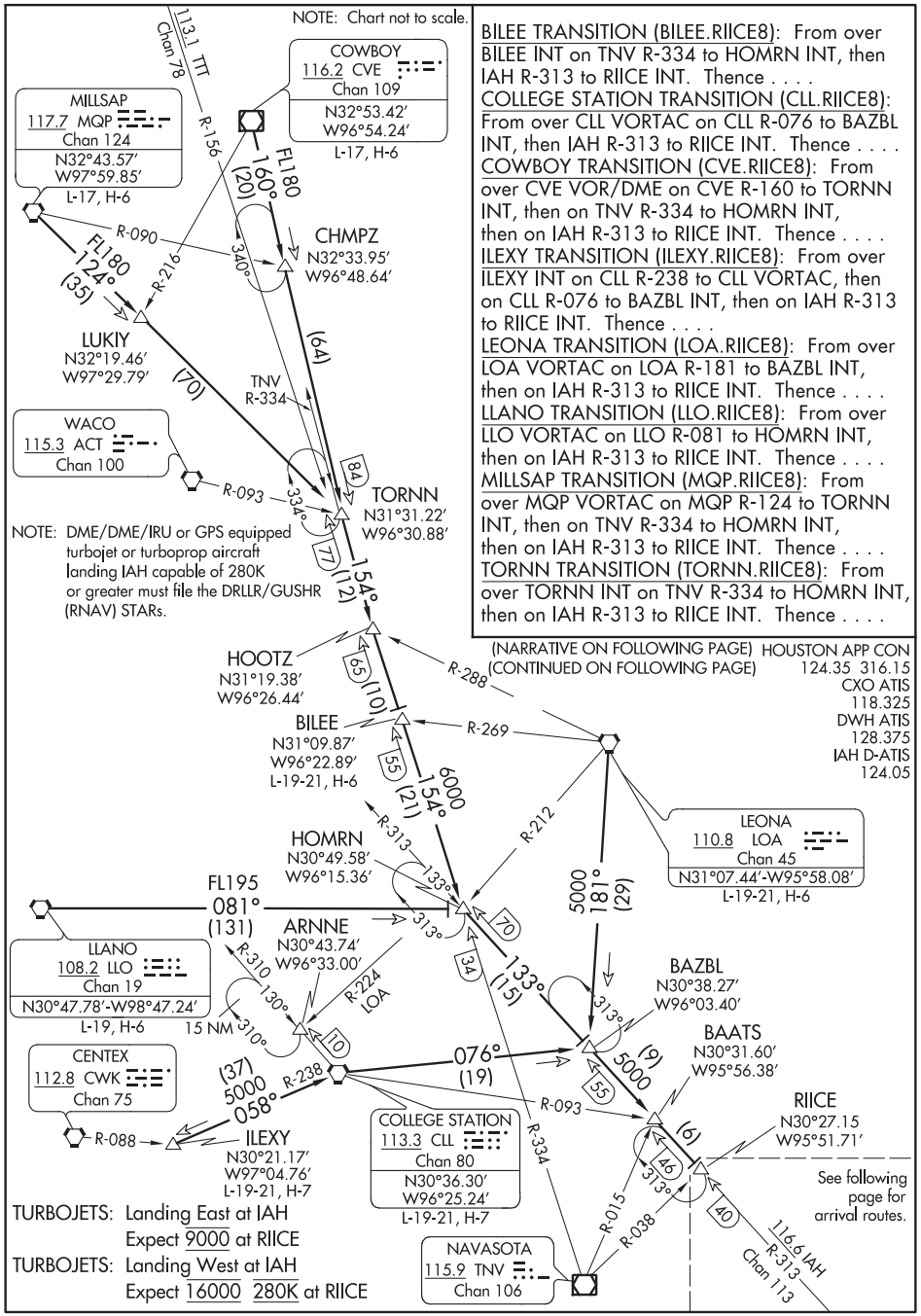
ARRIVAL ROUTE DESCRIPTION

From BAYYY on track 274° to cross PUCKS between 8000 and 11000.

LANDING RWY 22: From PUCKS on track 310° to cross SQRLL at or above 8000, then on track 310° to cross KEMAH at 6000, then on track 310° to cross WWILD at 6000 and at 210K, then on track 310° to cross JCNTO at 4000, then on track 310°. Expect vectors to final approach course.

LANDING RWYS 31L/R, 35: From PUCKS on track 274° to cross BLEAU at or above 8000, then on track 274° to cross MMOOW at 6000 and at 210K, then on track 274°. Expect vectors to final approach course.

RIICE EIGHT ARRIVAL — Transition Routes — HOUSTON, TEXAS



BILEE TRANSITION (BILEE.RIICE8): From over BILEE INT on TNV R-334 to HOMRN INT, then IAH R-313 to RIICE INT. Thence . . . .

COLLEGE STATION TRANSITION (CLL.RIICE8): From over CLL VORTAC on CLL R-076 to BAZBL INT, then IAH R-313 to RIICE INT. Thence . . . .

COWBOY TRANSITION (CVE.RIICE8): From over CVE VOR/DME on CVE R-160 to TORNN INT, then on TNV R-334 to HOMRN INT, then on IAH R-313 to RIICE INT. Thence . . . .

ILEXY TRANSITION (ILEXY.RIICE8): From over ILEXY INT on CLL R-238 to CLL VORTAC, then on CLL R-076 to BAZBL INT, then on IAH R-313 to RIICE INT. Thence . . . .

LEONA TRANSITION (LOA.RIICE8): From over LOA VORTAC on LOA R-181 to BAZBL INT, then on IAH R-313 to RIICE INT. Thence . . . .

LLANO TRANSITION (LLO.RIICE8): From over LLO VORTAC on LLO R-081 to HOMRN INT, then on IAH R-313 to RIICE INT. Thence . . . .

MILLSAP TRANSITION (MQP.RIICE8): From over MQP VORTAC on MQP R-124 to TORNN INT, then on TNV R-334 to HOMRN INT, then on IAH R-313 to RIICE INT. Thence . . . .

TORNN TRANSITION (TORNN.RIICE8): From over TORNN INT on TNV R-334 to HOMRN INT, then on IAH R-313 to RIICE INT. Thence . . . .

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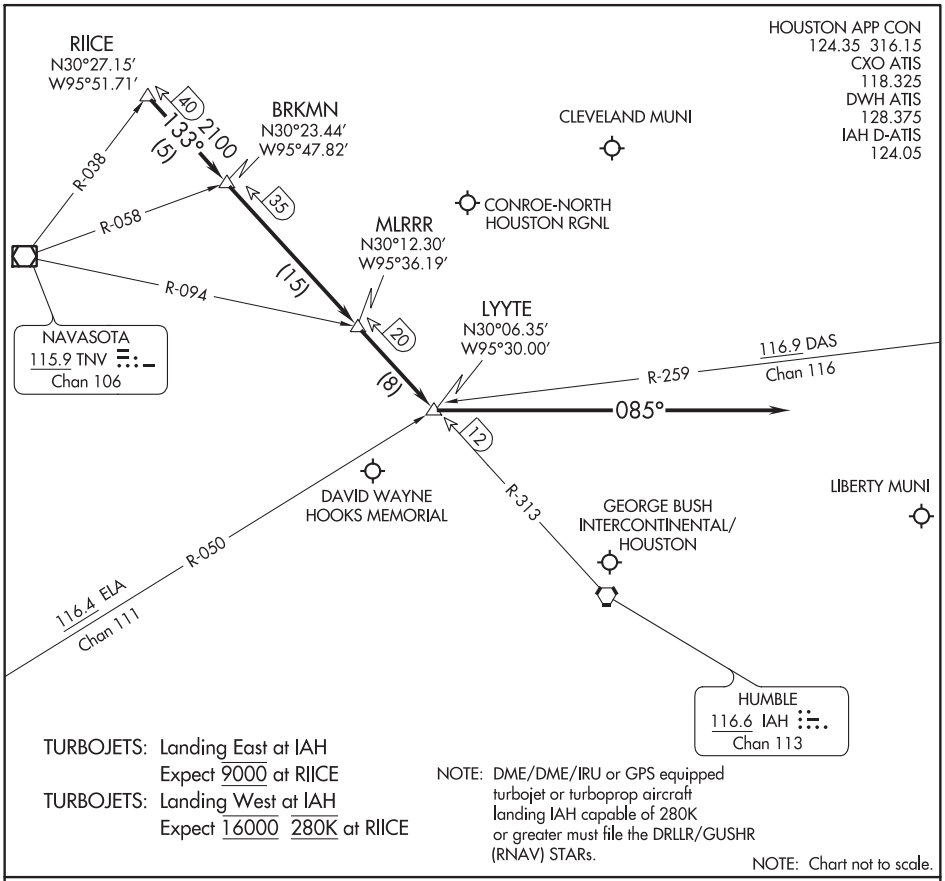
RIICE EIGHT ARRIVAL — Transition Routes — HOUSTON, TEXAS



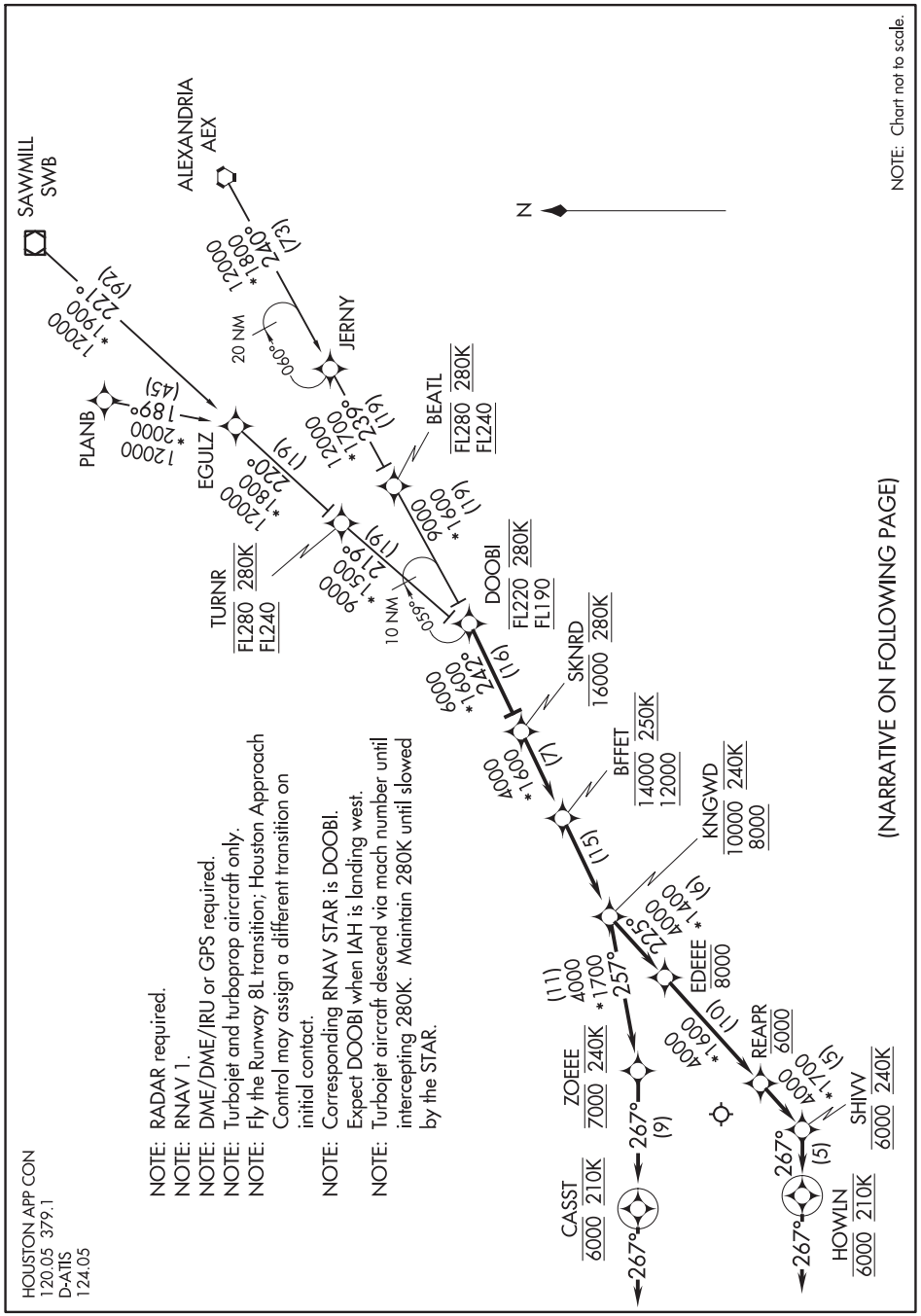
ARRIVAL ROUTE DESCRIPTION

GEORGE BUSH INTERCONTINENTAL/HOUSTON (IAH):
. . . . From over RIICE INT on IAH R-313 to BRKMN INT, to MLRRR INT, to LYYTE INT.

LANDING RUNWAY 26L/R or 27:
. . . . Fly heading 085° for vectors to final approach course.

LANDING ALL OTHER RUNWAYS:
. . . . Expect vectors to final approach course at or prior to LYYTE INT.

FOR ALL OTHER AIRPORTS:
. . . . From over RIICE INT on IAH R-313 to BRKMN INT, thence as depicted to LYYTE INT expect vectors to final approach course at or prior to LYYTE INT.



HOUSTON APP CON
120.05 379.1
D-ATIS
124.05

NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: Turbojet and turboprop aircraft only.
NOTE: Fly the Runway 8L transition; Houston Approach Control may assign a different transition on initial contact.
NOTE: Corresponding RNAV STAR is DOOBI. Expect DOOBI when IAH is landing west.
NOTE: Turbojet aircraft descend via mach number until intercepting 280K. Maintain 280K until slowed by the STAR.

ARRIVAL ROUTE DESCRIPTION

ALEXANDRIA TRANSITION (AEX.SKNRD4):
PLANB TRANSITION (PLANB.SKNRD4):
SAWMILL TRANSITION (SWB.SKNRD4):

From DOOBI on track 242° to cross SKNRD at or below 16000 and at 280K.

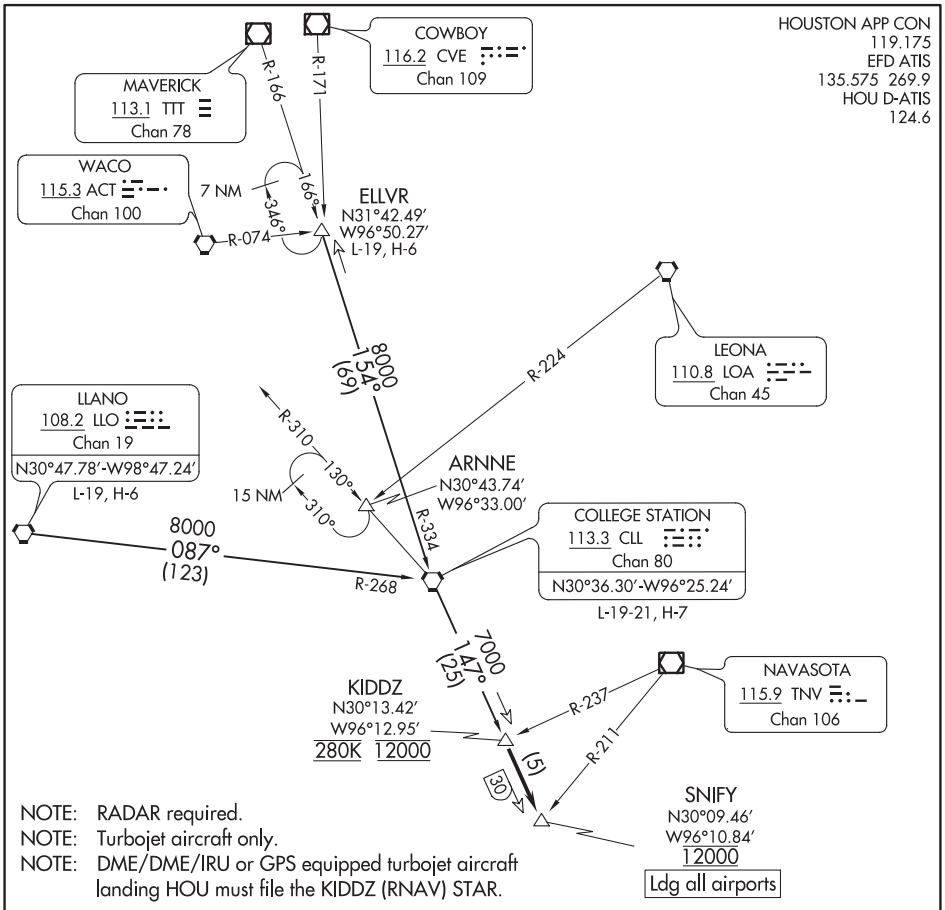
LANDING RUNWAY 8L: From SKNRD on track 242° to cross BFFET at or above 12000 and, at or below 14000 and at 250K, then on track 242° to cross KNGWD at or above 8000, at or below 10000 and at 240K, then on track 257° to cross ZOEEE at 7000 and at 240K, then on track 267° to cross CASST at 6000 and at 210K, then on track 267°. Expect RADAR vectors to final approach course.

LANDING RUNWAYS 8R, 9: From SKNRD on track 242° to cross BFFET at or above 12000, at or below 14000 and at 250K, then on track 242° to cross KNGWD at or above 8000, at or below 10000 and at 240K, then on track 225° to cross EDEEE at or below 8000, then on track 225° to cross REAPR at 6000, then on track 225° to cross SHIVV at 6000 and at 240K, then on track 267° to cross HOWLN at 6000 and at 210K, then on track 267°. Expect RADAR vectors to final approach course.

SC-5, 25 FEB 2021 to 22 APR 2021

SNIFY ONE ARRIVAL

HOUSTON, TEXAS



NOTE: RADAR required.
NOTE: Turbojet aircraft only.
NOTE: DME/DME/IRU or GPS equipped turbojet aircraft landing HOU must file the KIDDZ (RNAV) STAR.

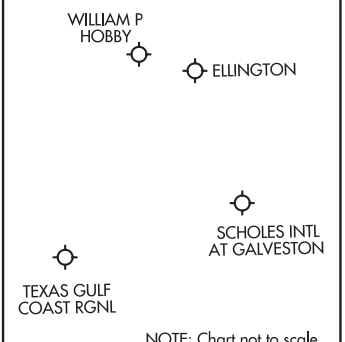
ARRIVAL ROUTE DESCRIPTION

COLLEGE STATION TRANSITION (CLL.SNIFY1): From over CLL VORTAC on CLL R-147 to KIDDZ. Thence....

ELLVR TRANSITION (ELLVR.SNIFY1): From over ELLVR on CLL R-334 to CLL VORTAC, then on CLL R-147 to KIDDZ. Thence....

LLANO TRANSITION (LLO.SNIFY1): From over LLO VORTAC on LLO R-087 and CLL R-268 to CLL VORTAC, then on CLL R-147 to KIDDZ. Thence....

....from KIDDZ on CLL R-147 to cross SNIFY at 12000. Expect vectors to final approach course at or prior to SNIFY.



NOTE: Chart not to scale.

SNIFY ONE ARRIVAL

HOUSTON, TEXAS

SC-5, 25 FEB 2021 to 22 APR 2021

SC-5, 25 FEB 2021 to 22 APR 2021

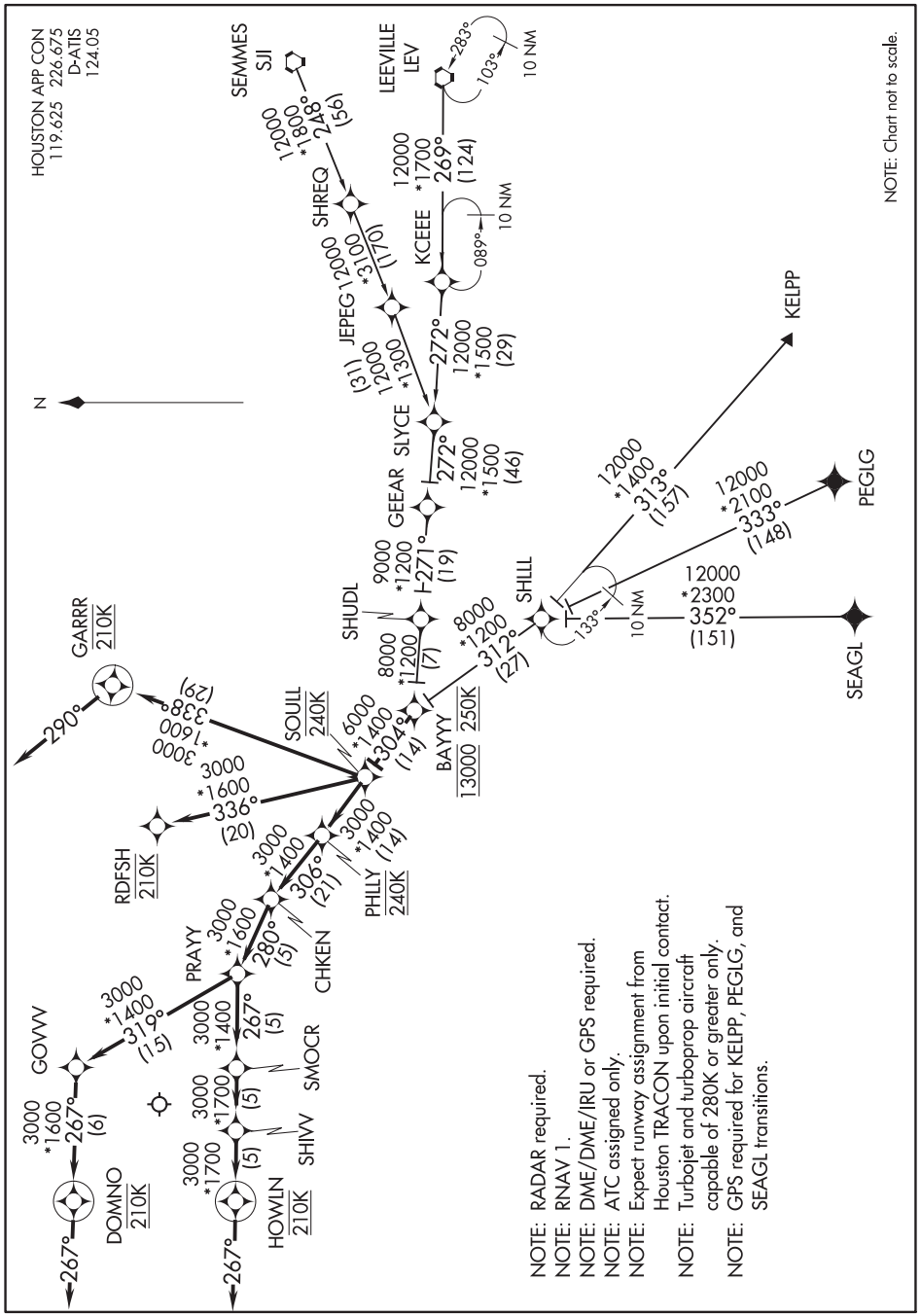
(BAYYY.SOULL1) 19227

SOULL ONE ARRIVAL (RNAV)

GEORGE BUSH INTERCONTINENTAL/HOUSTON (IAH)

AL-5461 (FAA)

HOUSTON, TEXAS



SC-5, 25 FEB 2021 to 22 APR 2021

SOULL ONE ARRIVAL (RNAV)

(BAYYY.SOULL1) 08JAN15

HOUSTON, TEXAS

GEORGE BUSH INTERCONTINENTAL/HOUSTON (IAH)

KCEEE TRANSITION (KCEEE.SOULL1):
KELPP TRANSITION (KELPP.SOULL1):
LEEVILLE TRANSITION (LEV.SOULL1):
PEGLG TRANSITION (PEGLG.SOULL1):
SEAGL TRANSITION (SEAGL.SOULL1):
SHLLL TRANSITION (SHLLL.SOULL1):
SEMMES TRANSITION (SJI.SOULL1):

ARRIVAL ROUTE DESCRIPTION

From BAYYY on track 304° to SOULL at 240K.

LANDING RWY 08L: From SOULL on track 304° to PHLLY at 240K, then on track 306° to CHKEN, then on track 280° to PRAYY, then on track 319° to GOVVV, then on track 267° to DOMNO at 210K, then on track 267° at 210K. Expect vectors to final approach course.

LANDING RWY 08R: From SOULL on track 304° to PHLLY at 240K, then on track 306° to CHKEN, then on track 280° to PRAYY, then on track 267° to SMOCR, then on track 267° to SHIVV, then on track 267° to HOWLN at 210K, then on track 267°. Expect vectors to final approach course.

LANDING RWY 09: From SOULL on track 304° to PHLLY at 240K, then on track 306° to CHKEN, then on track 280° to PRAYY, then on track 267° to SMOCR, then on track 267° to SHIVV, then on track 267° to HOWLN at 210K, then on track 267°. Expect vectors to final approach course.

LANDING RWY 26L: From SOULL on track 338° to GARRR at 210K. Expect ILS or LOC Rwy 26L.

LANDING RWY 26R: From SOULL on track 338° to GARRR at 210K, then on track 290° at 210K. Expect vectors to final approach course.

LANDING RWY 27: From SOULL on track 336° to RDFSH at 210K. Expect ILS or LOC Rwy 27.

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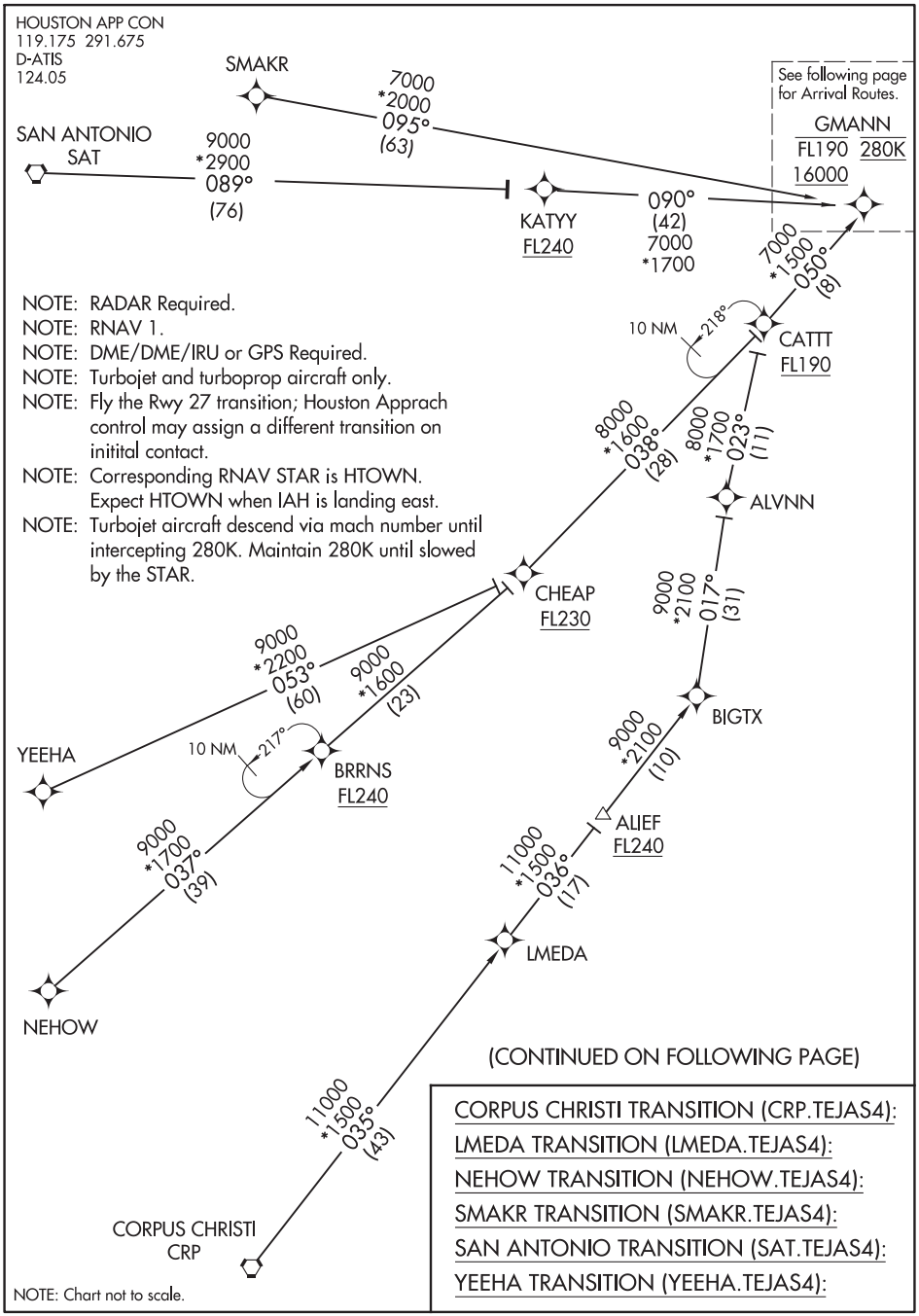


NOTE: RADAR Required.
NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS Required.
NOTE: Turbojet and turboprop aircraft only.
NOTE: Fly the Rwy 27 transition; Houston Apprach control may assign a different transition on initital contact.
NOTE: Corresponding RNAV STAR is HTOWN. Expect HTOWN when IAH is landing east.
NOTE: Turbojet aircraft descend via mach number until intercepting 280K. Maintain 280K until slowed by the STAR.

(CONTINUED ON FOLLOWING PAGE)

CORPUS CHRISTI TRANSITION (CRP.TEJAS4):
LMEDA TRANSITION (LMEDA.TEJAS4):
NEHOW TRANSITION (NEHOW.TEJAS4):
SMAKR TRANSITION (SMAKR.TEJAS4):
SAN ANTONIO TRANSITION (SAT.TEJAS4):
YEEHA TRANSITION (YEEHA.TEJAS4):

NOTE: Chart not to scale.

TEJAS FOUR ARRIVAL (RNAV) Arrival Routes

HOUSTON, TEXAS

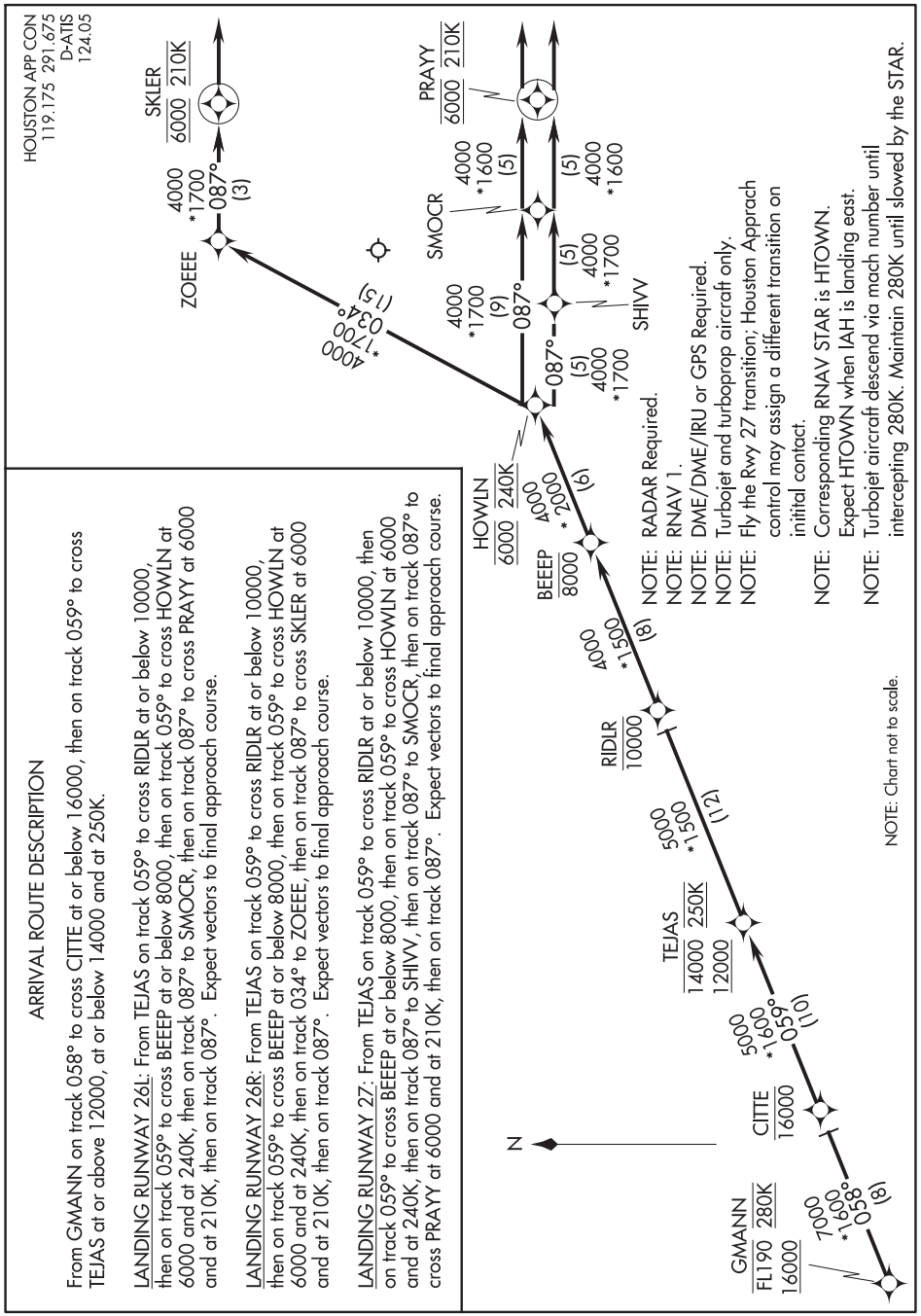
ARRIVAL ROUTE DESCRIPTION

From GMANN on track 058° to cross CITTE at or below 16000, then on track 059° to cross TEJAS at or above 12000, at or below 14000 and at 250K.

LANDING RUNWAY 26L: From TEJAS on track 059° to cross RIDLR at or below 10000, then on track 059° to cross BEEEP at or below 8000, then on track 059° to cross HOWLN at 6000 and at 240K, then on track 087° to SMOCR, then on track 087° to cross PRAYY at 6000 and at 210K, then on track 087°. Expect vectors to final approach course.

LANDING RUNWAY 26R: From TEJAS on track 059° to cross RIDLR at or below 10000, then on track 059° to cross BEEEP at or below 8000, then on track 059° to cross HOWLN at 6000 and at 240K, then on track 034° to ZOEEE, then on track 087° to cross SKLER at 6000 and at 210K, then on track 087°. Expect vectors to final approach course.

LANDING RUNWAY 27: From TEJAS on track 059° to cross RIDLR at or below 10000, then on track 059° to cross BEEEP at or below 8000, then on track 059° to cross HOWLN at 6000 and at 240K, then on track 087° to SHIVV, then on track 087° to SMOCR, then on track 087° to cross PRAYY at 6000 and at 210K, then on track 087°. Expect vectors to final approach course.



NOTE: RADAR Required.
NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS Required.
NOTE: Turbojet and turboprop aircraft only.
NOTE: Fly the Rwy 27 transition; Houston Approach control may assign a different transition on initital contact.
NOTE: Corresponding RNAV STAR is HTOWN. Expect HTOWN when IAH is landing east.
NOTE: Turbojet aircraft descend via mach number until intercepting 280K. Maintain 280K until slowed by the STAR.

NOTE: Chart not to scale.

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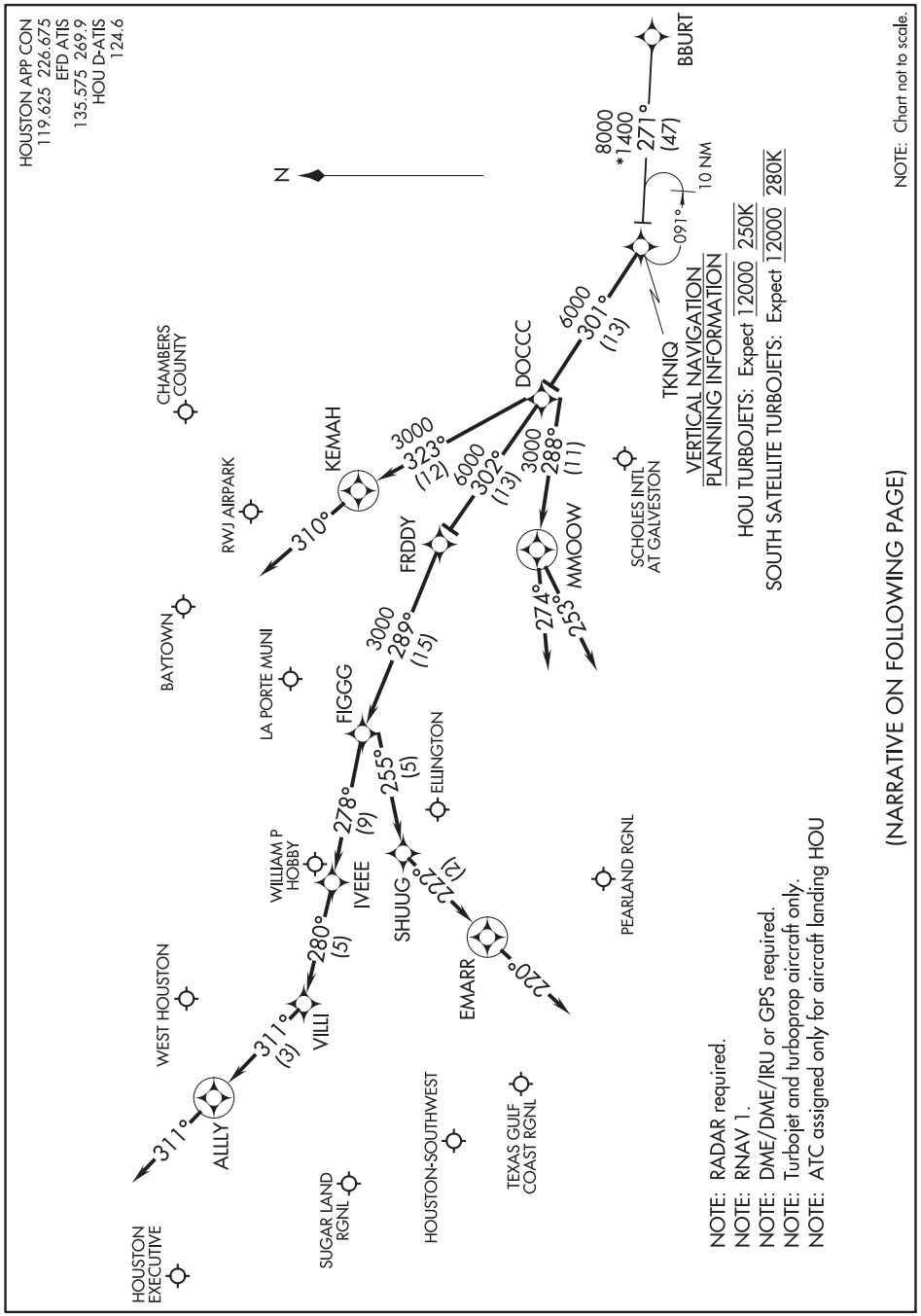
SC-5, 25 FEB 2021 to 22 APR 2021

(TKNIQ.TKNIQ2) 20198 AL-198 (FAA)

TKNIQ TWO ARRIVAL (RNAV)

HOUSTON, TEXAS



SC-5, 25 FEB 2021 to 22 APR 2021

TKNIQ TWO ARRIVAL (RNAV)

HOUSTON, TEXAS

(TKNIQ.TKNIQ2) 10NOV16

ARRIVAL ROUTE DESCRIPTION

BBURT TRANSITION (BBURT.TKNIQ2)

From TKNIQ on track 301° to DOCCC.

LANDING HOU RUNWAY 4: From DOCCC on track 302° to FRDDY, then on track 289° to FIGGG, then on track 255° to SHUUG, then on track 222° to EMARR, then on track 220°. Expect vectors to final approach course.

LANDING RUNWAYS 13L/R, 17: From DOCCC on track 302° to FRDDY, then on track 289° to FIGGG, then on track 278° to IVEEE, then on track 280° to VILLI, then on track 311° to ALLLY, then on track 311°. Expect vectors to final approach course.

LANDING RUNWAY 22: From DOCCC on track 323° to KEMAH, then on track 310°. Expect vectors to final approach course.

LANDING RUNWAYS 31L/R, 35: From DOCCC on track 288° to MMOOW, then on track 274°. Expect vectors to final approach course.

LANDING AXH, EFD, GLS, HPY, IWS, LBX, LVJ, SGR, TME, T00, T41, 54T:
From DOCCC on track 288° to MMOOW, then on track 253°. Expect vectors to final approach course.

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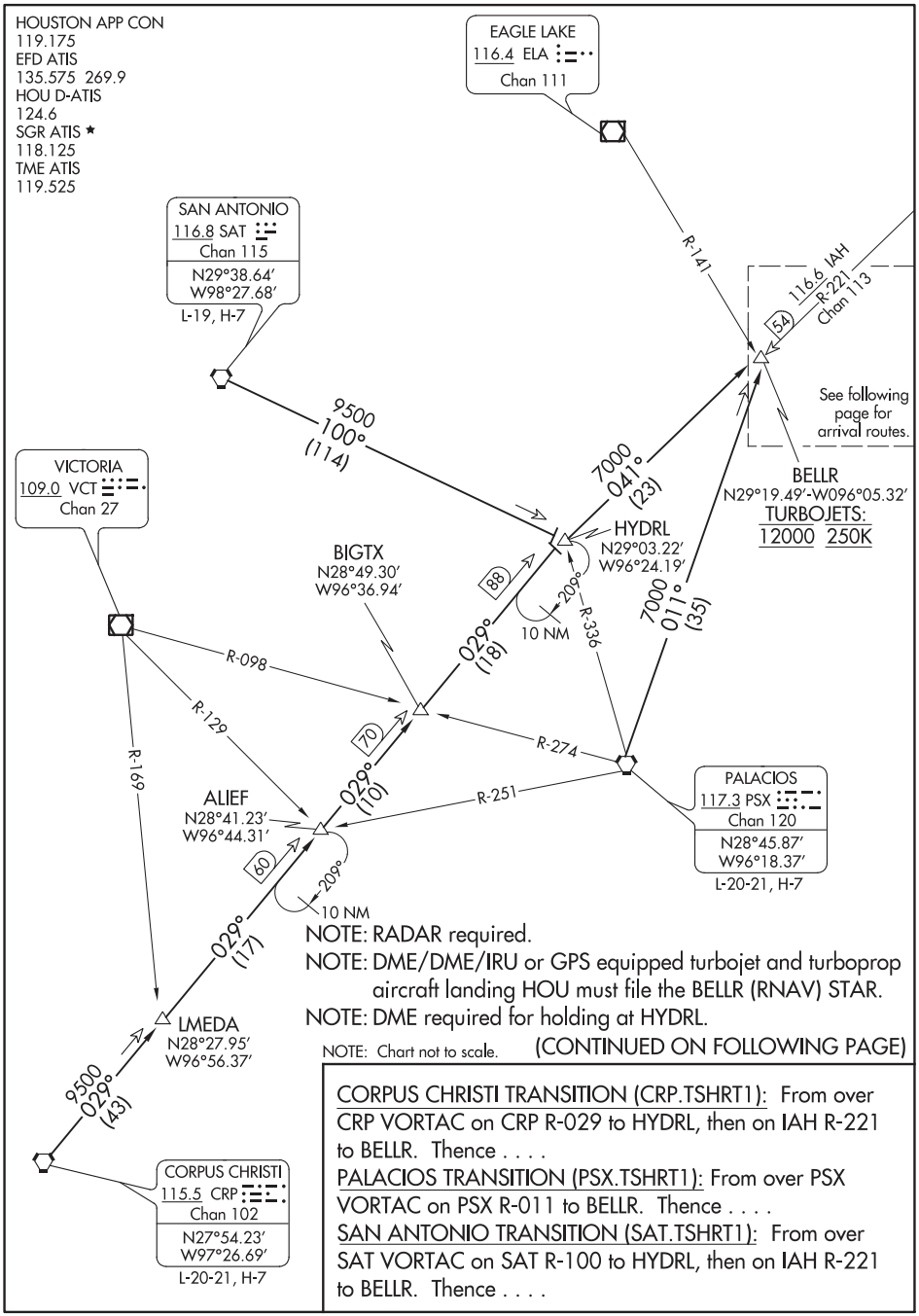
TSHRT ONE ARRIVAL — Transition Routes — HOUSTON, TEXAS



NOTE: RADAR required.

NOTE: DME/DME/IRU or GPS equipped turbojet and turboprop aircraft landing HOU must file the BELLR (RNAV) STAR.

NOTE: DME required for holding at HYDRL.

NOTE: Chart not to scale.

(CONTINUED ON FOLLOWING PAGE)

CORPUS CHRISTI TRANSITION (CRP.TSHRT1): From over CRP VORTAC on CRP R-029 to HYDRL, then on IAH R-221 to BELLR. Thence . . . .

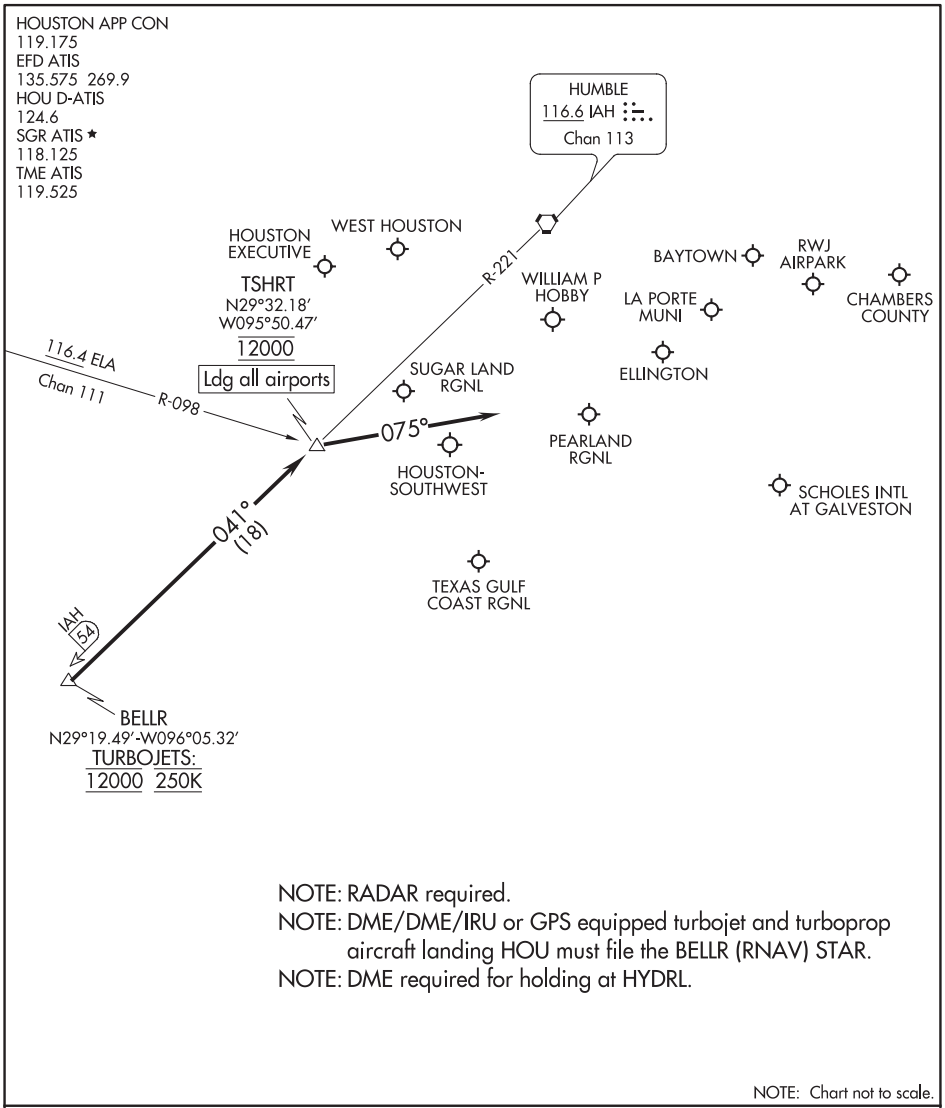
PALACIOS TRANSITION (PSX.TSHRT1): From over PSX VORTAC on PSX R-011 to BELLR. Thence . . . .

SAN ANTONIO TRANSITION (SAT.TSHRT1): From over SAT VORTAC on SAT R-100 to HYDRL, then on IAH R-221 to BELLR. Thence . . . .

TSHRT ONE ARRIVAL

Arrival Routes

HOUSTON, TEXAS



NOTE: RADAR required.

NOTE: DME/DME/IRU or GPS equipped turbojet and turboprop aircraft landing HOU must file the BELLR (RNAV) STAR.

NOTE: DME required for holding at HYDRL.

NOTE: Chart not to scale.

ARRIVAL ROUTE DESCRIPTION

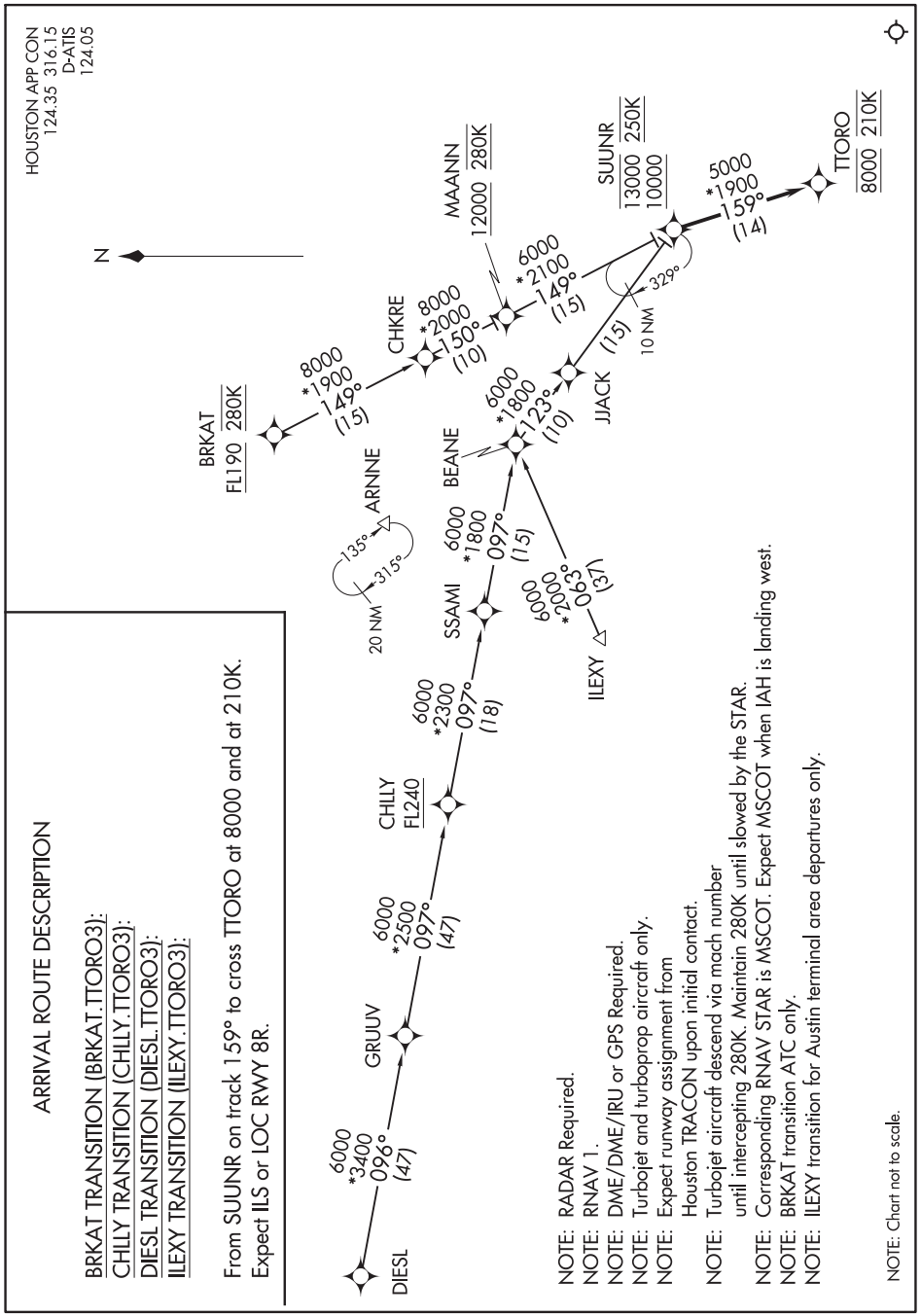
. . . . from over BELLR on IAH R-221 to cross TSHRT at 12000. From TSHRT fly heading 075° for vectors to final approach course.

(SUUNR.TTORO3) 17117

GEORGE BUSH INTERCONTINENTAL/HOUSTON (IAH)

TTORO THREE ARRIVAL (RNAV) ST-5461 (FAA)

HOUSTON, TEXAS



SC-5, 25 FEB 2021 to 22 APR 2021

TTORO THREE ARRIVAL (RNAV)

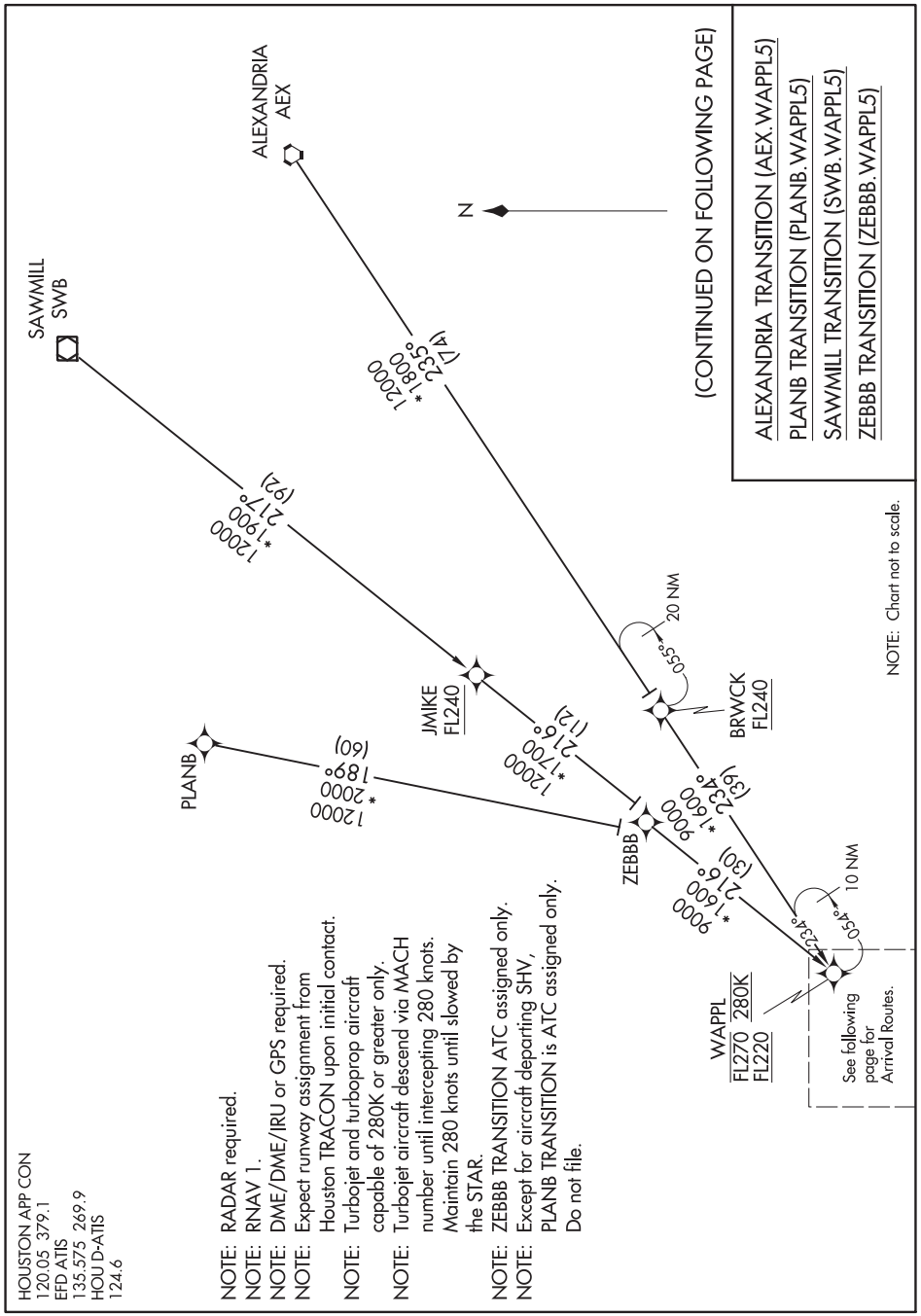
HOUSTON, TEXAS

(SUUNR.TTORO3) 30APR15

GEORGE BUSH INTERCONTINENTAL/HOUSTON (IAH)

WAPPL FIVE ARRIVAL (RNAV) Transition Routes

HOUSTON, TEXAS



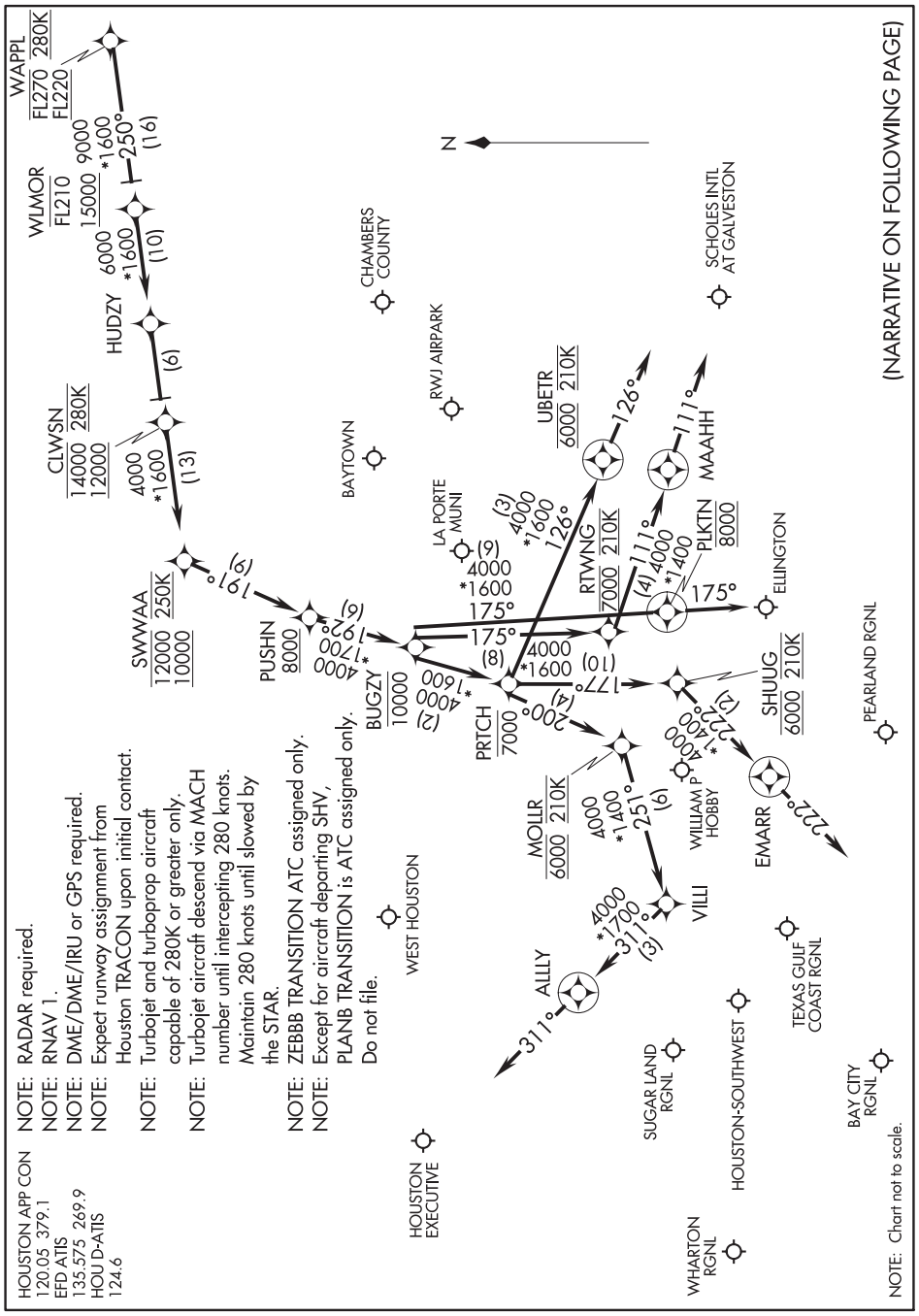
SC-5, 25 FEB 2021 to 22 APR 2021

SC-5, 25 FEB 2021 to 22 APR 2021

WAPPL FIVE ARRIVAL (RNAV) Transition Routes HOUSTON, TEXAS

WAPPL FIVE ARRIVAL (RNAV) Arrival Routes

HOUSTON, TEXAS



SC-5, 25 FEB 2021 to 22 APR 2021

WAPPL FIVE ARRIVAL (RNAV) Arrival Routes

HOUSTON, TEXAS

ARRIVAL ROUTE DESCRIPTION

From WAPPL on track 250° to cross WLMOR at or above 15000, at or below FL210, then on track 250° to HUDZY, then on track 250° to cross CLWSN at or above 12000, at or below 14000 and at 280K, then on track 250° to cross SWWAA at or above 10000, at or below 12000 and at 250K, then on track 191° to cross PUSHN at or above 8000.

LANDING HOU RUNWAY 4: From PUSHN on track 192° to cross BUGZY at or below 10000, then on track 192° to cross PRTCH at or below 7000, then on track 177° to cross SHUUG at 6000 and at 210K, then on track 222° to EMARR, then on track 222°. Expect vectors to final approach course.

LANDING HOU RUNWAYS 13L/R, 17: From PUSHN on track 192° to cross BUGZY at or below 10000, then on track 192° to cross PRTCH at or below 7000, then on track 200° to cross MOLLR at 6000 and at 210K, then on track 251° to VILLI, then on track 311° to ALLLY, then on track 311°. Expect vectors to final approach course.

LANDING HOU RUNWAY 22: From PUSHN on track 192° to cross BUGZY at or below 10000, then on track 175° to cross RTWNG at 7000 and at 210K, then on track 111° to MAAHH, then on track 111°. Expect vectors to final approach course.

LANDING HOU RUNWAYS 31L/R, 35: From PUSHN on track 192° to cross BUGZY at or below 10000, then on track 192° to cross PRTCH at or below 7000, then on track 126° to cross UBETR at 6000 and at 210K, then on track 126°. Expect vectors to final approach course.

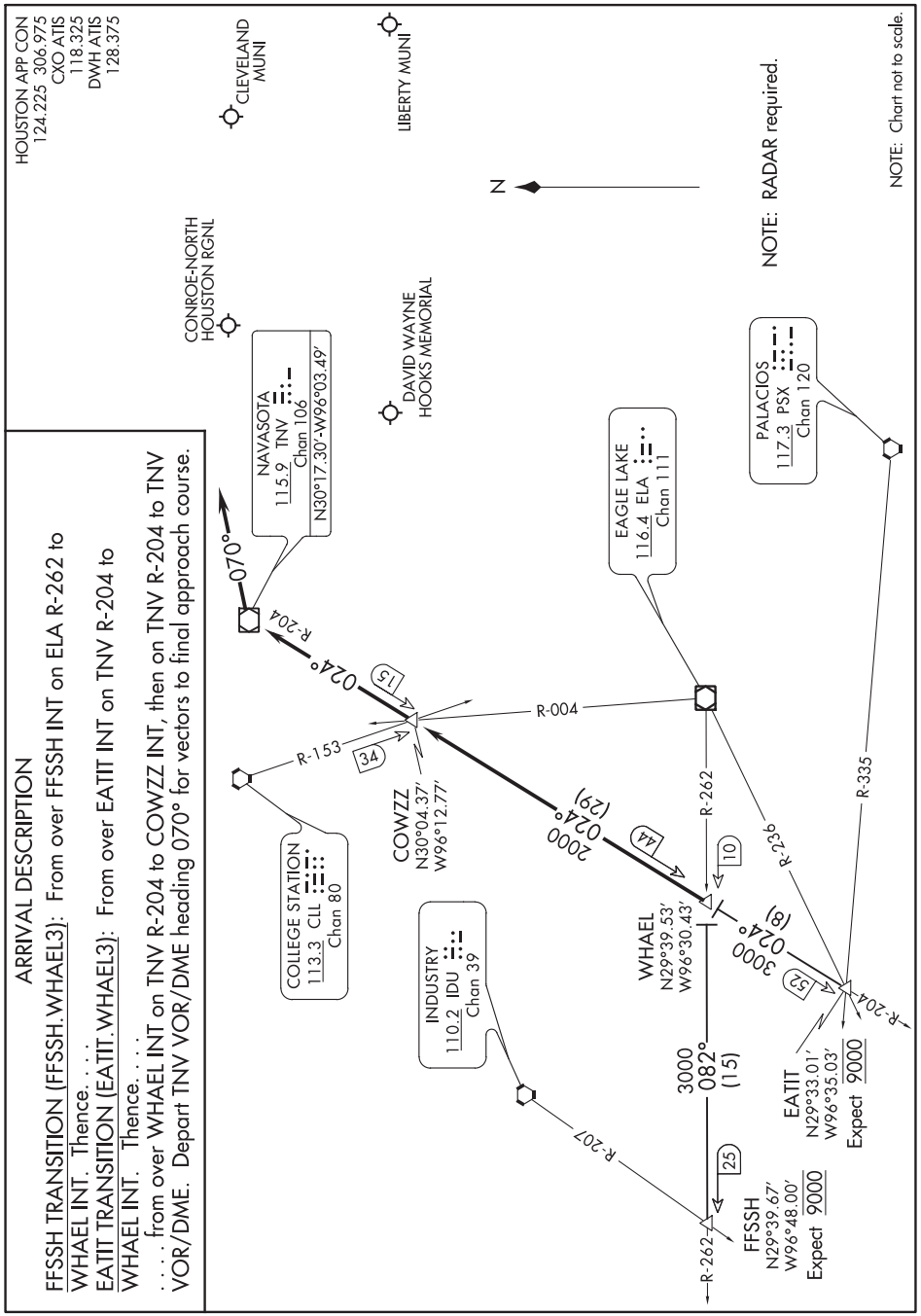
LANDING ARM, AXH, BYY, EFD, GLS, HPY, IWS, LBX, LVJ, SGR, TME, T00, T41, 54T
From WAPPL on track 250° to cross WLMOR at or above 15000 and at or below 21000, then on track 250° to HUDZY, then on track 250° to cross CLWSN at or above 12000, at or below 14000 and at 280K, then on track 250° to cross SWWAA at or above 10000, at or below 12000 and at 250K, then on track 191° to cross PUSHN at or above 8000, then on track 192° to cross BUGZY at or below 10000, then on track 175° to cross PLKTN at 8000, then on track 175°. Expect vectors to final approach course.

SC-5, 25 FEB 2021 to 22 APR 2021

(WHAEL.WHAEL3) 20198 AL-5573 (FAA)

WHAEL THREE ARRIVAL

HOUSTON, TEXAS



ARRIVAL DESCRIPTION

FFSSH TRANSITION (FFSSH.WHAEL3): From over FFSSH INT on ELA R-262 to WHAEL INT. Thence. . . .

EATIT TRANSITION (EATIT.WHAEL3): From over EATIT INT on TNV R-204 to WHAEL INT. Thence. . . .

. . . . from over WHAEL INT on TNV R-204 to COWZZ INT, then on TNV R-204 to TNV VOR/DME. Depart TNV VOR/DME heading 070° for vectors to final approach course.

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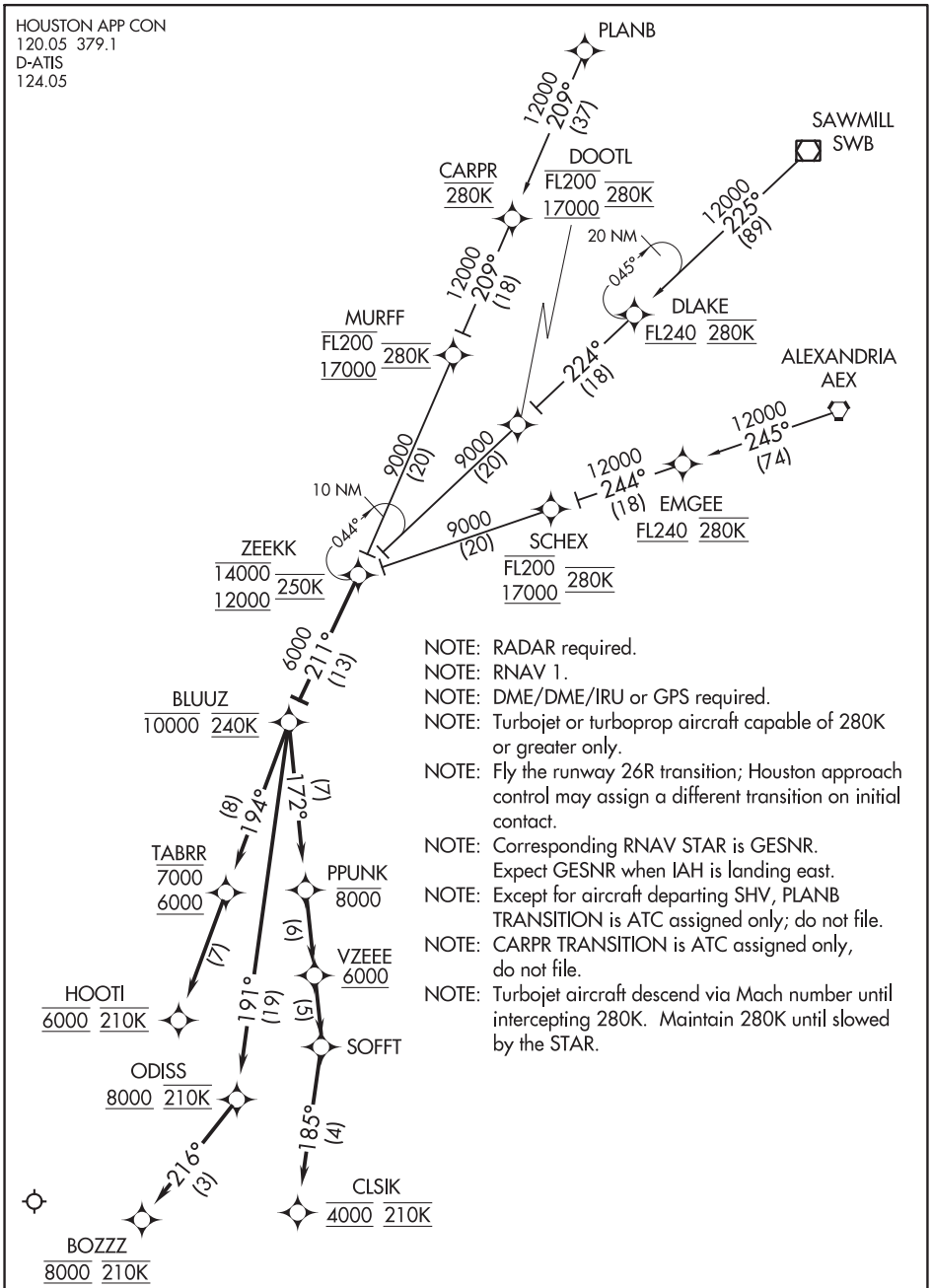
WHAEL THREE ARRIVAL

HOUSTON, TEXAS

(WHAEL.WHAEL3) 22JUN17

ZEEKK TWO ARRIVAL (RNAV)



NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: Turbojet or turboprop aircraft capable of 280K or greater only.
NOTE: Fly the runway 26R transition; Houston approach control may assign a different transition on initial contact.
NOTE: Corresponding RNAV STAR is GESNR. Expect GESNR when IAH is landing east.
NOTE: Except for aircraft departing SHV, PLANB TRANSITION is ATC assigned only; do not file.
NOTE: CARPR TRANSITION is ATC assigned only, do not file.
NOTE: Turbojet aircraft descend via Mach number until intercepting 280K. Maintain 280K until slowed by the STAR.

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.

ARRIVAL ROUTE DESCRIPTION

ALEXANDRIA TRANSITION (AEX.ZEEKK2)
CARPR TRANSITION (CARPR.ZEEKK2)
PLANB TRANSITION (PLANB.ZEEKK2)
SAWMILL TRANSITION (SWB.ZEEKK2)

From ZEEKK on track 211° to cross BLUUZ at or below 10000 and at 240K.

LANDING RWY 26L: From BLUUZ on track 191° to cross ODISS at or above 8000 and at 210K, then on track 216° to cross BOZZZ at 8000 and at 210K. Expect ILS or LOC RWY 26L approach.

LANDING RWY 26R: From BLUZZ on track 194° to cross TABRR between 6000 and 7000, then on track 194° to cross HOOTI at 6000 and at 210K. Expect ILS or LOC RWY 26R approach.

LANDING RWY 27: From BLUUZ on track 172° to cross PPUNK at or below 8000, then on track 172° to cross VZEEE at or above 6000, then on track 172° to SOFFT, then on track 185° to cross CLSIK at 4000 and at 210K. Expect ILS or LOC RWY 27 approach.

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APP CRS	Rwy ldg	3005
124°	TDZE	21
	Apt Elev	21

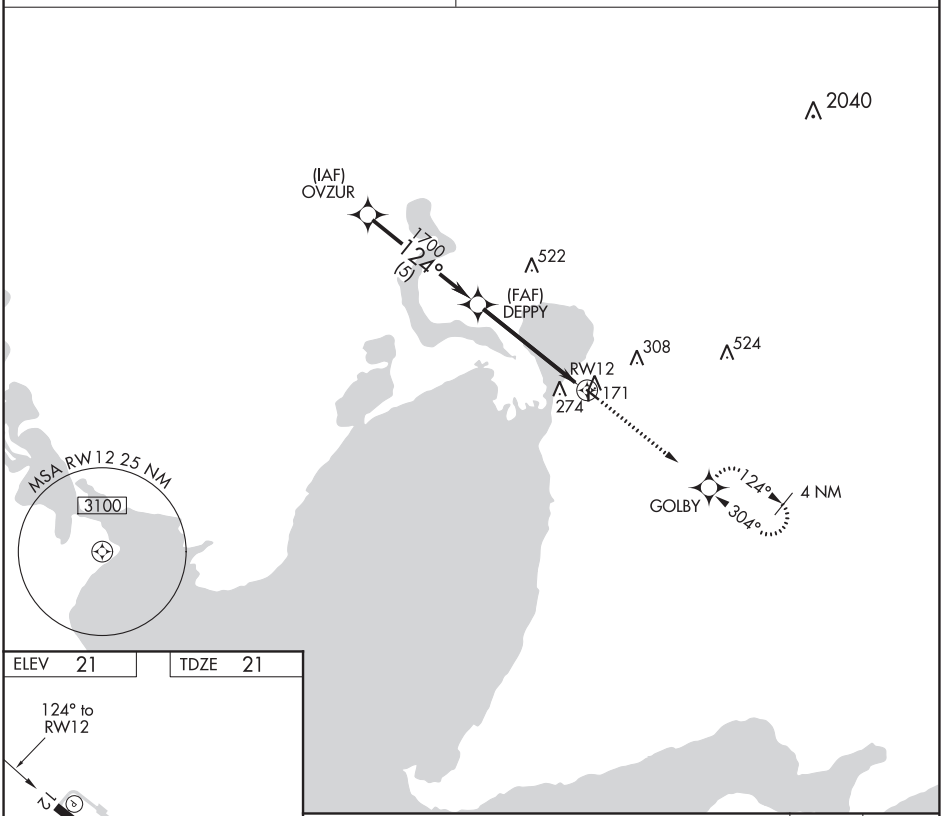
RNAV (GPS) RWY 12

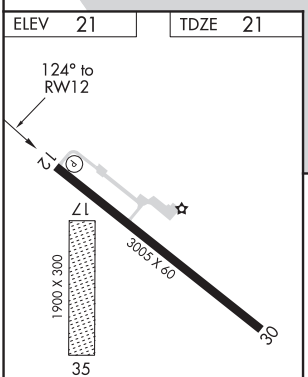
CHAMBERS COUNTY (TØØ)

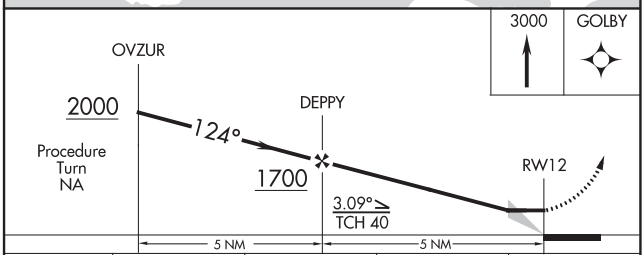
RADAR required.
Use William P Hobby altimeter setting.
GPS or RNP-0.3 required. DME/DME RNP-0.3 NA

MISSED APPROACH: Climb to 3000 direct GOLBY WP and hold.

HOUSTON APP CON	CTAF
134.45 281.4	122.9 L







CATEGORY	A	B	C	D
LNAV MDA	560-1 539 (600-1)		560-1½ 539 (600-1½)	NA
CIRCLING	620-1 599 (600-1)		620-1½ 599 (600-1½)	NA

MIRL Rwy 12-30 L
LIRL Rwy 12-30

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SC-5, 25 FEB 2021 to 22 APR 2021

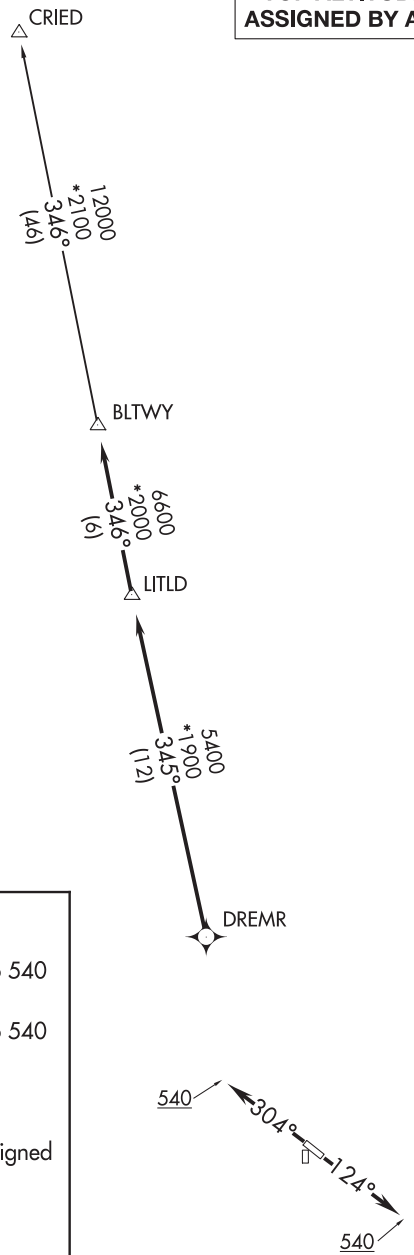
(BLTWY6.BLTWY) 19115

BLTWY SIX DEPARTURE (RNAV)

CHAMBERS COUNTY (TØØ)
ANAHUAC, TEXAS

CTAF
122.9
HOUSTON DEP CON
134.45 284.0

TOP ALTITUDE: ASSIGNED BY ATC



NOTE: RADAR required.

NOTE: DME/DME/IRU or GPS required.

NOTE: RNAV 1.

TAKEOFF MINIMUMS
Rwys 17, 35: NA - Environmental
Rwys 12, 30: Standard with minimum climb of 500′ per NM to 540.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 12: Climb on heading 124° to 540 for RADAR vectors to DREMR, thence . . . .
TAKEOFF RWY 30: Climb on heading 304° to 540 for RADAR vectors to DREMR, thence . . . .

...on track 345° to LITLD, then on track 346° to BLTWY, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

CRIED TRANSITION (BLTWY6.CRIED)

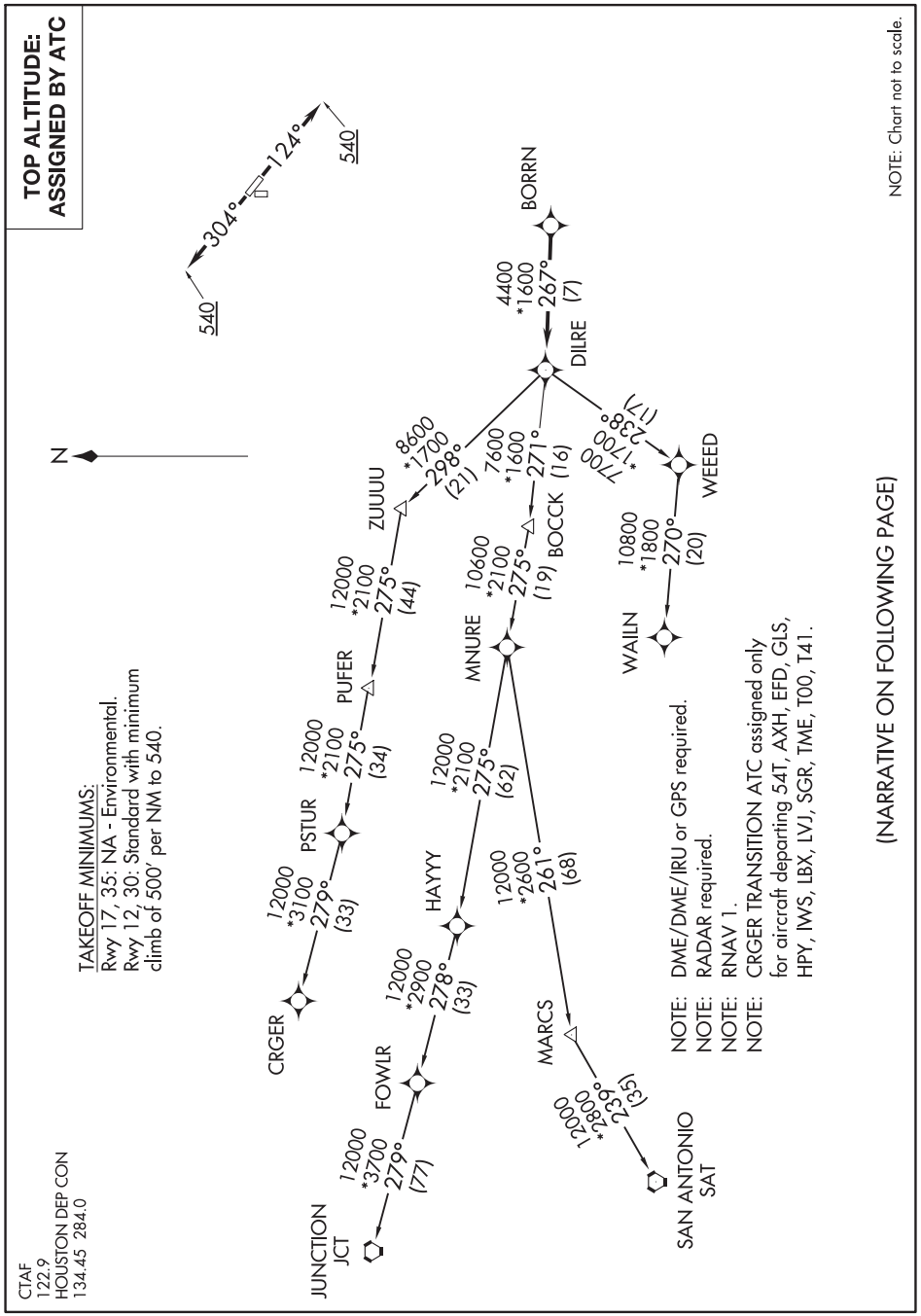
NOTE: Chart not to scale.

SC-5, 25 FEB 2021 to 22 APR 2021

BLTWY SIX DEPARTURE (RNAV)
(BLTWY6.BLTWY) 25APR19
ANAHUAC, TEXAS
CHAMBERS COUNTY (TØØ)

BORRN FOUR DEPARTURE (RNAV)

ANAHUAC, TEXAS



SC-5, 25 FEB 2021 to 22 APR 2021

BORRN FOUR DEPARTURE (RNAV)
ANAHUAC, TEXAS

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 12: Climb on heading 124° to 540, for RADAR vectors to BORRN, thence. . . .
TAKEOFF RWY 30: Climb on heading 304° to 540, for RADAR vectors to BORRN, thence. . . .

. . . .on track 267° to DILRE, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

CRGER TRANSITION (BORRN4.CRGER)
JUNCTION TRANSITION (BORRN4.JCT)
MNURE TRANSITION (BORRN4.MNURE)
SAN ANTONIO TRANSITION (BORRN4.SAT)
WAILN TRANSITION (BORRN4.WAILN)

HOODO SIX DEPARTURE (RNAV)
(HOODO6.HOODO) 25APR19

CHAMBERS COUNTY (TØØ)
ANAHUAC, TEXAS

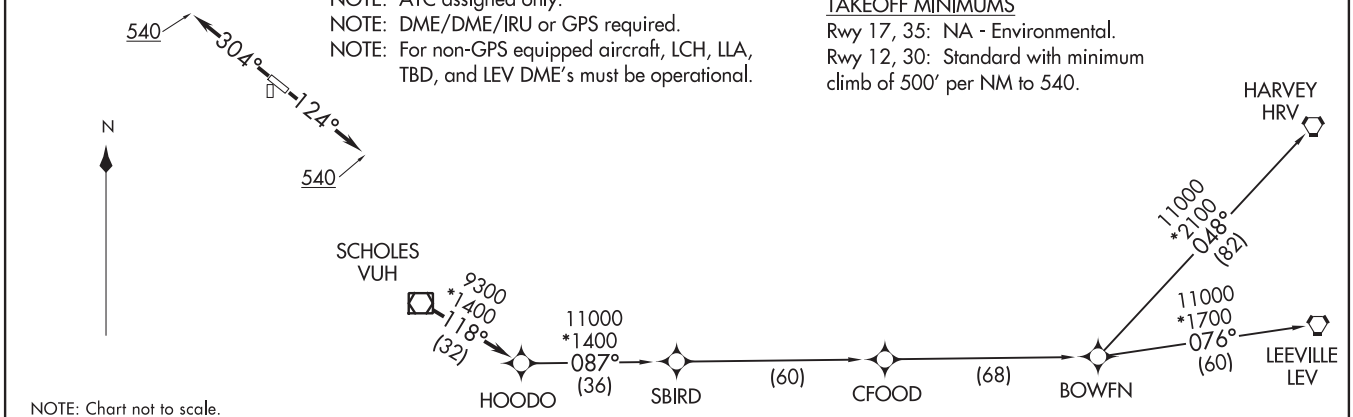
(HOODO6.HOODO) 19115
HOODO SIX DEPARTURE (RNAV)
CHAMBERS COUNTY (TØØ)
ANAHUAC, TEXAS
AL-6395 (FAA)

TOP ALTITUDE: ASSIGNED BY ATC

CTAF
122.9
HOUSTON DEP CON
134.45 284.0

NOTE: RNAV 1.
NOTE: RADAR required.
NOTE: ATC assigned only.
NOTE: DME/DME/IRU or GPS required.
NOTE: For non-GPS equipped aircraft, LCH, LLA, TBD, and LEV DME's must be operational.

TAKEOFF MINIMUMS
Rwy 17, 35: NA - Environmental.
Rwy 12, 30: Standard with minimum climb of 500′ per NM to 540.



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 12: Climb heading 124° to 540, for RADAR vectors to VUH VOR/DME, thence . . . .
TAKEOFF RWY 30: Climb heading 304° to 540, for RADAR vectors to VUH VOR/DME, thence . . . .

. . . . on track 118° to HOODO, then on (transition). Maintain ATC assigned altitude.
Expect filed altitude 10 minutes after departure.

BOWFN TRANSITION (HOODO6.BOWFN)
CFOOD TRANSITION (HOODO6.CFOOD)
HARVEY TRANSITION (HOODO6.HRV)
LEEVILLE TRANSITION (HOODO6.LEV)
SBIRD TRANSITION (HOODO6.SBIRD)

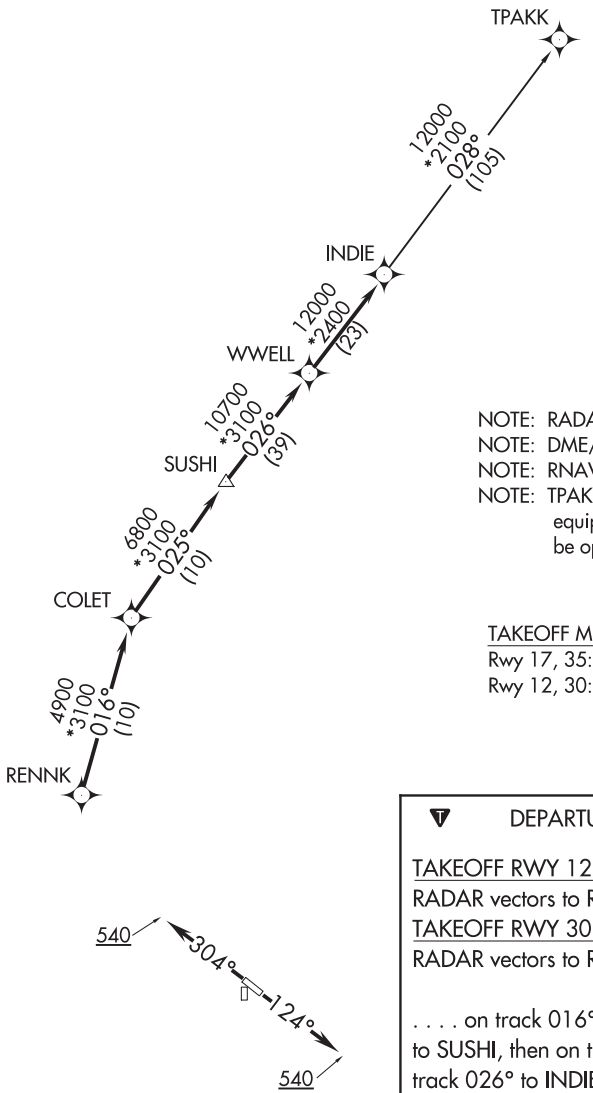
(INDIE7.INDIE) 19115

INDIE SEVEN DEPARTURE (RNAV)

CHAMBERS COUNTY (TØØ)
ANAHUAC, TEXAS

CTAF
122.9
HOUSTON DEP CON
134.45 284.0

TOP ALTITUDE: ASSIGNED BY ATC



NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV 1.
NOTE: TPAKK TRANSITION: For non GPS equipped aircraft TNV DME must be operational.

TAKEOFF MINIMUMS
Rwy 17, 35: NA - Environmental
Rwy 12, 30: Standard with minimum climb of 500′ per NM to 540.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 12: Climb heading 124° to 540 for RADAR vectors to RENNK, thence . . . .
TAKEOFF RWY 30: Climb heading 304° to 540 for RADAR vectors to RENNK, thence . . . .

. . . . on track 016° to COLET, then on track 025° to SUSHI, then on track 026° to WWELL, then on track 026° to INDIE, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

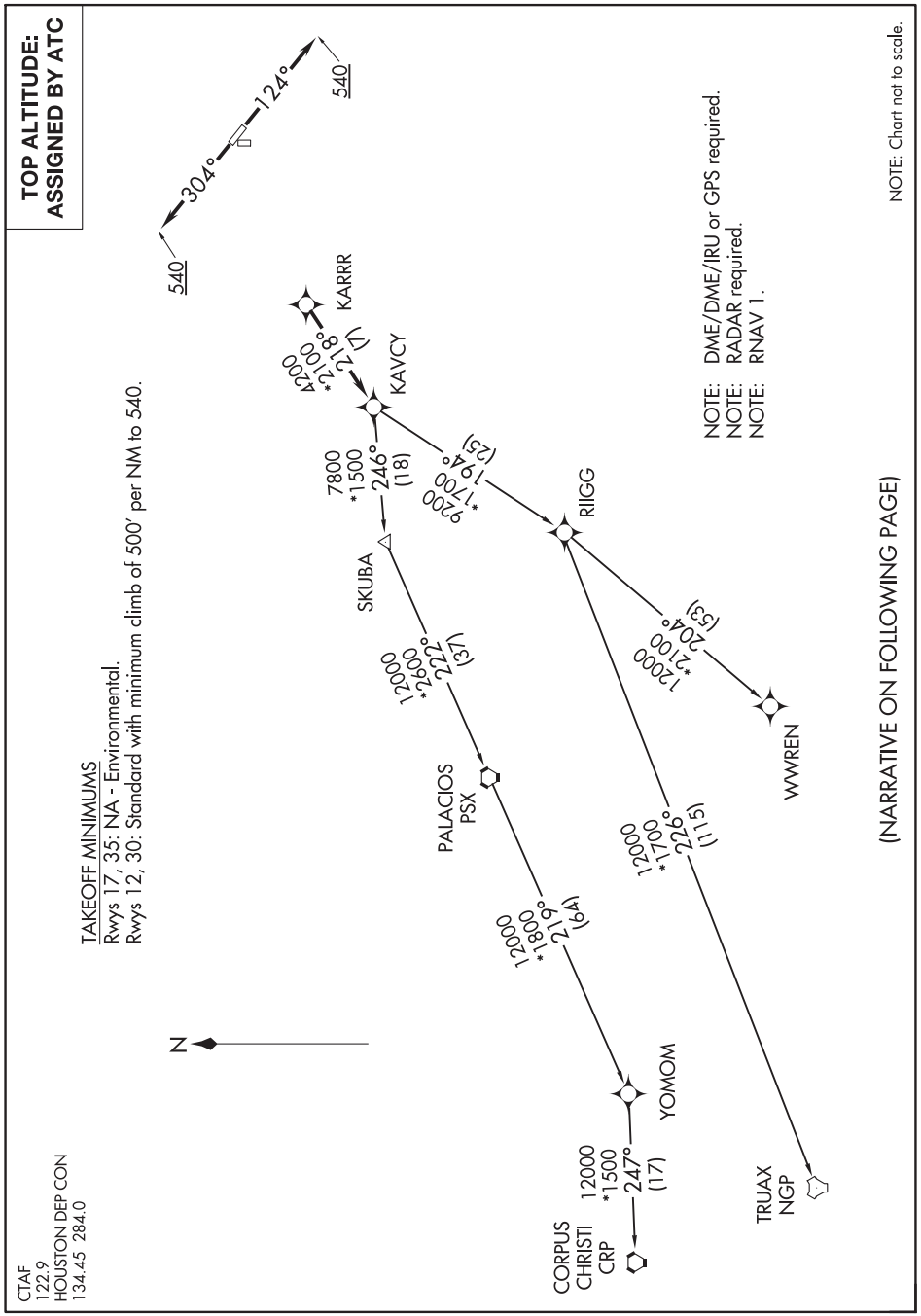
TPAKK TRANSITION (INDIE7.TPAKK)

NOTE: Chart not to scale.

SC-5, 25 FEB 2021 to 22 APR 2021

INDIE SEVEN DEPARTURE (RNAV)
(INDIE7.INDIE) 25APR19

ANAHUAC, TEXAS
CHAMBERS COUNTY (TØØ)


TOP ALTITUDE: ASSIGNED BY ATC
540
304°
124°
540
KARRR
4200
*2100
218°
(1)
KAVCY
7800
*1500
246°
(18)
SKUBA
9200
*1700
194°
(25)
RIIGG
1200
*2600
222°
(37)
PALACIOS
PSX
1200
*1800
216°
(49)
YOMOM
12000
*1500
247°
(17)
CORPUS CHRISTI
CRP
1200
*2100
204°
(53)
WWREN
1000
*1700
226°
(51)
TRUAX
NGP
N
TAKEOFF MINIMUMS
Rwys 17, 35: NA - Environmental.
Rwys 12, 30: Standard with minimum climb of 500' per NM to 540.
NOTE: DME/DME/IRU or GPS required.
NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: Chart not to scale.
(NARRATIVE ON FOLLOWING PAGE)
CTAF
122.9
HOUSTON DEP CON
134.45 284.0

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 12: Climb on heading 124° to 540, for RADAR vectors to KARRR, thence. . . .
TAKEOFF RWY 30: Climb on heading 304° to 540, for RADAR vectors to KARRR, thence. . . .

. . . .on track 218° to KAVCY, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

CORPUS CHRISTI TRANSITION (KARRR6.CRP)
PALACIOS TRANSITION (KARRR6.PSX)
TRUAX TRANSITION (KARRR6.NGP)
WWREN TRANSITION (KARRR6.WWREN)
YOMOM TRANSITION (KARRR6.YOMOM)

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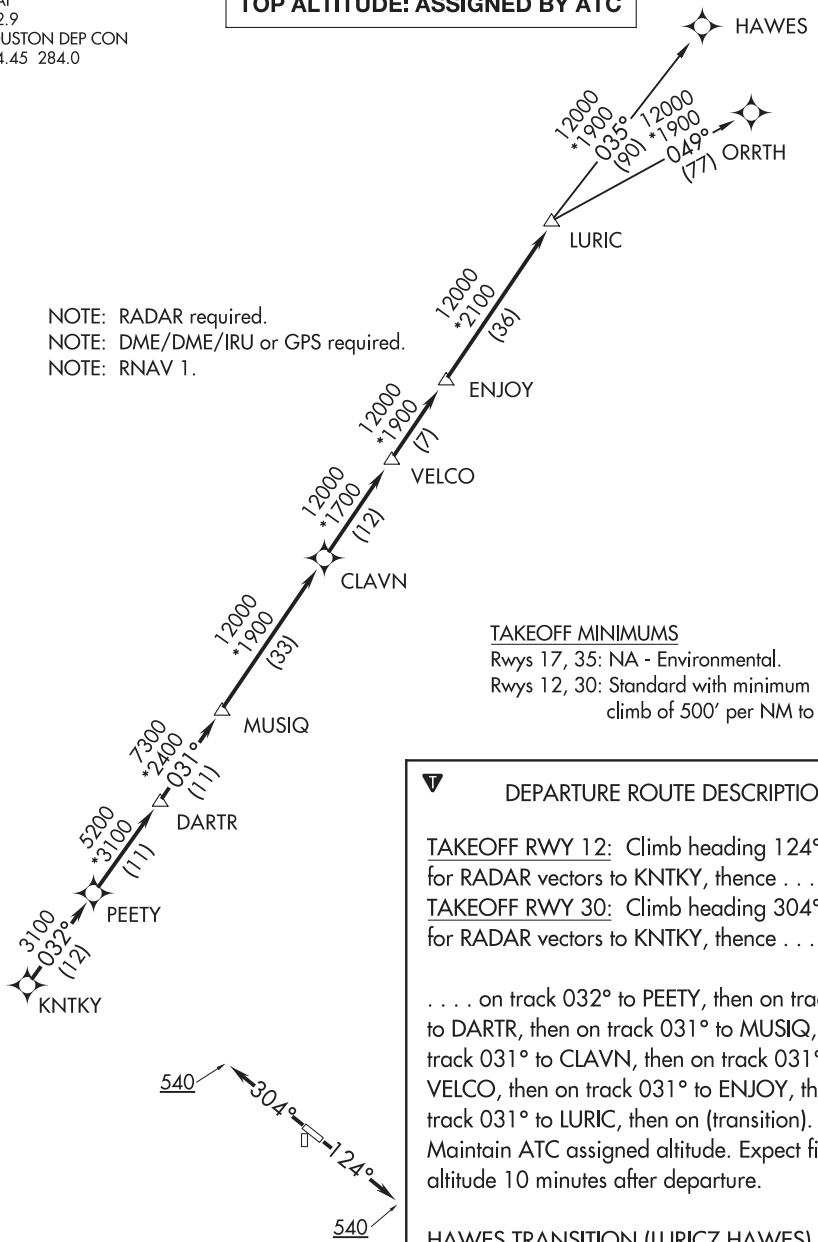
LURIC SEVEN DEPARTURE (RNAV)

CHAMBERS COUNTY (TØØ)
ANAHUAC, TEXAS

CTAF
122.9
HOUSTON DEP CON
134.45 284.0

TOP ALTITUDE: ASSIGNED BY ATC



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

TAKEOFF MINIMUMS
Rwys 17, 35: NA - Environmental.
Rwys 12, 30: Standard with minimum climb of 500′ per NM to 540.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 12: Climb heading 124° to 540 for RADAR vectors to KNTKY, thence . . . .
TAKEOFF RWY 30: Climb heading 304° to 540 for RADAR vectors to KNTKY, thence . . . .

. . . . on track 032° to PEETY, then on track 032° to DARTR, then on track 031° to MUSIQ, then on track 031° to CLAVN, then on track 031° to VELCO, then on track 031° to ENJOY, then on track 031° to LURIC, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

HAWES TRANSITION (LURIC7.HAWES)
ORRTH TRANSITION (LURIC7.ORRTH)

NOTE: Chart not to scale.

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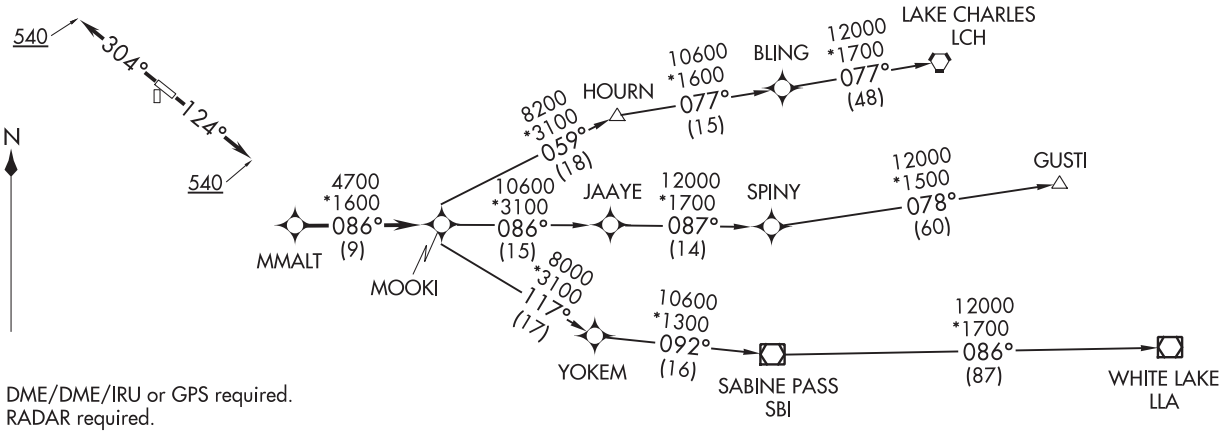
TOP ALTITUDE: ASSIGNED BY ATC

CTAF
122.9
HOUSTON DEP CON
134.45 284.0

TAKEOFF MINIMUMS
Rwy 17, 35: NA - environmental.
Rwy 12, 30: Standard with minimum climb of 500′ per NM to 540.



NOTE: DME/DME/IRU or GPS required.
NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: GUSTI and LCH TRANSITIONS ATC assigned only for aircraft departing AXH, EFD, GLS, HPY, IWS, LBX, LVJ, SGR, TME, T00, T41 and 54T.

DEPARTURE ROUTE DESCRIPTION

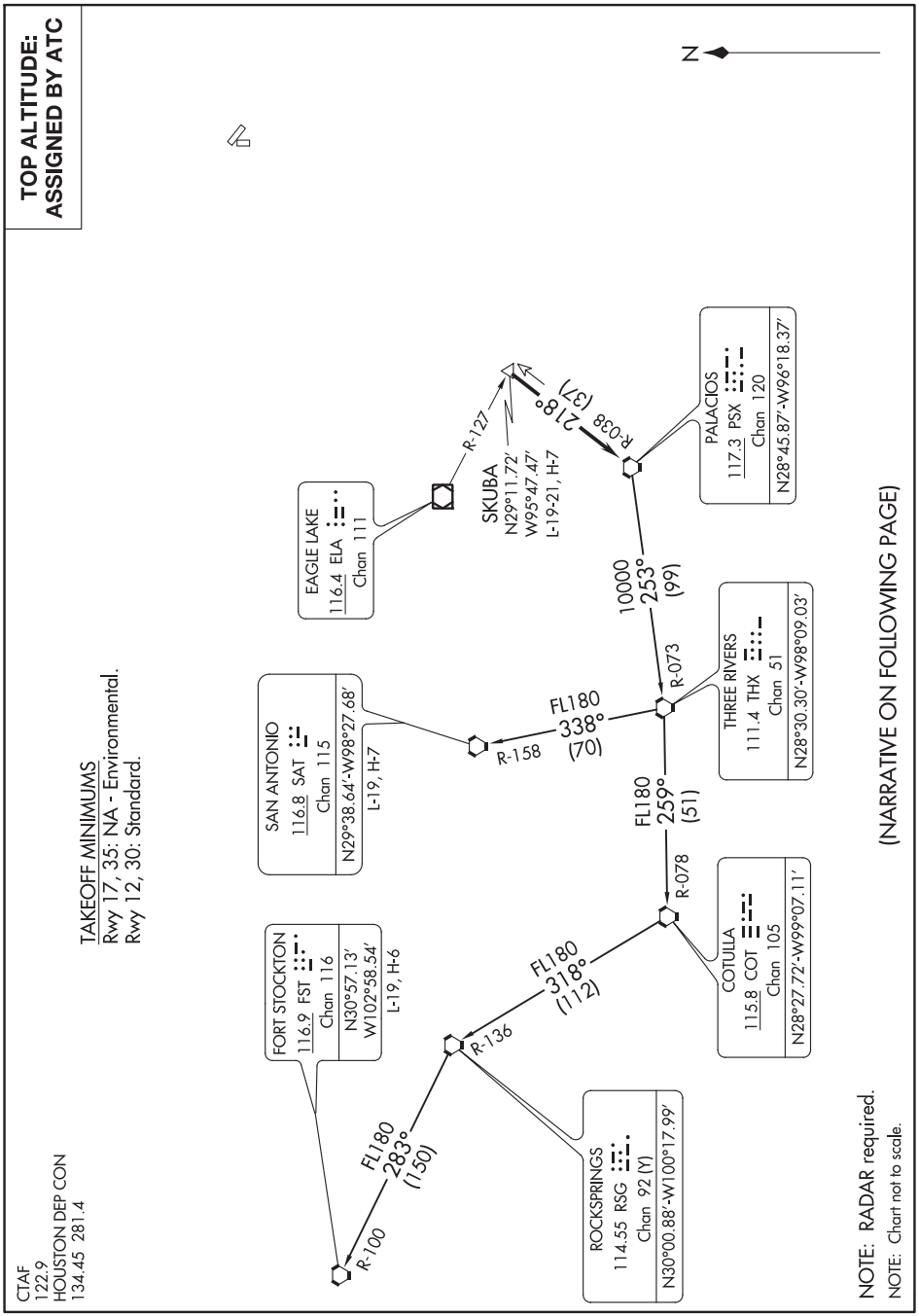
TAKEOFF RWY 12: Climb on heading 124° to 540 for RADAR vectors to MMALT, thence. . . .
TAKEOFF RWY 30: Climb on heading 304° to 540 for RADAR vectors to MMALT, thence. . . .

. . . .on track 086° to MOOKI, then on (transition). Maintain ATC assigned altitude.
Expect filed altitude 10 minutes after departure.

GUSTI TRANSITION (MMALT5.GUSTI)
LAKE CHARLES TRANSITION (MMALT5.LCH)
WHITE LAKE TRANSITION (MMALT5.LLA)

NOTE: Chart not to scale.

PALACIOS ONE DEPARTURE



PALACIOS ONE DEPARTURE
ANAHUAC, TEXAS
CHAMBERS COUNTY (TØØ)

DEPARTURE ROUTE DESCRIPTION

TAKEOFF ALL RUNWAYS: When entering controlled airspace, climb on assigned heading for RADAR vectors to SKUBA INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .

. . . .on PSX R-038 to PSX VORTAC.

FORT STOCKTON TRANSITION (PSX1.FST): From over PSX VORTAC on PSX R-253 and THX R-073 to THX VORTAC, then on THX R-259 and COT R-078 to COT VORTAC, then on COT R-318 and RSG R-136 to RSG VORTAC, then on RSG R-283 and FST R-100 to FST VORTAC.

SAN ANTONIO TRANSITION (PSX1.SAT): From over PSX VORTAC on PSX R-253 and THX R-073 to THX VORTAC, then on SAT R-158 to SAT VORTAC.

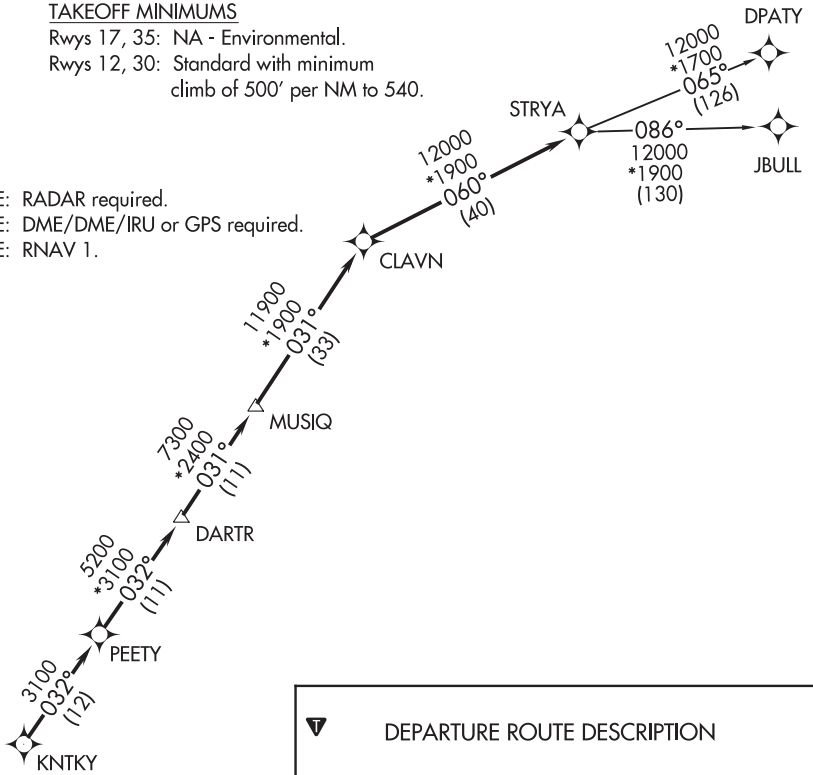
STRYA SEVEN DEPARTURE (RNAV)

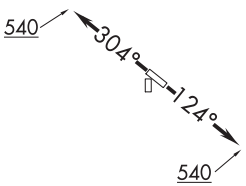
CTAF
122.9
HOUSTON DEP CON
134.45 284.0

TOP ALTITUDE: ASSIGNED BY ATC

TAKEOFF MINIMUMS
Rwys 17, 35: NA - Environmental.
Rwys 12, 30: Standard with minimum climb of 500′ per NM to 540.

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





NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 12: Climb heading 124° to 540 for RADAR vectors to KNTKY, thence . . . .
TAKEOFF RWY 30: Climb heading 304° to 540 for RADAR vectors to KNTKY, thence . . . .

. . . . on track 032° to PEETY, then on track 032° to DARTR, then on track 031° to MUSIQ, then on track 031° to CLAVN, then on track 060° to STRYA, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

DPATY TRANSITION (STRYA7.DPATY)
JBULL TRANSITION (STRYA7.JBULL)

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SC-5, 25 FEB 2021 to 22 APR 2021

(STYCK7.STYCK) 19115 AL-6395 (FAA)

STYCK SEVEN DEPARTURE (RNAV)

CHAMBERS COUNTY (TØØ)
ANAHUAC, TEXAS

TOP ALTITUDE: ASSIGNED BY ATC

CTAF
122.9
HOUSTON DEP CON
134.45 284.0

WTSON
DOLEY
12000
*2000
339°
(67)
12000
*2100
346°
(65)
STYCK
12000
*1900
332°
(39)
WLLIS
6400
*2000
331°
(17)
SPICR
3000
*2000
331°
(12)
BBYSE
540
304°
124°
540

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

TAKEOFF MINIMUMS
Rwys 17, 35: NA - Environmental.
Rwys 12, 30: Standard with minimum climb of 500′ per NM to 540.

NOTE: Chart not to scale.

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DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 12: Climb heading 124° to 540 for RADAR vectors to BBYSE, thence. . . .
TAKEOFF RWY 30: Climb heading 304° to 540 for RADAR vectors to BBYSE, thence. . . .

. . . .on track 331° to SPICR, then on track 331° to WLLIS, then on track 332° to STYCK, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

DOLEY TRANSITION (STYCK7.DOLEY)
WTSON TRANSITION (STYCK7.WTSON)

WATFO FIVE DEPARTURE (RNAV)

TOP ALTITUDE: ASSIGNED BY ATC

CTAF
122.9
HOUSTON DEP CON
134.45 284.0

540 304° 124° 540

WATFO
4800
*1600
141°
(9)
SCHOLES
VUH

TAKEOFF MINIMUMS:
Rwy 17, 35: NA - environmental.
Rwy 12, 30: Standard with minimum climb of 500′ per NM to 540.

9000
*1700
144°
(76)
MUSYL

9000
*1700
132°
(130)
ANKRR

9000
*1700
123°
(199)
KELPP

NOTE: GPS required.
NOTE: RADAR required.
NOTE: RNAV 1.

NOTE: Chart not to scale.

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DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 12: Climb on heading 124° to 540, for RADAR vectors to WATFO, thence. . . .
TAKEOFF RWY 30: Climb on heading 304° to 540, for RADAR vectors to WATFO, thence. . . .

. . . .on track 141° to VUH VOR/DME, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

ANKRR TRANSITION (WATFO5.ANKRR)
KELPP TRANSITION (WATFO5.KELPP)
MUSYL TRANSITION (WATFO5.MUSYL)

(WYLSN7.WYLSN) 19115 AL-6395 (FAA)

CHAMBERS COUNTY (TØØ)

WYLSN SEVEN DEPARTURE (RNAV)

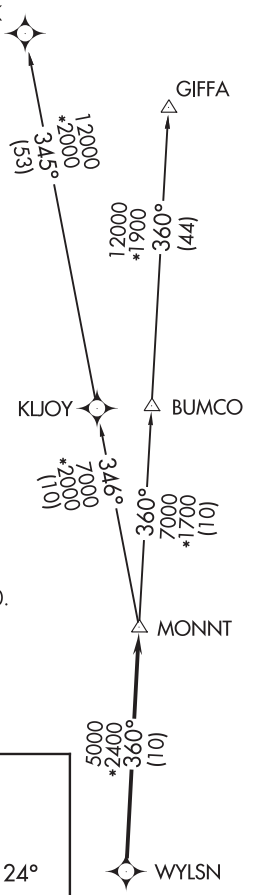
ANAHUAC, TEXAS

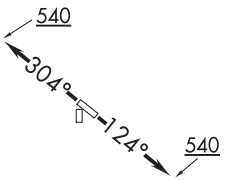
CTAF
122.9
HOUSTON DEP CON
134.45 284.0

TOP ALTITUDE: ASSIGNED BY ATC

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

TAKEOFF MINIMUMS
Rwy 17, 35: NA - Environmental.
Rwy 12, 30: Standard with minimum climb of 500′ per NM to 540.





DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 12: Climb on heading 124° to 540 for RADAR vectors to WYLSN, thence. . . .
TAKEOFF RWY 30: Climb on heading 304° to 540 for RADAR vectors to WYLSN, thence. . . .

. . . .on track 360° to MONNT, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

GIFFA TRANSITION (WYLSN7.GIFFA)
MAJKK TRANSITION (WYLSN7.MAJKK)

NOTE: Chart not to scale.

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WYLSN SEVEN DEPARTURE (RNAV)

(WYLSN7.WYLSN) 25APR19

ANAHUAC, TEXAS

CHAMBERS COUNTY (TØØ)

ILS or LOC RWY 17
TEXAS GULF COAST RGNL (LBX)

LOC/DME I-LBX	APP CRS	Rwy ldg	7000
109.1	175°	TDZE	25
Chan 28		Apt Elev	25

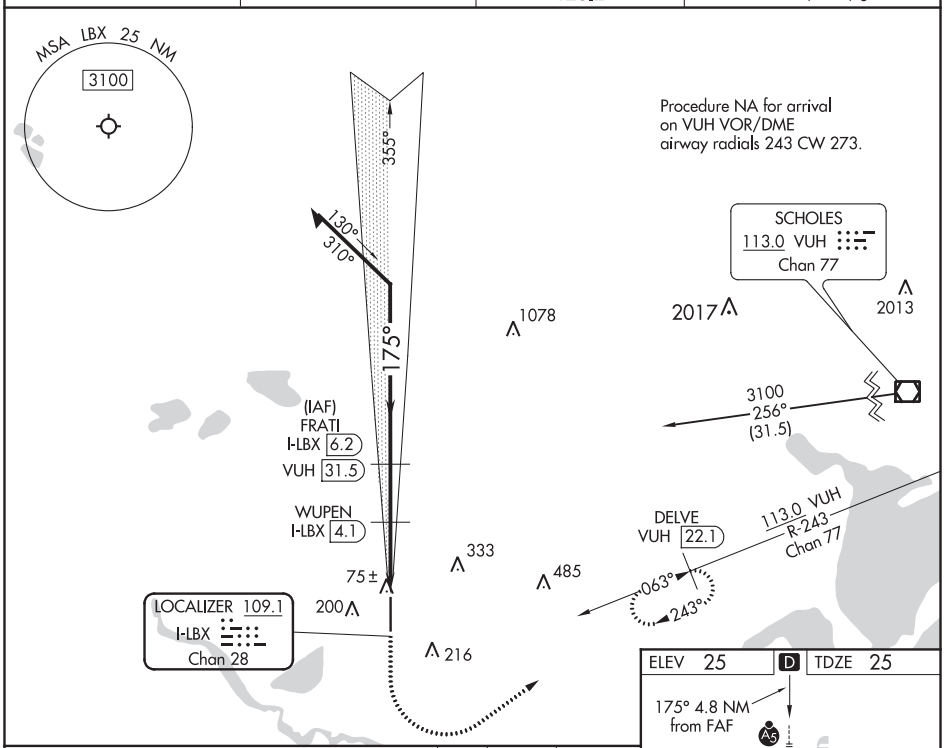
DME required.

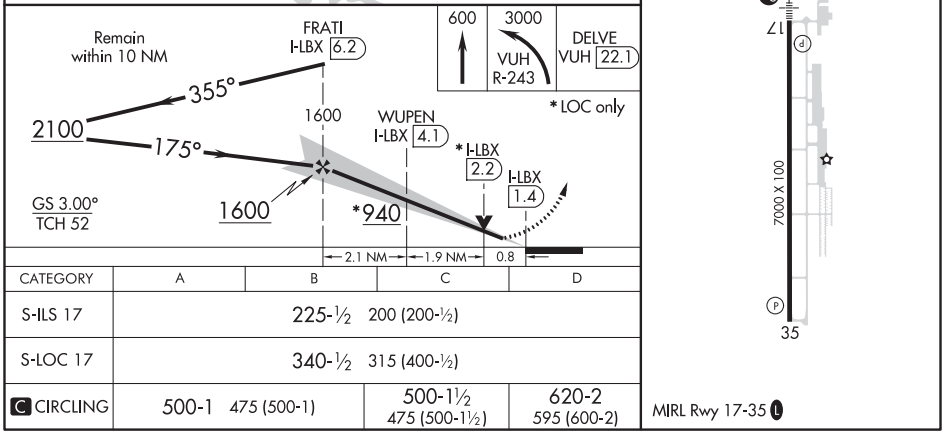
For inop ALS, increase S-LOC 17 Cat C/D visibility to ⅞ SM.
Circling NA east of Rwy 17-35.

MALSR

MISSED APPROACH: Climb to 600 then climbing left turn to 3000 on VUH VOR/DME R-243 to DELVE/VUH 22.1 DME and hold.

ASOS	HOUSTON APP CON	CLNC DEL	UNICOM
119.925	134.45 284.0	125.2	123.0 (CTAF) L





CATEGORY	A	B	C	D
S-ILS 17	225-½ 200 (200-½)			
S-LOC 17	340-½ 315 (400-½)			
C CIRCLING	500-1 475 (500-1)		500-1½ 475 (500-1½)	620-2 595 (600-2)

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ANGLETON/LAKE JACKSON, TEXAS AL-6453 (FAA) 20142

RNAV (GPS) RWY 17
TEXAS GULF COAST RGNL (LBX)

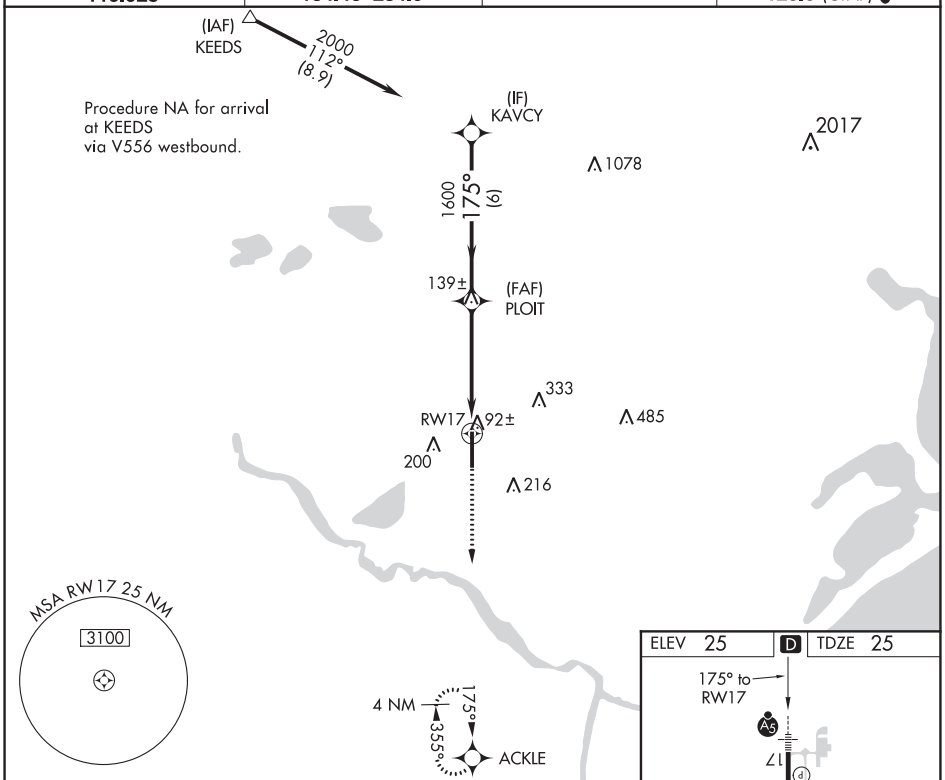
WAAS CH 70316 W17A	APP CRS 175°	Rwy ldg 7000 TDZE 25 Apt Elev 25

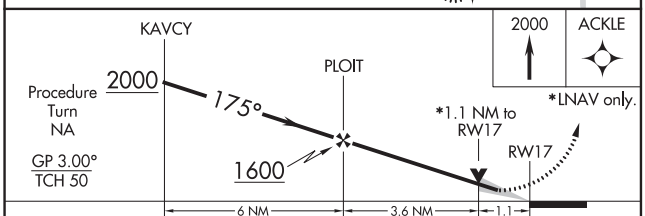
DME/DME RNP-0.3 NA. Baro-VNAV NA below -16°C (4°F). When local altimeter setting not received, use William P. Hobby altimeter setting and increase all DAs/MDAs 100 feet and Circling Cat D visibility ¼ SM. Baro-VNAV and VDP NA when using William P. Hobby altimeter setting. Circling NA east of Rwy 17-35. For inop MALSR, increase LPV visibility to 1 mile all Cats, LNAV Cat D visibility to 1¼ mile.

MALSR

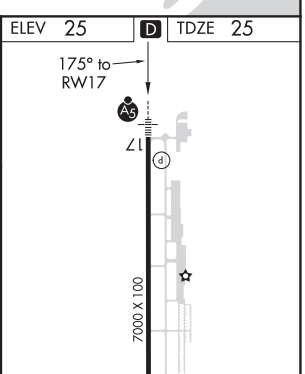
MISSED APPROACH: Climb to 2000 direct ACKLE and hold.

ASOS	HOUSTON APP CON	CLNC DEL	UNICOM
119.925	134.45 284.0	125.2	123.0 (CTAF) L





CATEGORY	A	B	C	D
LPV DA	282-½ 257 (300-½)			
LNAV/VNAV DA	360-¾ 335 (400-¾)			
LNAV MDA	420-½ 395 (400-½)			420-1 395 (400-1)
C CIRCLING	480-1¼ 455 (500-1¼)	500-1¼ 475 (500-1¼)	500-1½ 475 (500-1½)	620-2 595 (600-2)



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SC-5, 25 FEB 2021 to 22 APR 2021

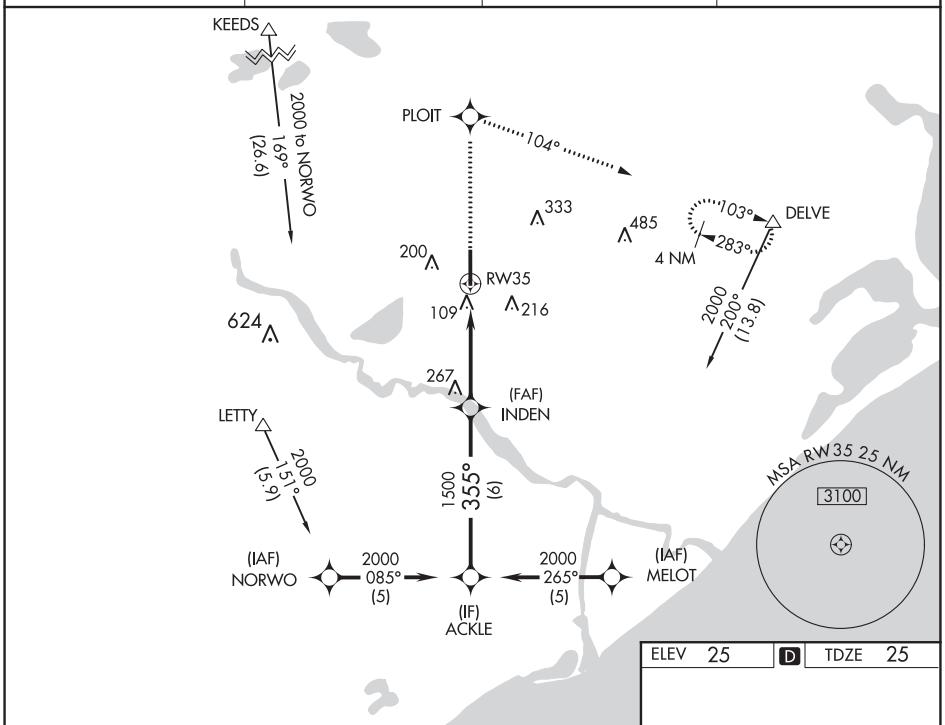
RNAV (GPS) RWY 35
TEXAS GULF COAST RGNL (LBX)

WAAS CH 77516 W35A	APP CRS 355°	Rwy ldg 7000 TDZE 25 Apt Elev 25

DME/DME RNP-0.3 NA. Baro-VNAV NA below -16°C (4°F). When local altimeter setting not received, use William P. Hobby altimeter setting and increase all DAs/MDAs 100 feet and Circling Cat D visibility ¼ SM. Baro-VNAV and VDP NA when using William P. Hobby altimeter setting. Circling NA east of Rwy 17-35.

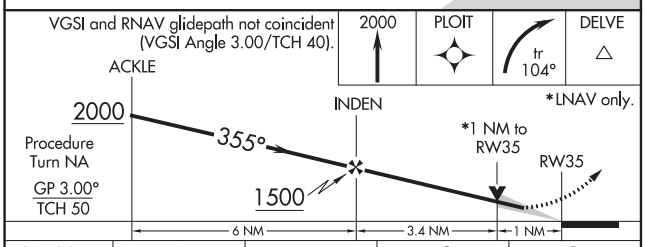
MISSED APPROACH: Climb to 2000 direct PLOIT and right turn via 104° track to DELVE and hold.

ASOS	HOUSTON APP CON	CLNC DEL	UNICOM
119.925	134.45 284.0	125.2	123.0 (CTAF) L

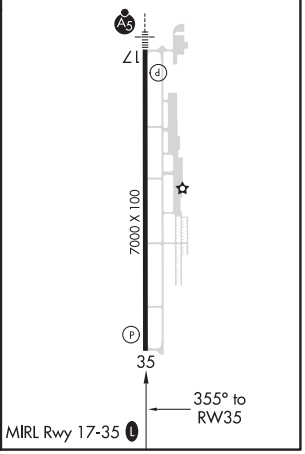


ELEV 25 | D | TDZE 25

VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 40).



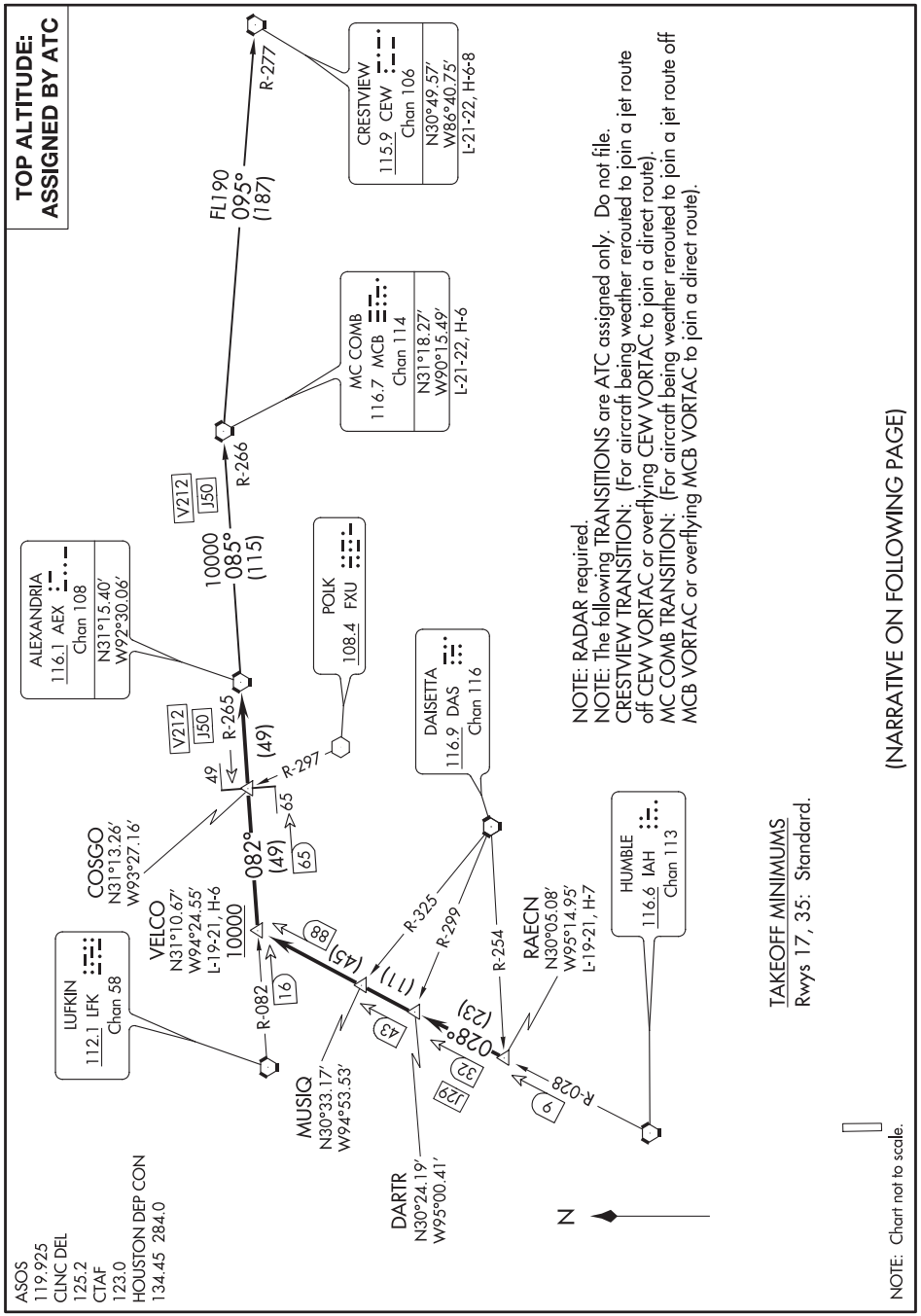
CATEGORY	A	B	C	D
LPV DA	275-¾ 250 (300-¾)			
LNAV/VNAV DA	428-1½ 403 (500-1½)			
LNAV MDA	420-1 395 (400-1)			420-1¼ 395 (400-1¼)
C CIRCLING	480-1½ 455 (500-1½)	500-1½ 475 (500-1½)		620-2 595 (600-2)



(AEX2.AEX) 19339 AL-6453 (FAA)

ALEXANDRIA TWO DEPARTURE

TEXAS GULF COAST RGNL (LBX)
ANGLETON/LAKE JACKSON, TEXAS



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ALEXANDRIA TWO DEPARTURE

(AEX2.AEX) 05DEC19

ANGLETON/LAKE JACKSON, TEXAS
TEXAS GULF COAST RGNL (LBX)

DEPARTURE ROUTE DESCRIPTION

TAKEOFF ALL RWYS: When entering controlled airspace, climb on assigned heading for RADAR vectors to RAECN INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .

. . . .on IAH R-028 to VELCO INT, cross VELCO INT at or above 10000, then right turn on LFK R-082 and AEX R-265 to AEX VORTAC.

CRESTVIEW TRANSITION (AEX2.CEW): From over AEX VORTAC on AEX R-085 and MCB R-266 to MCB VORTAC, then on MCB R-095 and CEW R-277 to CEW VORTAC.

MC COMB TRANSITION (AEX2.MCB): From over AEX VORTAC on AEX R-085 and MCB R-266 to MCB VORTAC.

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(BLTWY6.BLTWY) 19115

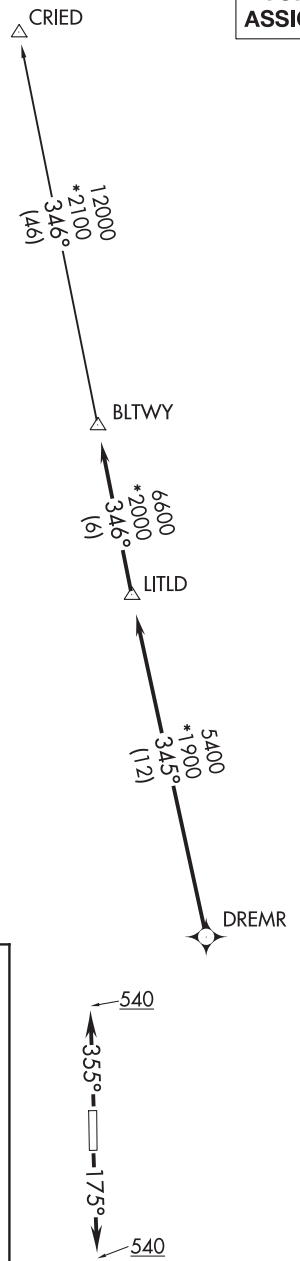
BLTWY SIX DEPARTURE (RNAV)

AL-6453 (FAA)

TEXAS GULF COAST RGNL (LBX)
ANGLETON/LAKE JACKSON, TEXAS

ASOS
119.925
CLNC DEL
125.2
CTAF
123.0
HOUSTON DEP CON
134.45 284.0

TOP ALTITUDE: ASSIGNED BY ATC



NOTE: RADAR required.

NOTE: DME/DME/IRU or GPS required.

NOTE: RNAV 1.

TAKEOFF MINIMUMS

Rwys 17, 35: Standard with minimum climb of 500′ per NM to 540.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 17: Climb on heading 175° to 540 for RADAR vectors to DREMR, thence . . . .
TAKEOFF RWY 35: Climb on heading 355° to 540 for RADAR vectors to DREMR, thence . . . .

. . . . on track 345° to LITLD, then on track 346° to BLTWY, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

CRIED TRANSITION (BLTWY6.CRIED)

NOTE: Chart not to scale.

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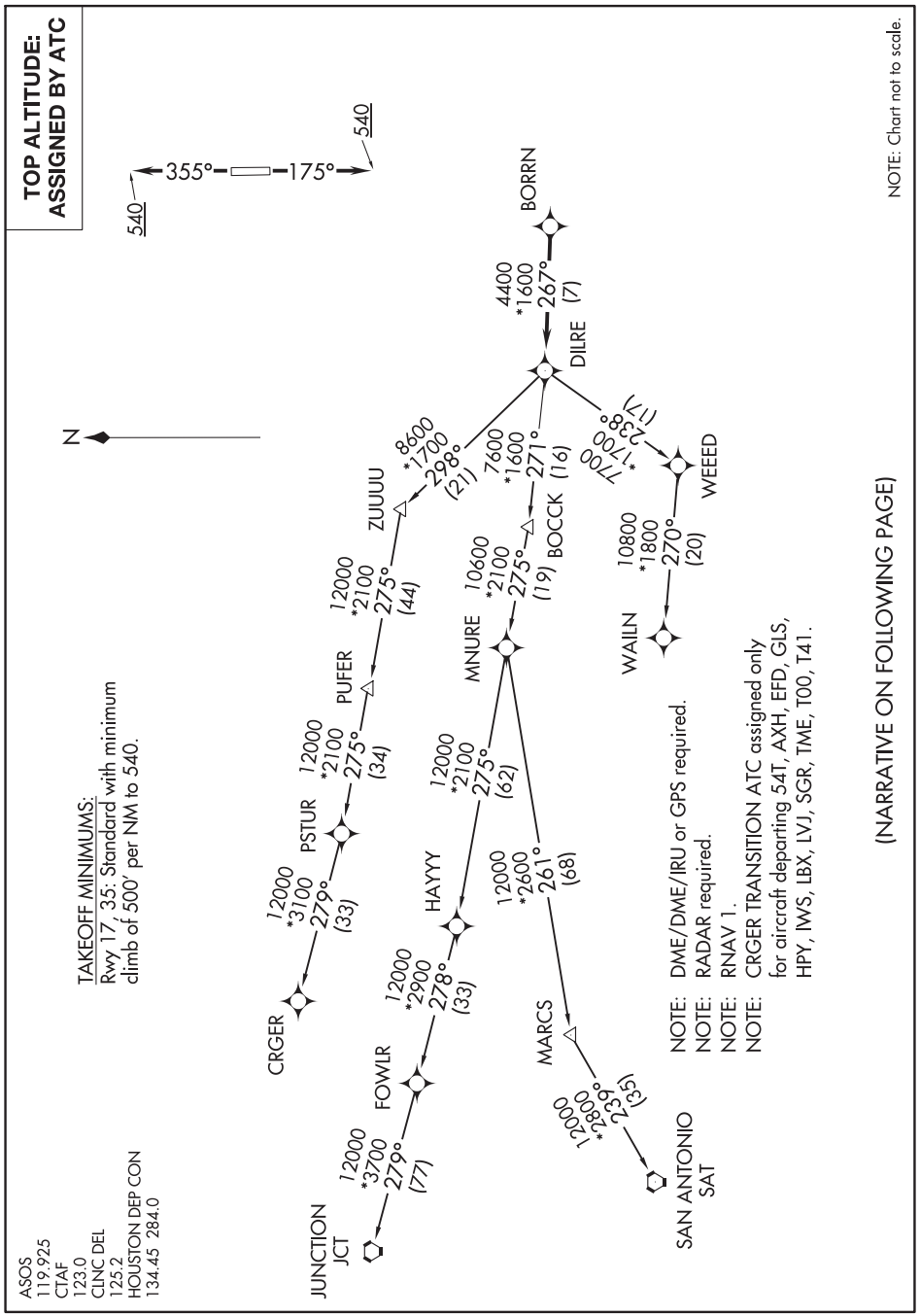
BLTWY SIX DEPARTURE (RNAV)
(BLTWY6.BLTWY) 25APR19

ANGLETON/LAKE JACKSON, TEXAS
TEXAS GULF COAST RGNL (LBX)

BORRN FOUR DEPARTURE (RNAV)



SC-5, 25 FEB 2021 to 22 APR 2021

DEPARTURE ROUTE DESCRIPTION

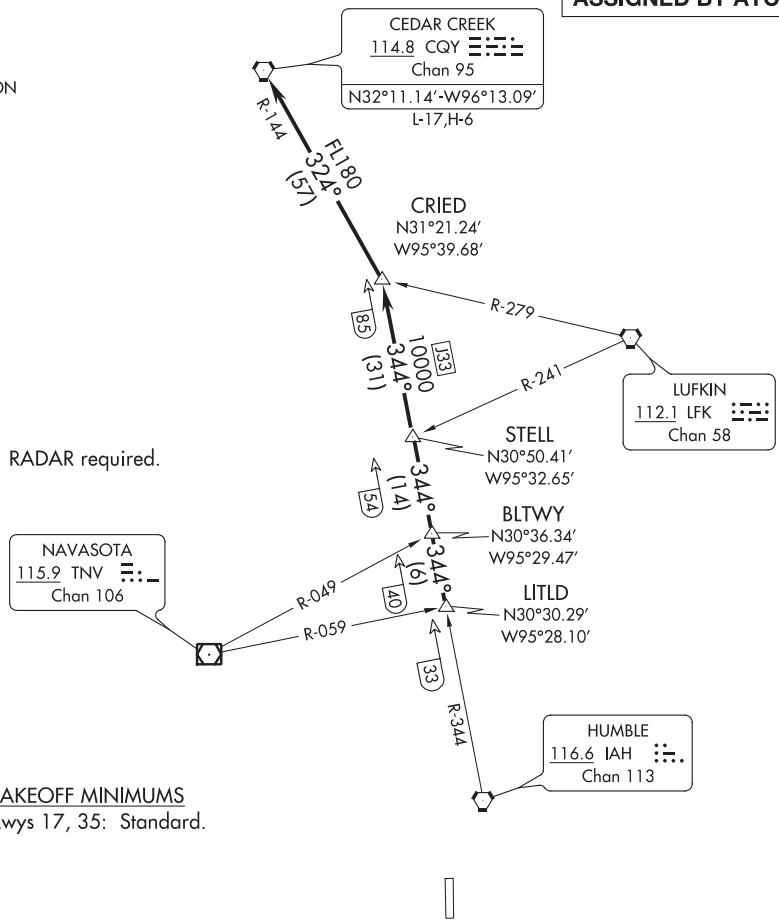
TAKEOFF RWY 17: Climb on heading 175° to 540, for RADAR vectors to BORRN, thence. . . .
TAKEOFF RWY 35: Climb on heading 355° to 540, for RADAR vectors to BORRN, thence. . . .

. . . .on track 267° to DILRE, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

CRGER TRANSITION (BORRN4.CRGER)
JUNCTION TRANSITION (BORRN4.JCT)
MNURE TRANSITION (BORRN4.MNURE)
SAN ANTONIO TRANSITION (BORRN4.SAT)
WAILN TRANSITION (BORRN4.WAILN)

ASOS
119.925
CLNC DEL
125.2
CTAF
123.0
HOUSTON DEP CON
134.45 284.0

TOP ALTITUDE: ASSIGNED BY ATC



NOTE: RADAR required.

TAKEOFF MINIMUMS
Rwys 17, 35: Standard.

NOTE: Chart not to scale.

T

DEPARTURE ROUTE DESCRIPTION

TAKEOFF ALL RUNWAYS: When entering controlled airspace, climb on assigned heading for RADAR vectors to LITLD INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence . . . .

. . . . on IAH R-344 to STELL INT, then on IAH R-344 to CRIED INT then left turn on CQY R-144 to CQY VORTAC.

SC-5, 25 FEB 2021 to 22 APR 2021
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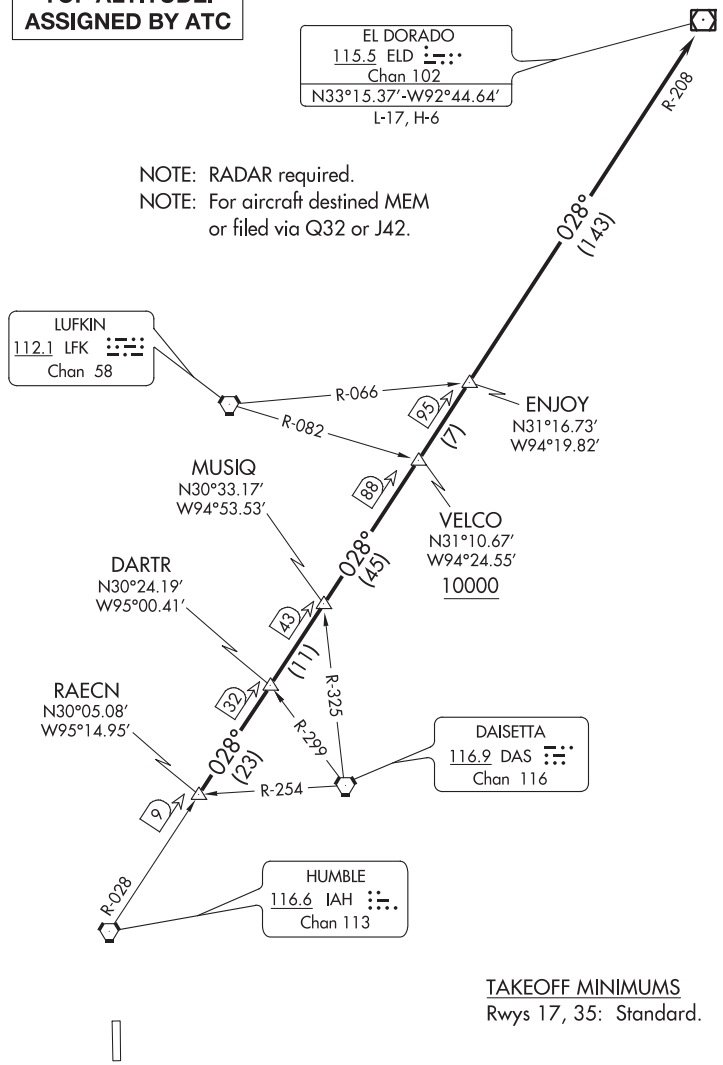
(ELD9.ELD) 18032 AL-6453 (FAA)

EL DORADO NINE DEPARTURE

TEXAS GULF COAST RGNL (LBX)
ANGLETON/LAKE JACKSON, TEXAS

ASOS
119.925
CLNC DEL
125.2
CTAF
123.0
HOUSTON DEP CON
134.45 284.0

TOP ALTITUDE: ASSIGNED BY ATC



TAKEOFF MINIMUMS
Rwys 17, 35: Standard.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF ALL RWYS: When entering controlled airspace, climb on assigned heading for RADAR vectors to RAECN INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .

. . . .on IAH R-028 and the ELD R-208 to ELD VOR/DME, cross VELCO INT at or above 10000.

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ASOS
119.925
CLNC DEL
125.2
CTAF
123.0
HOUSTON DEP CON
134.45 284.0

TOP ALTITUDE: ASSIGNED BY ATC

NOTE: RADAR required.
NOTE: For aircraft destined for the DFW terminal area only.

CEDAR CREEK
114.8 CQY
Chan 95

R-128

69

GIFFA
N31°22.89′
W95°15.10′
L-19-21, H-6
10000

85

LEONA
110.8 LOA
Chan 45

R-059

358°
(44)

R-121

BUMCO
N30°38.91′
W95°18.03′

41

358°
(10)

MONNT
N30°28.65′
W95°18.70′
L19-21, H7

31

DAISETTA
116.9 DAS
Chan 116

R-292

R-358

HUMBLE
116.6 IAH
Chan 113

TAKEOFF MINIMUMS
Rwys 17, 35: Standard.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF ALL RWYS: When entering controlled airspace, climb on assigned heading for RADAR vectors to MONNT INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .

. . . . on IAH R-358 to cross GIFFA INT at or above 10000.

NOTE: Chart not to scale.

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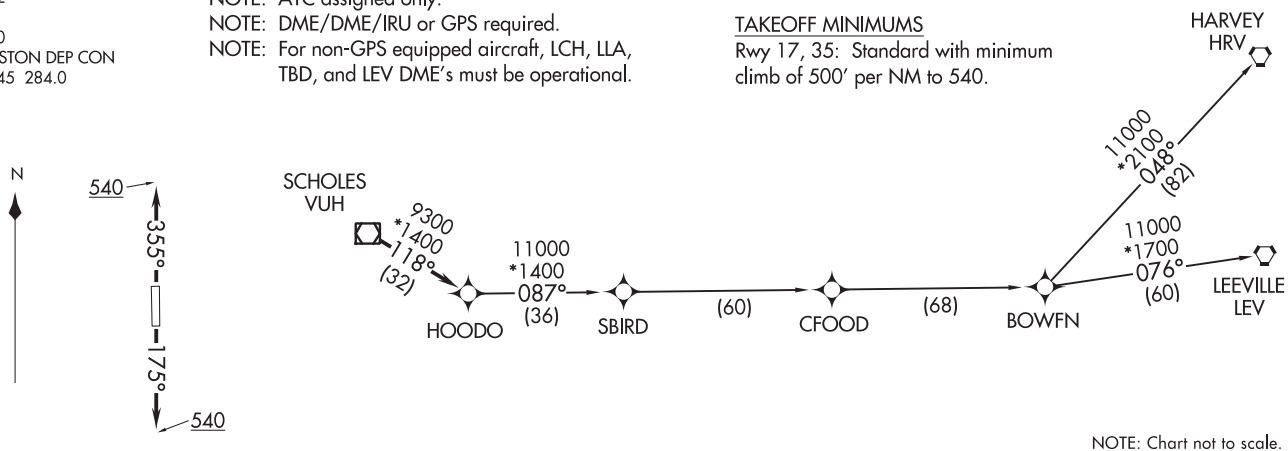
ASOS
119.925
CLNC DEL
125.2
CTAF
123.0
HOUSTON DEP CON
134.45 284.0

NOTE: RNAV 1.
NOTE: RADAR required.
NOTE: ATC assigned only.
NOTE: DME/DME/IRU or GPS required.
NOTE: For non-GPS equipped aircraft, LCH, LLA, TBD, and LEV DME's must be operational.

TOP ALTITUDE: ASSIGNED BY ATC

TAKEOFF MINIMUMS
Rwy 17, 35: Standard with minimum climb of 500' per NM to 540.



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 17: Climb heading 175° to 540, for RADAR vectors to VUH VOR/DME, thence . . . .
TAKEOFF RWY 35: Climb heading 355° to 540, for RADAR vectors to VUH VOR/DME, thence . . . .

. . . . on track 118° to HOODO, then on (transition). Maintain ATC assigned altitude.
Expect filed altitude 10 minutes after departure.

BOWFN TRANSITION (HOODO6.BOWFN)
CFOOD TRANSITION (HOODO6.CFOOD)
HARVEY TRANSITION (HOODO6.HRV)
LEEVILLE TRANSITION (HOODO6.LEV)
SBIRD TRANSITION (HOODO6.SBIRD)

(INDIE7.INDIE) 19115

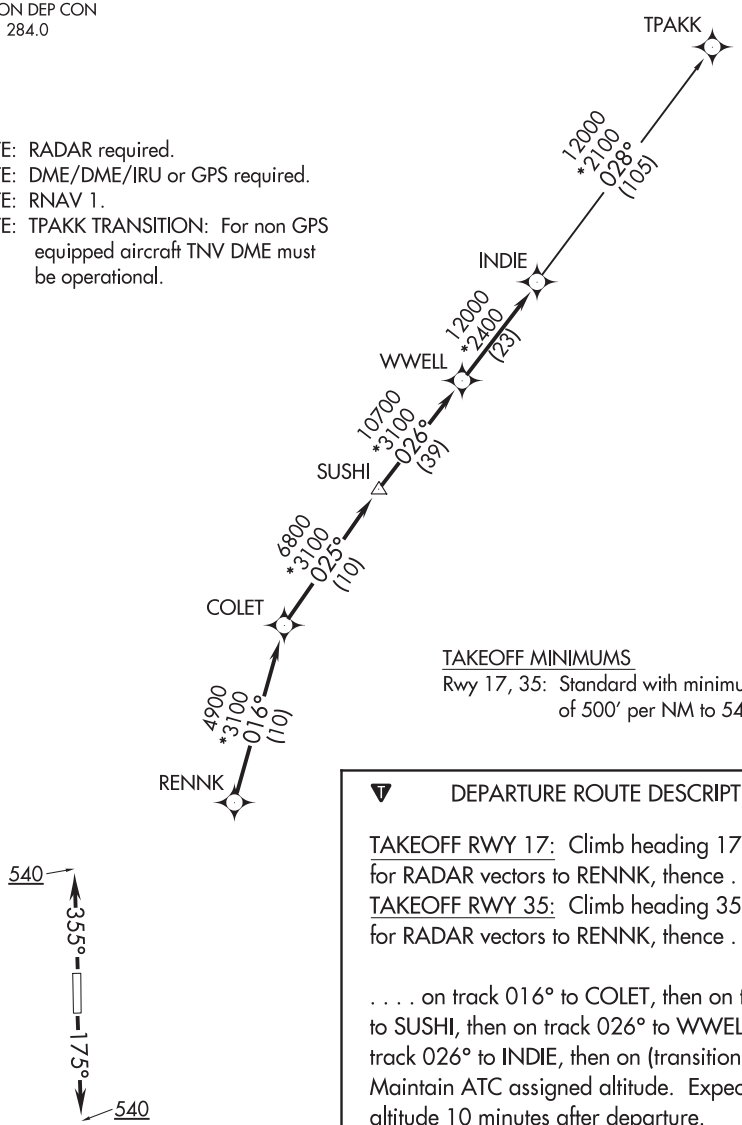
INDIE SEVEN DEPARTURE (RNAV)

TEXAS GULF COAST RGNL (LBX)
ANGLETON/LAKE JACKSON, TEXAS

TOP ALTITUDE: ASSIGNED BY ATC

ASOS
119.925
CLNC DEL
125.2
CTAF
123.0
HOUSTON DEP CON
134.45 284.0

NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV 1.
NOTE: TPAKK TRANSITION: For non GPS equipped aircraft TNV DME must be operational.



TAKEOFF MINIMUMS
Rwy 17, 35: Standard with minimum climb of 500′ per NM to 540.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 17: Climb heading 175° to 540 for RADAR vectors to RENNK, thence . . . .
TAKEOFF RWY 35: Climb heading 355° to 540 for RADAR vectors to RENNK, thence . . . .

. . . . on track 016° to COLET, then on track 025° to SUSHI, then on track 026° to WWELL, then on track 026° to INDIE, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

TPAKK TRANSITION (INDIE7.TPAKK)

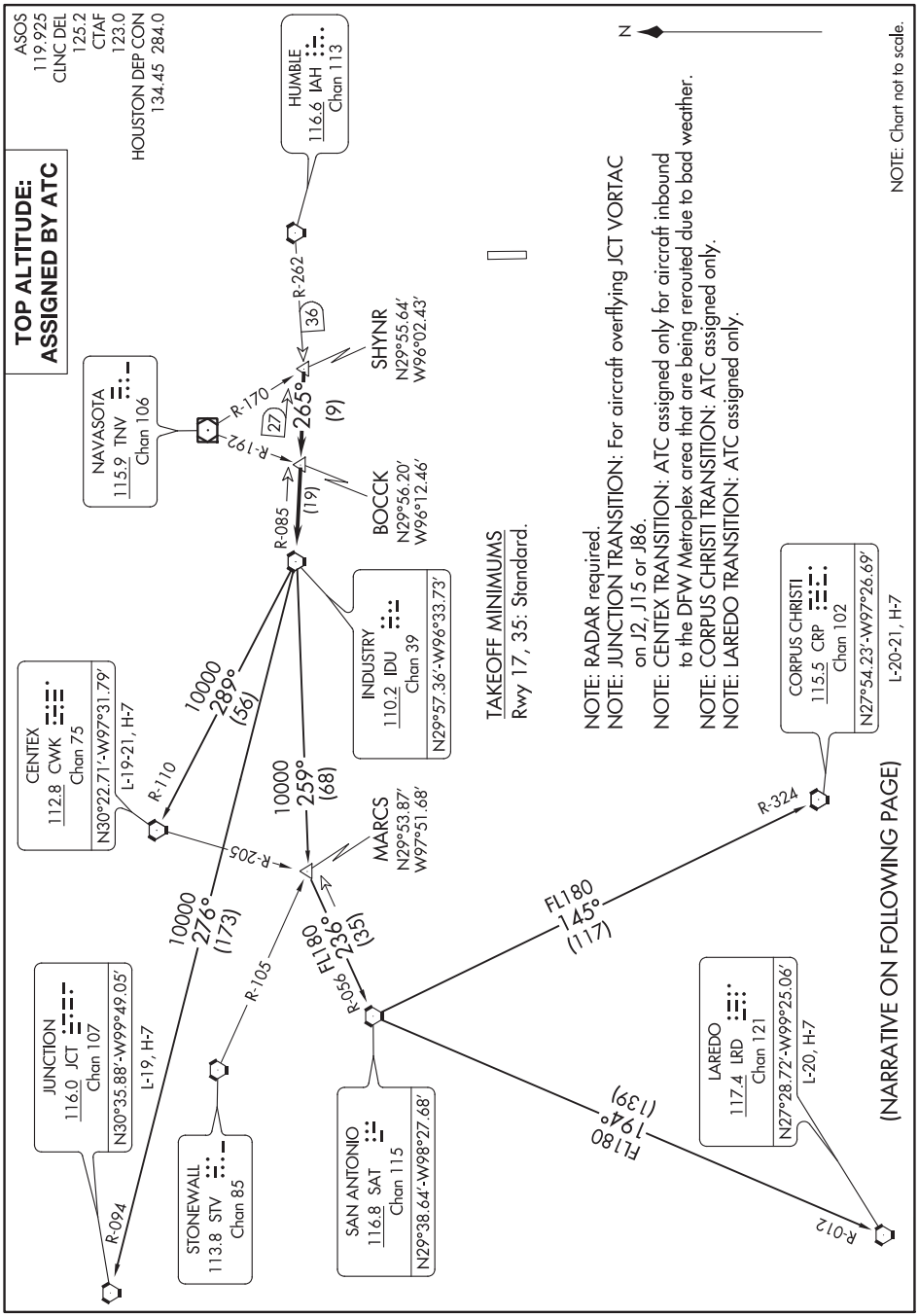
NOTE: Chart not to scale.

(IDU9.IDU) 18032

INDUSTRY NINE DEPARTURE

AL-6453 (FAA)

TEXAS GULF COAST RGNL (LBX)
ANGLETON/LAKE JACKSON, TEXAS



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INDUSTRY NINE DEPARTURE

ANGLETON/LAKE JACKSON, TEXAS
TEXAS GULF COAST RGNL (LBX)

DEPARTURE ROUTE DESCRIPTION

TAKEOFF ALL RWYS: When entering controlled airspace, climb on assigned heading for RADAR vectors to SHYNR INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence . . . .

. . . . on IDU R-085 to BOCCK INT, then on IDU R-085 to IDU VORTAC.

CENTEX TRANSITION (IDU9.CWK): From over IDU VORTAC on IDU R-289 and CWK R-110 to CWK VORTAC.

CORPUS CHRISTI TRANSITION (IDU9.CRP): From over IDU VORTAC on IDU R-259 to MARCS INT, then on SAT R-056 to SAT VORTAC, then on SAT R-145 and CRP R-324 to CRP VORTAC.

JUNCTION TRANSITION (IDU9.JCT): From over IDU VORTAC on IDU R-276 and JCT R-094 to JCT VORTAC.

LAREDO TRANSITION (IDU9.LRD): From over IDU VORTAC on IDU R-259 to MARCS INT, then on SAT R-056 to SAT VORTAC, then on SAT R-194 and LRD R-012 to LRD VORTAC.

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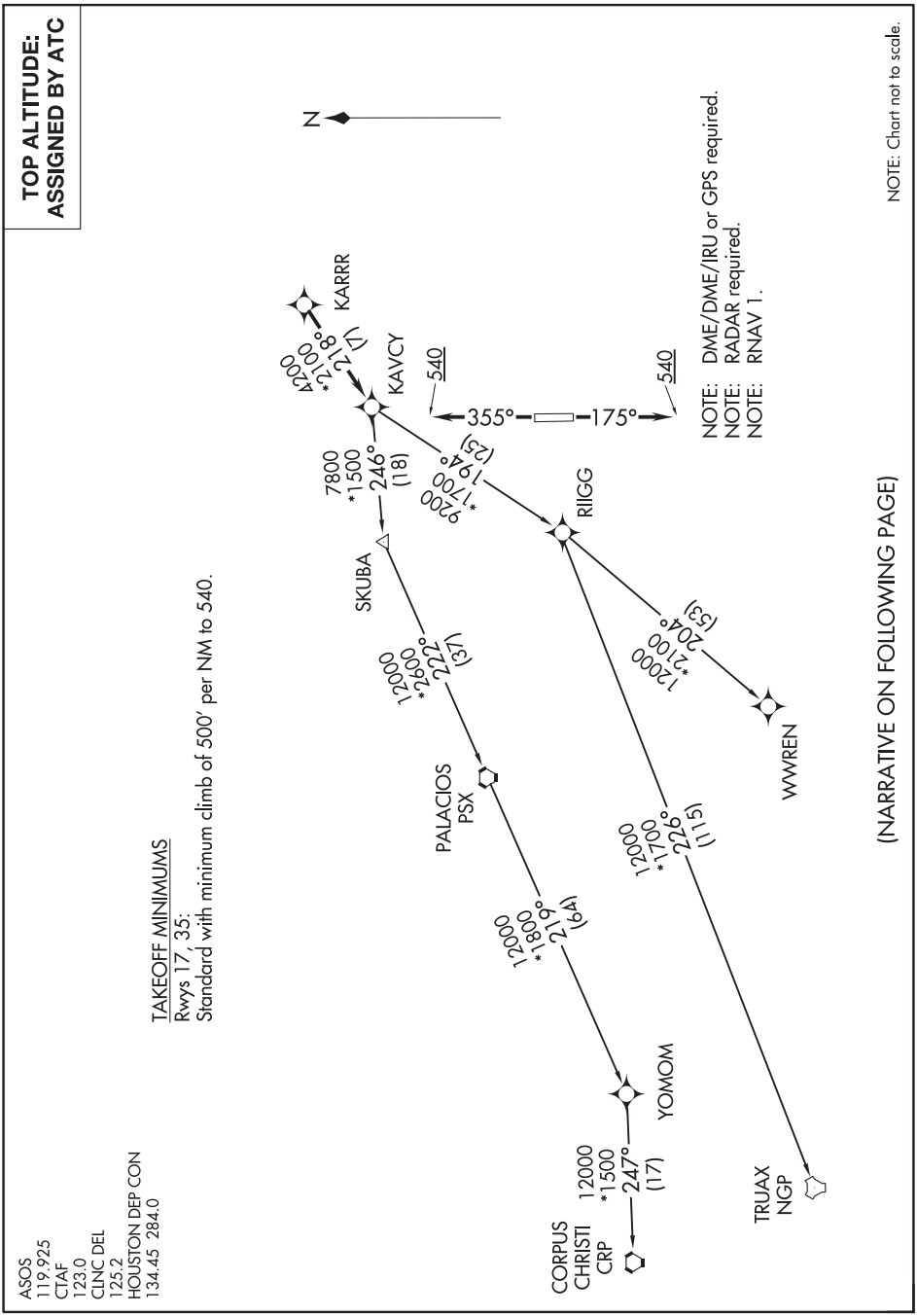
(KARRR6.KARRR) 19339 AL-6453 (FAA)

KARRR SIX DEPARTURE (RNAV)

TEXAS GULF COAST RGNL (LBX)
ANGLETON/LAKE JACKSON, TEXAS



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KARRR SIX DEPARTURE (RNAV)

(KARRR6.KARRR) 05DEC19

ANGLETON/LAKE JACKSON, TEXAS
TEXAS GULF COAST RGNL (LBX)

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 17: Climb on heading 175° to 540, for RADAR vectors to KARRR, thence. . . .
TAKEOFF RWY 35: Climb on heading 355° to 540, for RADAR vectors to KARRR, thence. . . .

. . . .on track 218° to KAVCY, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

CORPUS CHRISTI TRANSITION (KARRR6.CRP)
PALACIOS TRANSITION (KARRR6.PSX)
TRUAX TRANSITION (KARRR6.NGP)
WWREN TRANSITION (KARRR6.WWREN)
YOMOM TRANSITION (KARRR6.YOMOM)

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(LOA3.LOA) 20030

LEONA THREE DEPARTURE

AL-6453 (FAA)

TEXAS GULF COAST RGNL (LBX)
ANGLETON/LAKE JACKSON, TEXAS

TOP ALTITUDE: ASSIGNED BY ATC

ASOS
119.925
CLNC DEL
125.2
CTAF
123.0
HOUSTON DEP CON
134.45 284.0

ARDMORE
116.7 ADM
Chan 114
N34°12.69′ - W97°10.10′
L-17, H-6

TULSA
114.4 TUL
Chan 91
N36°11.78′ - W95°47.29′

BONHAM
114.6 BYP
Chan 93
N33°32.25′ - W96°14.05′
L-17, H-6

RANGER
115.7 FUZ
Chan 104
N32°53.37′ - W97°10.77′
L-17, H-6

CEDAR CREEK
114.8 CQY
Chan 95
N32°11.14′ - W96°13.09′

DOLEY
N32°11.35′
W96°23.08′

WACO
115.3 ACT
Chan 100
N31°39.74′ - W97°16.14′

LEONA
110.8 LOA
Chan 45
N31° 07.44′ - W95° 58.08′

WLLIS
N30°32.08′
W95°39.10′

NAVASOTA
115.9 TNV
Chan 106

HUMBLE
116.6 IAH
Chan 113

R-156 FL180 336° (127)
R-130 FL180 310° (58)
R-173 FL180 353° (81)
R-163 10000 341° (65)
R-046 10000 334° (67)
R-147 4000 327° (39)
R-047 (38)
R-330

TAKEOFF MINIMUMS
Rwys 17, 35: Standard.

NOTE: RADAR required.
NOTE: Except for aircraft destined ACT or the DFW terminal area, all aircraft filing the LEONA SID must file one of the published transitions via FUZ (LOA3.FUZ) ADM (LOA3.ADM) or BYP (LOA3.BYP).
NOTE: RANGER TRANSITION: For aircraft overflying west/northwest of the DFW terminal area FL240 and above.
NOTE: ARDMORE TRANSITION: For aircraft overflying north/northwest of the DFW terminal area FL240 and above.
NOTE: BONHAM TRANSITION: For aircraft overflying/landing TUL VORTAC FL240 and above.

NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

SC-5, 25 FEB 2021 to 22 APR 2021

DEPARTURE ROUTE DESCRIPTION

TAKEOFF ALL RUNWAYS: When entering controlled airspace, climb on assigned heading for RADAR vectors to WLLIS INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence . . . .

. . . . on LOA R-147 to LOA VORTAC.

ARDMORE TRANSITION (LOA3.ADM): From over LOA VORTAC on LOA R-334 to DOLEY INT, then on ADM R-156 to ADM VORTAC.

BONHAM TRANSITION (LOA3.BYP): From over LOA VORTAC on LOA R-341 and CQY R-163 to CQY VORTAC, then on BYP R-173 to BYP VORTAC.

RANGER TRANSITION (LOA3.FUZ): From over LOA VORTAC on LOA R-334 to DOLEY INT, then on FUZ R-130 to FUZ VORTAC.

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(LFK2.LFK) 18032

AL-6453 (FAA)

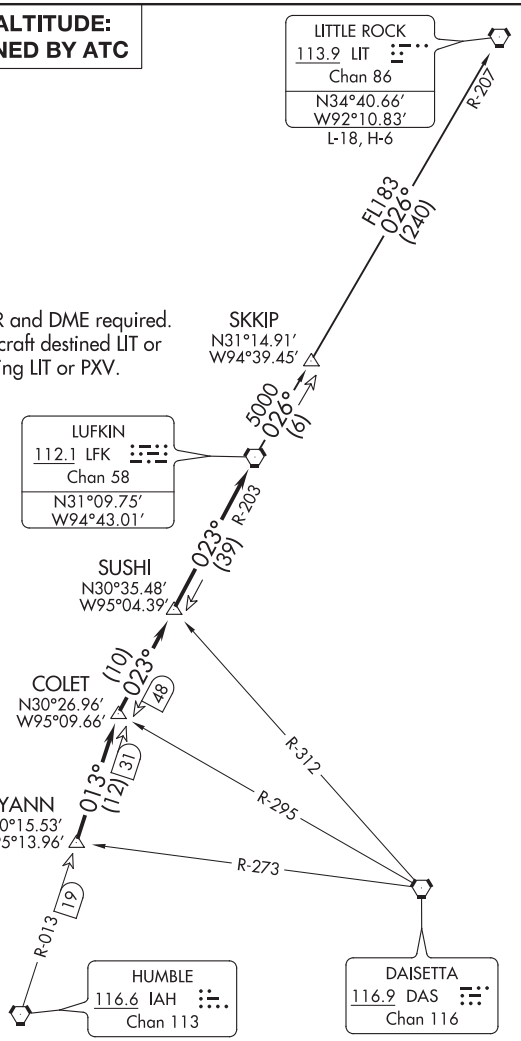
LUFKIN TWO DEPARTURE

TEXAS GULF COAST RGNL (LBX)
ANGLETON/LAKE JACKSON, TEXAS

ASOS
119.925
CLNC DEL
125.2
CTAF
123.0
HOUSTON DEP CON
134.45 284.0

TOP ALTITUDE: ASSIGNED BY ATC

NOTE: RADAR and DME required.
NOTE: For aircraft destined LIT or overflying LIT or PXV.



TAKEOFF MINIMUMS
Rwys 17, 35: Standard.

NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

SC-5, 25 FEB 2021 to 22 APR 2021

DEPARTURE ROUTE DESCRIPTION

When entering controlled airspace, climb on assigned heading for RADAR vectors to KYANN INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .

. . . .on IAH R-013 to COLET INT, then right turn on LFK R-203 to LFK VORTAC.

LITTLE ROCK TRANSITION (LFK2.LIT): From over LFK VORTAC on LFK R-026 to SKKIP INT, then on LFK R-026 and LIT R-207 to LIT VORTAC.

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(LURIC7.LURIC) 19115 AL-6453 (FAA)

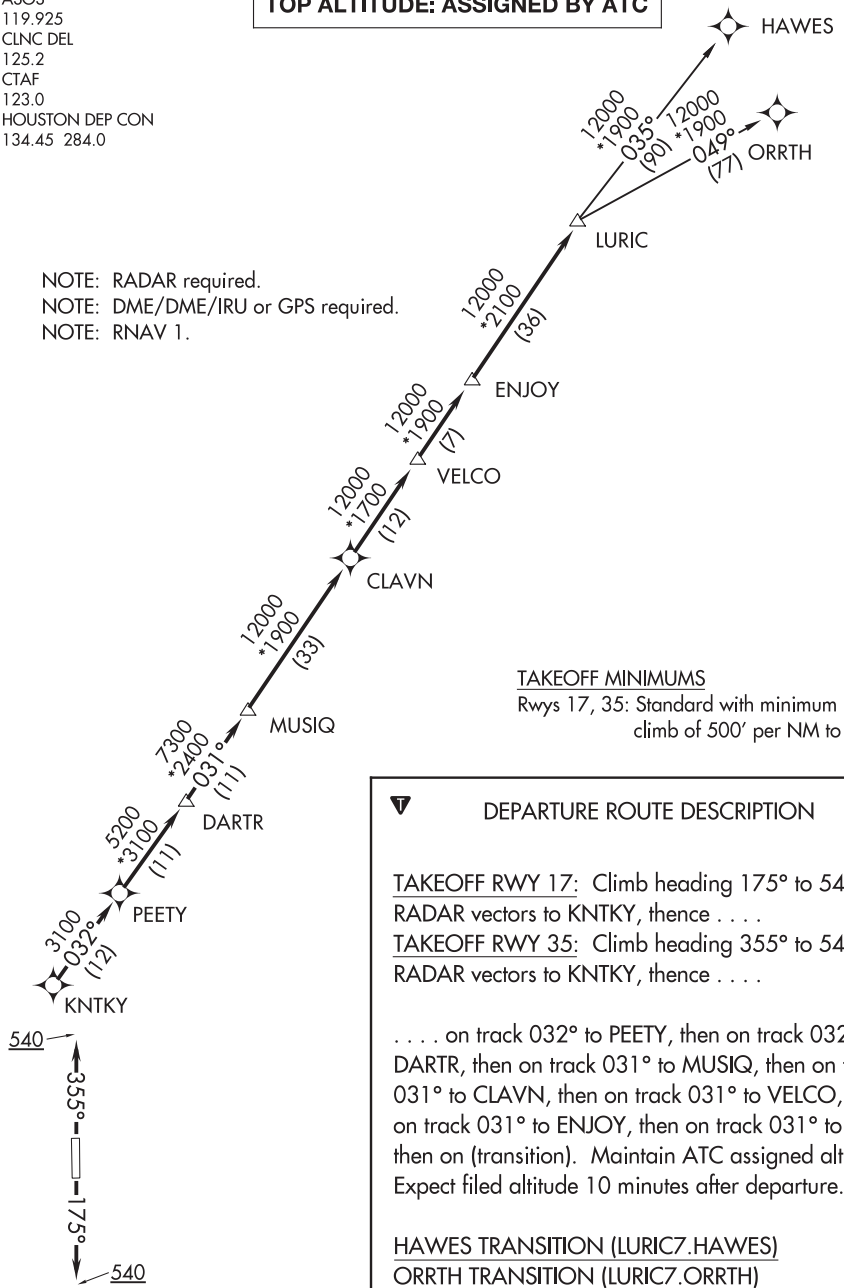
LURIC SEVEN DEPARTURE (RNAV)

TEXAS GULF COAST RGNL (LBX)
ANGLETON/LAKE JACKSON, TEXAS

ASOS
119.925
CLNC DEL
125.2
CTAF
123.0
HOUSTON DEP CON
134.45 284.0

TOP ALTITUDE: ASSIGNED BY ATC

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



NOTE: Chart not to scale.

TAKEOFF MINIMUMS
Rwys 17, 35: Standard with minimum climb of 500′ per NM to 540.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 17: Climb heading 175° to 540 for RADAR vectors to KNTKY, thence . . . .
TAKEOFF RWY 35: Climb heading 355° to 540 for RADAR vectors to KNTKY, thence . . . .

. . . . on track 032° to PEETY, then on track 032° to DARTR, then on track 031° to MUSIQ, then on track 031° to CLAVN, then on track 031° to VELCO, then on track 031° to ENJOY, then on track 031° to LURIC, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

HAWES TRANSITION (LURIC7.HAWES)
ORRTH TRANSITION (LURIC7.ORRTH)

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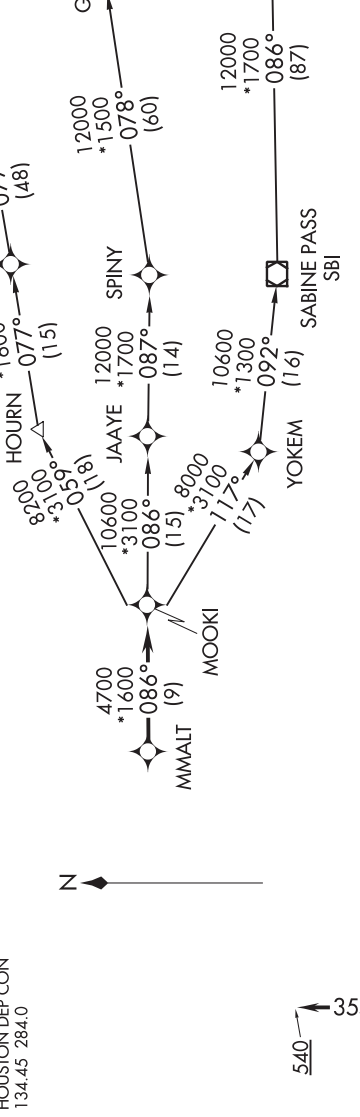
MMALT FIVE DEPARTURE (RNAV)

TOP ALTITUDE: ASSIGNED BY ATC

TAKEOFF MINIMUMS
Rwy 17, 35: Standard with minimum climb of 500' per NM to 540.

ASOS
119.925
CTAF
123.0
CLNC DEL
125.2
HOUSTON DEP CON
134.45 284.0



NOTE: DME/DME/IRU or GPS required.
NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: GUSTI and LCH TRANSITIONS ATC assigned only for aircraft departing AXH, EFD, GLS, HPY, IWS, LBX, LVJ, SGR, TME, T00, T41 and 54T.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 17: Climb on heading 175° to 540 for RADAR vectors to MMALT, thence. . . .
TAKEOFF RWY 35: Climb on heading 355° to 540 for RADAR vectors to MMALT, thence. . . .

. . . .on track 086° to MOOKI, then on (transition). Maintain ATC assigned altitude.
Expect filed altitude 10 minutes after departure.

GUSTI TRANSITION (MMALT5.GUSTI)
LAKE CHARLES TRANSITION (MMALT5.LCH)
WHITE LAKE TRANSITION (MMALT5.LLA)

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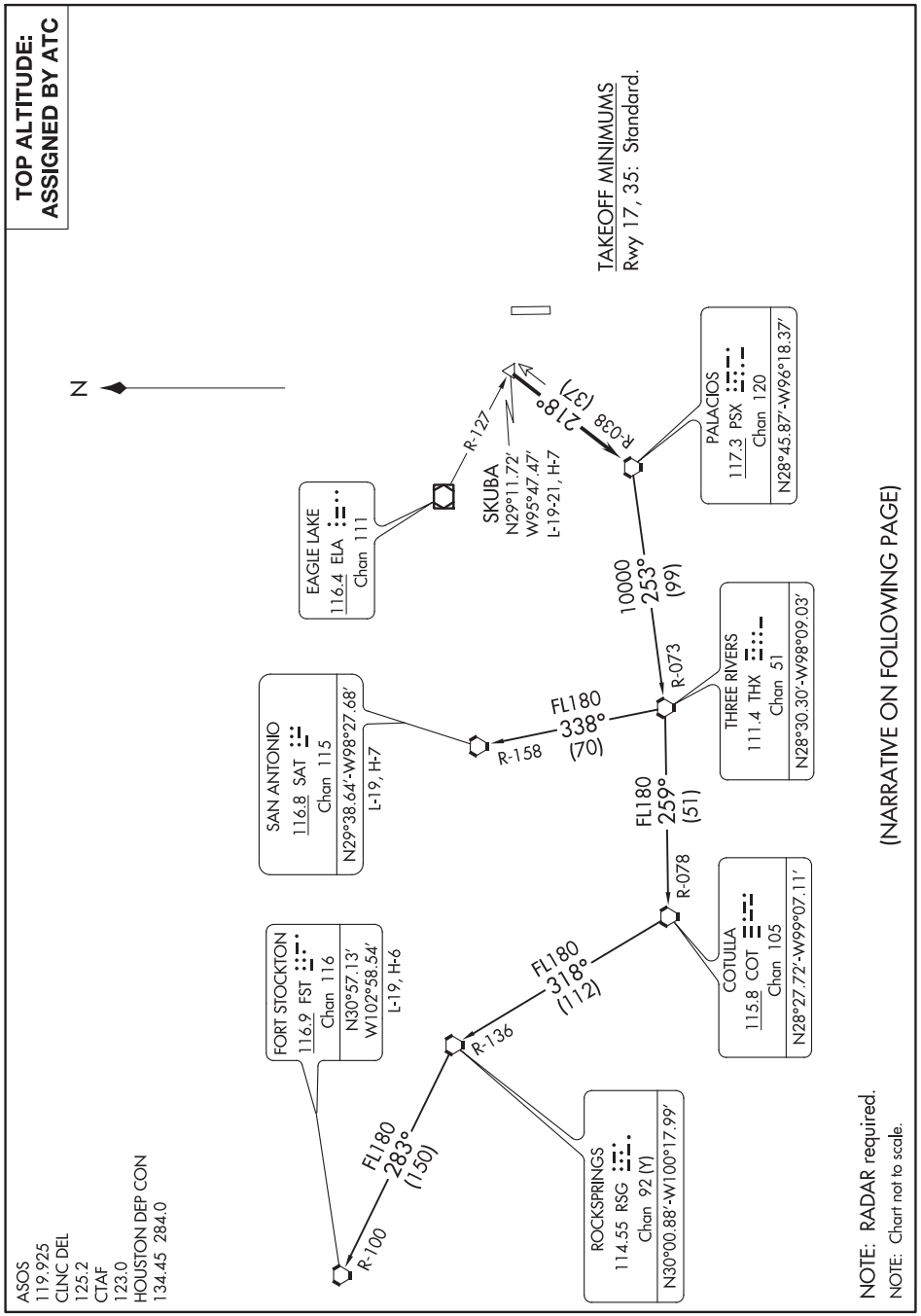
(PSX1.PSX) 20254

PALACIOS ONE DEPARTURE

AL-6453 (FAA)

TEXAS GULF COAST RGNL (LBX)
ANGLETON/LAKE JACKSON, TEXAS



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PALACIOS ONE DEPARTURE

(PSX1.PSX) 20JUN19

ANGLETON/LAKE JACKSON, TEXAS
TEXAS GULF COAST RGNL (LBX)

DEPARTURE ROUTE DESCRIPTION

TAKEOFF ALL RUNWAYS: When entering controlled airspace, climb on assigned heading for RADAR vectors to SKUBA INT. Maintain ATC assigned altitude.
Expect filed altitude 10 minutes after departure, thence. . . .

. . . .on PSX R-038 to PSX VORTAC.

FORT STOCKTON TRANSITION (PSX1.FST): From over PSX VORTAC on PSX R-253 and THX R-073 to THX VORTAC, then on THX R-259 and COT R-078 to COT VORTAC, then on COT R-318 and RSG R-136 to RSG VORTAC, then on RSG R-283 and FST R-100 to FST VORTAC.

SAN ANTONIO TRANSITION (PSX1.SAT): From over PSX VORTAC on PSX R-253 and THX R-073 to THX VORTAC, then on SAT R-158 to SAT VORTAC.

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(STRYA7.STRYA) 19115 AL-6453 (FAA)

STRYA SEVEN DEPARTURE (RNAV)

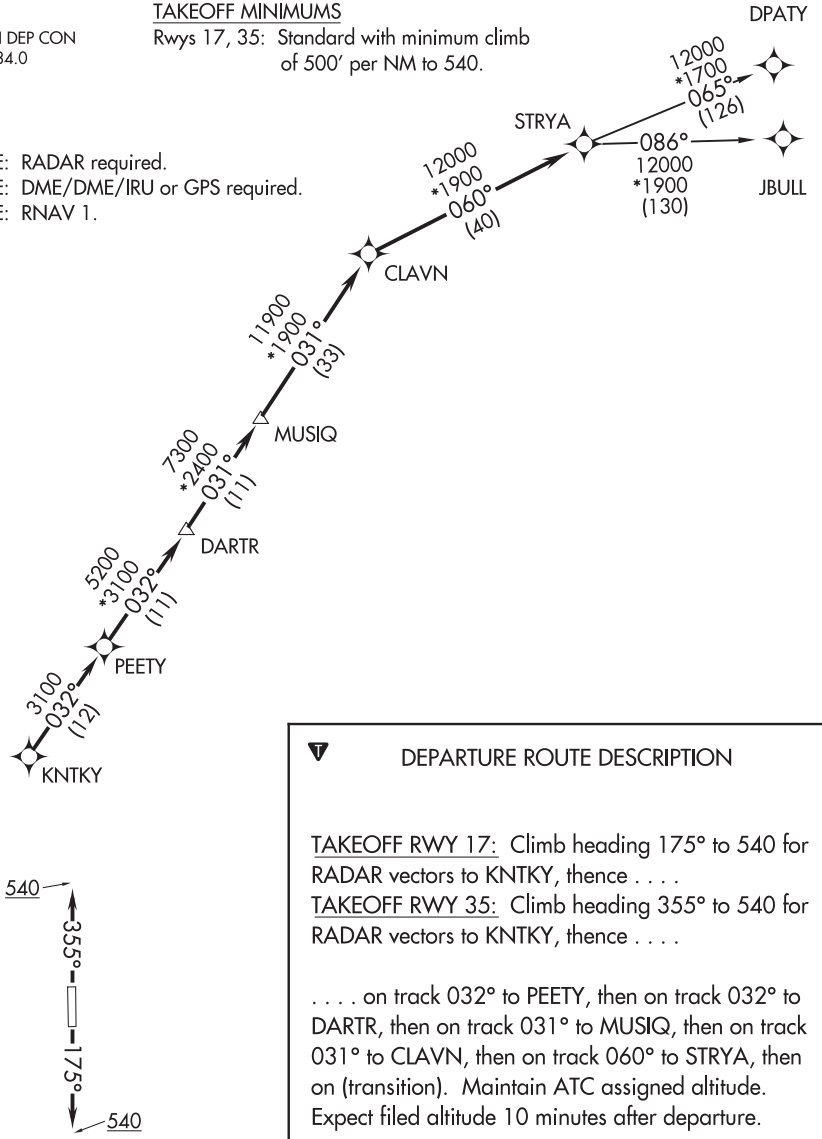
TEXAS GULF COAST RGNL (LBX)
ANGLETON/LAKE JACKSON, TEXAS

TOP ALTITUDE: ASSIGNED BY ATC

ASOS
119.925
CTAF
123.0
CLNC DEL
125.2
HOUSTON DEP CON
134.45 284.0

TAKEOFF MINIMUMS
Rwys 17, 35: Standard with minimum climb of 500′ per NM to 540.

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



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 17: Climb heading 175° to 540 for RADAR vectors to KNTKY, thence . . . .
TAKEOFF RWY 35: Climb heading 355° to 540 for RADAR vectors to KNTKY, thence . . . .

. . . . on track 032° to PEETY, then on track 032° to DARTR, then on track 031° to MUSIQ, then on track 031° to CLAVN, then on track 060° to STRYA, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

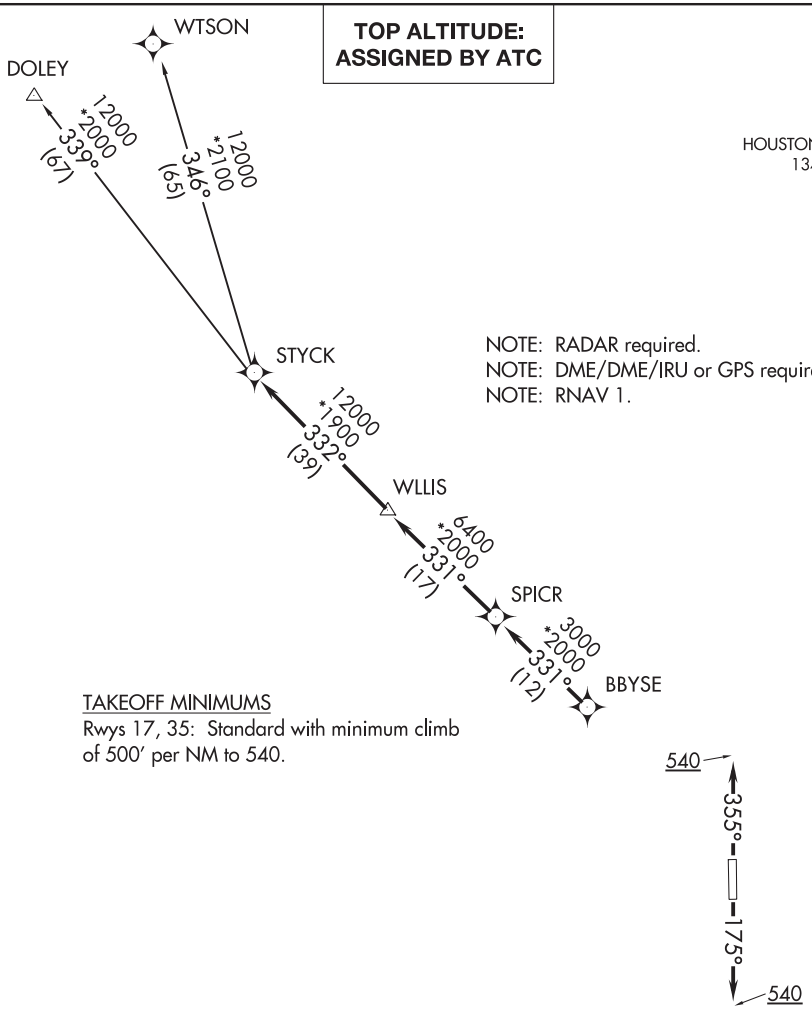
DPATY TRANSITION (STRYA7.DPATY)
JBULL TRANSITION (STRYA7.JBULL)

SC-5, 25 FEB 2021 to 22 APR 2021

STYCK SEVEN DEPARTURE (RNAV)

TOP ALTITUDE: ASSIGNED BY ATC

ASOS 119.925
CLNC DEL 125.2
CTAF 123.0
HOUSTON DEP CON 134.45 284.0



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

TAKEOFF MINIMUMS
Rwys 17, 35: Standard with minimum climb of 500′ per NM to 540.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 17: Climb heading 175° to 540 for RADAR vectors to BBYSE, thence. . . .
TAKEOFF RWY 35: Climb heading 355° to 540 for RADAR vectors to BBYSE, thence. . . .

. . . .on track 331° to SPICR, then on track 331° to WLLIS, then on track 332° to STYCK, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

DOLEY TRANSITION (STYCK7.DOLEY)
WTSON TRANSITION (STYCK7.WTSON)

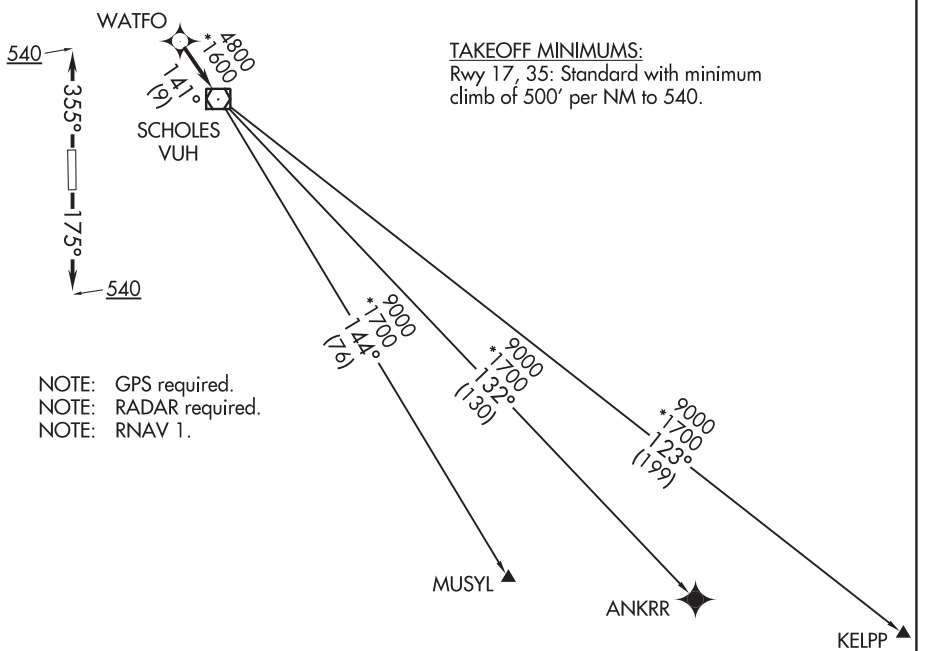
(WATFO5.WATFO) 19115 AL-6453 (FAA)

WATFO FIVE DEPARTURE (RNAV)

TEXAS GULF COAST RGNL (LBX)
ANGLETON/LAKE JACKSON, TEXAS

TOP ALTITUDE: ASSIGNED BY ATC

ASOS
119.925
CTAF
123.0
CLNC DEL
125.2
HOUSTON DEP CON
134.45 284.0



TAKEOFF MINIMUMS:
Rwy 17, 35: Standard with minimum climb of 500′ per NM to 540.

NOTE: GPS required.
NOTE: RADAR required.
NOTE: RNAV 1.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 17: Climb on heading 175° to 540, for RADAR vectors to WATFO, thence. . . .
TAKEOFF RWY 35: Climb on heading 355° to 540, for RADAR vectors to WATFO, thence. . . .

. . . .on track 141° to VUH VOR/DME, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

ANKRR TRANSITION (WATFO5.ANKRR)
KELPP TRANSITION (WATFO5.KELPP)
MUSYL TRANSITION (WATFO5.MUSYL)

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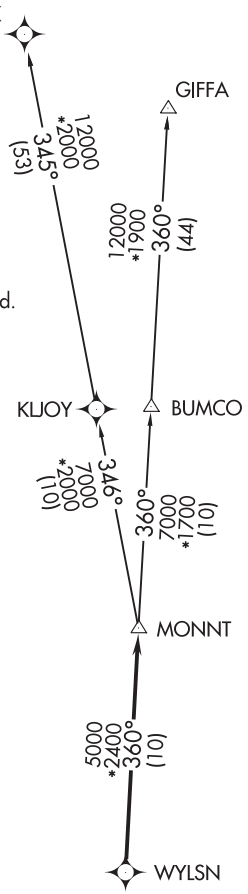
WYLSN SEVEN DEPARTURE (RNAV)

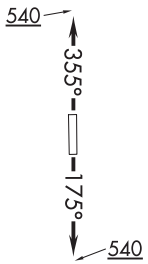
TOP ALTITUDE: ASSIGNED BY ATC

ASOS
119.925
CLNC DEL
125.2
CTAF
123.0
HOUSTON DEP CON
134.45 284.0

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



TAKEOFF MINIMUMS
Rwy 17, 35: Standard with minimum climb of 500′ per NM to 540.



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 17: Climb on heading 175° to 540 for RADAR vectors to WYLSN, thence. . . .
TAKEOFF RWY 35: Climb on heading 355° to 540 for RADAR vectors to WYLSN, thence. . . .

. . . .on track 360° to MONNT, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

GIFFA TRANSITION (WYLSN7.GIFFA)
MAJKK TRANSITION (WYLSN7.MAJKK)

BAY CITY, TEXAS

AL-5824 (FAA)

21056

RNAV (GPS) RWY 13

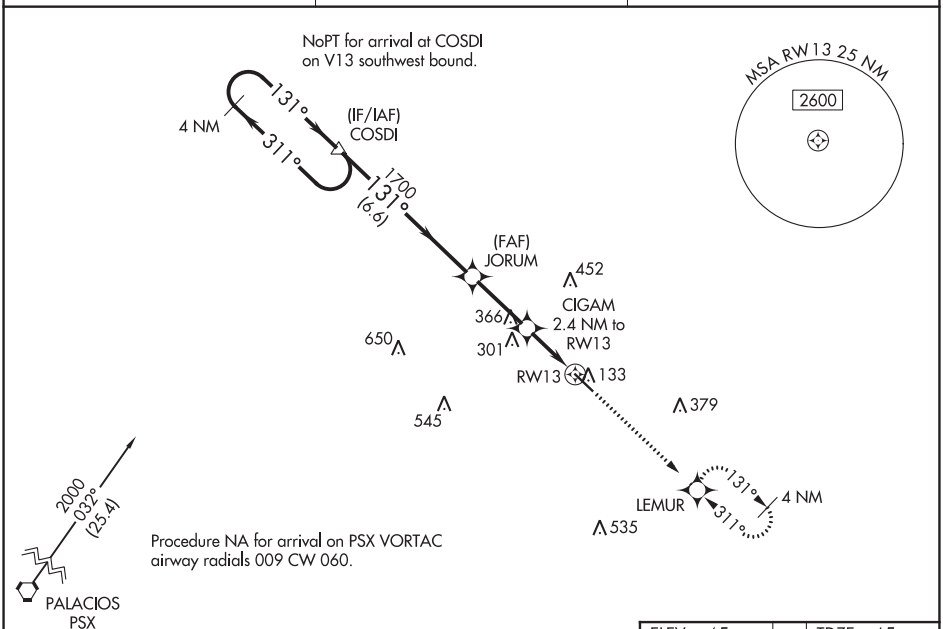
BAY CITY RGNL (BYY)

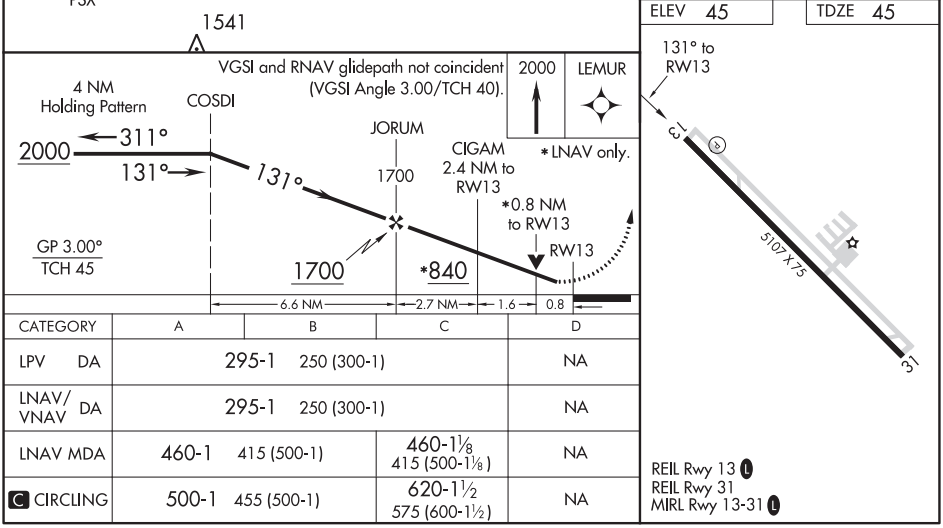
WAAS CH 40127 W13A	APP CRS 131°	Rwy ldg 5107 TDZE 45 Apt Elev 45

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 54°C (130°F). Rwy 13, 31 helicopter visibility reduction below 1 SM NA. RADAR required. DME/DME RNP-0.3 NA. When local altimeter setting not received, use Palacios altimeter setting and increase all DA 63 feet and all MDA 80 feet; increase LNAV visibility Cat C ¼ mile. VDP and Baro-VNAV N/A when using Palacios altimeter setting.

MISSED APPROACH: Climb to 2000 direct LEMUR and hold.

AWOS-3	HOUSTON CENTER	UNICOM
118.075	128.6 360.8	122.8 (CTAF) L





CATEGORY	A	B	C	D
LPV DA	295-1 250 (300-1)			NA
LNAV/VNAV DA	295-1 250 (300-1)			NA
LNAV MDA	460-1 415 (500-1)		460-1⅛ 415 (500-1⅛)	NA
C CIRCLING	500-1 455 (500-1)		620-1½ 575 (600-1½)	NA

REIL Rwy 13 L
REIL Rwy 31
MIRL Rwy 13-31 L

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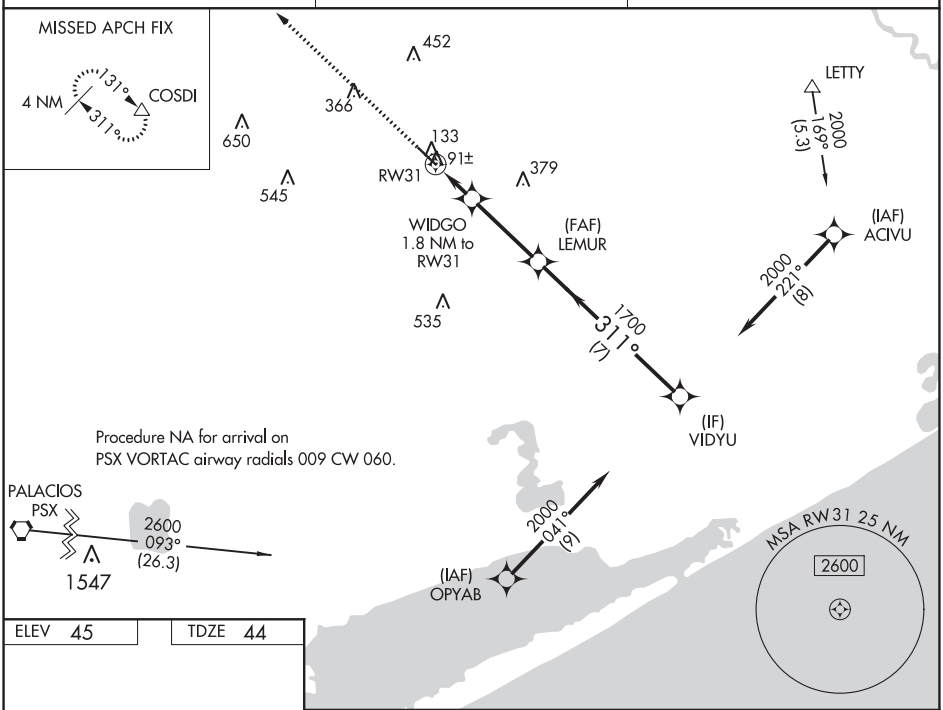
RNAV (GPS) RWY 31
BAY CITY RGNL (BYY)

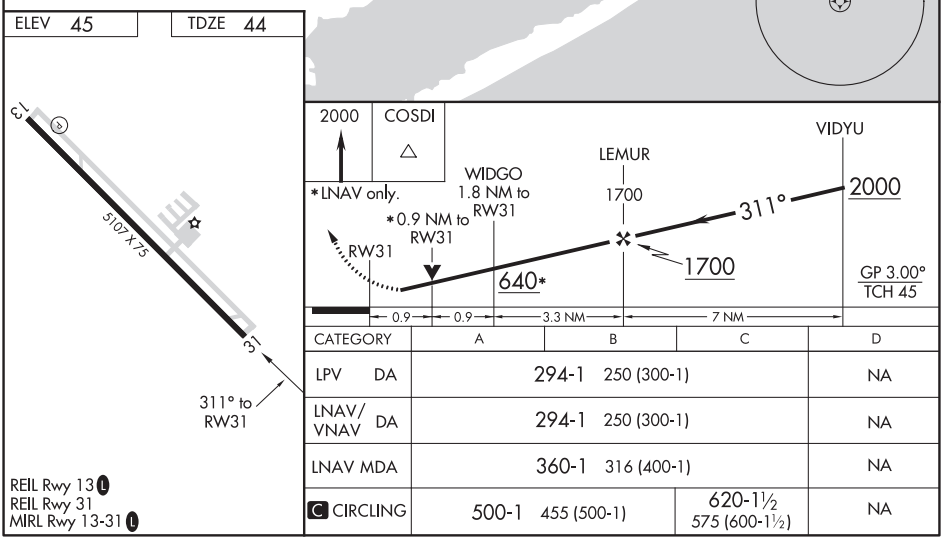
WAAS CH 78326 W31A	APP CRS 311°	Rwy ldg 5107 TDZE 44 Apt Elev 45

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 54°C (130°F). Rwy 13, 31 helicopter visibility reduction below 1 SM NA. DME/DME RNP-0.3 NA. When local altimeter setting not received, use Palacios altimeter setting and increase all DA 63 feet and all MDA 80 feet; increase LNAV visibility Cat C ¼ mile. VDP and Baro-VNAV N/A when using Palacios altimeter setting.

MISSED APPROACH: Climb to 2000 direct COSDI and hold.

AWOS-3	HOUSTON CENTER	UNICOM
118.075	128.6 360.8	122.8 (CTAF) L





CATEGORY	A	B	C	D
LPV DA	294-1 250 (300-1)			NA
LNAV/VNAV DA	294-1 250 (300-1)			NA
LNAV MDA	360-1 316 (400-1)			NA
C CIRCLING	500-1 455 (500-1)		620-1½ 575 (600-1½)	NA

REIL Rwy 13 L
REIL Rwy 31
MIRL Rwy 13-31 L

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BAY CITY, TEXAS | AL-5824 (FAA) | 21056

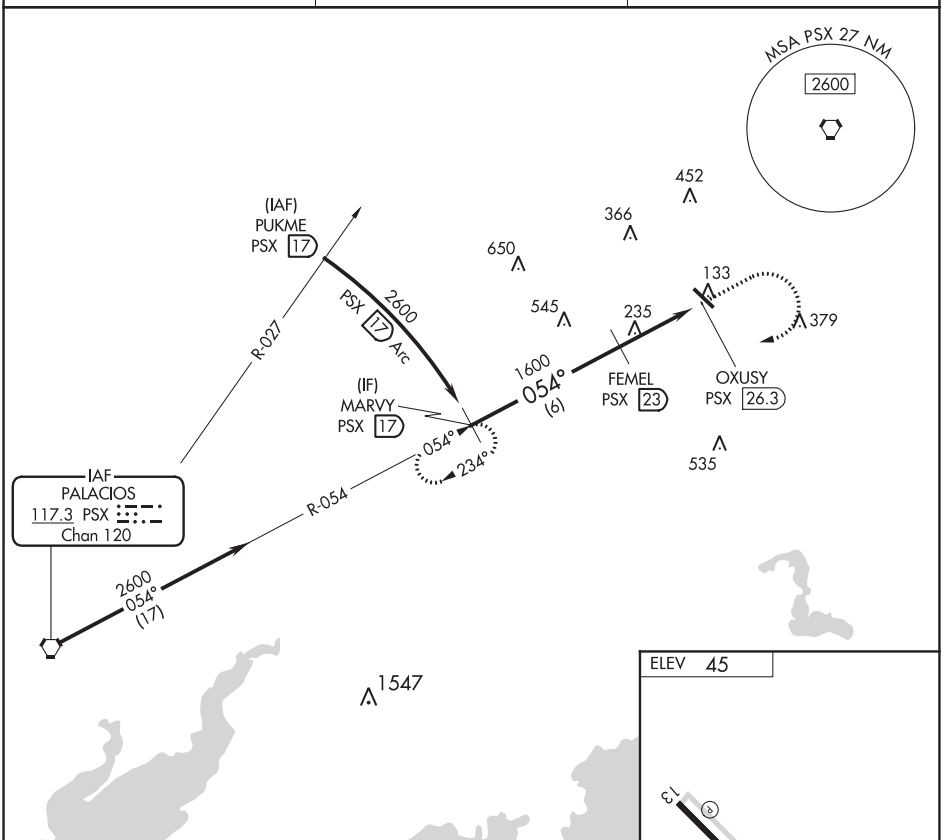
VOR-A
BAY CITY RGNL (BYY)

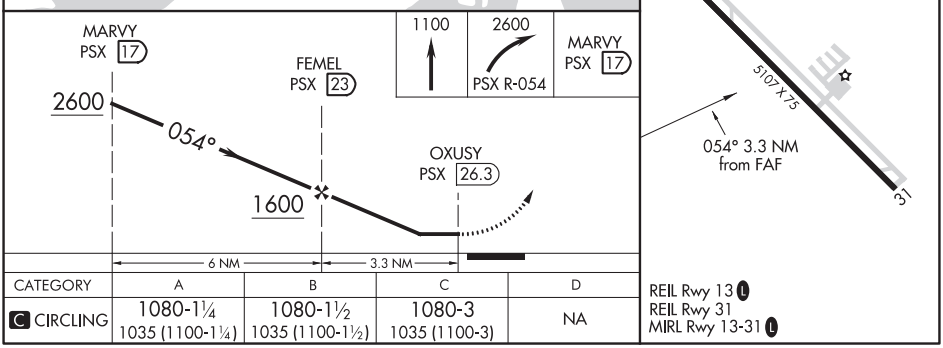
VORTAC PSX 117.3 Chan 120	APP CRS 054°	Rwy ldg N/A TDZE N/A Apt Elev 45

Rwy 13, 31 helicopter visibility reduction below 1 SM NA. DME required. When local altimeter setting not received, use Palacios altimeter setting and increase all MDA 80 feet.

MISSED APPROACH: Climb to 1100 then climbing right turn to 2600 on PSX VORTAC R-054 to MARVY/17 DME and hold.

AWOS-3	HOUSTON CENTER	UNICOM
118.075	128.6 360.8	122.8 (CTAF) L





CATEGORY	A	B	C	D
C CIRCLING	1080-1¼ 1035 (1100-1¼)	1080-1½ 1035 (1100-1½)	1080-3 1035 (1100-3)	NA

REIL Rwy 13 L
REIL Rwy 31
MIRL Rwy 13-31 L

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BLTWY SIX DEPARTURE (RNAV)

CTAF
122.8
HOUSTON CENTER
128.6 360.85

TOP ALTITUDE: ASSIGNED BY ATC

CRIED

12000
*2100
346°
(46)

BLTWY

6600
*2000
346°
(6)

LITLD

5400
*1900
345°
(12)

DREMR

311°
131°

NOTE: RADAR required.

NOTE: DME/DME/IRU or GPS required.

NOTE: RNAV 1.

TAKEOFF MINIMUMS
Rwys 13, 31: Standard with minimum climb of 500′ per NM to 560.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 13: Climb heading 131° or as assigned by ATC for RADAR vectors to DREMR, thence . . . .
TAKEOFF RWY 31: Climb heading 311° or as assigned by ATC for RADAR vectors to DREMR, thence . . . .

...on track 345° to LITLD, then on track 346° to BLTWY, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

CRIED TRANSITION (BLTWY6.CRIED)

NOTE: Chart not to scale.

(INDIE7.INDIE) 19227 AL-5824 (FAA) BAY CITY RGNL (BYY)

INDIE SEVEN DEPARTURE (RNAV)

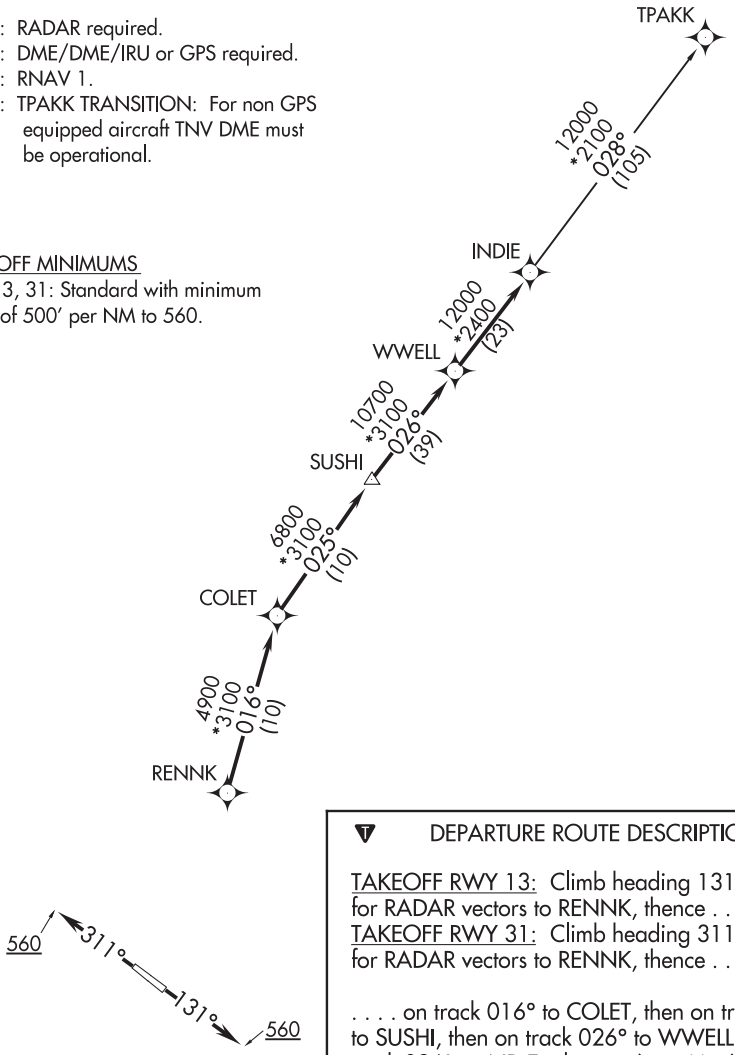
BAY CITY, TEXAS

AWOS-3
118.075
CTAF
122.8
HOUSTON CENTER
128.6 360.85

TOP ALTITUDE: ASSIGNED BY ATC

NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV 1.
NOTE: TPAKK TRANSITION: For non GPS equipped aircraft TNV DME must be operational.

TAKEOFF MINIMUMS
Rwy 13, 31: Standard with minimum climb of 500′ per NM to 560.



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 13: Climb heading 131° to 560 for RADAR vectors to RENNK, thence . . . .
TAKEOFF RWY 31: Climb heading 311° to 560 for RADAR vectors to RENNK, thence . . . .

. . . . on track 016° to COLET, then on track 025° to SUSHI, then on track 026° to WWELL, then on track 026° to INDIE , then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

TPAKK TRANSITION (INDIE7.TPAKK)

NOTE: Chart not to scale.

SC-5, 25 FEB 2021 to 22 APR 2021
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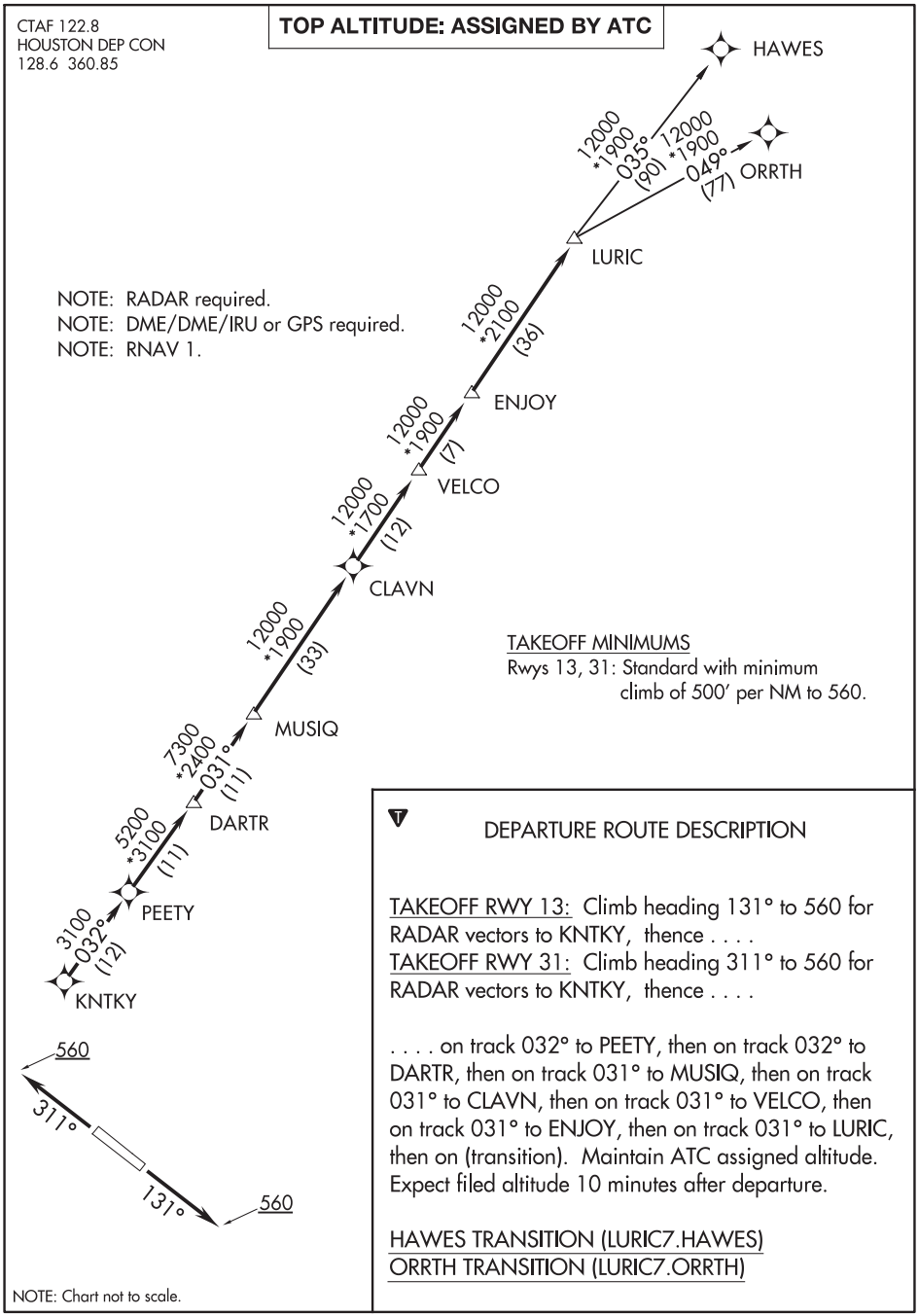
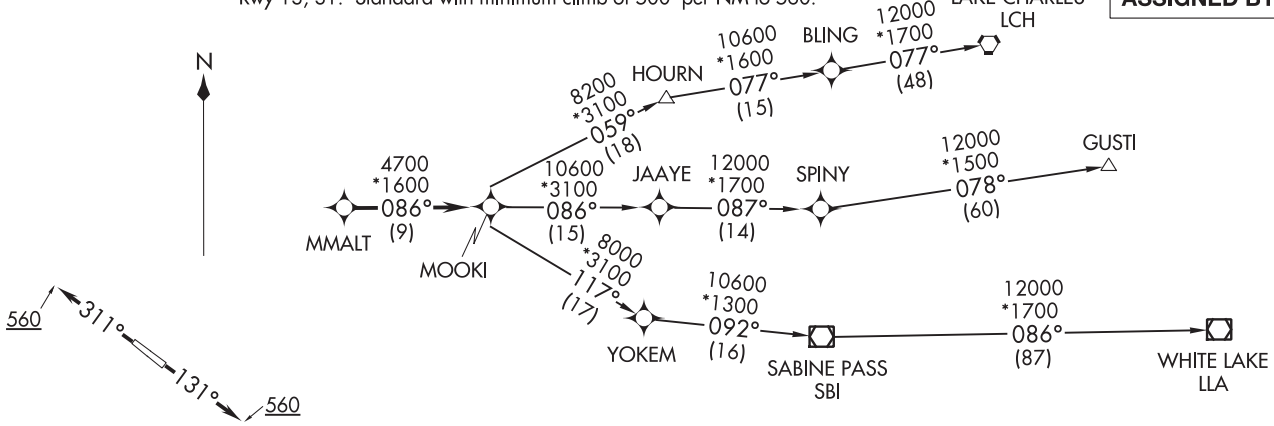
LURIC SEVEN DEPARTURE (RNAV)



HOUSTON CENTER
128.6 360.85

TAKEOFF MINIMUMS
Rwy 13, 31: Standard with minimum climb of 500′ per NM to 560.

TOP ALTITUDE: ASSIGNED BY ATC



NOTE: DME/DME/IRU or GPS required.
NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: GUSTI and LCH TRANSITIONS ATC assigned only for aircraft departing AXH, EFD, GLS, HPY, IWS, LBX, LVJ, SGR, TME, T00, T41 and 54T.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 13: Climb on heading 131° to 560 for RADAR vectors to MMALT, thence. . . .
TAKEOFF RWY 31: Climb on heading 311° to 560 for RADAR vectors to MMALT, thence. . . .

. . . .on track 086° to MOOKI, then on (transition). Maintain ATC assigned altitude.
Expect filed altitude 10 minutes after departure.

GUSTI TRANSITION (MMALT5.GUSTI)
LAKE CHARLES TRANSITION (MMALT5.LCH)
WHITE LAKE TRANSITION (MMALT5.LLA)

NOTE: Chart not to scale.

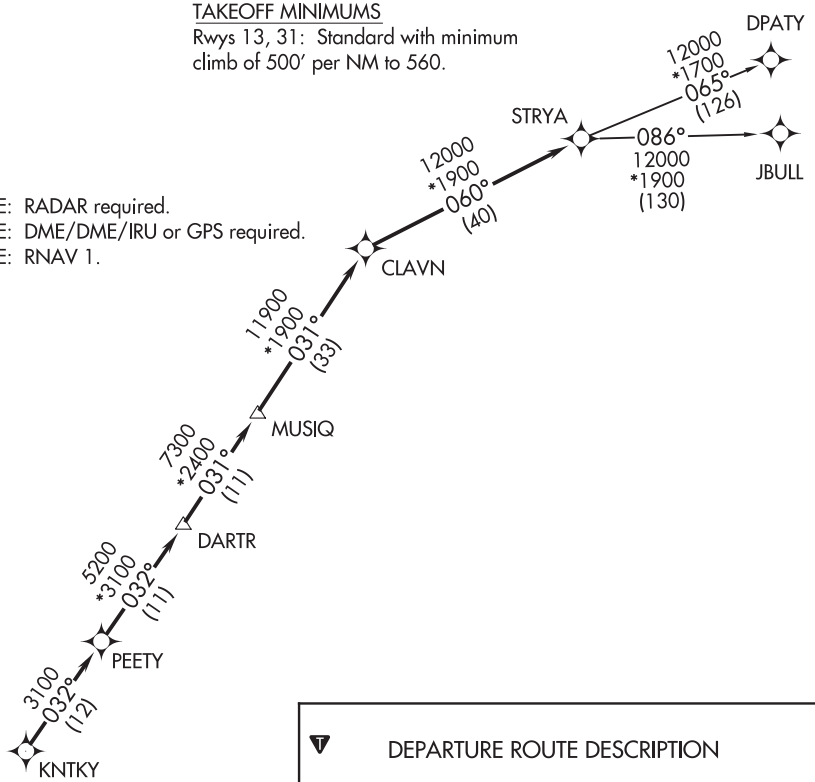
STRYA SEVEN DEPARTURE (RNAV)

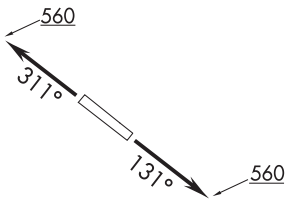
TOP ALTITUDE: ASSIGNED BY ATC

AWOS-3
118.075
CTAF
122.8
HOUSTON DEP CON
128.6 360.85

TAKEOFF MINIMUMS
Rwys 13, 31: Standard with minimum climb of 500′ per NM to 560.

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





NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 13: Climb heading 131° to 560 for RADAR vectors to KNTKY, thence . . . .
TAKEOFF RWY 31: Climb heading 311° to 560 for RADAR vectors to KNTKY, thence . . . .

. . . . on track 032° to PEETY, then on track 032° to DARTR, then on track 031° to MUSIQ, then on track 031° to CLAVN, then on track 060° to STRYA, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

DPATY TRANSITION (STRYA7.DPATY)
JBULL TRANSITION (STRYA7.JBULL)

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SC-5, 25 FEB 2021 to 22 APR 2021

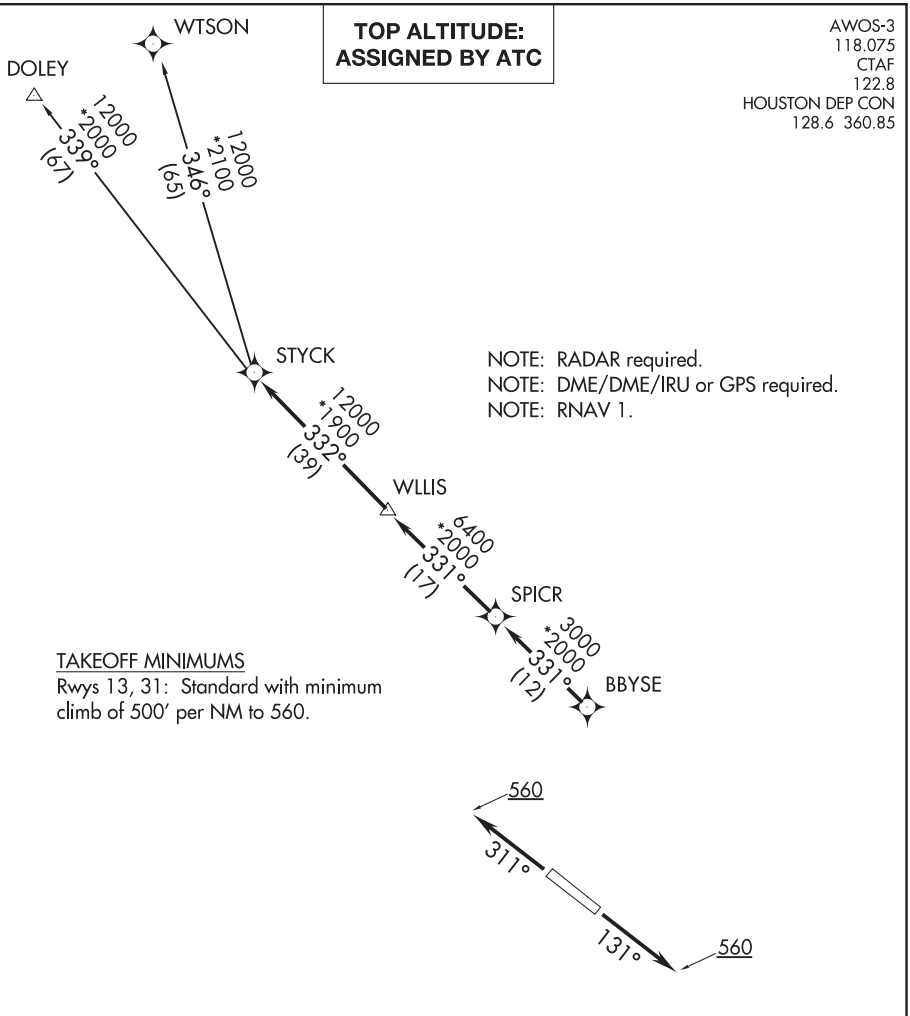
(STYCK7.STYCK) 19283 AL-5824 (FAA)

STYCK SEVEN DEPARTURE (RNAV)

BAY CITY RGNL (BYY)
BAY CITY, TEXAS

TOP ALTITUDE: ASSIGNED BY ATC

AWOS-3
118.075
CTAF
122.8
HOUSTON DEP CON
128.6 360.85



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

TAKEOFF MINIMUMS
Rwys 13, 31: Standard with minimum climb of 500′ per NM to 560.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 13: Climb heading 131° to 560 for RADAR vectors to BBYSE, thence. . . .
TAKEOFF RWY 31: Climb heading 311° to 560 for RADAR vectors to BBYSE, thence. . . .

. . . .on track 331° to SPICR, then on track 331° to WLLIS, then on track 332° to STYCK, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

DOLEY TRANSITION (STYCK7.DOLEY)
WTSON TRANSITION (STYCK7.WTSON)

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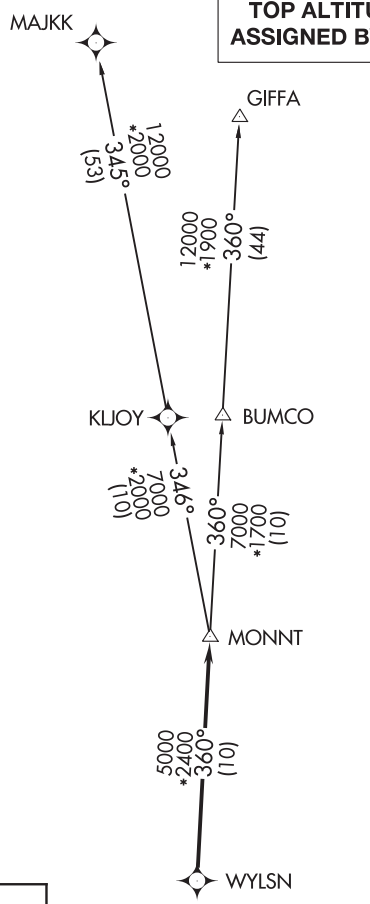
SC-5, 25 FEB 2021 to 22 APR 2021

WYLSN SEVEN DEPARTURE (RNAV)

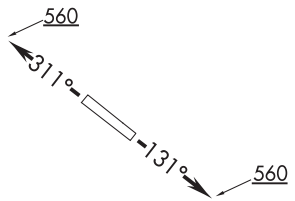
HOUSTON DEP CON
128.6 360.85

TOP ALTITUDE: ASSIGNED BY ATC



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

TAKEOFF MINIMUMS
Rwy 13, 31: Standard with minimum climb of 500′ per NM to 560.



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 13: Climb heading 131° to 560 for RADAR vectors to WYLSN, thence. . . .
TAKEOFF RWY 31: Climb heading 311° to 560 for RADAR vectors to WYLSN, thence. . . .

. . . .on track 360° to MONNT, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

GIFFA TRANSITION (WYLSN7.GIFFA)
MAJKK TRANSITION (WYLSN7.MAJKK)

NOTE: Chart not to scale.

SC-5, 25 FEB 2021 to 22 APR 2021

BAYTOWN, TEXAS

AL-5757 (FAA)

18032

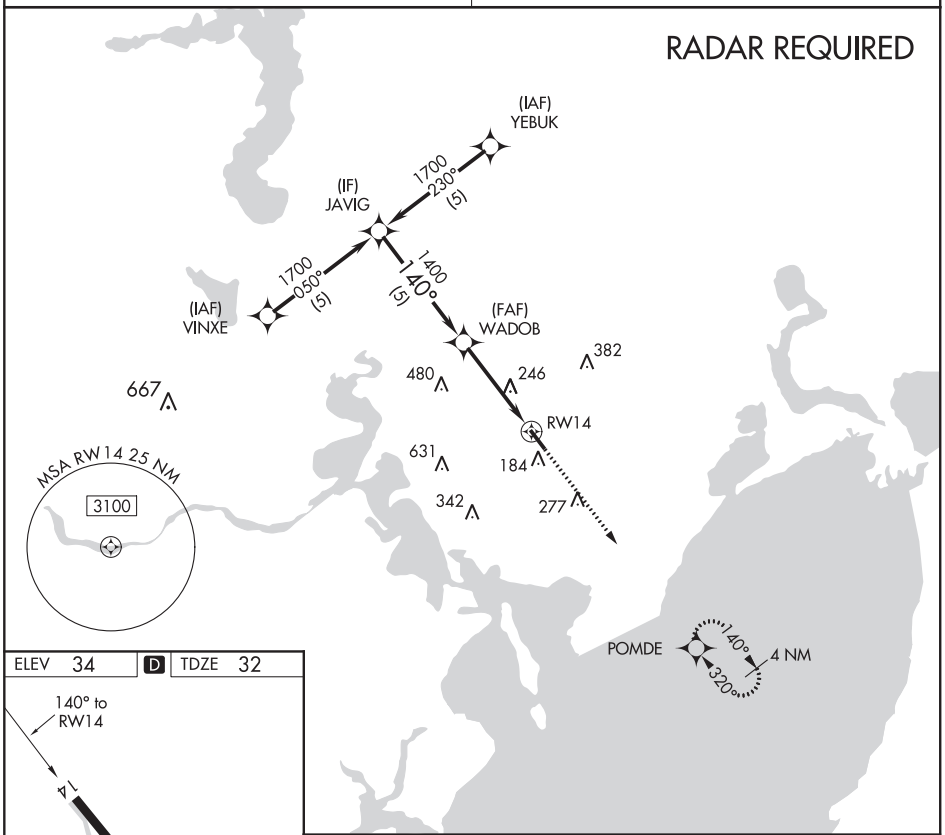
RNAV (GPS) RWY 14
BAYTOWN (HPY)

APP CRS	Rwy ldg	3320
140°	TDZE	32
	Apt Elev	34

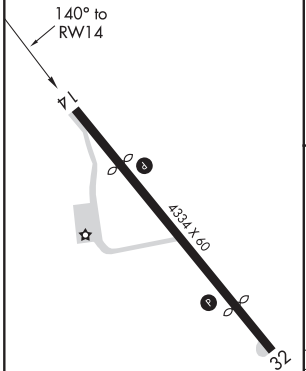
Circling NA at night. DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. Obtain local altimeter setting on CTAF; when not received, use William P Hobby altimeter setting and increase all MDA 60 feet.

MISSED APPROACH: Climb to 2000 direct to POMDE and hold.

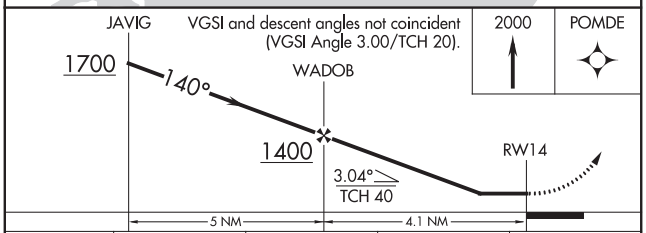
HOUSTON APP CON	UNICOM
134.45 281.4	122.8 (CTAF) L



ELEV 34 | D | TDZE 32



MIRL Rwy 14-32 L
REIL Rwys 14 and 32 L



CATEGORY	A	B	C	D
LNAV MDA	500-1 468 (500-1)		NA	
CIRCLING	500-1 466 (500-1)		NA	

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RNAV (GPS) RWY 32

BAYTOWN (HPY)

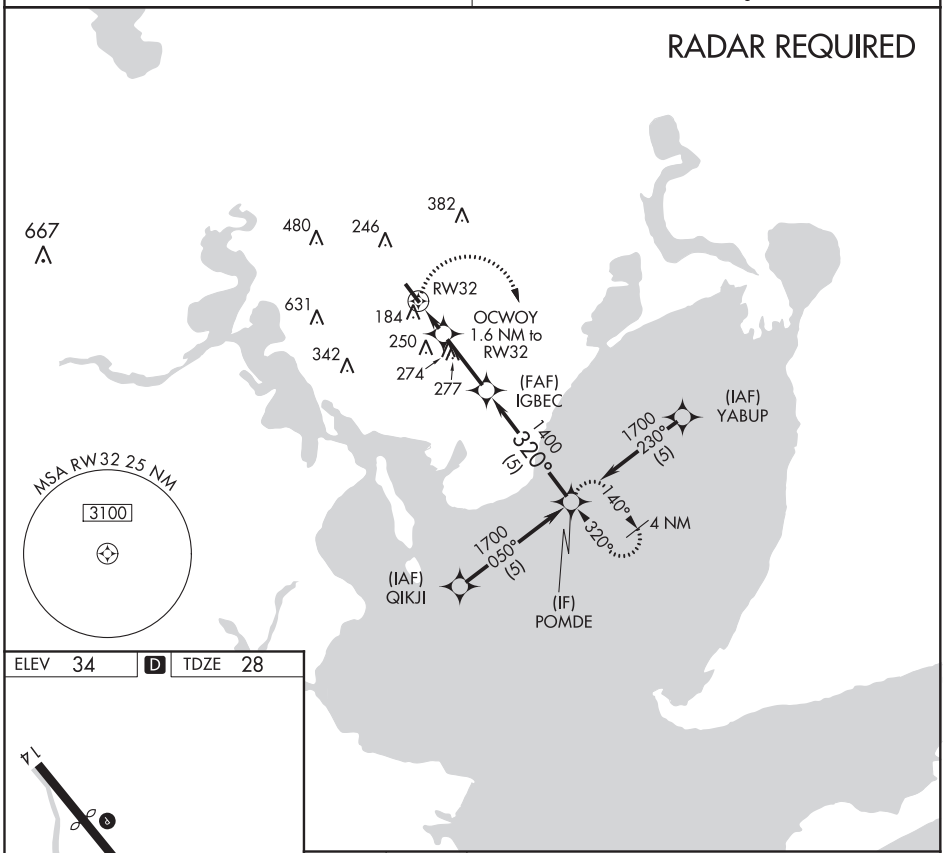
APP CRS	Rwy ldg	3283
320°	TDZE	28
	Apt Elev	34

T NA

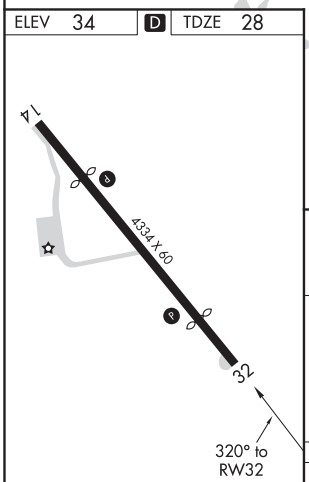
Circling NA at night. DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. Obtain local altimeter setting on CTAF; when not received, use William P Hobby altimeter setting and increase all MDA 60 feet.

MISSED APPROACH: Climbing right turn to 2000 direct to POMDE and hold.

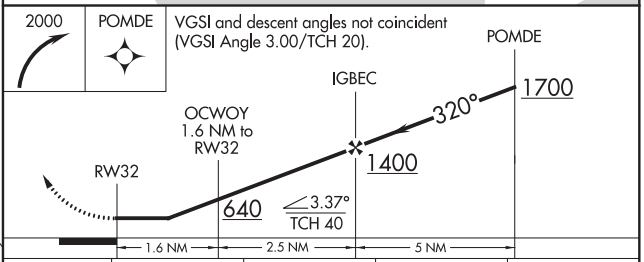
HOUSTON APP CON	UNICOM
134.45 281.4	122.8 (CTAF) L



ELEV 34 D TDZE 28



MIRL Rwy 14-32 L
REIL Rwys 14 and 32 L



CATEGORY	A	B	C	D
LNAV MDA	440-1	412 (500-1)	NA	
CIRCLING	500-1	466 (500-1)	NA	

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SC-5, 25 FEB 2021 to 22 APR 2021

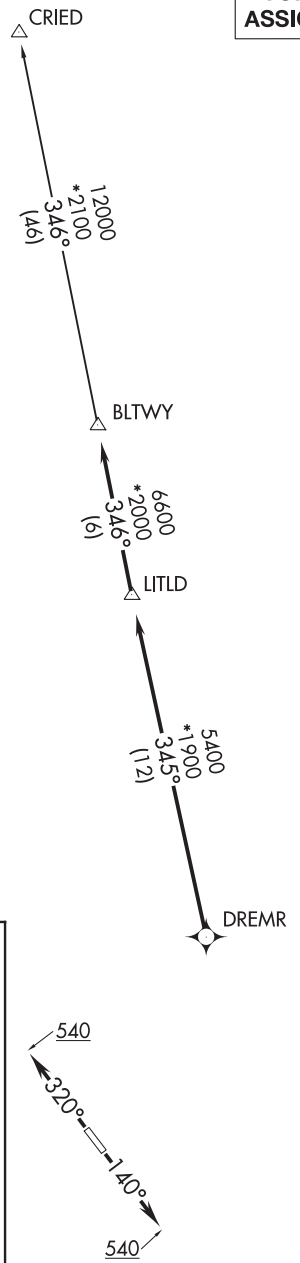
(BLTWY6.BLTWY) 19115

BLTWY SIX DEPARTURE (RNAV)

BAYTOWN (HPY)
BAYTOWN, TEXAS

CTAF
122.8
HOUSTON DEP CON
134.45 284.0

TOP ALTITUDE: ASSIGNED BY ATC



NOTE: RADAR required.

NOTE: DME/DME/IRU or GPS required.

NOTE: RNAV 1.

TAKEOFF MINIMUMS

Rwy 14, 32: Standard with minimum climb of 500′ per NM to 540.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 14: Climb heading 140° to 540 for RADAR vectors to DREMR, thence . . . .
TAKEOFF RWY 32: Climb heading 320° to 540 for RADAR vectors to DREMR, thence . . . .

...on track 345° to LITLD, then on track 346° to BLTWY, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

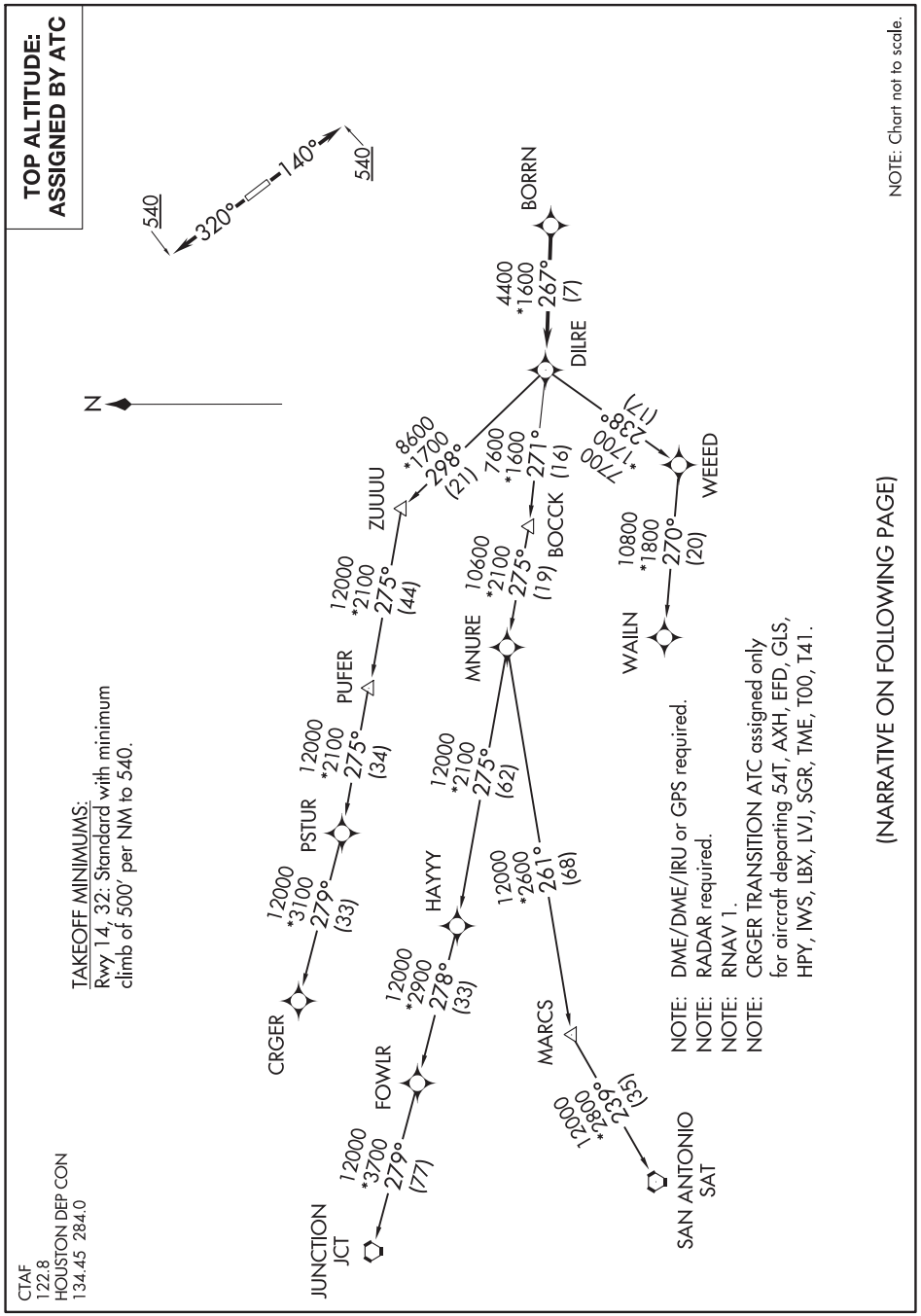
CRIED TRANSITION (BLTWY6.CRIED)

NOTE: Chart not to scale.

SC-5, 25 FEB 2021 to 22 APR 2021

BLTWY SIX DEPARTURE (RNAV)
(BLTWY6.BLTWY) 25APR19
BAYTOWN, TEXAS
BAYTOWN (HPY)

BORRN FOUR DEPARTURE (RNAV)



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 14: Climb on heading 140° to 540, for RADAR vectors to BORRN, thence. . . .
TAKEOFF RWY 32: Climb on heading 320° to 540, for RADAR vectors to BORRN, thence. . . .

. . . .on track 267° to DILRE, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

CRGER TRANSITION (BORRN4.CRGER)
JUNCTION TRANSITION (BORRN4.JCT)
MNURE TRANSITION (BORRN4.MNURE)
SAN ANTONIO TRANSITION (BORRN4.SAT)
WAILN TRANSITION (BORRN4.WAILN)

SC-5, 25 FEB 2021 to 22 APR 2021

HOODO SIX DEPARTURE (RNAV)
(HOODO6.HOODO) 25APR19

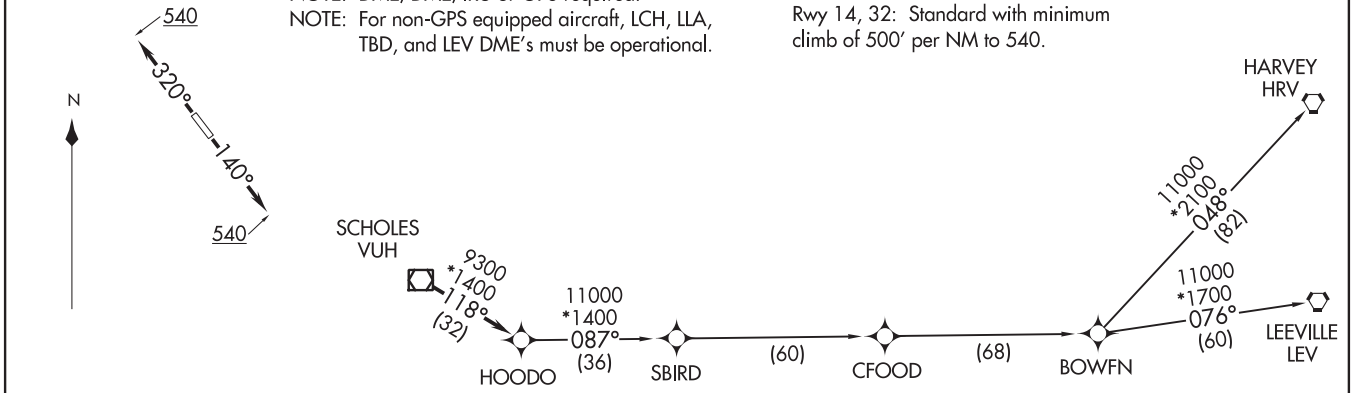
BAYTOWN, TEXAS
BAYTOWN (HPY)

CTAF
122.8
HOUSTON DEP CON
134.45 284.0

NOTE: RNAV 1.
NOTE: RADAR required.
NOTE: ATC assigned only.
NOTE: DME/DME/IRU or GPS required.
NOTE: For non-GPS equipped aircraft, LCH, LLA, TBD, and LEV DME's must be operational.

TOP ALTITUDE: ASSIGNED BY ATC

TAKEOFF MINIMUMS
Rwy 14, 32: Standard with minimum climb of 500′ per NM to 540.



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 14: Climb heading 140° to 540, for RADAR vectors to VUH VOR/DME, thence . . . .
TAKEOFF RWY 32: Climb heading 320° to 540, for RADAR vectors to VUH VOR/DME, thence . . . .

. . . . on track 118° to HOODO, then on (transition). Maintain ATC assigned altitude.
Expect filed altitude 10 minutes after departure.

BOWFN TRANSITION (HOODO6.BOWFN)
CFOOD TRANSITION (HOODO6.CFOOD)
HARVEY TRANSITION (HOODO6.HRV)
LEEVILLE TRANSITION (HOODO6.LEV)
SBIRD TRANSITION (HOODO6.SBIRD)

(HOODO6.HOODO) 19115
HOODO SIX DEPARTURE (RNAV)
AL-5757 (FAA)
BAYTOWN (HPY)
BAYTOWN, TEXAS

(INDIE7.INDIE) 19115

INDIE SEVEN DEPARTURE (RNAV)

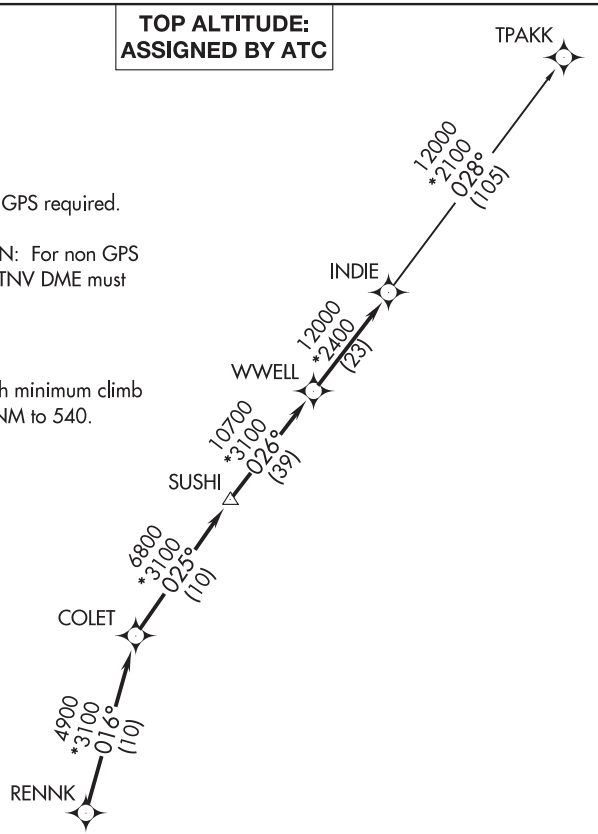
BAYTOWN (HPY)
BAYTOWN, TEXAS

CTAF
122.8
HOUSTON DEP CON
134.45 284.0

TOP ALTITUDE: ASSIGNED BY ATC

NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV 1.
NOTE: TPAKK TRANSITION: For non GPS equipped aircraft TNV DME must be operational.

TAKEOFF MINIMUMS
Rwy 14, 32: Standard with minimum climb of 500′ per NM to 540.



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 14: Climb heading 140° to 540 for RADAR vectors to RENNK, thence . . . .
TAKEOFF RWY 32: Climb heading 320° to 540 for RADAR vectors to RENNK, thence . . . .

. . . . on track 016° to COLET, then on track 025° to SUSHI, then on track 026° to WWELL, then on track 026° to INDIE, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

TPAKK TRANSITION (INDIE7.TPAKK)

NOTE: Chart not to scale.

SC-5, 25 FEB 2021 to 22 APR 2021
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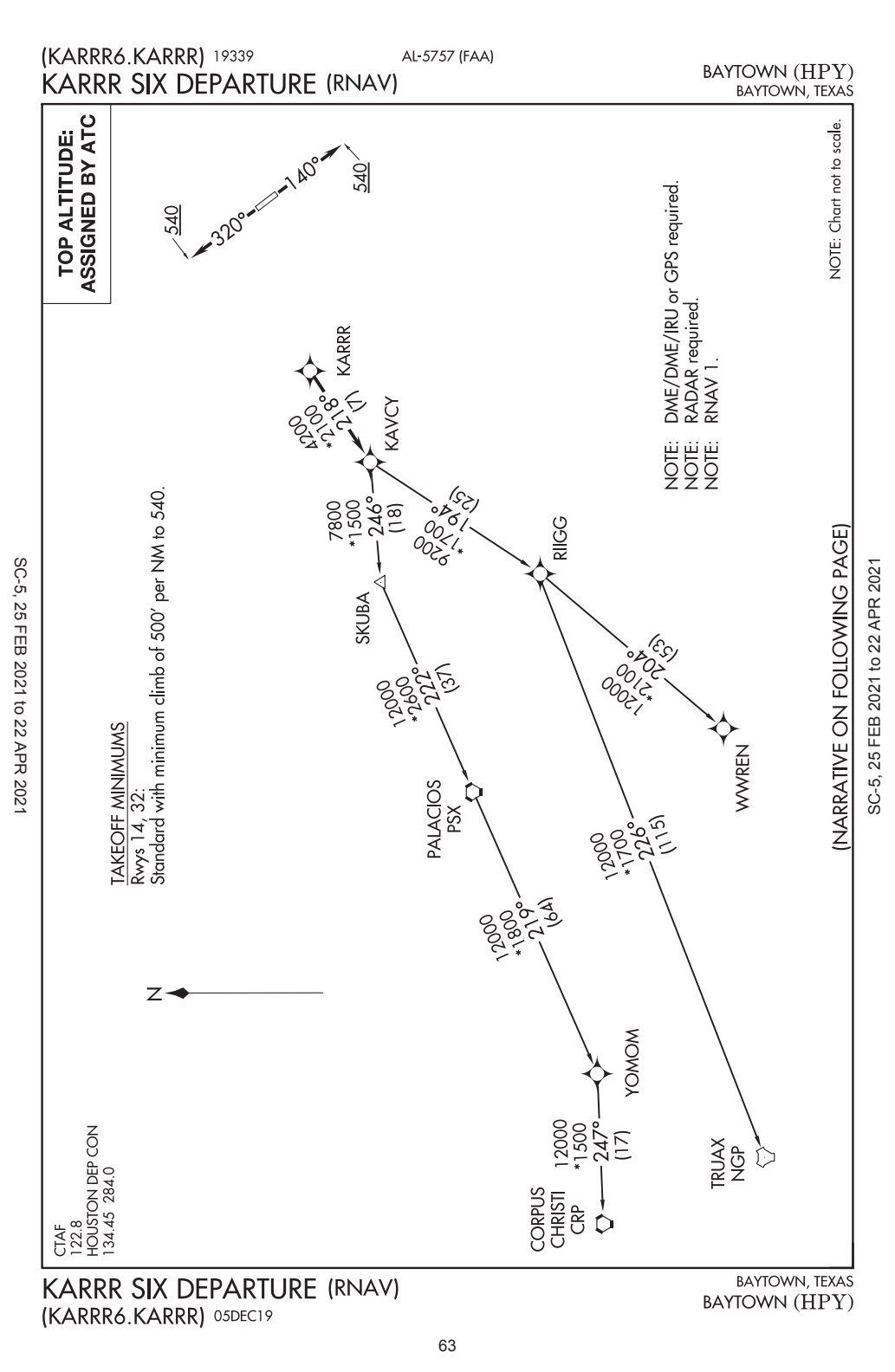
KARRR SIX DEPARTURE (RNAV)



KARRR SIX DEPARTURE (RNAV)

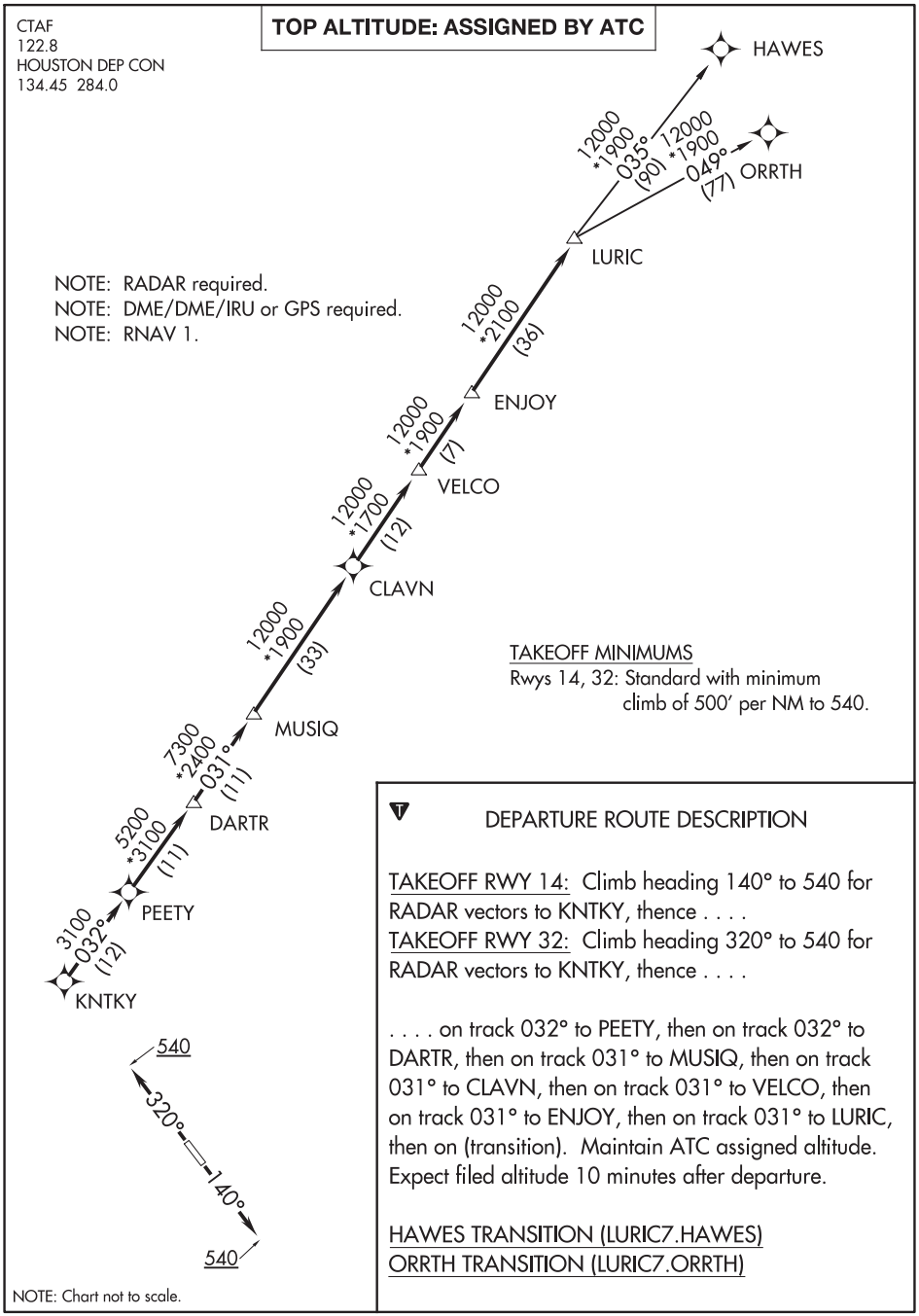
DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 14: Climb on heading 140° to 540, for RADAR vectors to KARRR, thence. . . .
TAKEOFF RWY 32: Climb on heading 320° to 540, for RADAR vectors to KARRR, thence . . . .

. . . .on track 218° to KAVCY, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

CORPUS CHRISTI TRANSITION (KARRR6.CRP)
PALACIOS TRANSITION (KARRR6.PSX)
TRUAX TRANSITION (KARRR6.NGP)
WWREN TRANSTION (KARRR6.WWREN)
YOMOM TRANSITION (KARRR6.YOMOM)

LURIC SEVEN DEPARTURE (RNAV)



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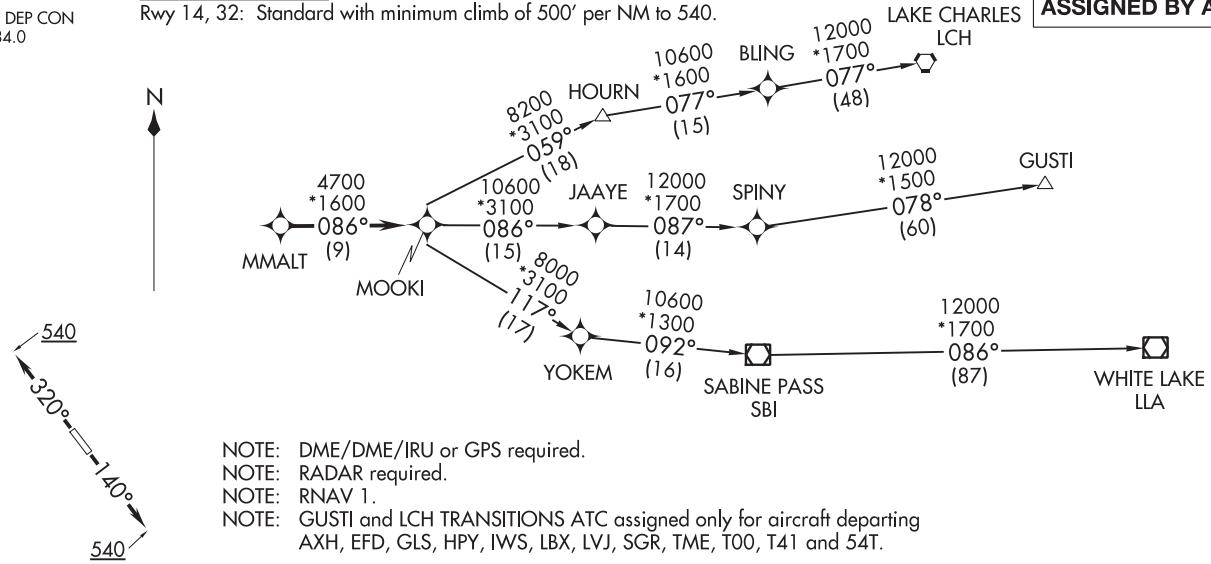
LURIC SEVEN DEPARTURE (RNAV)

BAYTOWN, TEXAS
BAYTOWN (HPY)

CTAF
122.8
HOUSTON DEP CON
134.45 284.0

TAKEOFF MINIMUMS
Rwy 14, 32: Standard with minimum climb of 500′ per NM to 540.

TOP ALTITUDE: ASSIGNED BY ATC



NOTE: DME/DME/IRU or GPS required.
NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: GUSTI and LCH TRANSITIONS ATC assigned only for aircraft departing AXH, EFD, GLS, HPY, IWS, LBX, LVJ, SGR, TME, T00, T41 and 54T.

DEPARTURE ROUTE DESCRIPTION

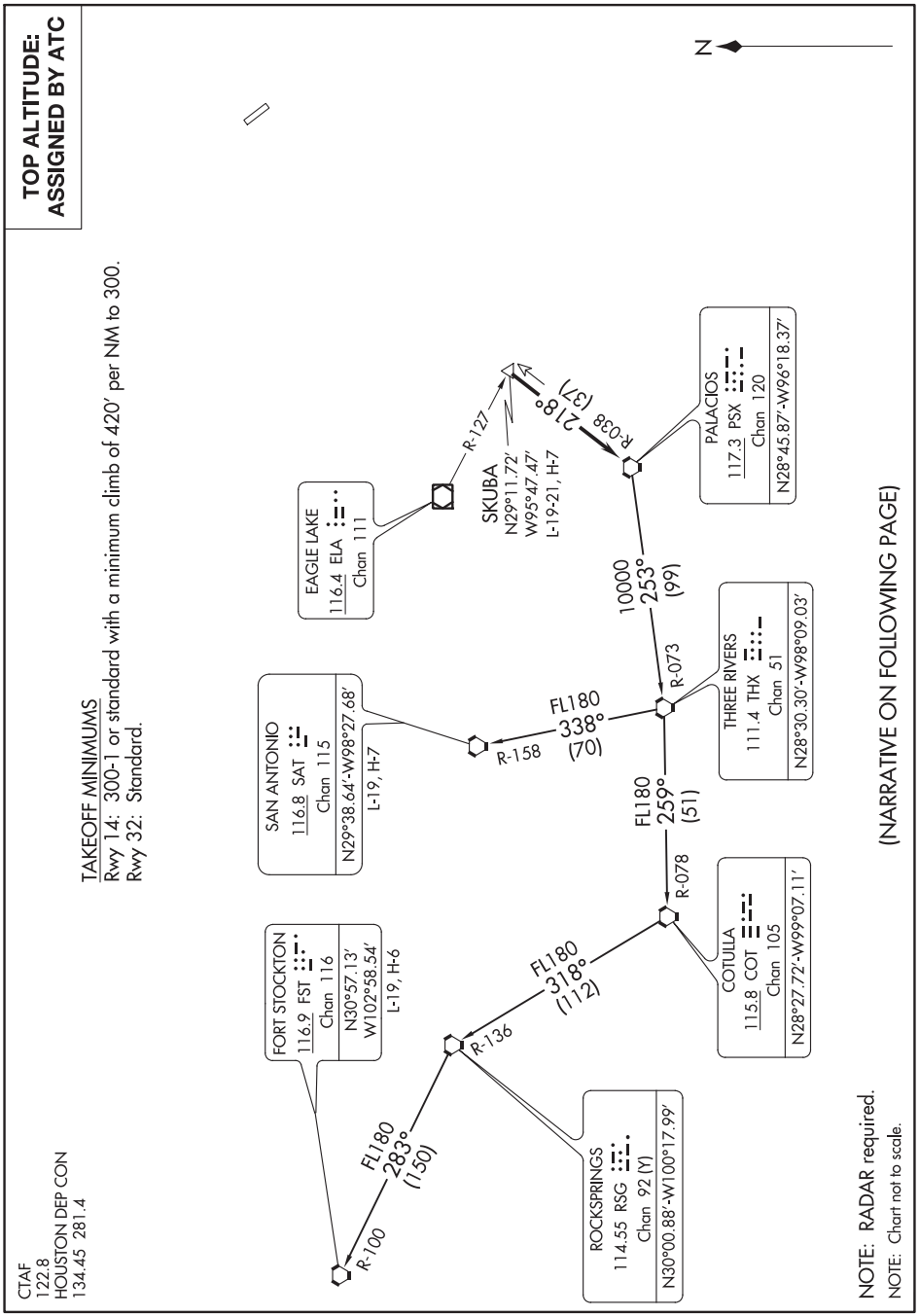
TAKEOFF RWY 14: Climb on heading 140° to 540 for RADAR vectors to MMALT, thence. . . .
TAKEOFF RWY 32: Climb on heading 320° to 540 for RADAR vectors to MMALT, thence. . . .

. . . .on track 086° to MOOKI, then on (transition). Maintain ATC assigned altitude.
Expect filed altitude 10 minutes after departure.

GUSTI TRANSITION (MMALT5.GUSTI)
LAKE CHARLES TRANSITION (MMALT5.LCH)
WHITE LAKE TRANSITION (MMALT5.LLA)

NOTE: Chart not to scale.

PALACIOS ONE DEPARTURE



DEPARTURE ROUTE DESCRIPTION

TAKEOFF ALL RUNWAYS: When entering controlled airspace, climb on assigned heading for RADAR vectors to SKUBA INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .

. . . .on PSX R-038 to PSX VORTAC.

FORT STOCKTON TRANSITION (PSX1.FST): From over PSX VORTAC on PSX R-253 and THX R-073 to THX VORTAC, then on THX R-259 and COT R-078 to COT VORTAC, then on COT R-318 and RSG R-136 to RSG VORTAC, then on RSG R-283 and FST R-100 to FST VORTAC.

SAN ANTONIO TRANSITION (PSX1.SAT): From over PSX VORTAC on PSX R-253 and THX R-073 to THX VORTAC, then on SAT R-158 to SAT VORTAC.

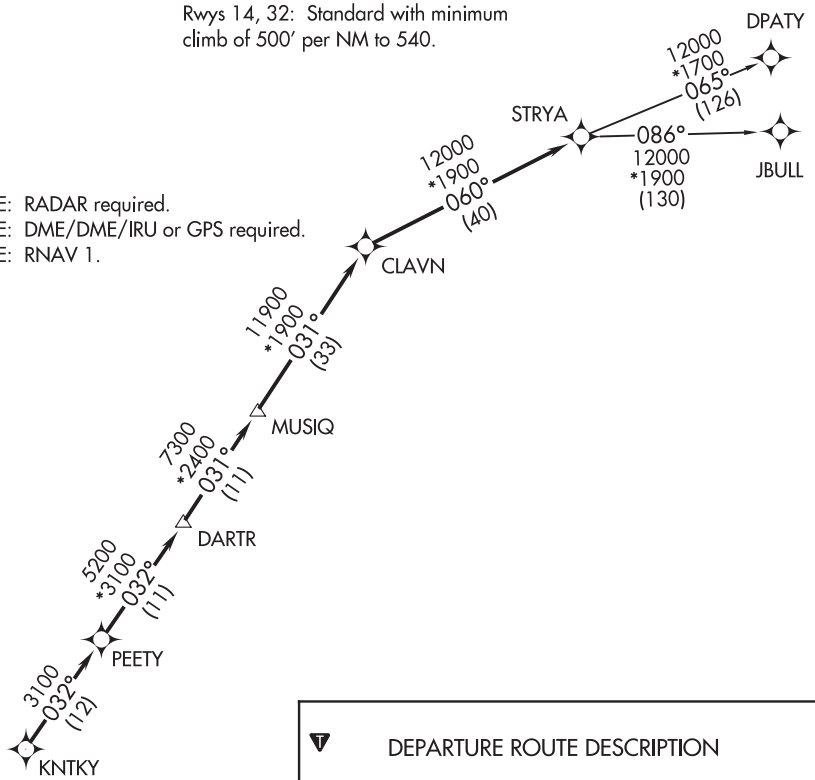
STRYA SEVEN DEPARTURE (RNAV)

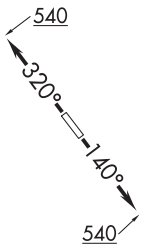
TOP ALTITUDE: ASSIGNED BY ATC

CTAF
122.8
HOUSTON DEP CON
134.45 284.0

TAKEOFF MINIMUMS
Rwys 14, 32: Standard with minimum climb of 500′ per NM to 540.

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





NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 14: Climb heading 140° to 540 for RADAR vectors to KNTKY, thence . . . .
TAKEOFF RWY 32: Climb heading 320° to 540 for RADAR vectors to KNTKY, thence . . . .

. . . . on track 032° to PEETY, then on track 032° to DARTR, then on track 031° to MUSIQ, then on track 031° to CLAVN, then on track 060° to STRYA, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

DPATY TRANSITION (STRYA7.DPATY)
JBULL TRANSITION (STRYA7.JBULL)

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(STYCK7.STYCK) 19115 AL-5757 (FAA)

STYCK SEVEN DEPARTURE (RNAV)

BAYTOWN (HPY)
BAYTOWN, TEXAS

TOP ALTITUDE: ASSIGNED BY ATC

CTAF
122.8
HOUSTON DEP CON
134.45 284.0

WTSON

DOLEY

12000
*2000
339°
(67)

12000
*2100
346°
(65)

STYCK

12000
*1900
332°
(39)

WLLIS

6400
*2000
331°
(17)

SPICR

3000
*2000
331°
(12)

BBYSE

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

TAKEOFF MINIMUMS
Rwys 14, 32: Standard with minimum climb of 500′ per NM to 540.

540
320°
140°
540

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 14: Climb heading 140° to 540 for RADAR vectors to BBYSE, thence. . . .
TAKEOFF RWY 32: Climb heading 320° to 540 for RADAR vectors to BBYSE, thence. . . .

. . . .on track 331° to SPICR, then on track 331° to WLLIS, then on track 332° to STYCK, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

DOLEY TRANSITION (STYCK7.DOLEY)
WTSON TRANSITION (STYCK7.WTSON)

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WATFO FIVE DEPARTURE (RNAV)

BAYTOWN (HPY)
BAYTOWN, TEXAS

TOP ALTITUDE: ASSIGNED BY ATC

CTAF
122.8
HOUSTON DEP CON
134.45 284.0

540 318° 138° 540

WATFO
*4800
1600
141°
(9)
SCHOLES
VUH

TAKEOFF MINIMUMS:
Rwy 14, 32: Standard with minimum climb of 500′ per NM to 540.

9000
*1700
144°
(76)
MUSYL

9000
*1700
132°
(130)
ANKRR

9000
*1700
123°
(199)
KELPP

NOTE: GPS required.
NOTE: RADAR required.
NOTE: RNAV 1.

NOTE: Chart not to scale.

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DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 14: Climb on heading 138° to 540, for RADAR vectors to WATFO, thence. . . .
TAKEOFF RWY 32: Climb on heading 318° to 540, for RADAR vectors to WATFO, thence. . . .

. . . .on track 141° to VUH VOR/DME, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

ANKRR TRANSITION (WATFO5.ANKRR)
KELPP TRANSITION (WATFO5.KELPP)
MUSYL TRANSITION (WATFO5.MUSYL)

(WYLSN7.WYLSN) 19115 AL-5757 (FAA)

BAYTOWN (HPY)

BAYTOWN, TEXAS

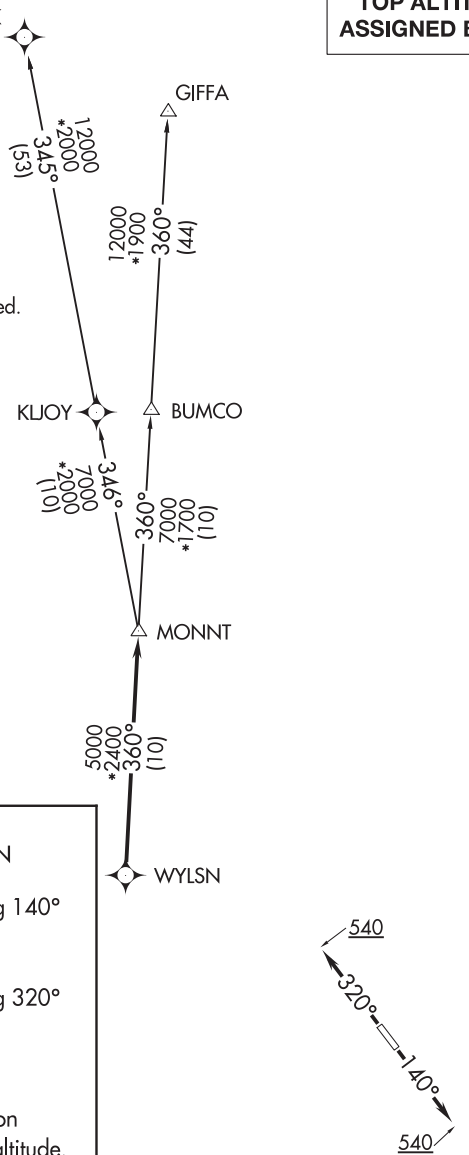
WYLSN SEVEN DEPARTURE (RNAV)

CTAF
122.8
HOUSTON DEP CON
134.45 284.0

TOP ALTITUDE: ASSIGNED BY ATC

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

TAKEOFF MINIMUMS
Rwy 14, 32: Standard with minimum climb of 500′ per NM to 540.



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 14: Climb on heading 140° to 540 for RADAR vectors to WYLSN, thence. . . .
TAKEOFF RWY 32: Climb on heading 320° to 540 for RADAR vectors to WYLSN, thence. . . .

. . . .on track 360° to MONNT, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

GIFFA TRANSITION (WYLSN7.GIFFA)
MAJKK TRANSITION (WYLSN7.MAJKK)

NOTE: Chart not to scale.

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WYLSN SEVEN DEPARTURE (RNAV)

(WYLSN7.WYLSN) 25APR19

BAYTOWN, TEXAS

BAYTOWN (HPY)

RNAV (GPS)-A

RWJ AIRPARK (54T)

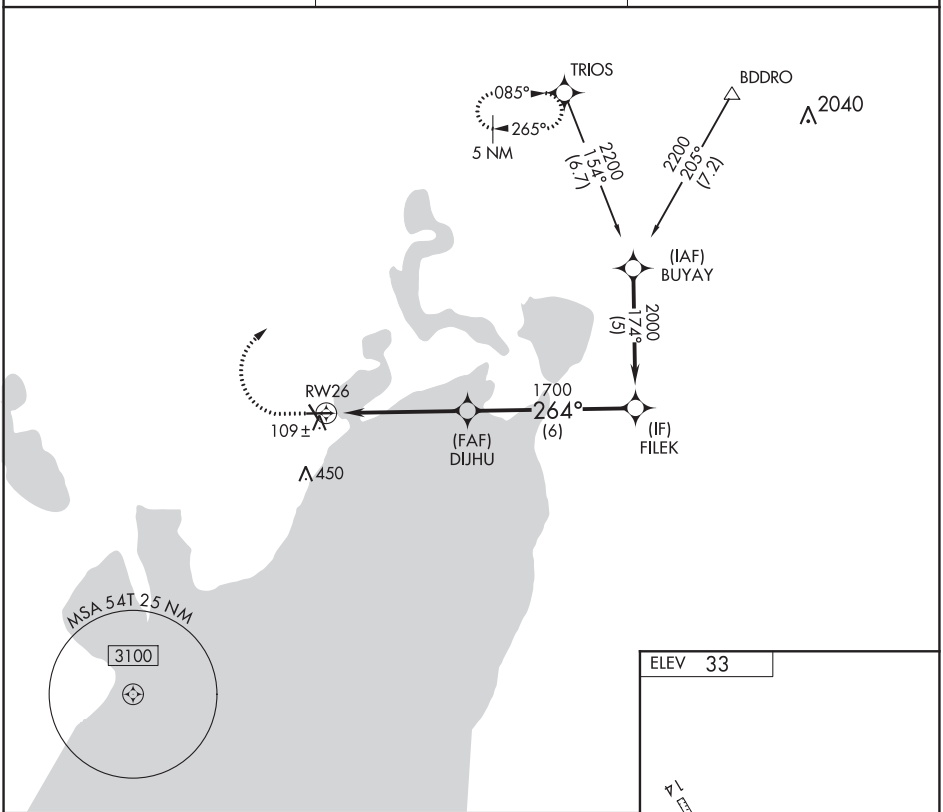
APP CRS	Rwy ldg	N/A
264°	TDZE	N/A
	Apt Elev	33

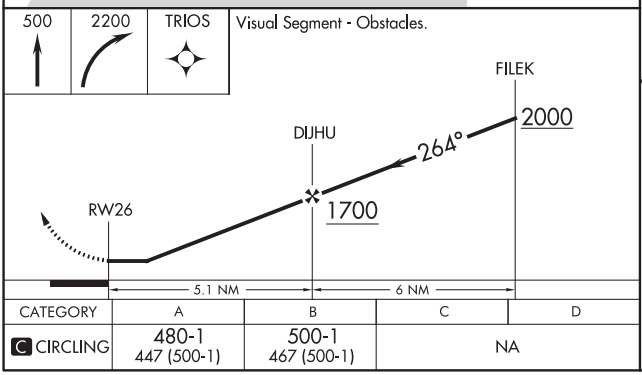
RNP APCH.

Circling NA to Rwys 14 and 32. Procedure NA at night. Use William P Hobby altimeter setting.

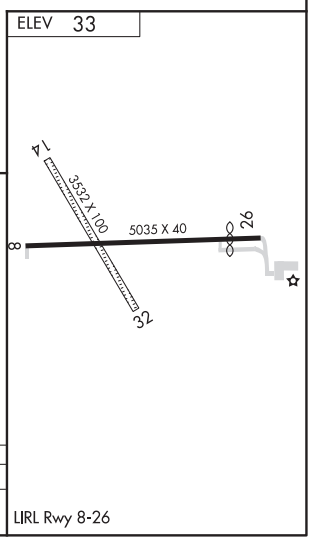
MISSED APPROACH: Climb to 500 then climbing right turn to 2200 direct TRIOS and hold.

HOU ASOS	HOUSTON APP CON	UNICOM
124.6	134.45 284.0	122.7 (CTAF)





CATEGORY	A	B	C	D
C CIRCLING	480-1 447 (500-1)	500-1 467 (500-1)	NA	



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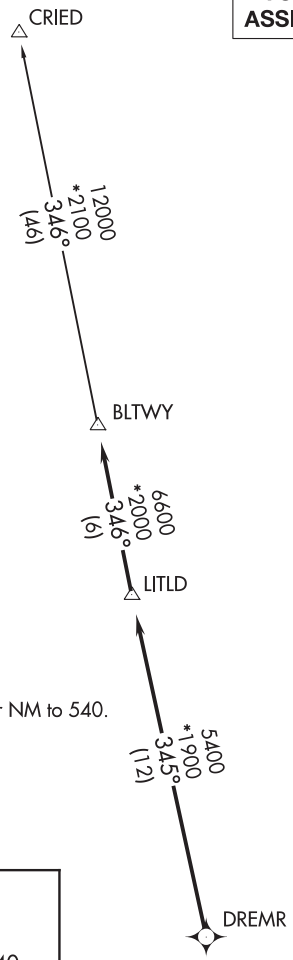
(BLTWY6.BLTWY) 19115

BLTWY SIX DEPARTURE (RNAV)

RWJ AIRPARK (54T)
BAYTOWN, TEXAS

TOP ALTITUDE: ASSIGNED BY ATC

CTAF
122.7
HOUSTON DEP CON
134.45 284.0

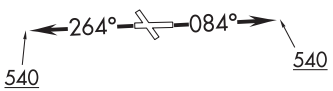


NOTE: RADAR required.

NOTE: DME/DME/IRU or GPS required.

NOTE: RNAV 1.

TAKEOFF MINIMUMS
Rwys 14, 32: NA - Environmental.
Rwys 8, 26: Standard with minimum climb of 500′ per NM to 540.



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 8: Climb on heading 084° to 540 for RADAR vectors to DREMR, thence . . . .
TAKEOFF RWY 26: Climb on heading 264° to 540 for RADAR vectors to DREMR, thence . . . .

...on track 345° to LITLD, then on track 346° to BLTWY, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

CRIED TRANSITION (BLTWY6.CRIED)

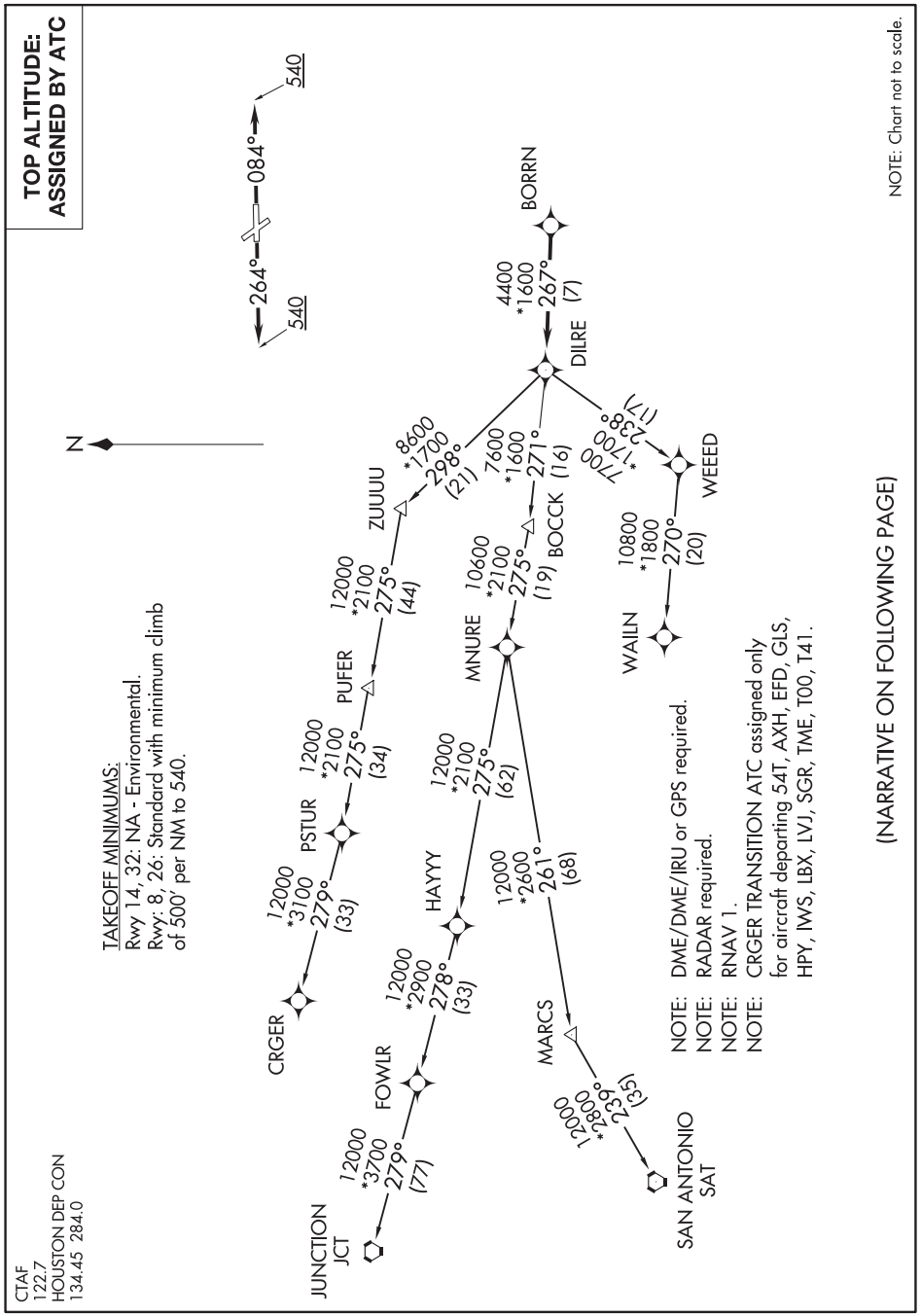
NOTE: Chart not to scale.

SC-5, 25 FEB 2021 to 22 APR 2021

BLTWY SIX DEPARTURE (RNAV)
(BLTWY6.BLTWY) 25APR19

BAYTOWN, TEXAS
RWJ AIRPARK (54T)

BORRN FOUR DEPARTURE (RNAV)



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DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 8: Climb on heading 084° to 540, for RADAR vectors to BORRN, thence. . . .
TAKEOFF RWY 26: Climb on heading 264° to 540, for RADAR vectors to BORRN, thence. . . .

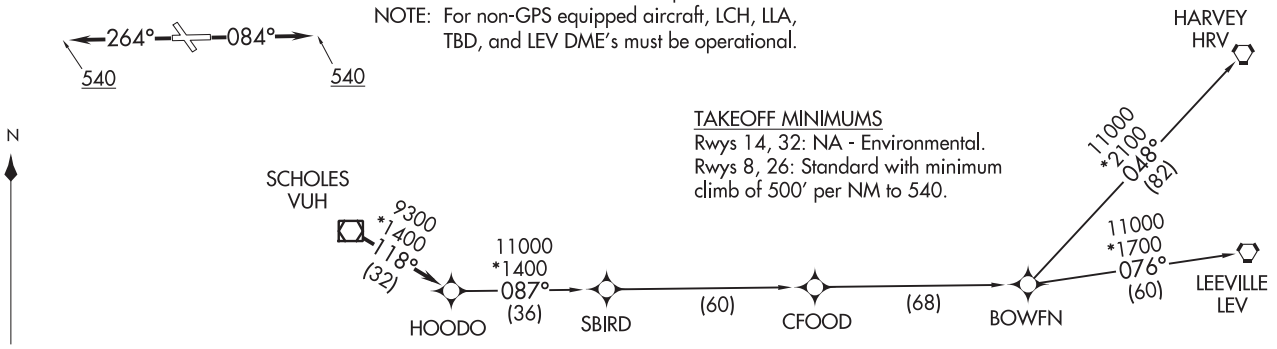
. . . .on track 267° to DILRE, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

CRGER TRANSITION (BORRN4.CRGER)
JUNCTION TRANSITION (BORRN4.JCT)
MNURE TRANSITION (BORRN4.MNURE)
SAN ANTONIO TRANSITION (BORRN4.SAT)
WAILN TRANSITION (BORRN4.WAILN)

TOP ALTITUDE: ASSIGNED BY ATC

CTAF
122.7
HOUSTON DEP CON
134.45 284.0

NOTE: RNAV 1.
NOTE: RADAR required.
NOTE: ATC assigned only.
NOTE: DME/DME/IRU or GPS required.
NOTE: For non-GPS equipped aircraft, LCH, LLA, TBD, and LEV DME's must be operational.



TAKEOFF MINIMUMS
Rwys 14, 32: NA - Environmental.
Rwys 8, 26: Standard with minimum climb of 500' per NM to 540.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 8: Climb heading 084° to 540, for RADAR vectors to VUH VOR/DME, thence . . . .
TAKEOFF RUNWAY 26: Climb heading 264° to 540, for RADAR vectors to VUH VOR/DME, thence . . . .

. . . . on track 118° to HOODO, then on (transition). Maintain ATC assigned altitude.
Expect filed altitude 10 minutes after departure.

BOWFN TRANSITION (HOODO6.BOWFN)
CFOOD TRANSITION (HOODO6.CFOOD)
HARVEY TRANSITION (HOODO6.HRV)
LEEVILLE TRANSITION (HOODO6.LEV)
SBIRD TRANSITION (HOODO6.SBIRD)

(INDIE7.INDIE) 19115

INDIE SEVEN DEPARTURE (RNAV)

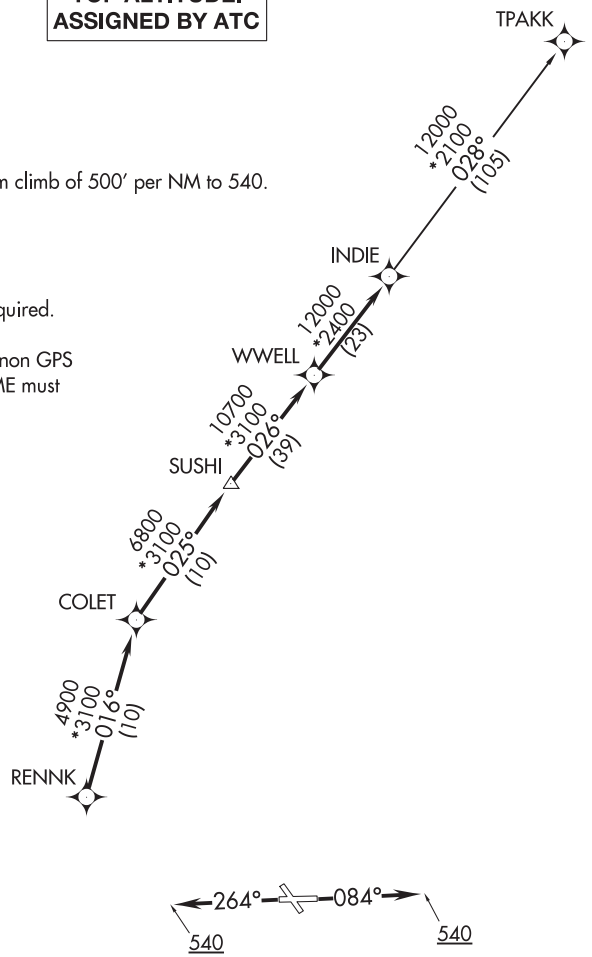
RWJ AIRPARK (54T)
BAYTOWN, TEXAS

HOUSTON DEP CON
134.45 284.0
CTAF
122.7

TOP ALTITUDE: ASSIGNED BY ATC

TAKEOFF MINIMUMS
Rwy 14, 32: NA - Environmental.
Rwy 8, 26: Standard with minimum climb of 500′ per NM to 540.

NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV 1.
NOTE: TPAKK TRANSITION: For non GPS equipped aircraft TNV DME must be operational.



NOTE: Chart not to scale.

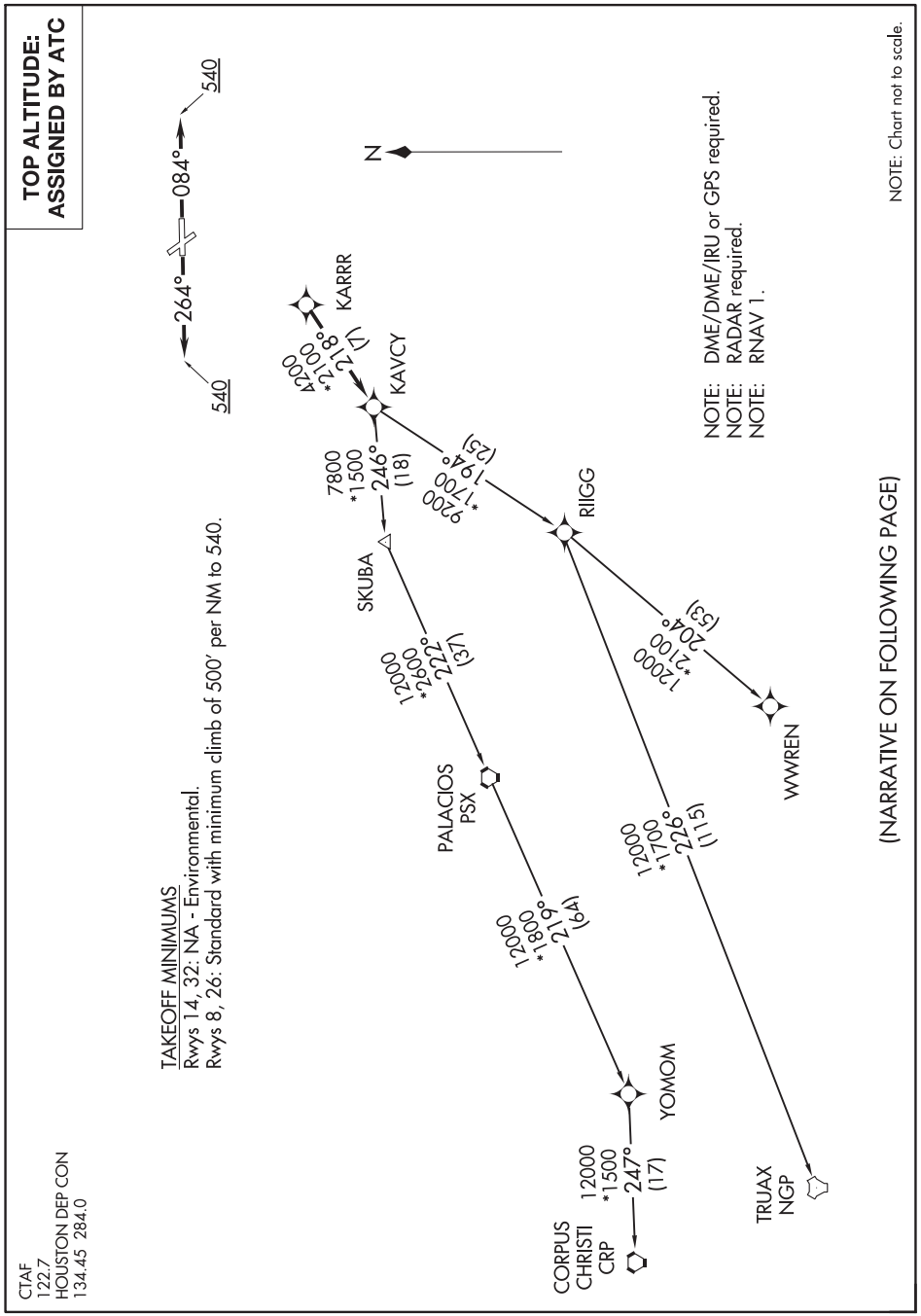
DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 8: Climb heading 084° to 540 for RADAR vectors to RENNK, thence . . . .
TAKEOFF RWY 26: Climb heading 264° to 540 for RADAR vectors to RENNK, thence . . . .

. . . . on track 016° to COLET, then on track 025° to SUSHI, then on track 026° to WWELL, then on track 026° to INDIE, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

TPAKK TRANSITION (INDIE7.TPAKK)

KARRR SIX DEPARTURE (RNAV)



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DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 8: Climb on heading 084° to 540, for RADAR vectors to KARRR, thence. . . .
TAKEOFF RWY 26: Climb on heading 264° to 540, for RADAR vectors to KARRR, thence. . . .

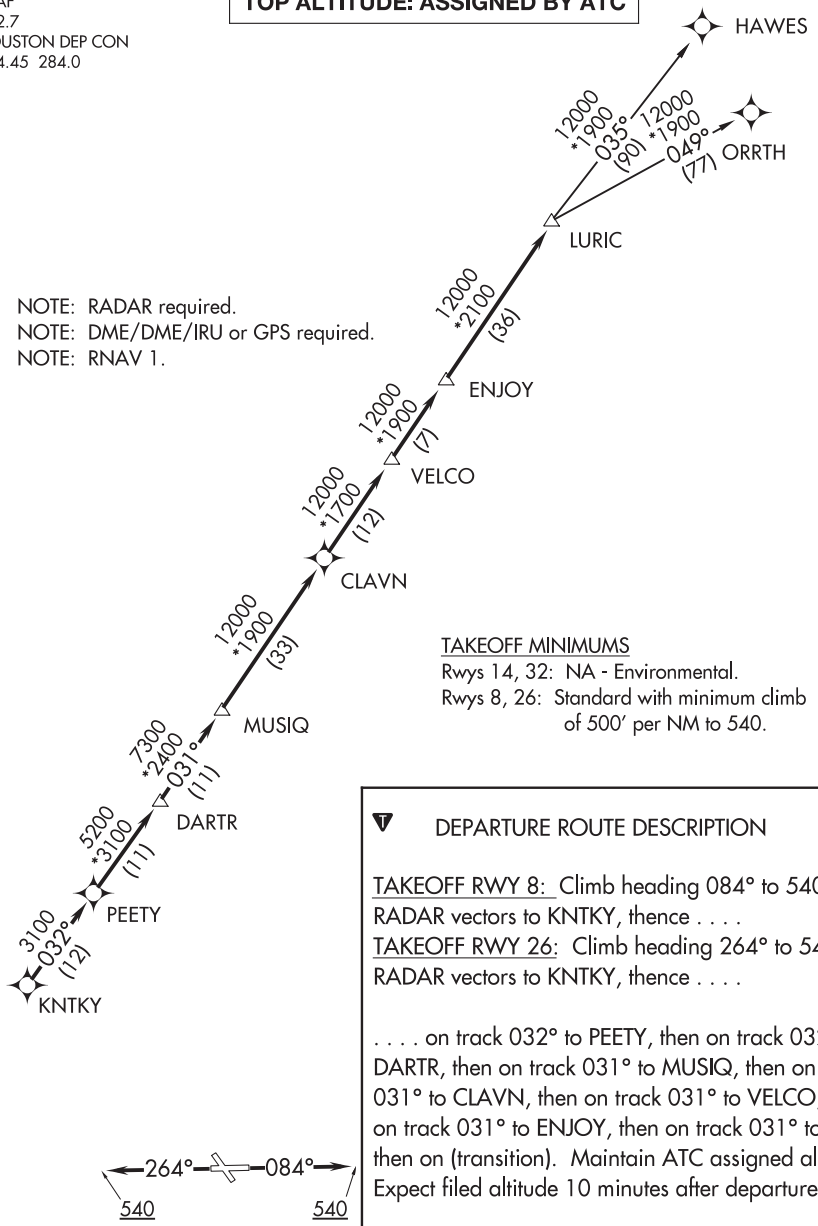
. . . .on track 218° to KAVCY, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

CORPUS CHRISTI TRANSITION (KARRR6.CRP)
PALACIOS TRANSITION (KARRR6.PSX)
TRUAX TRANSITION (KARRR6.NGP)
WWREN TRANSITION (KARRR6.WWREN)
YOMOM TRANSITION (KARRR6.YOMOM)

LURIC SEVEN DEPARTURE (RNAV)

TOP ALTITUDE: ASSIGNED BY ATC

CTAF
122.7
HOUSTON DEP CON
134.45 284.0



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

TAKEOFF MINIMUMS
Rwys 14, 32: NA - Environmental.
Rwys 8, 26: Standard with minimum climb of 500′ per NM to 540.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 8: Climb heading 084° to 540 for RADAR vectors to KNTKY, thence . . . .
TAKEOFF RWY 26: Climb heading 264° to 540 for RADAR vectors to KNTKY, thence . . . .

. . . . on track 032° to PEETY, then on track 032° to DARTR, then on track 031° to MUSIQ, then on track 031° to CLAVN, then on track 031° to VELCO, then on track 031° to ENJOY, then on track 031° to LURIC, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

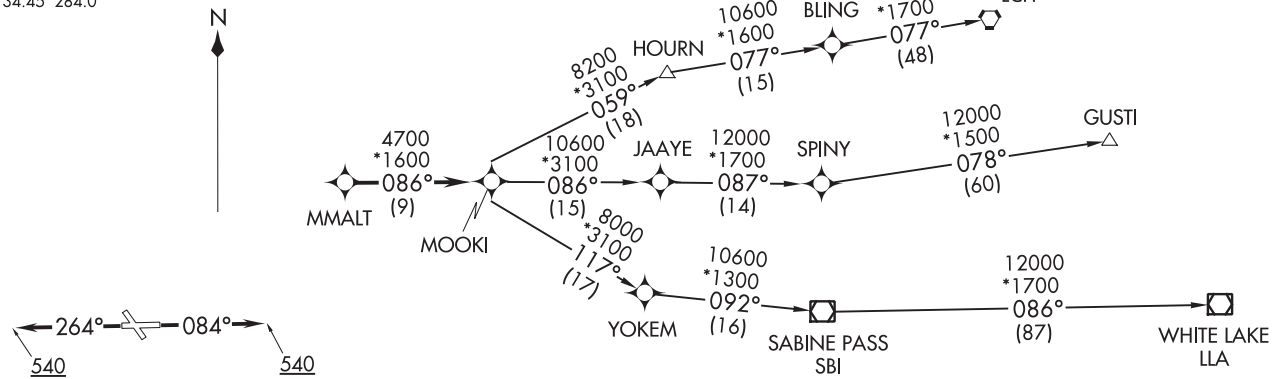
HAWES TRANSITION (LURIC7.HAWES)
ORRTH TRANSITION (LURIC7.ORRTH)

NOTE: Chart not to scale.

SC-5, 25 FEB 2021 to 22 APR 2021

TOP ALTITUDE: ASSIGNED BY ATC

CTAF
122.7
HOUSTON DEP CON
134.45 284.0



TAKEOFF MINIMUMS
Rwy 14, 32: NA - enivormental.
Rwy 8, 26: Standard with minimum climb of 500′ per NM to 540.

NOTE: DME/DME/IRU or GPS required.
NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: GUSTI and LCH TRANSITIONS ATC assigned only for aircraft departing AXH, EFD, GLS, HPY, IWS, LBX, LVJ, SGR, TME, T00, T41 and 54T.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

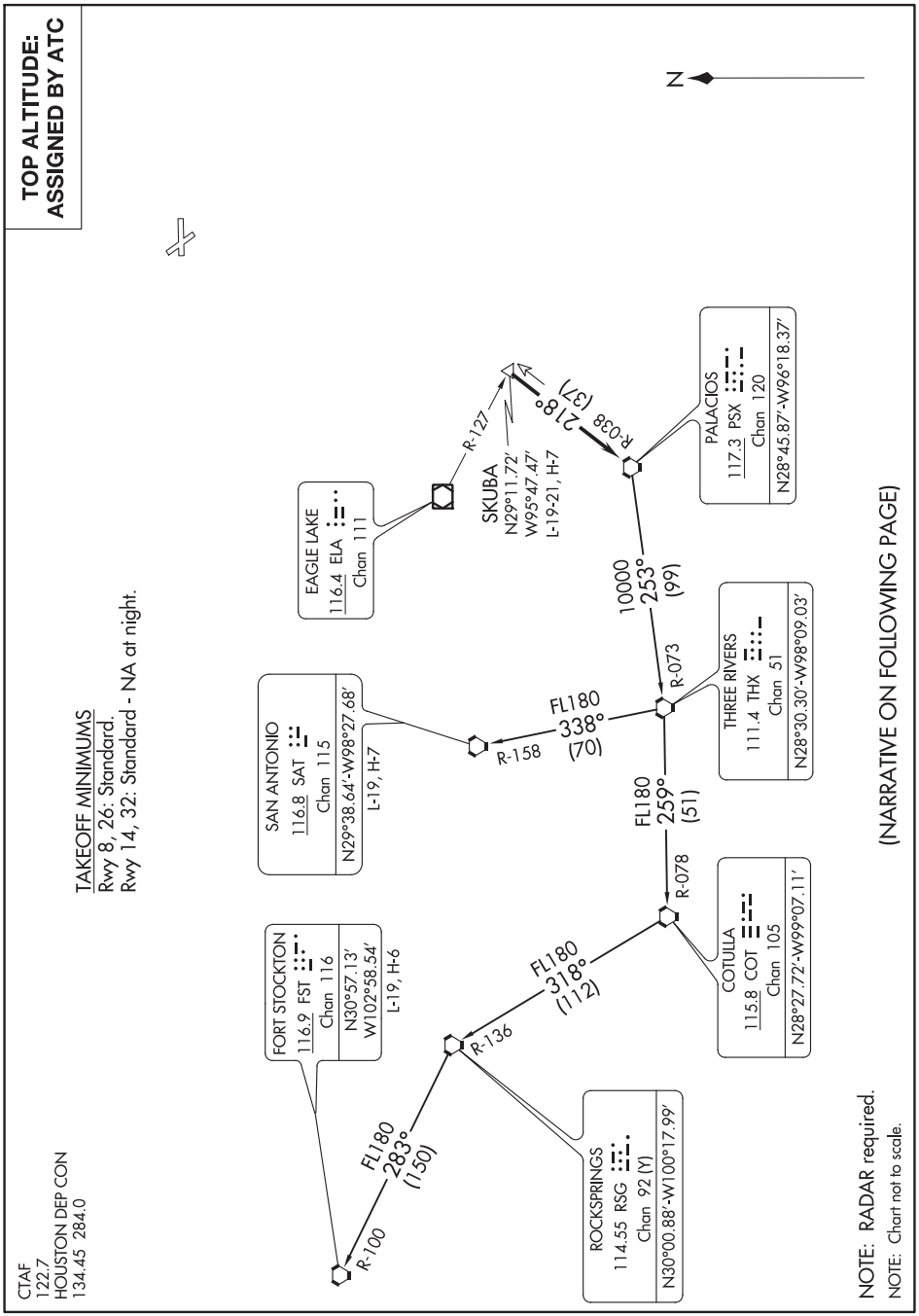
TAKEOFF RWY 8: Climb on heading 084° to 540 for RADAR vectors to MMALT, thence. . . .
TAKEOFF RWY 26: Climb on heading 264° to 540 for RADAR vectors to MMALT, thence. . . .

. . . .on track 086° to MOOKI, then on (transition). Maintain ATC assigned altitude.
Expect filed altitude 10 minutes after departure.

GUSTI TRANSITION (MMALT5.GUSTI)
LAKE CHARLES TRANSITION (MMALT5.LCH)
WHITE LAKE TRANSITION (MMALT5.LLA)

PALACIOS ONE DEPARTURE

RWJ AIRPARK (54T)
BAYTOWN, TEXAS



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PALACIOS ONE DEPARTURE

DEPARTURE ROUTE DESCRIPTION

TAKEOFF ALL RUNWAYS: When entering controlled airspace, climb on assigned heading for RADAR vectors to SKUBA INT. Maintain ATC assigned altitude.
Expect filed altitude 10 minutes after departure, thence. . . .

. . . .on PSX R-038 to PSX VORTAC.

FORT STOCKTON TRANSITION (PSX1.FST): From over PSX VORTAC on PSX R-253 and THX R-073 to THX VORTAC, then on THX R-259 and COT R-078 to COT VORTAC, then on COT R-318 and RSG R-136 to RSG VORTAC, then on RSG R-283 and FST R-100 to FST VORTAC.

SAN ANTONIO TRANSITION (PSX1.SAT): From over PSX VORTAC on PSX R-253 and THX R-073 to THX VORTAC, then on SAT R-158 to SAT VORTAC.

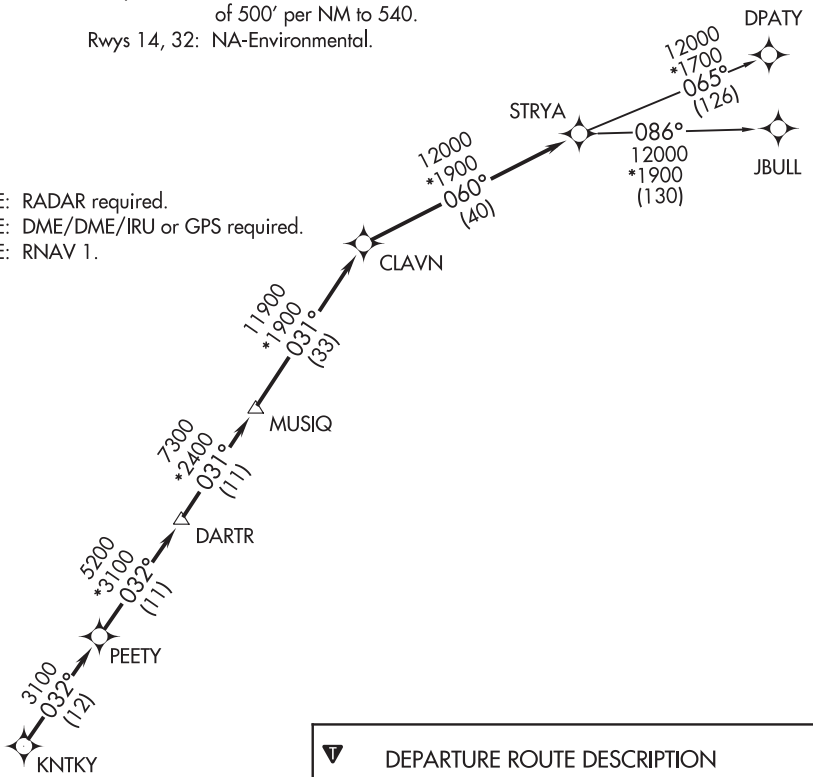
STRYA SEVEN DEPARTURE (RNAV)

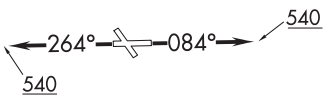
CTAF
122.7
HOUSTON DEP CON
134.45 284.0

TOP ALTITUDE: ASSIGNED BY ATC

TAKEOFF MINIMUMS
Rwys 8, 26: Standard with minimum climb of 500′ per NM to 540.
Rwys 14, 32: NA-Environmental.

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





NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 8: Climb heading 084° to 540 for RADAR vectors to KNTKY, thence . . . .
TAKEOFF RWY 26: Climb heading 264° to 540 for RADAR vectors to KNTKY, thence . . . .

. . . . on track 032° to PEETY, then on track 032° to DARTR, then on track 031° to MUSIQ, then on track 031° to CLAVN, then on track 060° to STRYA, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

DPATY TRANSITION (STRYA7.DPATY)
JBULL TRANSITION (STRYA7.JBULL)

(STYCK7.STYCK) 19115 AL-6674 (FAA)

STYCK SEVEN DEPARTURE (RNAV)

RWJ AIRPARK (54T)
BAYTOWN, TEXAS

TOP ALTITUDE: ASSIGNED BY ATC

CTAF
122.7
HOUSTON DEP CON
134.45 284.0

WTSON

DOLEY

12000
*2000
339°
(67)

12000
*2100
346°
(65)

TAKEOFF MINIMUMS
Rwys 8, 26: Standard with minimum climb of 500′ per NM to 540.
Rwys 14, 32: NA - Environmental.

STYCK

12000
*1900
332°
(39)

WLLIS

6400
*2000
331°
(17)

SPICR

3000
*2000
331°
(12)

BBYSE

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

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DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 8: Climb heading 084° to 540 for RADAR vectors to BBYSE, thence. . . .
TAKEOFF RWY 26: Climb heading 264° to 540 for RADAR vectors to BBYSE, thence. . . .

. . . .on track 331° to SPICR, then on track 331° to WLLIS, then on track 332° to STYCK, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

DOLEY TRANSITION (STYCK7.DOLEY)
WTSON TRANSITION (STYCK7.WTSON)

264° 084°
540 540

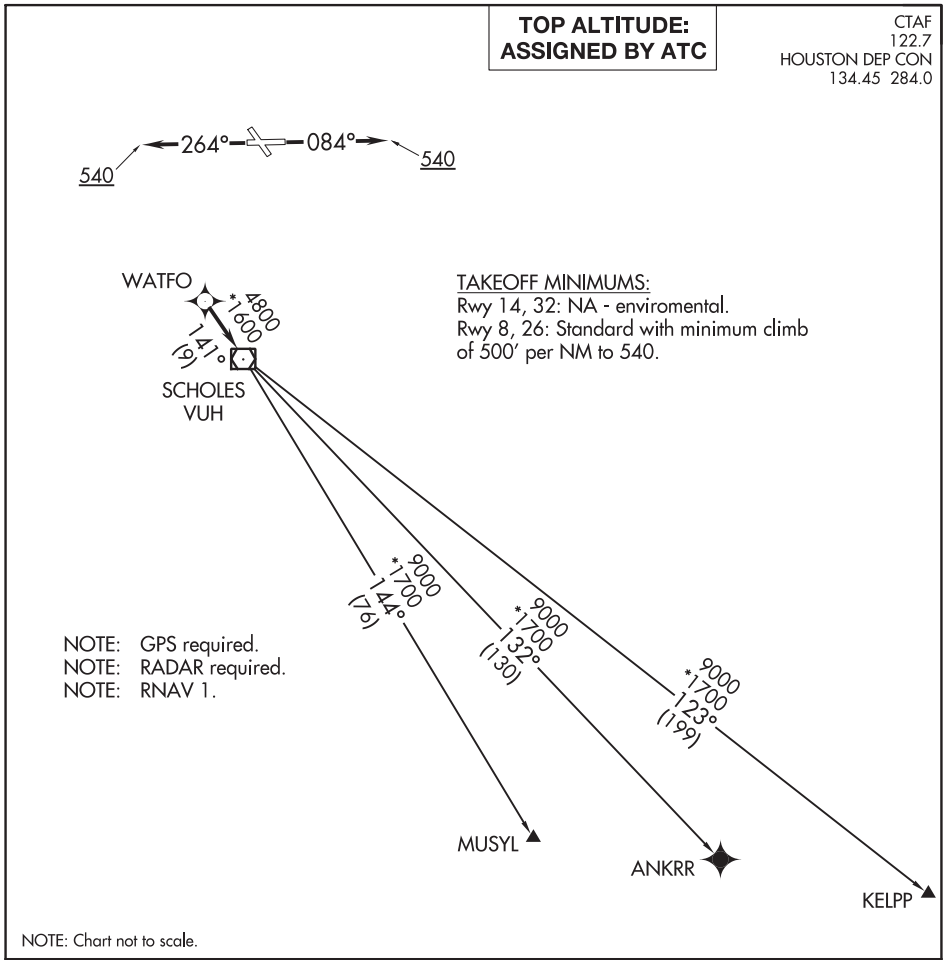
NOTE: Chart not to scale.

WATFO FIVE DEPARTURE (RNAV)

RWJ AIRPARK (54T)
BAYTOWN, TEXAS

TOP ALTITUDE: ASSIGNED BY ATC

CTAF
122.7
HOUSTON DEP CON
134.45 284.0



NOTE: Chart not to scale.

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DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 8: Climb on heading 084° to 540, for RADAR vectors to WATFO, thence. . . .
TAKEOFF RWY 26: Climb on heading 264° to 540, for RADAR vectors to WATFO, thence. . . .

. . . .on track 141° to VUH VOR/DME, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

ANKRR TRANSITION (WATFO5.ANKRR)
KELPP TRANSITION (WATFO5.KELPP)
MUSYL TRANSITION (WATFO5.MUSYL)

(WYLSN7.WYLSN) 19115 AL-6674 (FAA)

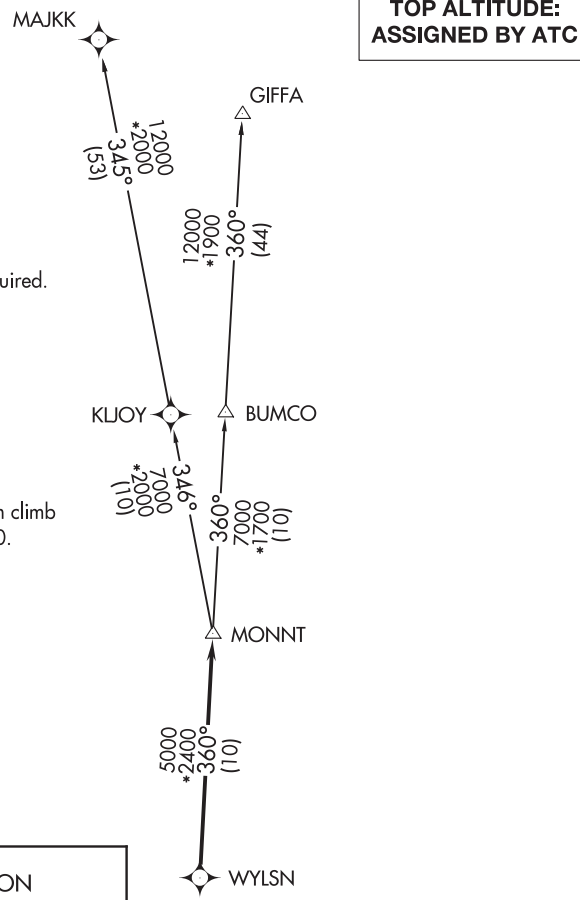
RWJ AIRPARK (54T)

WYLSN SEVEN DEPARTURE (RNAV)

BAYTOWN, TEXAS

CTAF
122.7
HOUSTON DEP CON
134.45 284.0

TOP ALTITUDE: ASSIGNED BY ATC



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

TAKEOFF MINIMUMS
Rwy 8, 26: Standard with minimum climb of 500′ per NM to 540.
Rwy 14, 32: NA - Environmental.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 8: Climb on heading 084° to 540 for RADAR vectors to WYLSN, thence. . . .
TAKEOFF RWY 26: Climb on heading 264° to 540 for RADAR vectors to WYLSN, thence. . . .

. . . .on track 360° to MONNT, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

GIFFA TRANSITION (WYLSN7.GIFFA)
MAJKK TRANSITION (WYLSN7.MAJKK)

NOTE: Chart not to scale.

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RNAV (GPS) RWY 13
BEAUMONT MUNI (BMT)

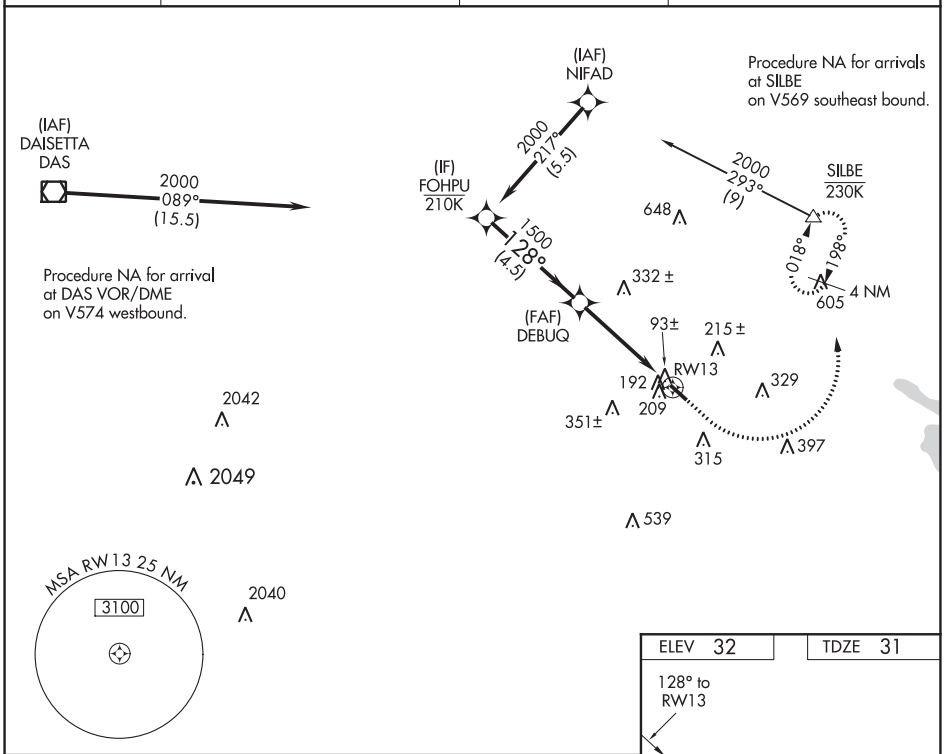
WAAS CH 49141 W13A	APP CRS 128°	Rwy ldg 3668 TDZE 31 Apt Elev 32

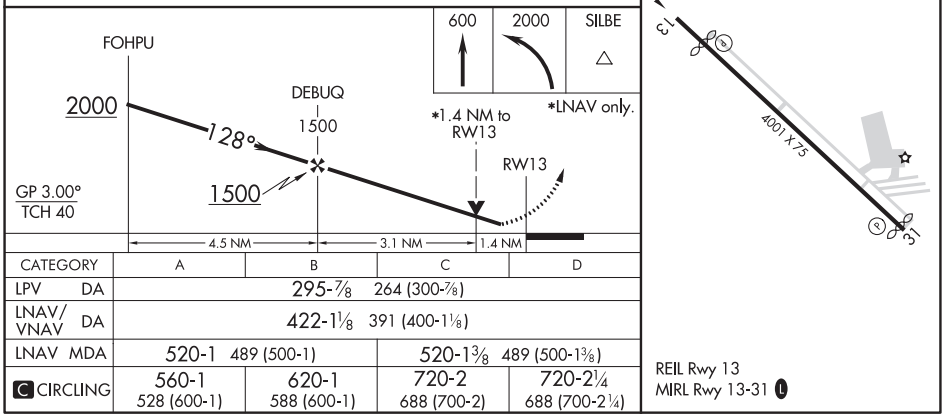
RNP APCH.

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 54°C (130°F). Circling Rwy 31 NA at night. Rwy 13 helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: (Do not exceed 230K until SILBE) Climb to 600 then climbing left turn to 2000 direct SILBE and hold.

AWOS-3PT	HOUSTON APP CON	CLNC DEL	UNICOM
118.425	121.3 377.1	121.75	123.0 (CTAF) L





CATEGORY	A	B	C	D
LPV DA	295-⅞ 264 (300-⅞)			
LNAV/VNAV DA	422-1⅛ 391 (400-1⅛)			
LNAV MDA	520-1 489 (500-1)		520-1⅜ 489 (500-1⅜)	
C CIRCLING	560-1 528 (600-1)	620-1 588 (600-1)	720-2 688 (700-2)	720-2¼ 688 (700-2¼)

REIL Rwy 13
MIRL Rwy 13-31 L

BEAUMONT, TEXAS | AL-42 (FAA) | 18144

RNAV (GPS) RWY 31
BEAUMONT MUNI (BMT)

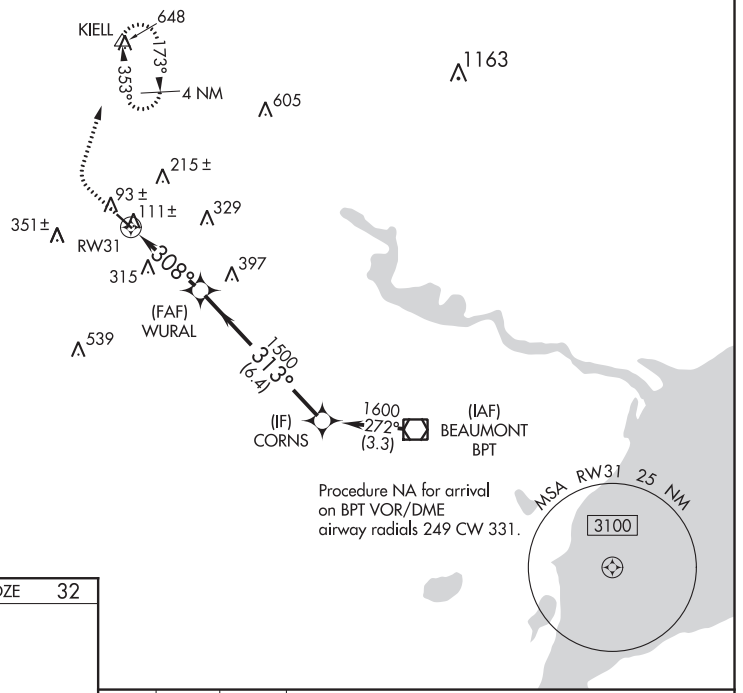
WAAS	APP CRS	Rwy ldg	3934
CH 58241	308°	TDZE	32
W31A		Apt Elev	32

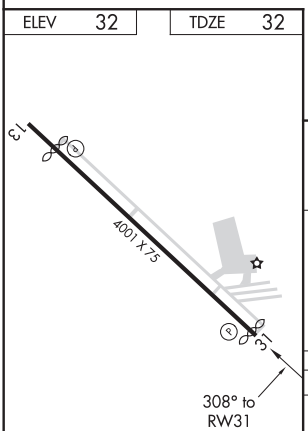
RNP APCH.

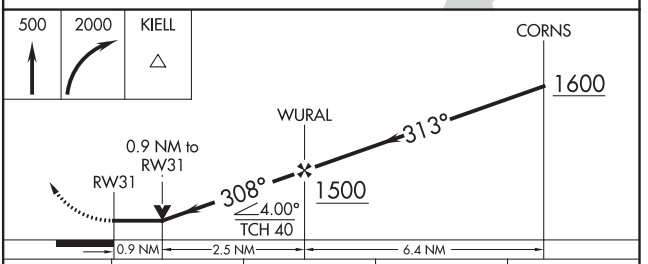
Rwy 31 helicopter visibility reduction below 1 SM NA.
Straight-in Rwy 31 NA at night, Circling Rwy 31 NA at night.

MISSED APPROACH: Climb to 500 then climbing right turn to 2000 direct KIELL and hold.

AWOS-3PT	HOUSTON APP CON	CLNC DEL	UNICOM
118.425	121.3 377.1	121.75	123.0 (CTAF) L







CATEGORY	A	B	C	D
LP MDA	380-1	348 (400-1)	NA	
LNAV MDA	440-1	408 (500-1)	NA	
C CIRCLING	560-1 528 (600-1)	620-1 588 (600-1)	NA	

REIL Rwy 13
MIRL Rwy 13-31 L

BEAUMONT, TEXAS
Amdt 1 24MAY18

30°04'N-94°13'W

BEAUMONT MUNI (BMT)
RNAV (GPS) RWY 31

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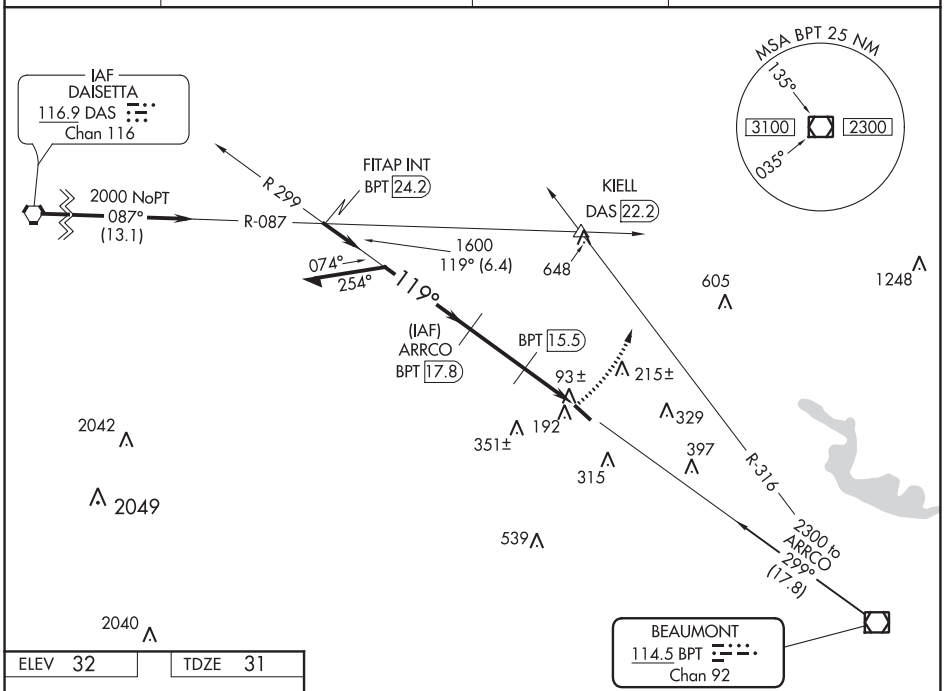
VOR/DME RWY 13
BEAUMONT MUNI (BMT)

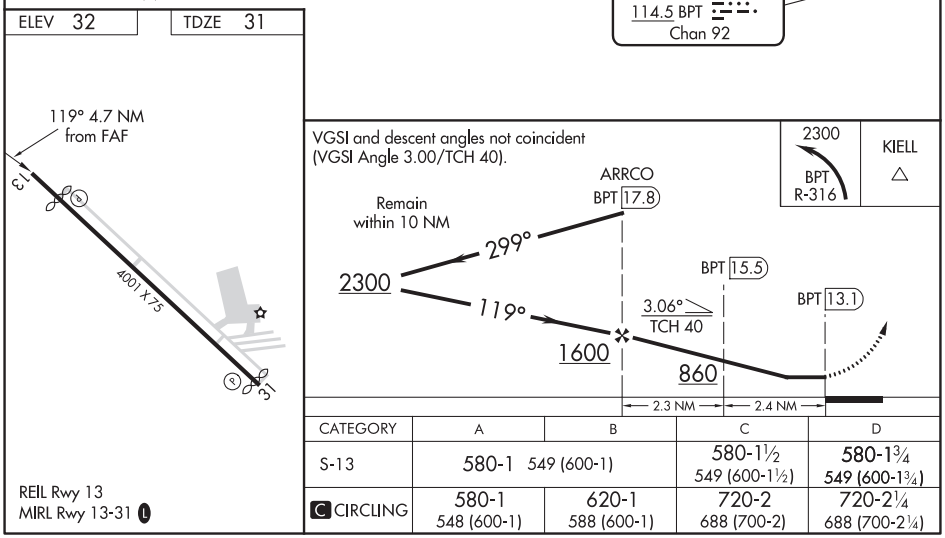
VOR/DME BPT	APP CRS	Rwy ldg	3669
114.5	119°	TDZE	31
Chan 92		Apt Elev	32

Use Beaumont-Port Arthur, TX (Jack Brooks Rgnl) altimeter setting. Circling NA Rwy 16-34. Visibility reduction by helicopters NA.

MISSED APPROACH: Climbing left turn to 2300 via BPT R-316 to KIELL INT/DAS 22.2 DME.

AWOS-3P/T	HOUSTON APP CON	CLNC DEL	UNICOM
118.425	121.3 377.1	121.75	123.0 (CTAF) L





CATEGORY	A	B	C	D
S-13	580-1 549 (600-1)		580-1½ 549 (600-1½)	580-1¾ 549 (600-1¾)
C CIRCLING	580-1 548 (600-1)	620-1 588 (600-1)	720-2 688 (700-2)	720-2¼ 688 (700-2¼)

REIL Rwy 13
MIRL Rwy 13-31 L

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BEAUMONT, TEXAS

AL-42 (FAA)

20142

VOR/DME RWY 31
BEAUMONT MUNI (BMT)

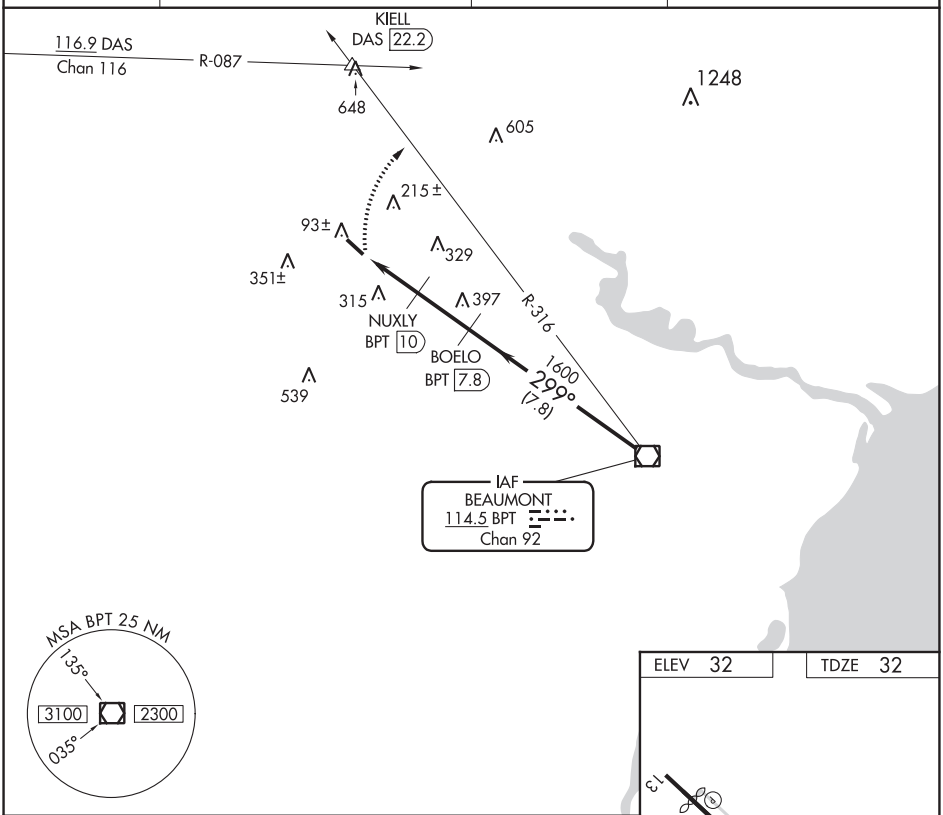
VOR/DME BPT	APP CRS	Rwy ldg	3934
114.5	299°	TDZE	32
Chan 92		Apt Elev	32

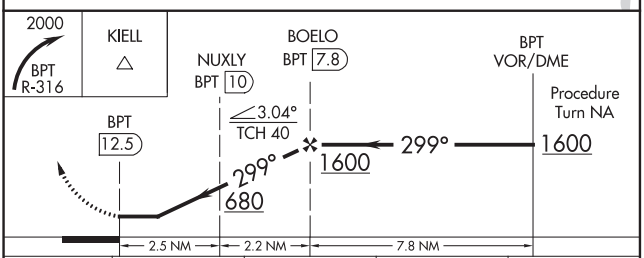
Use Beaumont-Port Arthur, TX (Jack Brooks Rgnl) altimeter setting. Circling NA Rwy 16-34. Visibility reduction by helicopters NA.

NA

MISSED APPROACH: Climbing right turn to 2000 via BPT R-316 to KIELL INT/DAS 22.2 DME.

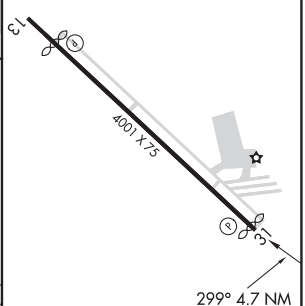
AWOS-3P/T	HOUSTON APP CON	CLNC DEL	UNICOM
118.425	121.3 377.1	121.75	123.0 (CTAF) L





CATEGORY	A	B	C	D
S-31	600-1 568 (600-1)		600-1½ 568 (600-1½)	600-1¾ 568 (600-1¾)
C CIRCLING	600-1 568 (600-1)	620-1 588 (600-1)	720-2 688 (700-2)	720-2¼ 688 (700-2¼)

ELEV 32 | TDZE 32



REIL Rwy 13
MIRL Rwy 13-31 L

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LOC/DME I-BPT	APP CRS	Rwy ldg	6750
110.15	116°	TDZE	15
Chan 38(Y)		Apt Elev	15

ILS or LOC RWY 12
JACK BROOKS RGNL (BPT)

DME or RADAR required.

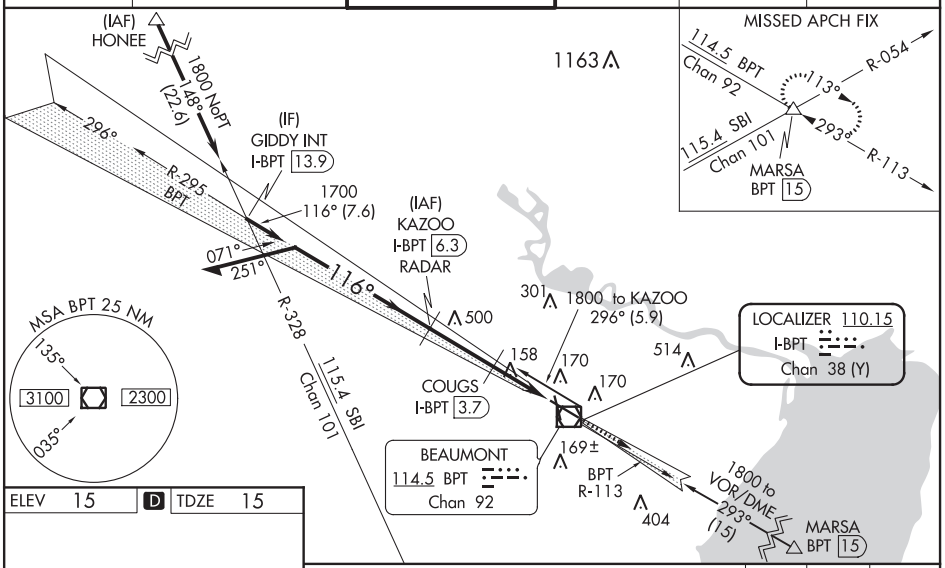
When local altimeter setting not received, use Orange County altimeter setting: increase S-ILS 12 DA to 246 feet; increase all MDAs 40 feet. COUGS Fix Minimums: increase S-LOC Cat C/D/E visibility to RVR 5000 feet. For inop MALSR, increase S-ILS 12 Cat E visibility to RVR 4000, S-LOC 12 Cat E visibility to 2½ miles, COUGS Fix Minimums increase S-LOC 12 Cat C/D/E visibility to 1⅜ mile. For inop MALSR, when using Orange County altimeter setting, increase S-ILS 12 Cat E visibility to RVR 4000, S-LOC 12 Cat C/D/E to 2½ miles. COUGS Fix Minimums: increase S-LOC 12 Cat C/D/E to 1⅜ miles. VDP NA when using Orange County altimeter setting.

**RVR 1800 authorized with use of FD or AP or HUD to DA, NA when using Orange County altimeter setting.

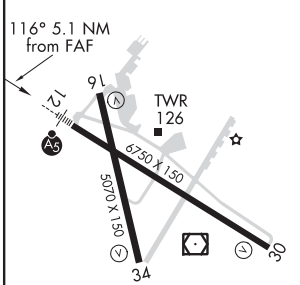
MALSR

MISSED APPROACH: Climb to 3000 on BPT VOR/DME R-113 to MARSA INT/BPT 15 DME and hold.

ATIS	HOUSTON APP CON	BEAUMONT TOWER*	GND CON	CLNC DEL	UNICOM
126.3	121.3 377.1	119.5 (CTAF) L	124.85	118.3	122.95

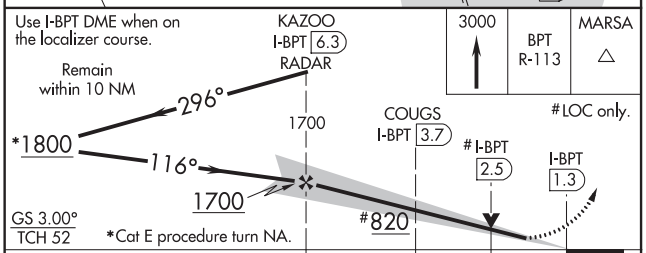


ELEV	15	D	TDZE	15



REIL Rwys 16, 30 and 34 L
HIRL Rwys 12-30, 16-34 L

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-ILS 12**	215/24 200 (200-½)				
S-LOC 12	820/24 805 (900-½)	820/40 805 (900-¾)	820-1⅞ 805 (900-1⅞)		
COUGS FIX MINIMUMS (DME REQUIRED)					
S-LOC 12	460/24 445 (500-½)		460/45 445 (500-⅞)		

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WAAS CH 99715 W12A	APP CRS 116°	Rwy ldg 6750 TDZE 15 Apt Elev 15

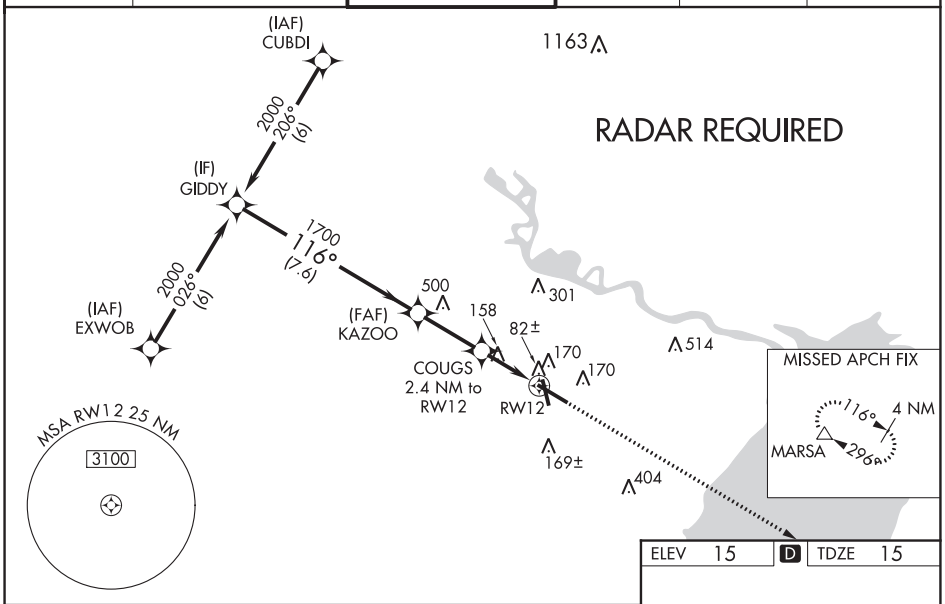
RNAV (GPS) RWY 12
JACK BROOKS RGNL (BPT)

Baro-VNAV NA when using Orange County altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 49°C (120°F). DME/DME RNP-0.3 NA. When local altimeter setting not received, use Orange County altimeter setting and increase all DA 32 feet and all MDA 40 feet, increase LNAV/VNAV Cat E, LNAV Cat E and Circling Cat E visibility ¼ mile. For inoperative MALSR, increase LPV Cat E visibility to RVR 4000, LNAV/VNAV Cat E to RVR 6000 and LNAV Cat E to 1½ miles. For inoperative MALSR when using Orange County altimeter setting, increase LPV Cat E visibility to RVR 4000, LNAV/VNAV Cat E to 1½ miles, and LNAV Cat E to 1¾ miles. VDP NA when using Orange County altimeter setting. **RVR 1800 authorized with use of FD or AP or HUD to DA (NA when using Orange County altimeter setting).

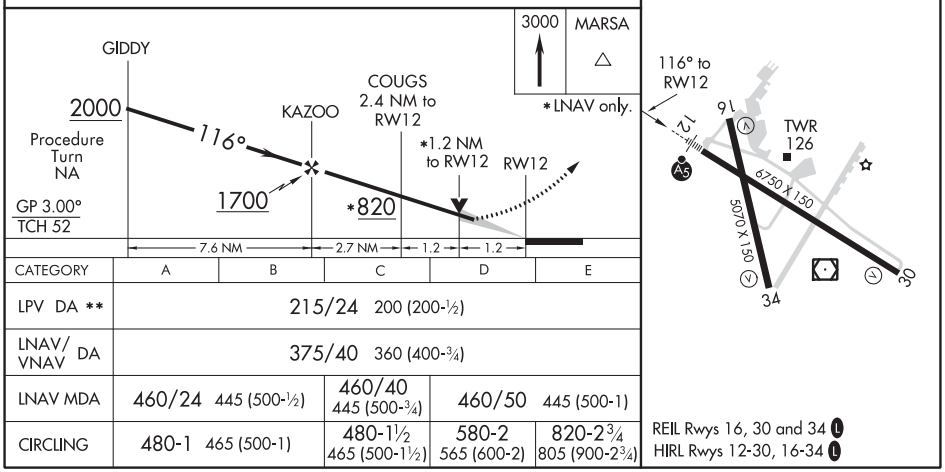
MALSR

MISSED APPROACH: Climb to 3000 direct MARSA and hold.

ATIS	HOUSTON APP CON	BEAUMONT TOWER*	GND CON	CLNC DEL	UNICOM
126.3	121.3 377.1	119.5 (CTAF) L	124.85	118.3	122.95



ELEV 15	D	TDZE 15



CATEGORY	A	B	C	D	E
LPV DA **	215/24 200 (200-½)				
LNAV/VNAV DA	375/40 360 (400-¾)				
LNAV MDA	460/24 445 (500-½)		460/40 445 (500-¾)	460/50 445 (500-1)	
CIRCLING	480-1 465 (500-1)		480-1½ 465 (500-1½)	580-2 565 (600-2)	820-2¾ 805 (900-2¾)

REIL Rwys 16, 30 and 34 L
HIRL Rwys 12-30, 16-34 L

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RNAV (GPS) RWY 16
JACK BROOKS RGNL (BPT)

WAAS CH 82316 W16A	APP CRS 161°	Rwy ldg 5070 TDZE 15 Apt Elev 15

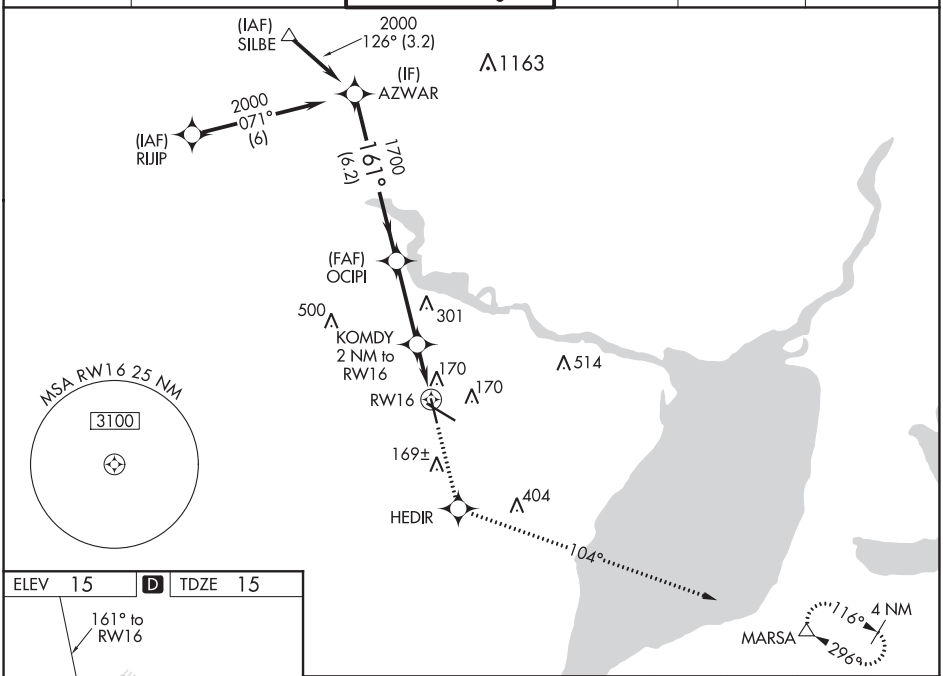
RNP APCH.

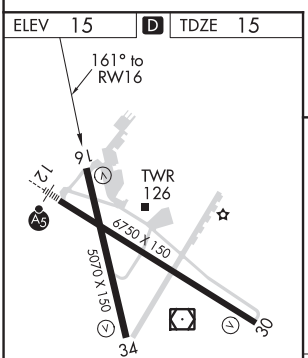
RADAR required.

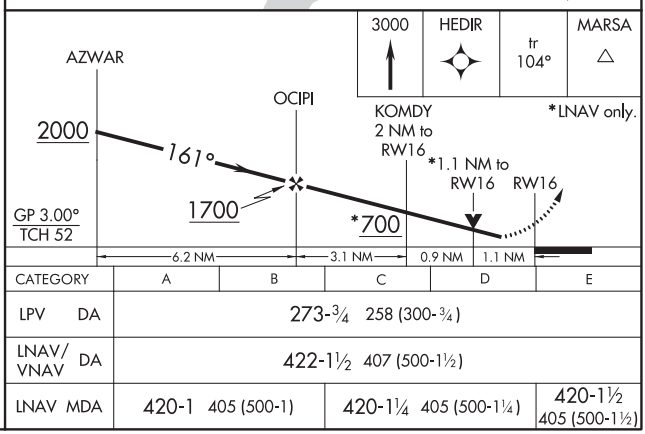
Baro-VNAV NA when using Orange County altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below-15°C (5°F) or above 49°C (120°F). Rwy 16 helicopter visibility reduction below ¾ SM NA. When local altimeter setting not received, use Orange County altimeter setting: increase LPV DA to 305; increase LNAV/VNAV DA to 454 feet; increase all MDAs 40 feet, increase LPV all Cats visibility ¼ SM and LNAV Cat D visibility ¼ SM. VDP NA when using Orange County altimeter setting.

MISSED APPROACH: Climb to 3000 direct HEDIR and via track 104° to MARSA and hold.

ATIS	HOUSTON APP CON	BEAUMONT TOWER*	GND CON	CLNC DEL	UNICOM
126.3	121.3 377.1	119.5 (CTAF) L	124.85	118.3	122.95







CATEGORY	A	B	C	D	E
LPV DA	273-¾ 258 (300-¾)				
LNAV/VNAV DA	422-1½ 407 (500-1½)				
LNAV MDA	420-1 405 (500-1)		420-1¼ 405 (500-1¼)		420-1½ 405 (500-1½)

REIL Rwys 16, 30 and 34 L
HIRL Rwys 12-30, 16-34 L

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SC-5, 25 FEB 2021 to 22 APR 2021

BEAUMONT/PORT ARTHUR, TEXAS AL-521 (FAA) 20086

WAAS CH 69216 W30A	APP CRS 296°	Rwy ldg 6750 TDZE 12 Apt Elev 15

RNAV (GPS) RWY 30
JACK BROOKS RGNL (BPT)

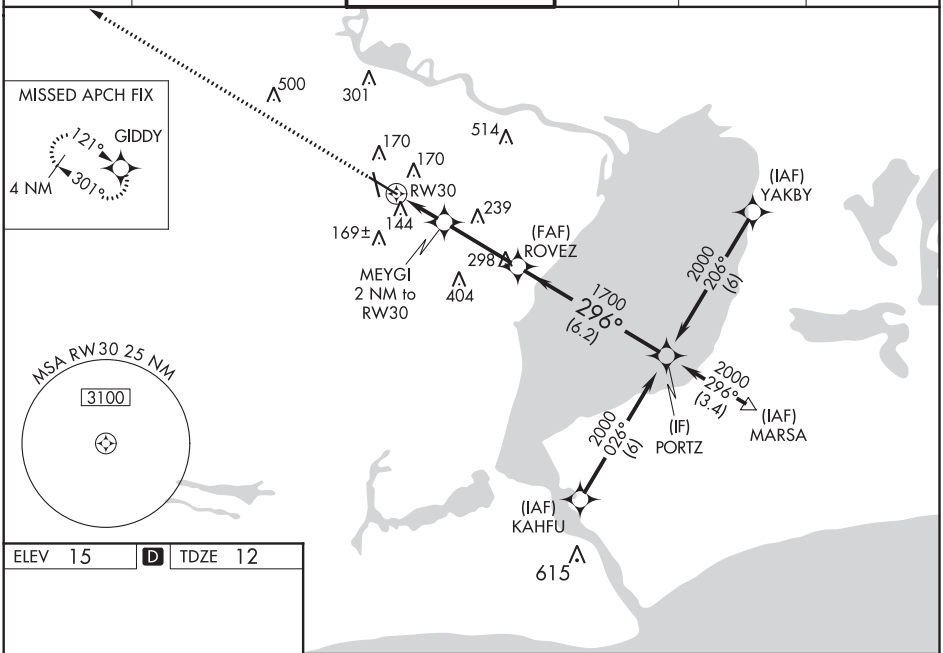
RNP APCH.

RADAR required.

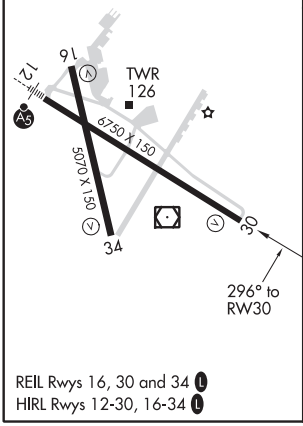
T A Baro-VNAV NA when using Orange County altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 49°C (120°F). Rwy 30 helicopter visibility reduction below ¾ SM NA. When local altimeter setting not received, use Orange County altimeter setting: increase LPV DA to 295 feet; increase LNAV/VNAV DA to 436 feet; increase all MDAs 40 feet, increase LPV and LNAV/VNAV all Cats visibility ¼ SM and LNAV Cat E visibility ¼ SM.

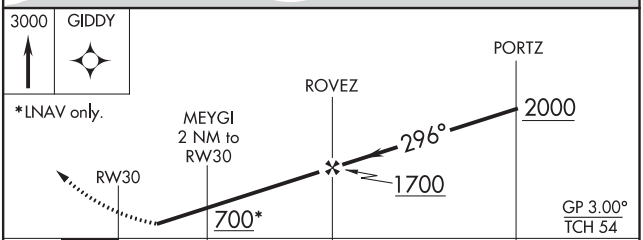
MISSED APPROACH: Climb to 3000 direct GIDDY and hold.

ATIS	HOUSTON APP CON	BEAUMONT TOWER*	GND CON	CLNC DEL	UNICOM
126.3	121.3 377.1	119.5 (CTAF) L	124.85	118.3	122.95



ELEV 15 D TDZE 12





CATEGORY	A	B	C	D	E
LPV DA	263-¾ 251 (300-¾)				
LNAV/VNAV DA	404-1¼ 392 (400-1¼)				404-1½ 392 (400-1½)
LNAV MDA	540-1 528 (600-1)		540-1½ 528 (600-1½)	540-1¾ 528 (600-1¾)	

REIL Rwys 16, 30 and 34 L
HIRL Rwys 12-30, 16-34 L

SC-5, 25 FEB 2021 to 22 APR 2021

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WAAS CH 72616 W34A	APP CRS 341°	Rwy ldg 5070 TDZE 15 Apt Elev 15

RNAV (GPS) RWY 34
JACK BROOKS RGNL (BPT)

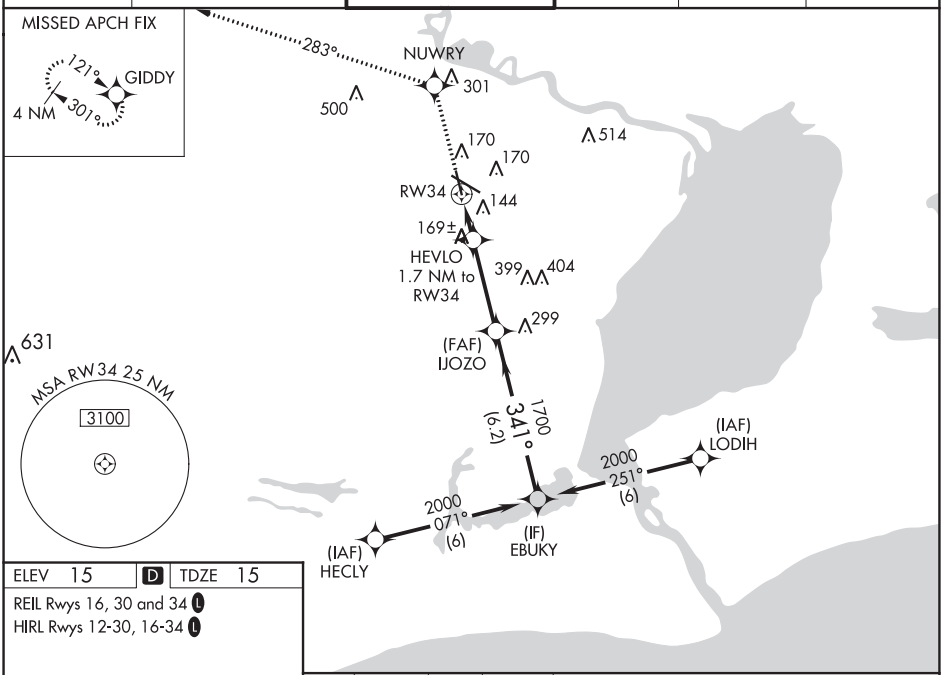
RNP APCH.

RADAR required.

T A Baro-VNAV NA when using Orange County altimeter setting. 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 Orange County altimeter setting: increase LPV DA to 247 feet; increase LNAV/VNAV DA to 469 feet; increase LNAV Cat C visibility ¼ SM.

MISSED APPROACH: Climb to 3000 direct NUWRY and via track 283° to GIDDY and hold.

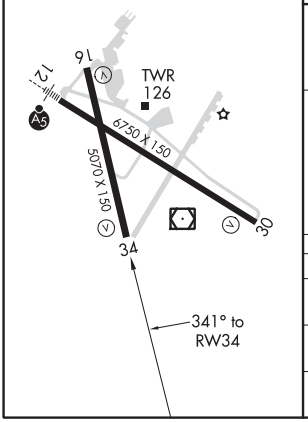
ATIS	HOUSTON APP CON	BEAUMONT TOWER*	GND CON	CLNC DEL	UNICOM
126.3	121.3 377.1	119.5 (CTAF) L	124.85	118.3	122.95

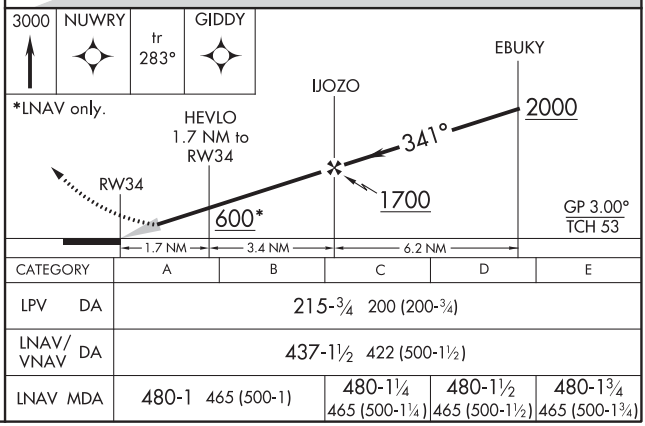


ELEV 15 | D | TDZE 15

REIL Rwys 16, 30 and 34 L

HIRL Rwys 12-30, 16-34 L





CATEGORY	A	B	C	D	E
LPV DA	215-¾ 200 (200-¾)				
LNAV/VNAV DA	437-1½ 422 (500-1½)				
LNAV MDA	480-1 465 (500-1)		480-1¼ 465 (500-1¼)	480-1½ 465 (500-1½)	480-1¾ 465 (500-1¾)

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BEAUMONT/PORT ARTHUR, TEXAS AL-521 (FAA) 20086

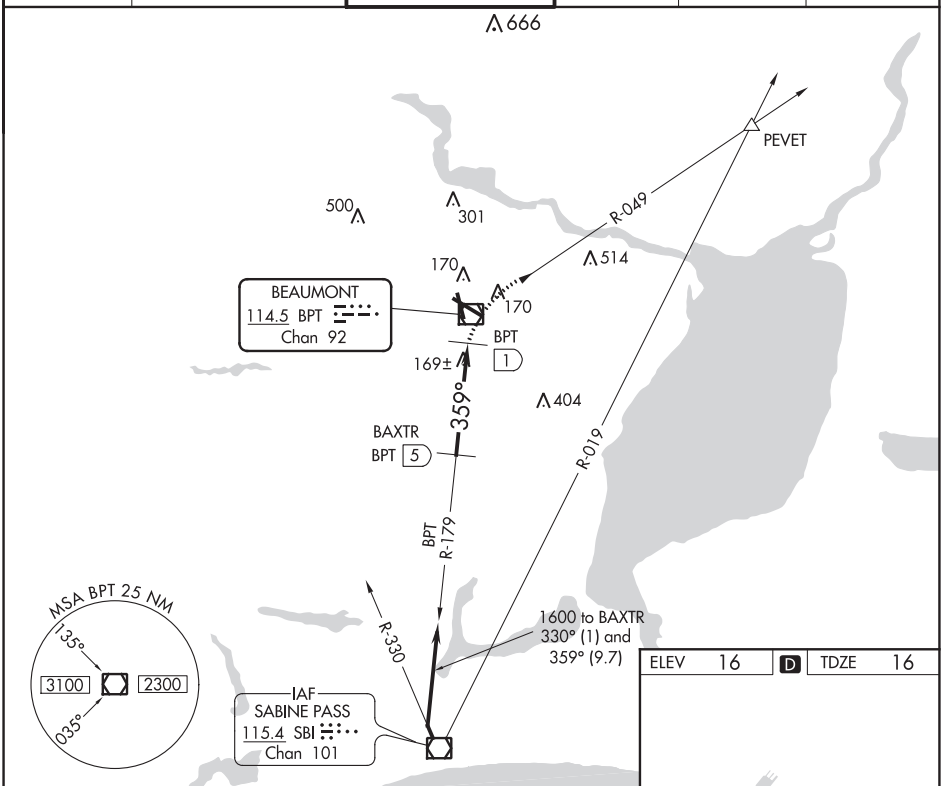
VOR/DME RWY 34
JACK BROOKS RGNL (BPT)

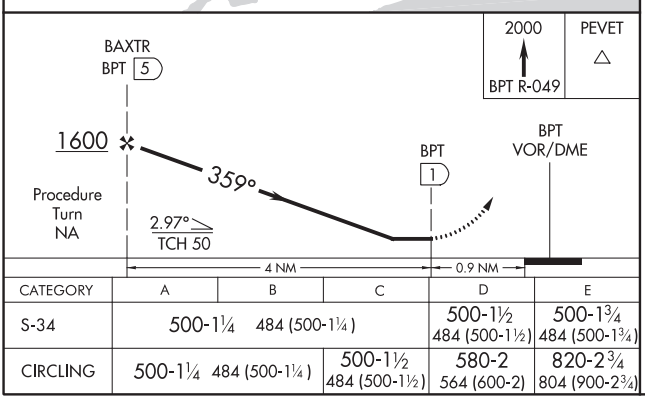
VOR/DME BPT 114.5 Chan 92	APP CRS 359°	Rwy ldg 5070 TDZE 16 Apt Elev 16

When local altimeter setting not received, use Orange County altimeter setting and increase all MDA 40 feet, increase S-34 visibility Cat C and D ¼ mile and Circling Cat E visibility ¼ mile.

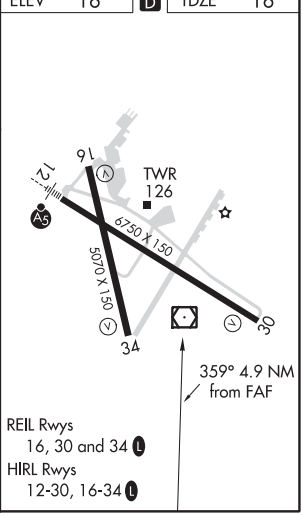
MISSED APPROACH: Climb to 2000 via BPT VOR/DME R-049 to PEVET INT.

ATIS	HOUSTON APP CON	BEAUMONT TOWER★	GND CON	CLNC DEL	UNICOM
126.3	121.3 377.1	119.5 (CTAF) L	124.85	118.3	122.95





CATEGORY	A	B	C	D	E
S-34	500-1¼ 484 (500-1¼)			500-1½ 484 (500-1½)	500-1¾ 484 (500-1¾)
CIRCLING	500-1¼ 484 (500-1¼)		500-1½ 484 (500-1½)	580-2 564 (600-2)	820-2¾ 804 (900-2¾)



BEAUMONT/PORT ARTHUR, TEXAS
Amdt 7E 16DEC10

29°57′N-94°01′W

JACK BROOKS RGNL (BPT)
VOR/DME RWY 34

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VOR RWY 12
JACK BROOKS RGNL (BPT)

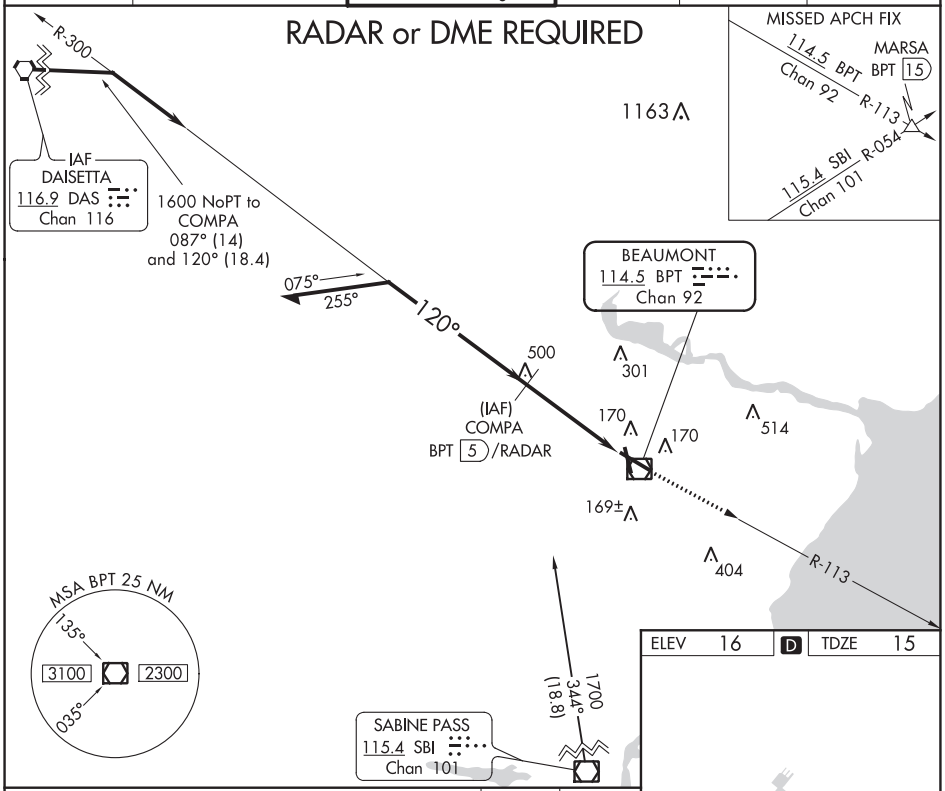
VOR/DME BPT	APP CRS	Rwy ldg	6750
114.5	120°	TDZE	15
Chan 92		Apt Elev	16

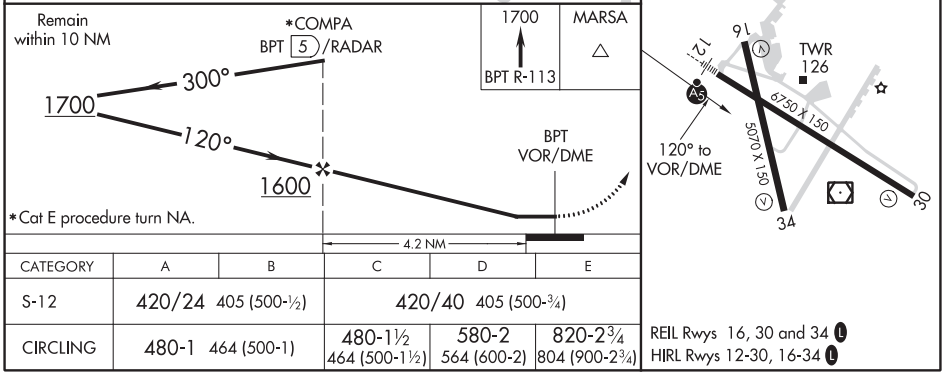
For inoperative MALSR, increase S-12 Cat C/D/E visibility to RVR 6000. When local altimeter setting not received, use Orange County altimeter setting and increase all MDA 40 feet and S-12 Cat C/D/E visibility to RVR 4500 and Circling Cat E ¼ mile. For inop MALSR when using Orange County altimeter setting, increase S-12 Cat E visibility to 1⅜ mile.

MALSR

MISSED APPROACH: Climb to 1700 via BPT R-113 to MARSA Int/BPT 15 DME.

ATIS	HOUSTON APP CON	BEAUMONT TOWER*	GND CON	CLNC DEL	UNICOM
126.3	121.3 377.1	119.5 (CTAF) L	124.85	118.3	122.95





CATEGORY	A	B	C	D	E
S-12	420/24 405 (500-½)		420/40 405 (500-¾)		
CIRCLING	480-1 464 (500-1)		480-1½ 464 (500-1½)	580-2 564 (600-2)	820-2¾ 804 (900-2¾)

REIL Rwys 16, 30 and 34 L
HIRL Rwys 12-30, 16-34 L

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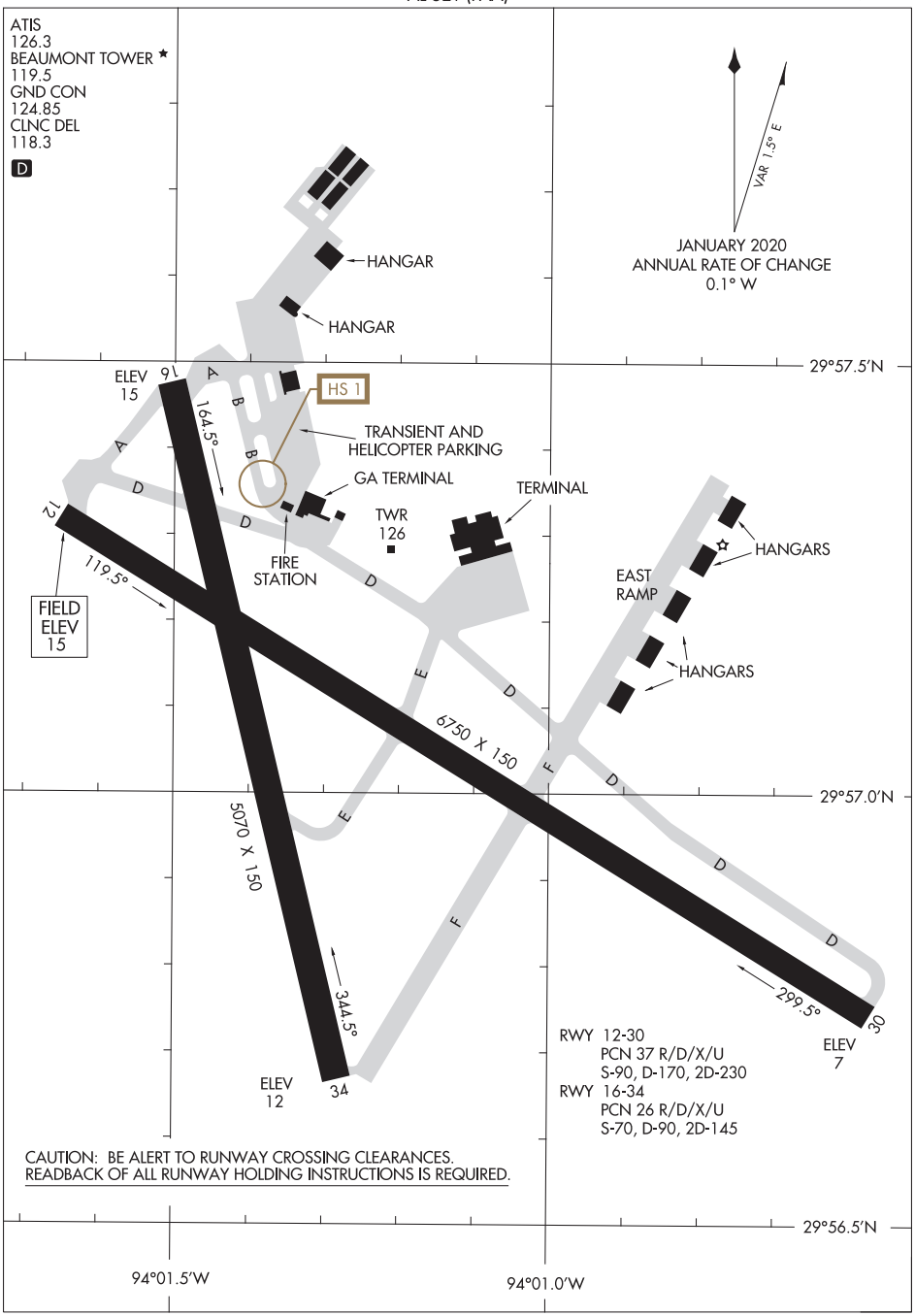
20086

AIRPORT DIAGRAM

AL-521 (FAA)

JACK BROOKS RGNL (BPT)
BEAUMONT/PORT ARTHUR, TEXAS



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AIRPORT DIAGRAM
20086
BEAUMONT/PORT ARTHUR, TEXAS
JACK BROOKS RGNL (BPT)

WAAS CH 86316 W16A	APP CRS 165°	Rwy ldg 6003 TDZE 318 Apt Elev 318

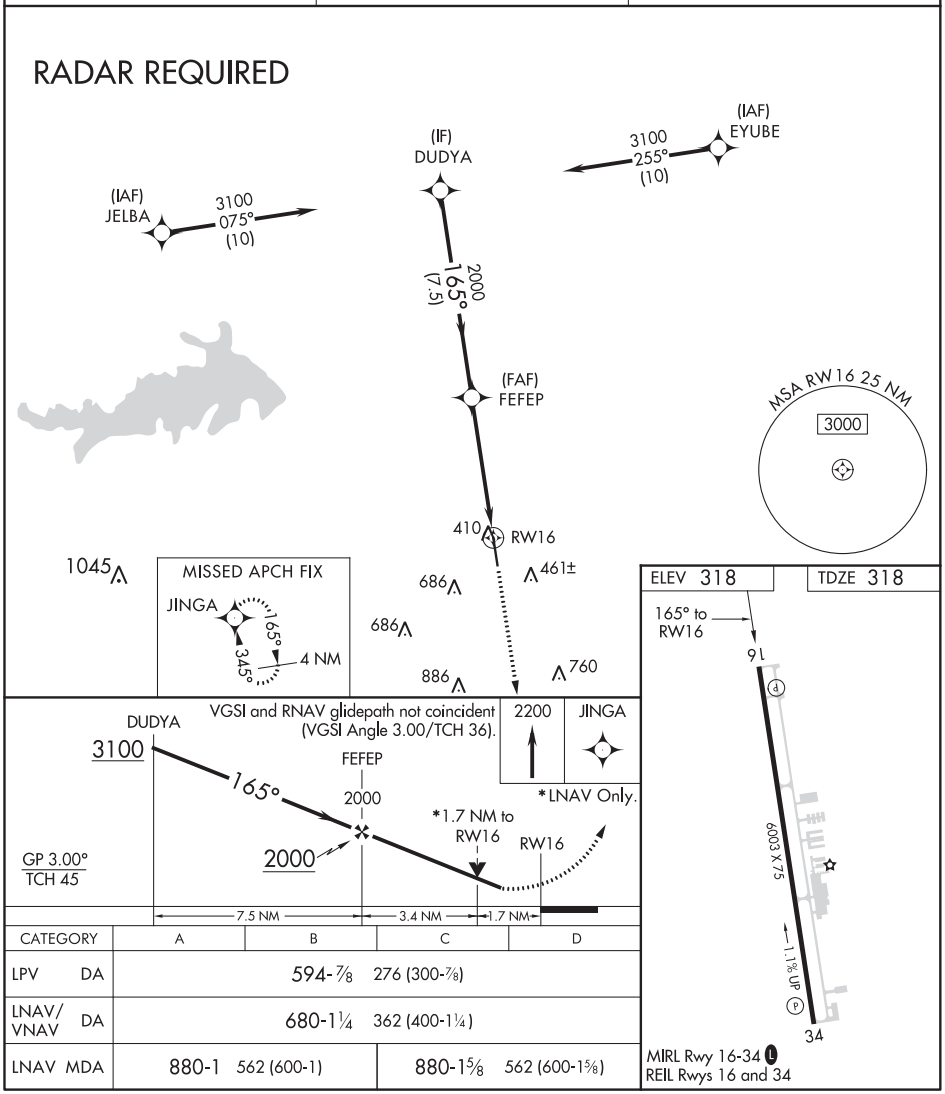
RNAV (GPS) RWY 16
BRENHAM MUNI (11R)

RNP APCH.

Rwy 16 helicopter visibility reduction below ¾ SM NA. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C or above 37°C. When local altimeter setting not received, use College Station altimeter setting and increase all DA 52 feet, and all MDA 60 feet, increase LPV and LNAV/VNAV all Cats and LNAV Cats C/D visibility ¼ SM. VDP and Baro-VNAV NA with College Station altimeter setting.

MISSED APPROACH: Climb to 2200 direct JINGA and hold.

AWOS-3	HOUSTON APP CON	UNICOM
121.125	134.3 360.85	123.075 (CTAF) L



CATEGORY	A	B	C	D
LPV DA	594-⅞ 276 (300-⅞)			
LNAV/VNAV DA	680-1¼ 362 (400-1¼)			
LNAV MDA	880-1 562 (600-1)		880-1⅝ 562 (600-1⅝)	

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BRENHAM, TEXAS | AL-6271 (FAA) | 19311

RNAV (GPS) RWY 34
BRENHAM MUNI (11R)

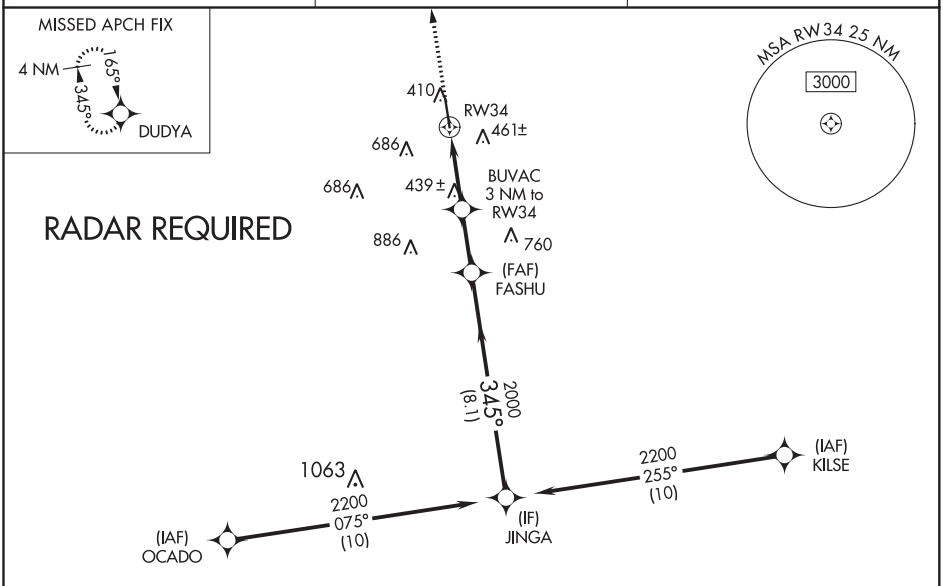
WAAS CH 77616 W34A	APP CRS 345°	Rwy ldg 6003 TDZE 269 Apt Elev 318

RNP APCH.

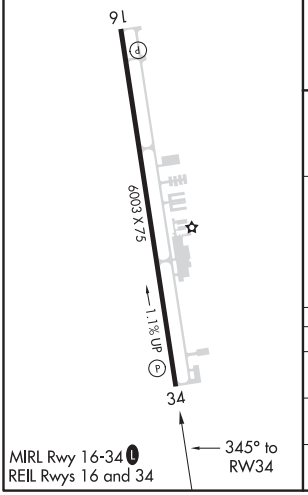
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C or above 37°C. Rwy 34 helicopter visibility reduction below ¾ SM NA. When local altimeter setting not received, use College Station altimeter setting and increase all DA 52 feet, and all MDA 60 feet; increase LPV and LNAV/VNAV all Cats visibility ¼ SM. VDP and Baro-VNAV NA with College Station altimeter setting.

MISSED APPROACH: Climb to 3100 direct DUDYA and hold.

AWOS-3	HOUSTON APP CON	UNICOM
121.125	134.3 360.85	123.075 (CTAF) L



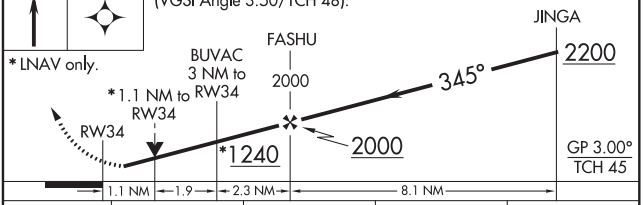
ELEV 318 | TDZE 269



MIRL Rwy 16-34 L
REIL Rwys 16 and 34

3100 | DUDYA

VGSI and RNAV glidepath not coincident (VGSI Angle 3.50/TCH 48).



CATEGORY		A	B	C	D
LPV	DA	519-¾ 250 (200-¾)			
LNAV/VNAV	DA	718-1½ 449 (400-1½)			
LNAV	MDA	700-1 431 (400-1)		700-1⅜ 431 (400-1⅜)	

BRENHAM, TEXAS
Amdt 2B 07NOV19

30°13′N-96°22′W

BRENHAM MUNI (11R)
RNAV (GPS) RWY 34

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WAAS CH 69403 W15A	APP CRS 148°	Rwy ldg 4000 TDZE 361 Apt Elev 367

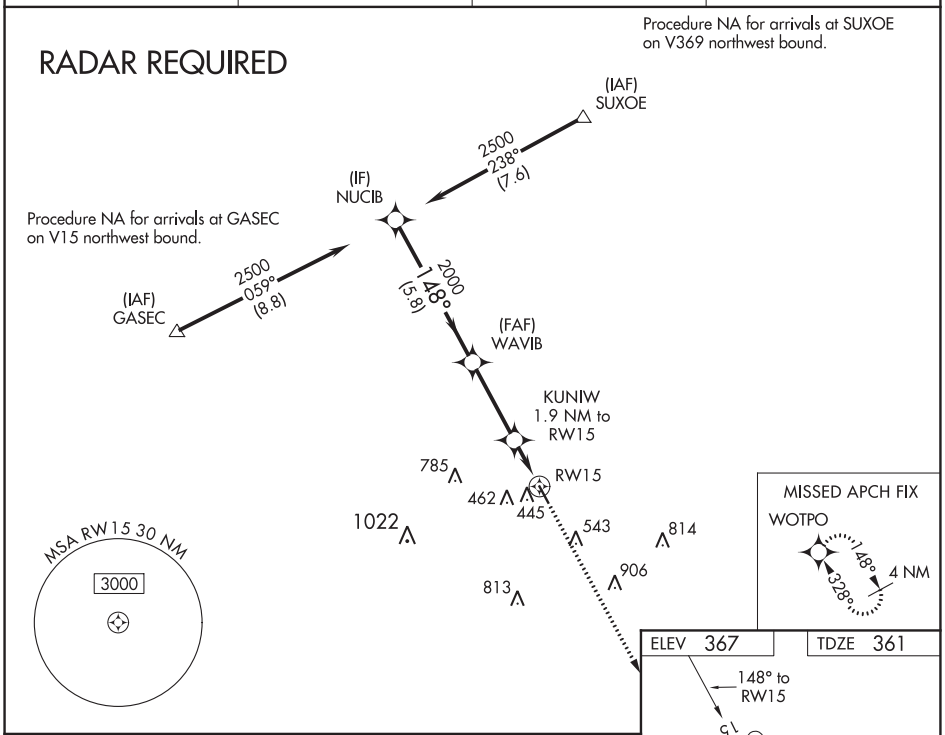
RNAV (GPS) RWY 15
COULTER FIELD (CFD)

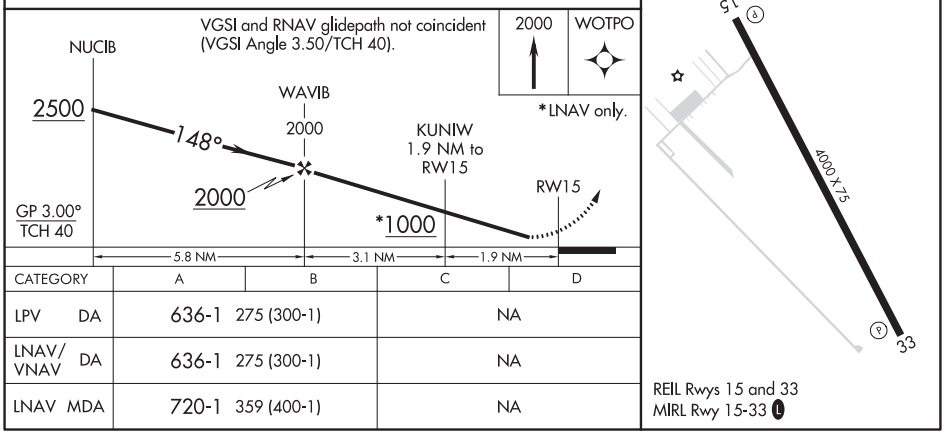
RNP APCH.

NA — Baro-VNAV NA. Rwy 15 helicopter visibility reduction below ¾ SM NA. Use College Station altimeter setting; when not received, use Caldwell altimeter setting and increase all DA 31 feet and all MDA 40 feet.

MISSED APPROACH: Climb to 2000 direct WOTPO and hold.

AWOS-3PT	CLL ASOS	HOUSTON APP CON	UNICOM
125.975	126.85	134.3 360.85	123.0 (CTAF) L





CATEGORY	A	B	C	D
LPV DA	636-1 275 (300-1)		NA	
LNAV/VNAV DA	636-1 275 (300-1)		NA	
LNAV MDA	720-1 359 (400-1)		NA	

BRYAN, TEXAS | AL-6276 (FAA) | 19311

RNAV (GPS) RWY 33
COULTER FIELD (CFD)

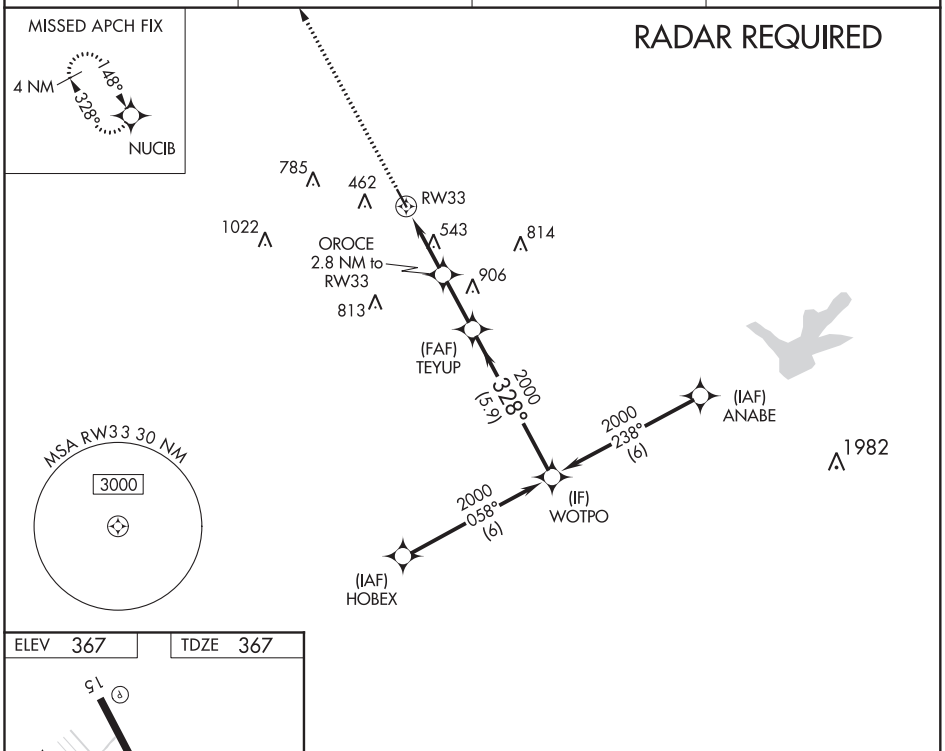
WAAS CH 70603 W33A	APP CRS 328°	Rwy ldg 4000 TDZE 367 Apt Elev 367

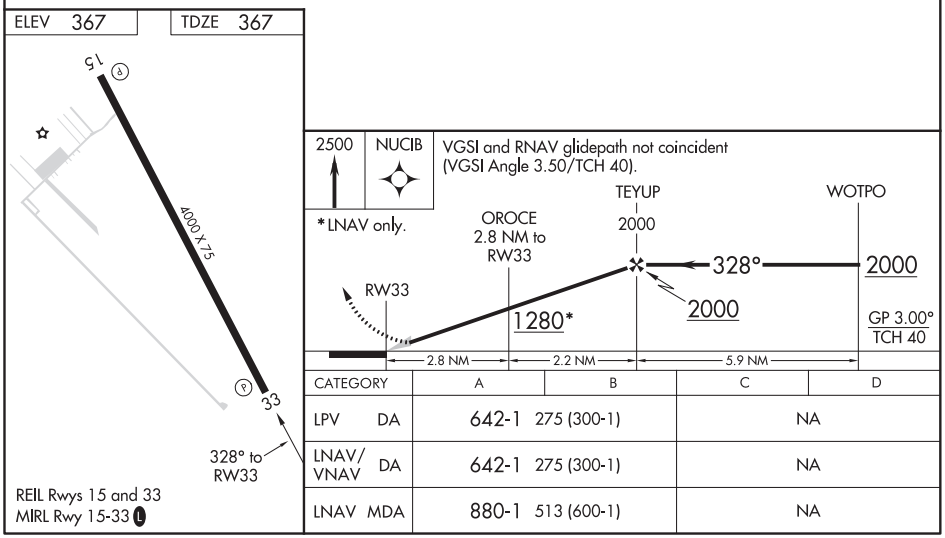
RNP APCH.

NA — Baro-VNAV NA. Use College Station altimeter setting; when not received, use Caldwell altimeter setting and increase all DA 31 feet and all MDA 40 feet.

MISSED APPROACH: Climb to 2500 direct NUCIB and hold.

AWOS-3PT	CLL ASOS	HOUSTON APP CON	UNICOM
125.975	126.85	134.3 360.85	123.0 (CTAF) L





CATEGORY	A	B	C	D
LPV DA	642-1	275 (300-1)	NA	
LNAV/VNAV DA	642-1	275 (300-1)	NA	
LNAV MDA	880-1	513 (600-1)	NA	

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VOR/DME-A
COULTER FIELD (CFD)

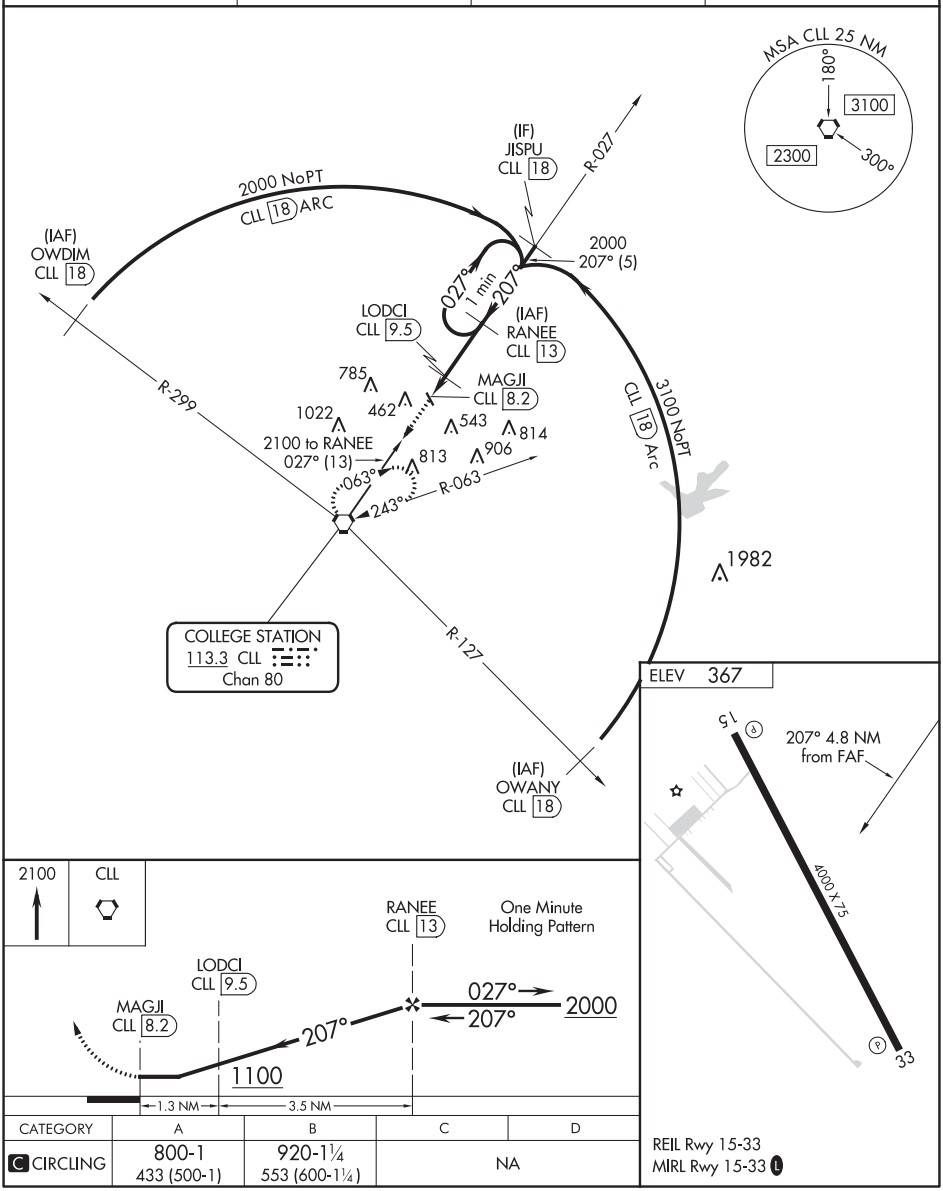
VORTAC CLL 113.3 Chan 80	APP CRS 207°	Rwy ldg N/A TDZE N/A Apt Elev 367

T
A NA

Use College Station altimeter setting; if not received, use Caldwell Muni altimeter setting and increase all MDAs 40 feet.

MISSED APPROACH: Climb to 2100 direct CLL VORTAC and hold.

AWOS-3PT	CLL ASOS	HOUSTON APP CON	UNICOM
125.975	126.85	134.3 360.85	123.0 (CTAF) L



CATEGORY	A	B	C	D
C CIRCLING	800-1 433 (500-1)	920-1¼ 553 (600-1¼)	NA	

REIL Rwy 15-33
MIRL Rwy 15-33 L

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CALDWELL, TEXAS

AL-6743 (FAA)

18032

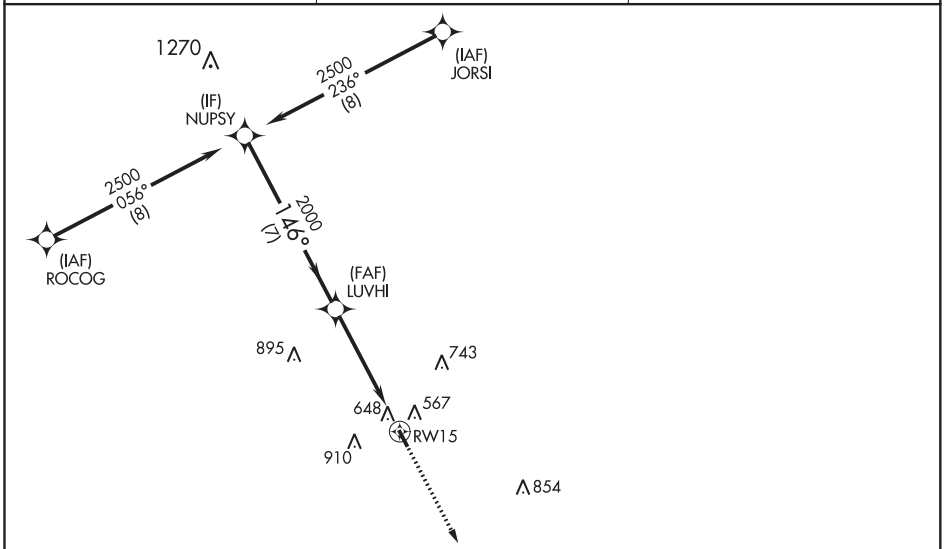
RNAV (GPS) RWY 15
CALDWELL MUNI (RWV)

APP CRS	Rwy ldg	3252
146°	TDZE	391
	Apt Elev	391

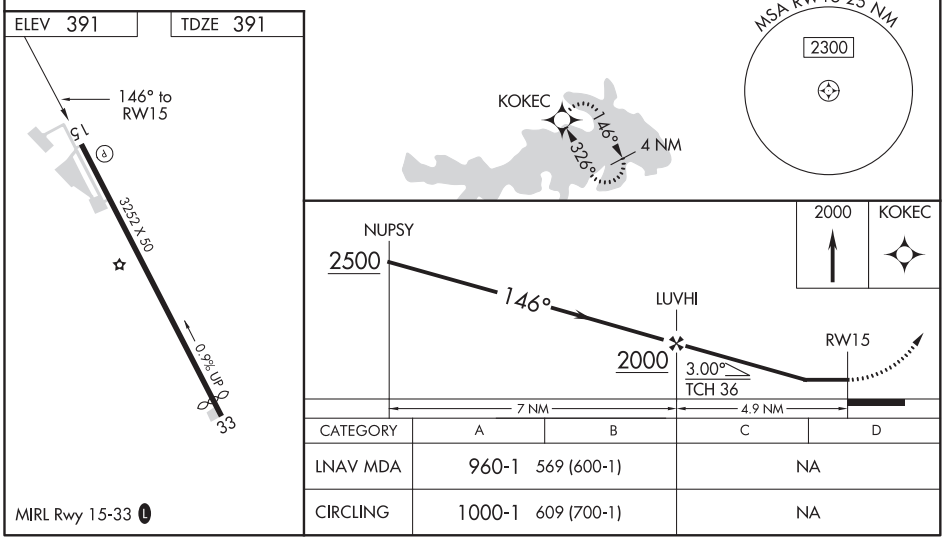
When local altimeter setting not received, use College Station altimeter setting and increase all MDA 60 feet. Circling NA east of Rwy 15-33. DME/DME RNP-0.3 NA. Procedure NA at night. Helicopter visibility reduction below 1 SM NA.

MISSED APPROACH: Climb to 2000 direct KOKEC and hold.

AWOS-3	HOUSTON APP CON	CTAF
118.35	134.3 360.85	122.9 L



RADAR REQUIRED



CATEGORY	A	B	C	D
LNAV MDA	960-1 569 (600-1)		NA	
CIRCLING	1000-1 609 (700-1)		NA	

CALDWELL, TEXAS
Orig-A 29MAY14

30°31′N-96°42′W

CALDWELL MUNI (RWV)
RNAV (GPS) RWY 15

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RNAV (GPS) RWY 33

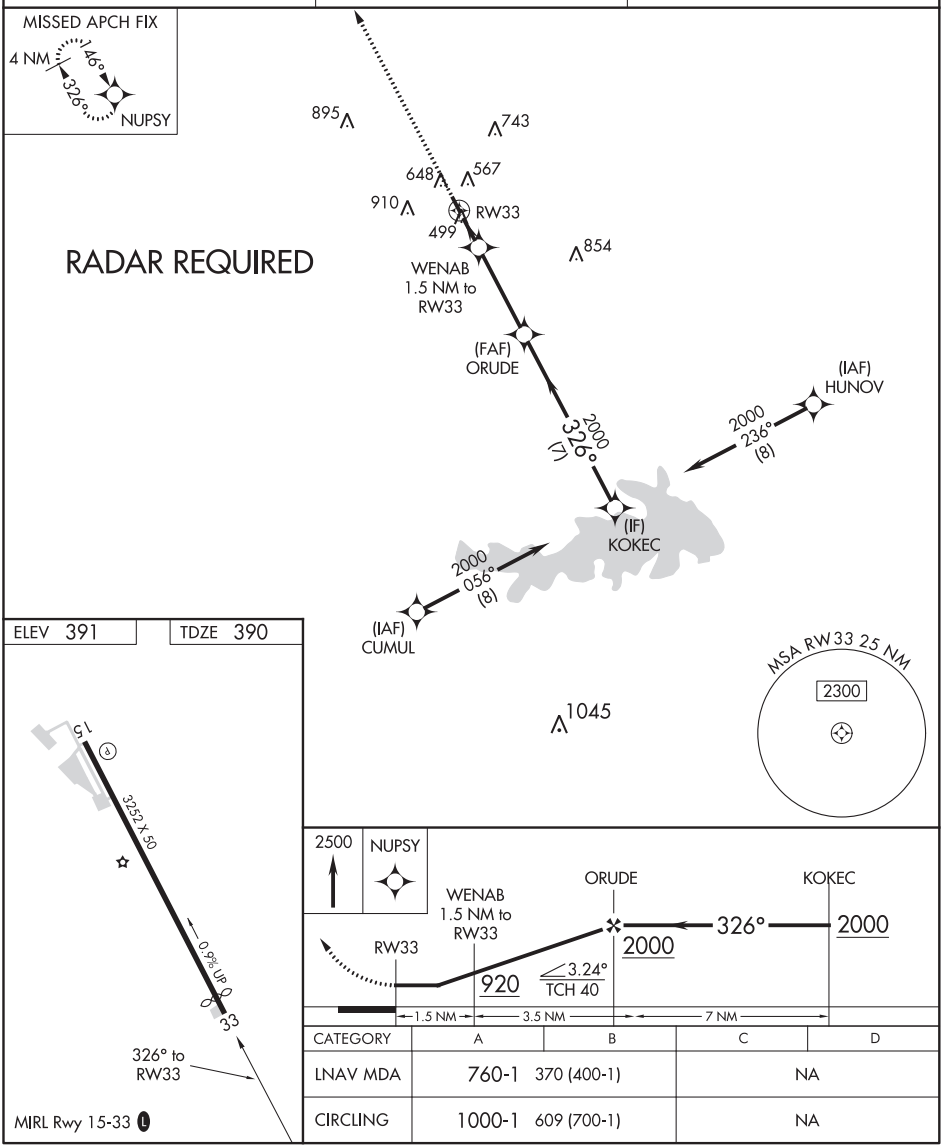
CALDWELL MUNI (RWV)

APP CRS	Rwy ldg	3010
326°	TDZE	390
	Apt Elev	391

When local altimeter setting not received, use College Station altimeter setting and increase all MDA 60 feet. Circling NA east of Rwy 15-33. DME/DME RNP-0.3 NA. Procedure NA at night. Rwy 33 helicopter visibility reduction below 1 SM NA.

MISSED APPROACH: Climb to 2500 direct NUPSY and hold.

AWOS-3	HOUSTON APP CON	CTAF
118.35	134.3 360.85	122.9 L



CATEGORY	A	B	C	D
LNAV MDA	760-1 370 (400-1)		NA	
CIRCLING	1000-1 609 (700-1)		NA	

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CALDWELL, TEXAS | AL-6743 (FAA) | 20254

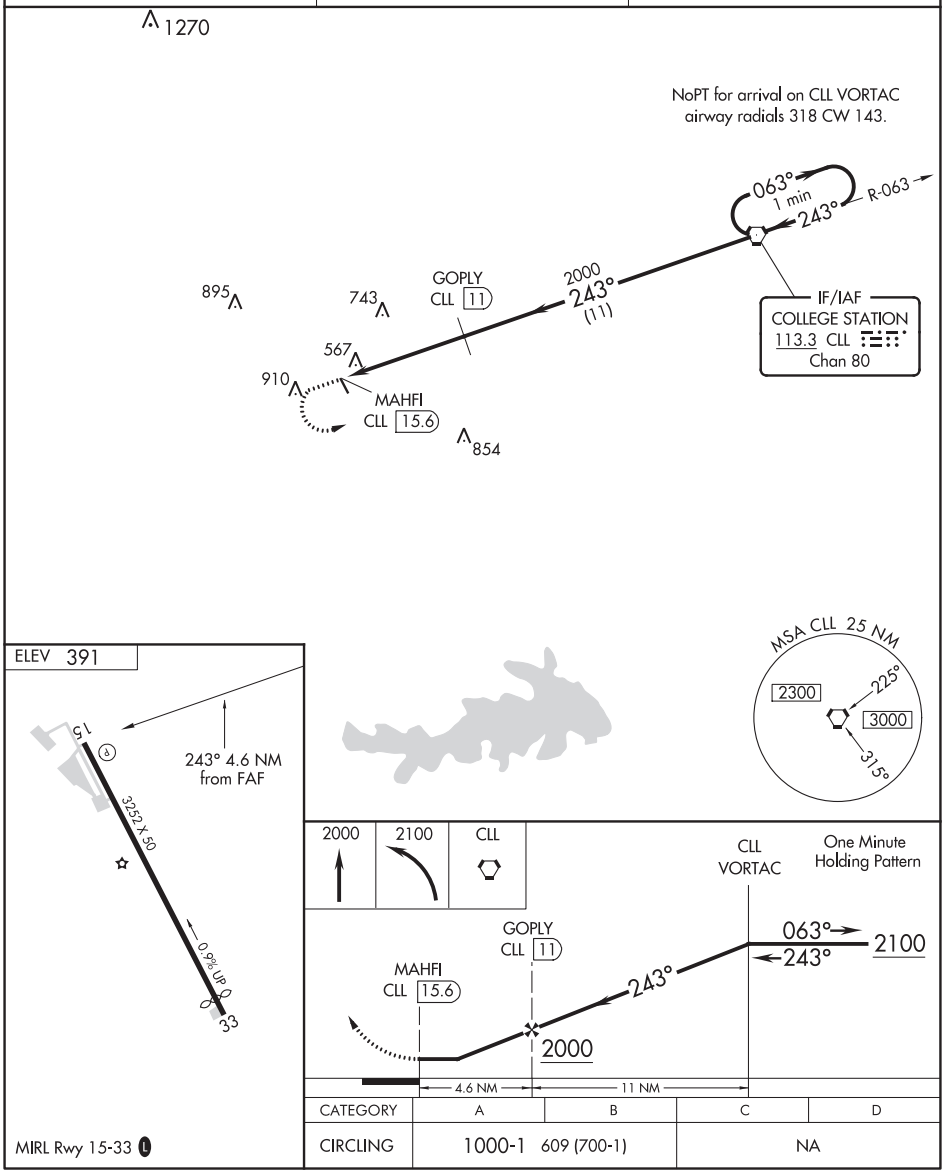
VOR/DME-A
CALDWELL MUNI (RWV)

VORTAC CLL	APP CRS	Rwy ldg	N/A
113.3	243°	TDZE	N/A
Chan 80		Apt Elev	391

When local altimeter setting not received, use College Station altimeter setting and increase MDA 60 feet. Circling NA east of Rwy 15-33. Procedure NA at night.

MISSED APPROACH: Climb to 2000 then climbing left turn to 2100 direct CLL VORTAC and hold.

AWOS-3	HOUSTON APP CON	CTAF
118.35	134.3 360.85	122.9 L



CATEGORY	A	B	C	D
CIRCLING	1000-1 609 (700-1)		NA	

MIRL Rwy 15-33 L

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RNAV (GPS) RWY 17
CENTER MUNI (F17)

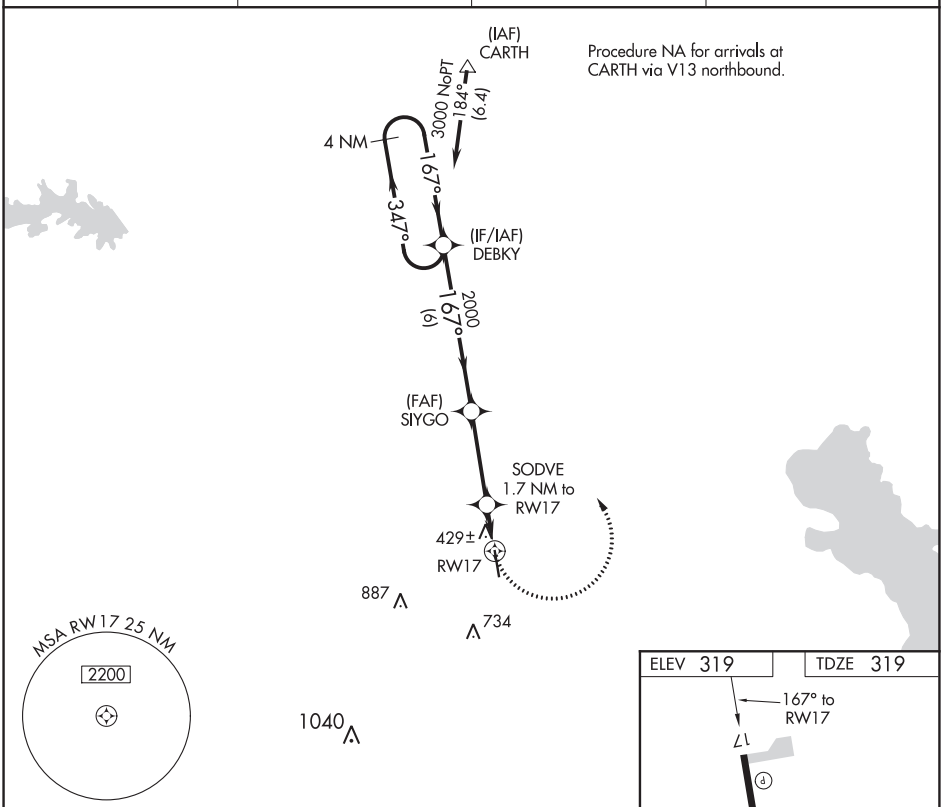
APP CRS	Rwy ldg	5501
167°	TDZE	319
	Apt Elev	319

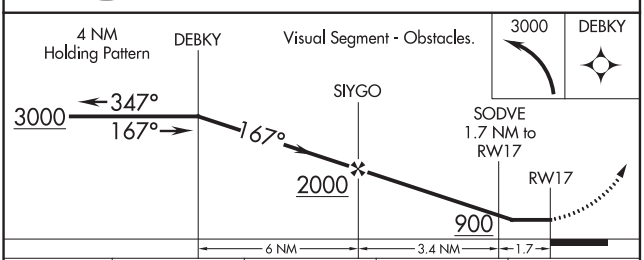
RNP APCH.

NA Rwy 17 helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climbing left turn to 3000 direct DEBKY and hold, continue climb-in-hold to 3000.

AWOS-3PT	OCH AWOS-3	FORTH WORTH CENTER	UNICOM
128.775	135.625	126.325 346.25	122.8 (CTAF) L





CATEGORY	A	B	C	D
LNAV MDA	800-1 481 (500-1)		800-1¼ 481 (500-1¼)	NA
CIRCLING	860-1 541 (600-1)		860-1½ 541 (600-1½)	NA

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CENTER, TEXAS

AL-6632 (FAA)

20142

RNAV (GPS) RWY 35
CENTER MUNI (F17)

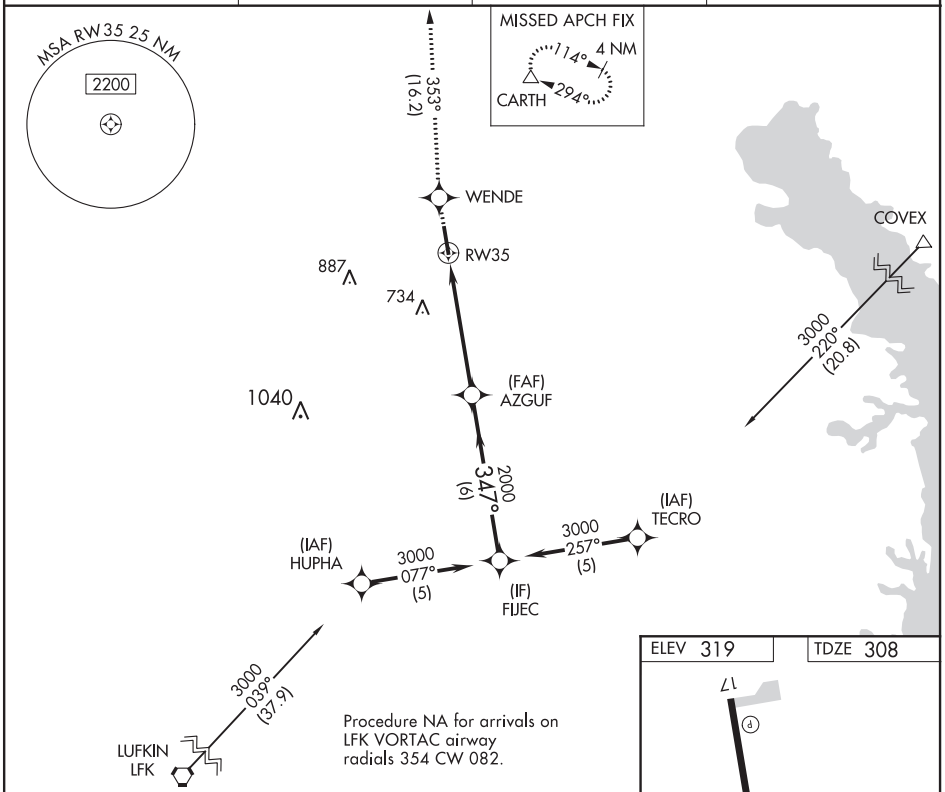
APP CRS	Rwy ldg	5501
347°	TDZE	308
	Apt Elev	319

RNP APCH.

NA Rwy 35 helicopter visibility reduction below ¾ SM NA.

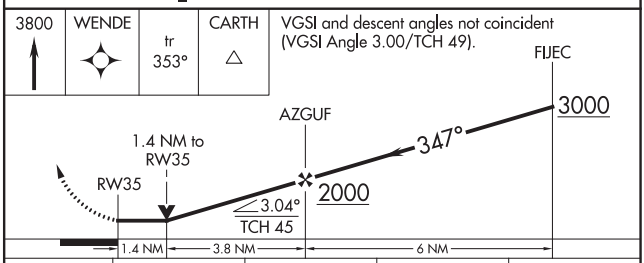
MISSED APPROACH: Climb to 3800 direct WENDE and on track 353° to CARTH and hold.

AWOS-3PT	OCH AWOS-3	FORTH WORTH CENTER	UNICOM
128.775	135.625	126.325 346.25	122.8 (CTAF) L

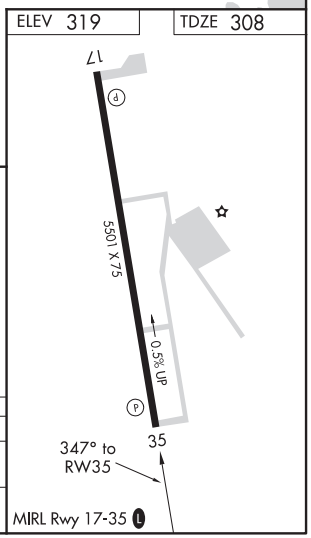


3800	WENDE	tr 353°	CARTH

VGSI and descent angles not coincident (VGSI Angle 3.00/TCH 49).



CATEGORY	A	B	C	D
LNAV MDA	960-1 652 (700-1)		960-1¾ 652 (700-1¾)	NA
CIRCLING	960-1 641 (700-1)		960-1¾ 641 (700-1¾)	NA



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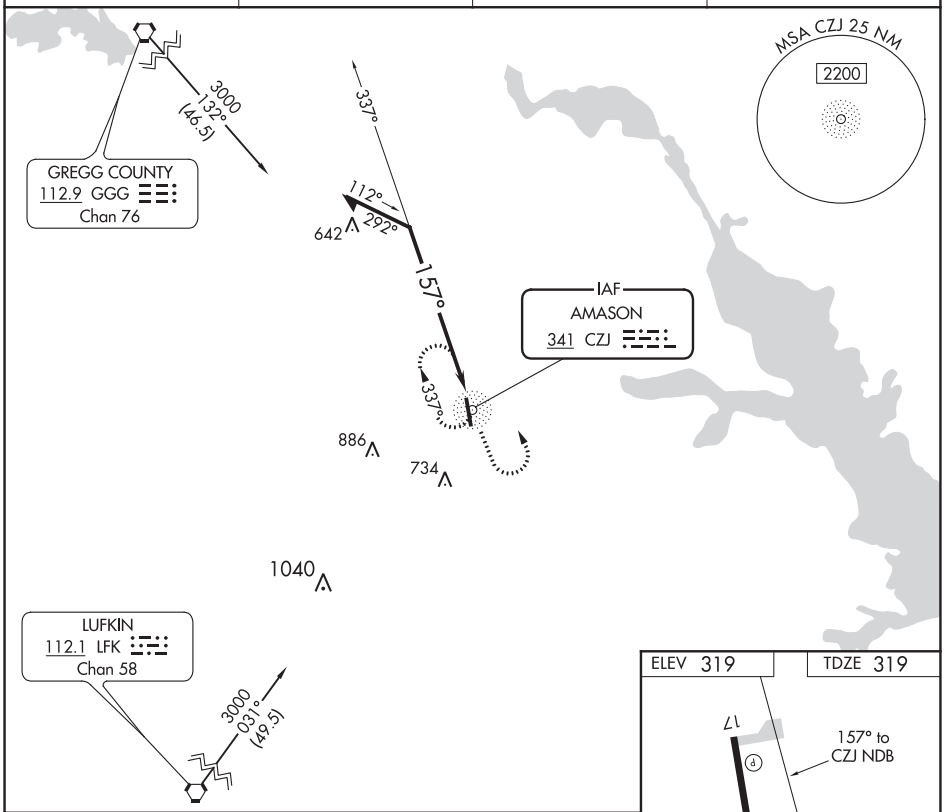
NDB RWY 17
CENTER MUNI (F17)

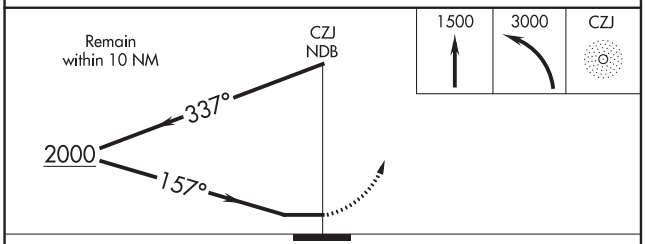
NDB CZJ	APP CRS	Rwy ldg	5501
341	157°	TDZE	319
		Apt Elev	319

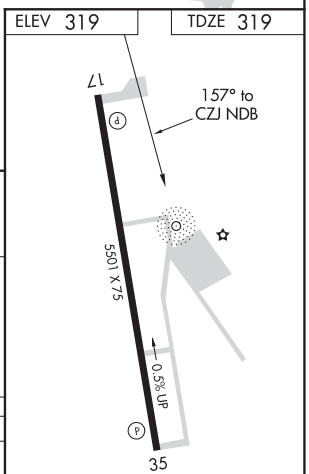
NA Rwy 17 helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 1500 then climbing left turn to 3000 direct CZJ NDB and hold.

AWOS-3PT	OCH AWOS-3	FORTH WORTH CENTER	UNICOM
128.775	135.625	126.325 346.25	122.8 (CTAF) L







MIRL Rwy 17-35 L

CATEGORY	A	B	C	D
S-17	1200-1¼	881 (900-1¼)	1200-2¾ 881 (900-2¾)	NA
CIRCLING	1200-1¼	881 (900-1¼)	1200-2¾ 881 (900-2¾)	NA

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CLEVELAND, TEXAS

AL-6073 (FAA)

19171

RNAV (GPS) RWY 16

CLEVELAND MUNI (6R3)

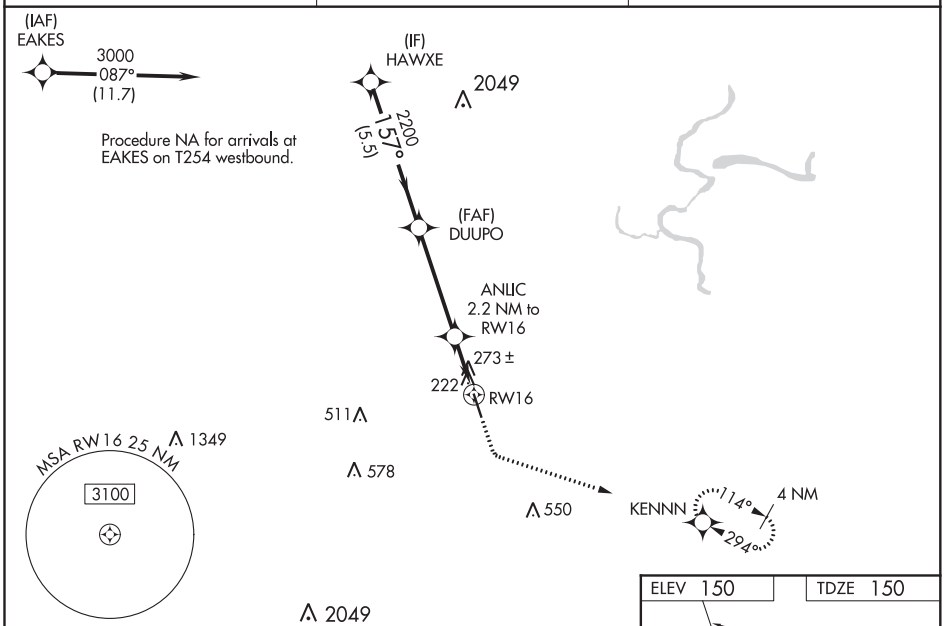
WAAS CH 65724 W16A	APP CRS 157°	Rwy ldg 5001 TDZE 150 Apt Elev 150

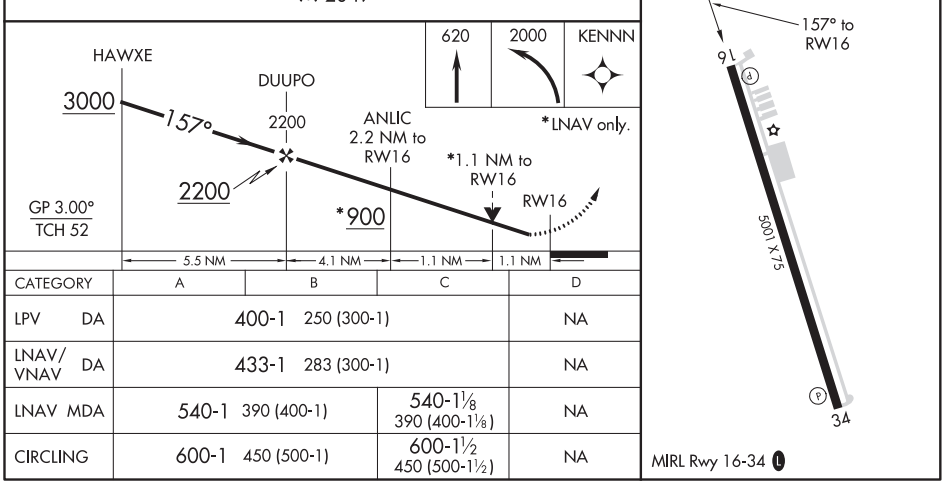
RNP APCH.

Circling to Rwy 34 NA at night. Rwy 16 helicopter visibility reduction below ¾ SM NA. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C or above 54°C.

MISSED APPROACH: Climb to 620 then climbing left turn to 2000 direct KENNN and hold.

AWOS-3	HOUSTON APP CON	UNICOM
119.325	119.7 281.4	123.0 (CTAF) L





CATEGORY	A	B	C	D
LPV DA	400-1 250 (300-1)			NA
LNAV/VNAV DA	433-1 283 (300-1)			NA
LNAV MDA	540-1 390 (400-1)		540-1⅛ 390 (400-1⅛)	NA
CIRCLING	600-1 450 (500-1)		600-1½ 450 (500-1½)	NA

CLEVELAND, TEXAS

Orig-C 20JUN19

30°21′N-95°00′W

CLEVELAND MUNI (6R3)

RNAV (GPS) RWY 16

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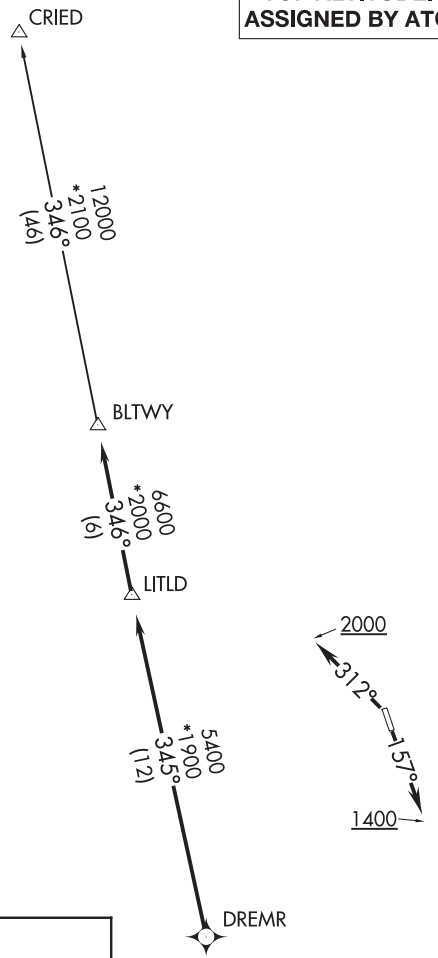
BLTWY SIX DEPARTURE (RNAV)

TOP ALTITUDE: ASSIGNED BY ATC

AWOS-3
119.325
CTAF
123.0
HOUSTON DEP CON
119.7 281.4



NOTE: RADAR required.

NOTE: DME/DME/IRU or GPS required.

NOTE: RNAV 1.

TAKEOFF MINIMUMS
Rwy 16, 34: Standard with minimum climb of 500′ per NM to 660.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 16: Climb on heading 157° to 1400 for RADAR vectors to DREMR, thence . . . .
TAKEOFF RWY 34: Climb on heading 312° to 2000 for RADAR vectors to DREMR, thence . . . .

...on track 345° to LITLD, then on track 346° to BLTWY, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

CRIED TRANSITION (BLTWY6.CRIED)

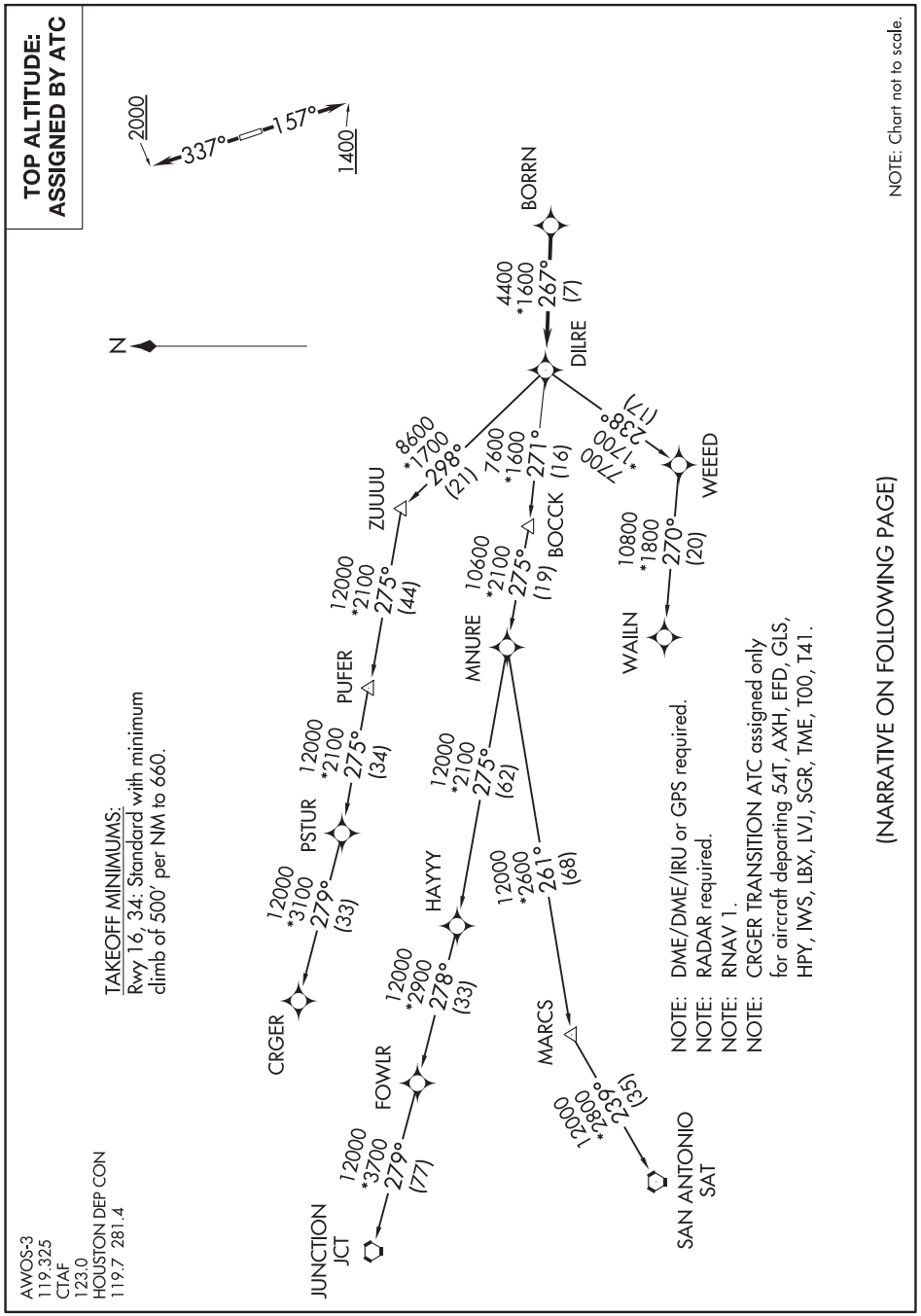
NOTE: Chart not to scale.

(BORRN4.BORRN) 19115 AL-6073 (FAA)

CLEVELAND MUNI (6R3)

BORRN FOUR DEPARTURE (RNAV)

CLEVELAND, TEXAS



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BORRN FOUR DEPARTURE (RNAV)

(BORRN4.BORRN) 25APR19

CLEVELAND, TEXAS

CLEVELAND MUNI (6R3)

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 16: Climb on heading 157° to 1400, for RADAR vectors to BORRN, thence. . . .
TAKEOFF RWY 34: Climb on heading 337° to 2000, for RADAR vectors to BORRN, thence. . . .

. . . .on track 267° to DILRE, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

CRGER TRANSITION (BORRN4.CRGER)
JUNCTION TRANSITION (BORRN4.JCT)
MNURE TRANSITION (BORRN4.MNURE)
SAN ANTONIO TRANSITION (BORRN4.SAT)
WAILN TRANSITION (BORRN4.WAILN)

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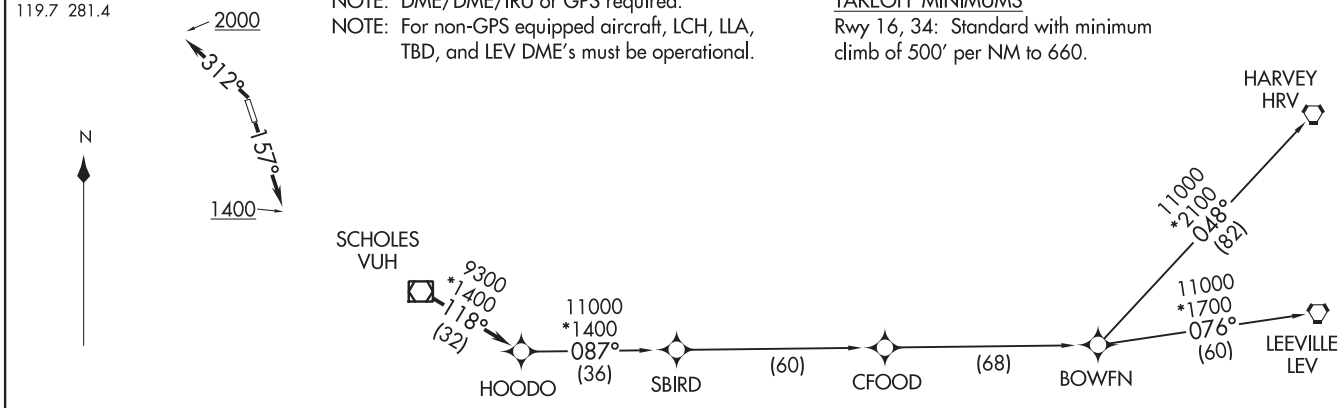
TOP ALTITUDE: ASSIGNED BY ATC

AWOS-3
119.325
CTAF
123.0
HOUSTON DEP CON
119.7 281.4

NOTE: RNAV 1.
NOTE: RADAR required.
NOTE: ATC assigned only.
NOTE: DME/DME/IRU or GPS required.
NOTE: For non-GPS equipped aircraft, LCH, LLA, TBD, and LEV DME's must be operational.

TAKEOFF MINIMUMS
Rwy 16, 34: Standard with minimum climb of 500′ per NM to 660.



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 16: Climb heading 157° to 1400, for RADAR vectors to VUH VOR/DME, thence . . . .
TAKEOFF RWY 34: Climb heading 312° to 2000, for RADAR vectors to VUH VOR/DME, thence . . . .

. . . . on track 118° to HOODO, then on (transition). Maintain ATC assigned altitude.
Expect filed altitude 10 minutes after departure.

BOWFN TRANSITION (HOODO6.BOWFN)
CFOOD TRANSITION (HOODO6.CFOOD)
HARVEY TRANSITION (HOODO6.HRV)
LEEVILLE TRANSITION (HOODO6.LEV)
SBIRD TRANSITION (HOODO6.SBIRD)

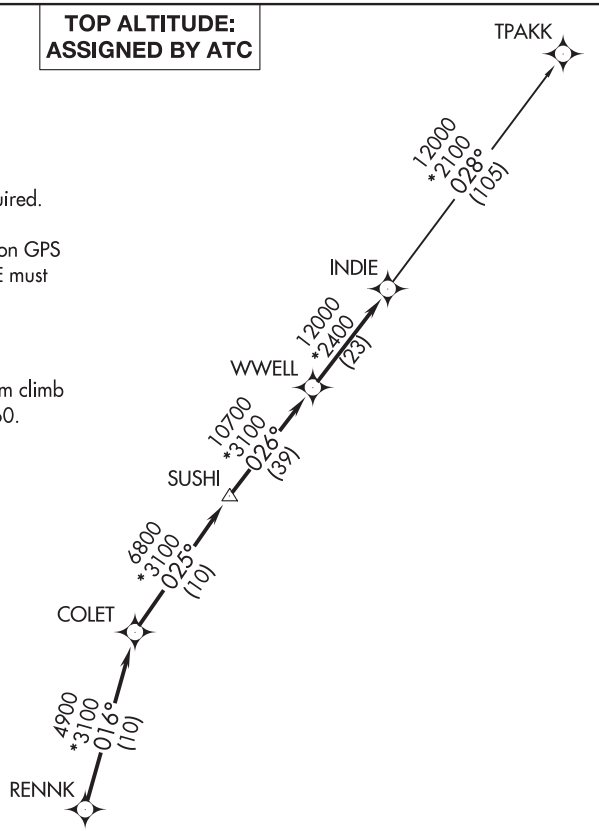
INDIE SEVEN DEPARTURE (RNAV)

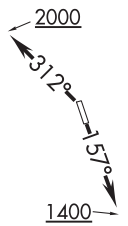
AWOS-3
119.325
CTAF
123.0
HOUSTON DEP CON
119.7 281.4

TOP ALTITUDE: ASSIGNED BY ATC

NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV 1.
NOTE: TPAKK TRANSITION: For non GPS equipped aircraft TNV DME must be operational.

TAKEOFF MINIMUMS
Rwy 16, 34: Standard with minimum climb of 500′ per NM to 660.





DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 16: Climb heading 157° to 1400 for RADAR vectors to RENNK, thence . . . .
TAKEOFF RWY 34: Climb heading 312° to 2000 for RADAR vectors to RENNK, thence . . . .

. . . . on track 016° to COLET, then on track 025° to SUSHI, then on track 026° to WWELL, then on track 026° to INDIE, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

TPAKK TRANSITION (INDIE7.TPAKK)

NOTE: Chart not to scale.

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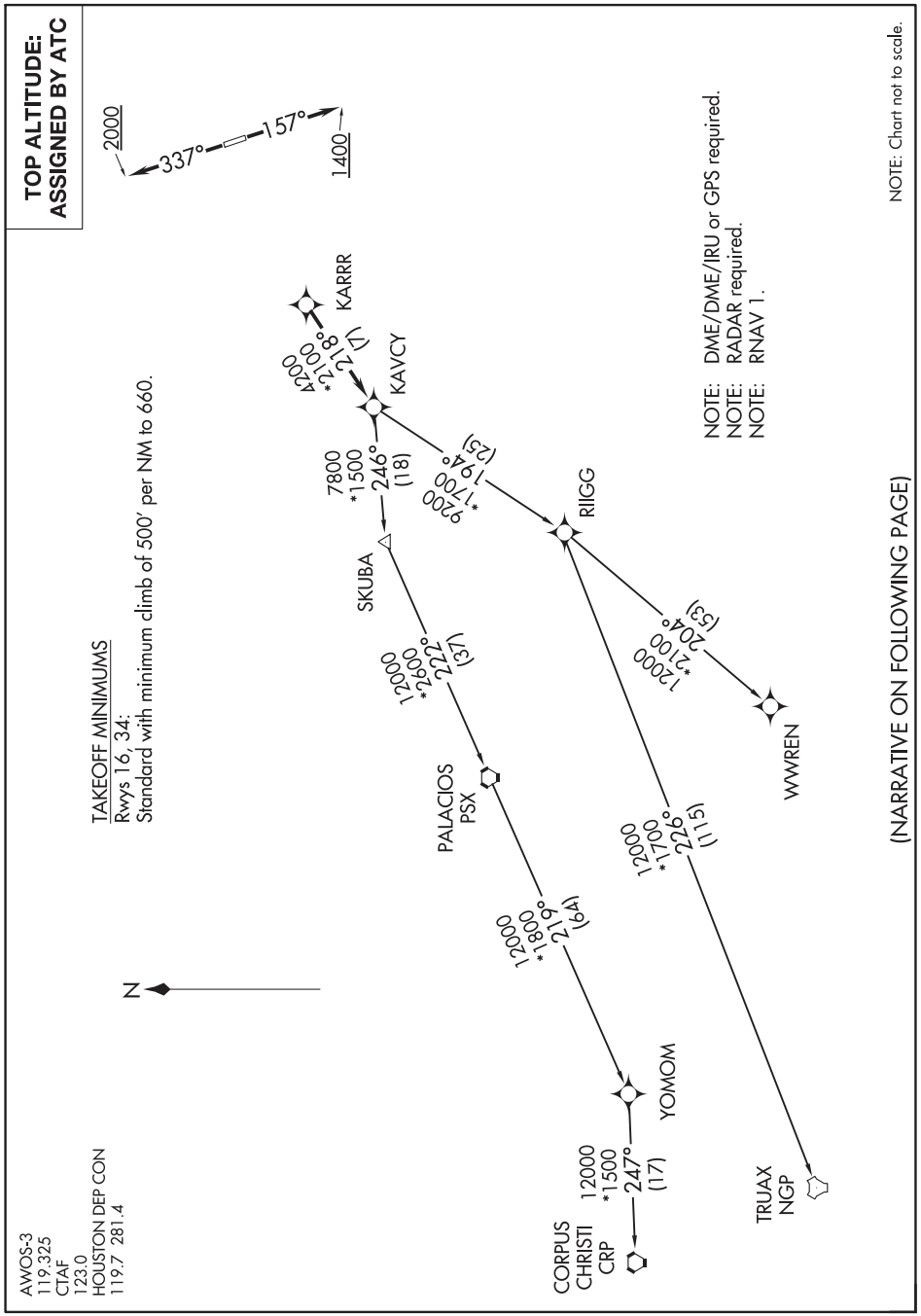
(KARRR6.KARRR) 19339 AL-6073 (FAA)

KARRR SIX DEPARTURE (RNAV)

CLEVELAND MUNI (6R3)
CLEVELAND, TEXAS



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KARRR SIX DEPARTURE (RNAV)

(KARRR6.KARRR) 05DEC19

CLEVELAND, TEXAS
CLEVELAND MUNI (6R3)

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 16: Climb on heading 157° to 1400, for RADAR vectors to KARRR, thence. . . .
TAKEOFF RWY 34: Climb on heading 337° to 2000, for RADAR vectors to KARRR, thence. . . .

. . . .on track 218° to KAVCY, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

CORPUS CHRISTI TRANSITION (KARRR6.CRP)
PALACIOS TRANSITION (KARRR6.PSX)
TRUAX TRANSITION (KARRR6.NGP)
WWREN TRANSITION (KARRR6.WWREN)
YOMOM TRANSITION (KARRR6.YOMOM)

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(LURIC7.LURIC) 19115 AL-6073 (FAA) CLEVELAND MUNI (6R3)

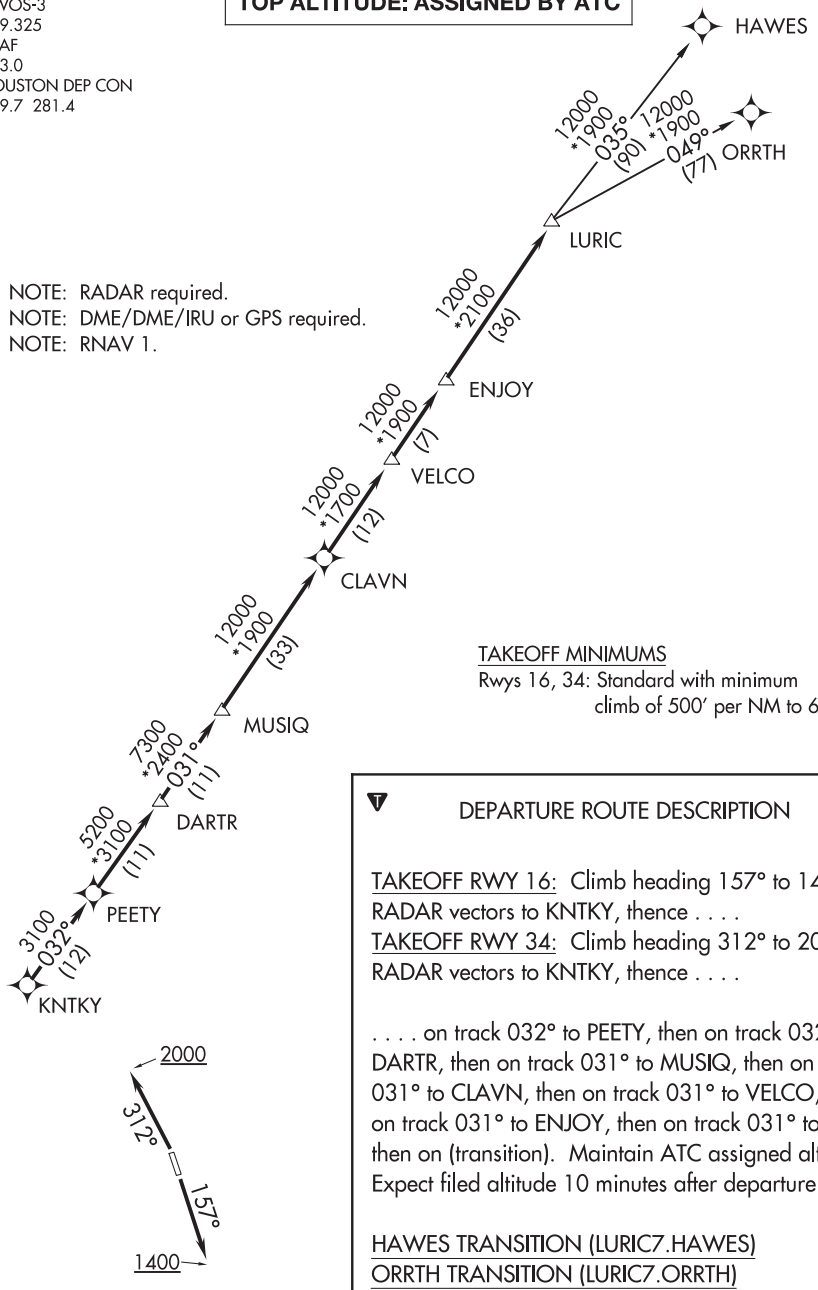
LURIC SEVEN DEPARTURE (RNAV)

CLEVELAND, TEXAS

TOP ALTITUDE: ASSIGNED BY ATC

AWOS-3
119.325
CTAF
123.0
HOUSTON DEP CON
119.7 281.4

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



TAKEOFF MINIMUMS
Rwys 16, 34: Standard with minimum climb of 500′ per NM to 660.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 16: Climb heading 157° to 1400 for RADAR vectors to KNTKY, thence . . . .
TAKEOFF RWY 34: Climb heading 312° to 2000 for RADAR vectors to KNTKY, thence . . . .

. . . . on track 032° to PEETY, then on track 032° to DARTR, then on track 031° to MUSIQ, then on track 031° to CLAVN, then on track 031° to VELCO, then on track 031° to ENJOY, then on track 031° to LURIC, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

HAWES TRANSITION (LURIC7.HAWES)
ORRTH TRANSITION (LURIC7.ORRTH)

NOTE: Chart not to scale.

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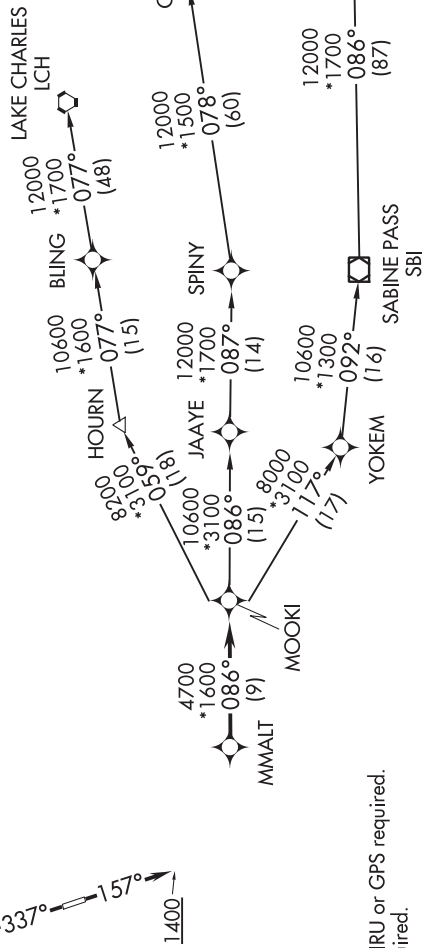
MMALT FIVE DEPARTURE (RNAV)

TOP ALTITUDE: ASSIGNED BY ATC

TAKEOFF MINIMUMS
Rwy 16, 34: Standard with minimum climb of 500' per NM to 660.



NOTE: DME/DME/IRU or GPS required.
NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: GUSTI and LCH TRANSITIONS ATC assigned only for aircraft departing AXH, EFD, GLS, HPY, IWS, LBX, LVJ, SGR, TME, T00, T41 and 54T.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 16: Climb on heading 157° to 1400 for RADAR vectors to MMALT, thence. . . .
TAKEOFF RWY 34: Climb on heading 337° to 2000 for RADAR vectors to MMALT, thence. . . .

. . . .on track 086° to MOOKI, then on (transition). Maintain ATC assigned altitude.
Expect filed altitude 10 minutes after departure.

GUSTI TRANSITION (MMALT5.GUSTI)
LAKE CHARLES TRANSITION (MMALT5.LCH)
WHITE LAKE TRANSITION (MMALT5.LLA)

NOTE: Chart not to scale.

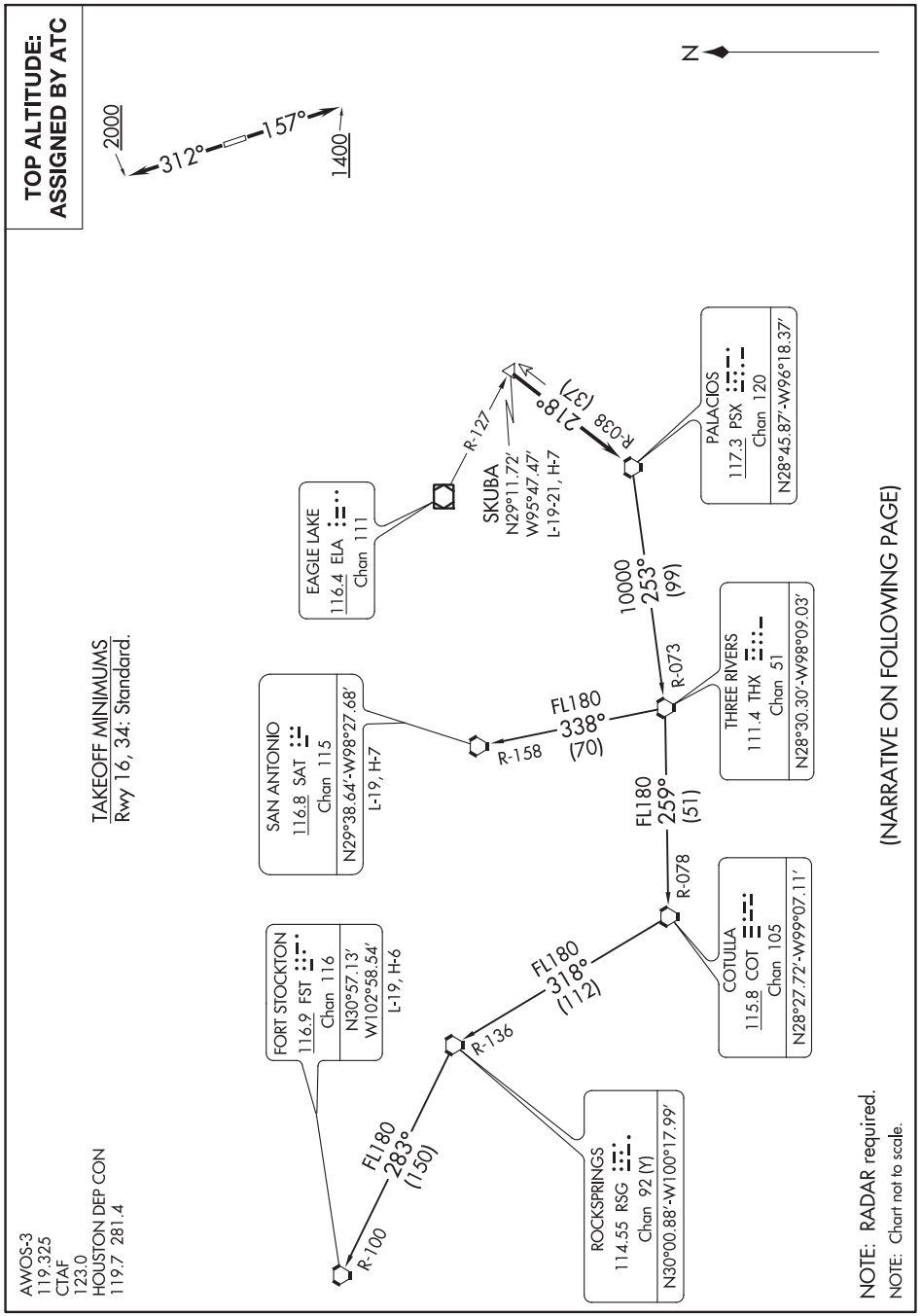
SC-5, 25 FEB 2021 to 22 APR 2021

MMALT FIVE DEPARTURE (RNAV)

(PSX1.PSX) 20254 AL-6073 (FAA)

PALACIOS ONE DEPARTURE

CLEVELAND MUNI (6R3)
CLEVELAND, TEXAS



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PALACIOS ONE DEPARTURE

(PSX1.PSX) 20JUN19

CLEVELAND, TEXAS
CLEVELAND MUNI (6R3)

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 16: Climb heading 157° to 1400 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to SKUBA INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .
TAKEOFF RWY 34: Climb heading 312° to 2000 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to SKUBA INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .

. . . .on PSX R-038 to PSX VORTAC.

FORT STOCKTON TRANSITION (PSX1.FST): From over PSX VORTAC on PSX R-253 and THX R-073 to THX VORTAC, then on THX R-259 and COT R-078 to COT VORTAC, then on COT R-318 and RSG R-136 to RSG VORTAC, then on RSG R-283 and FST R-100 to FST VORTAC.

SAN ANTONIO TRANSITION (PSX1.SAT): From over PSX VORTAC on PSX R-253 and THX R-073 to THX VORTAC, then on SAT R-158 to SAT VORTAC.

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(STRYA7.STRYA) 19115 AL-6073 (FAA)

CLEVELAND MUNI (6R3)
CLEVELAND, TEXAS

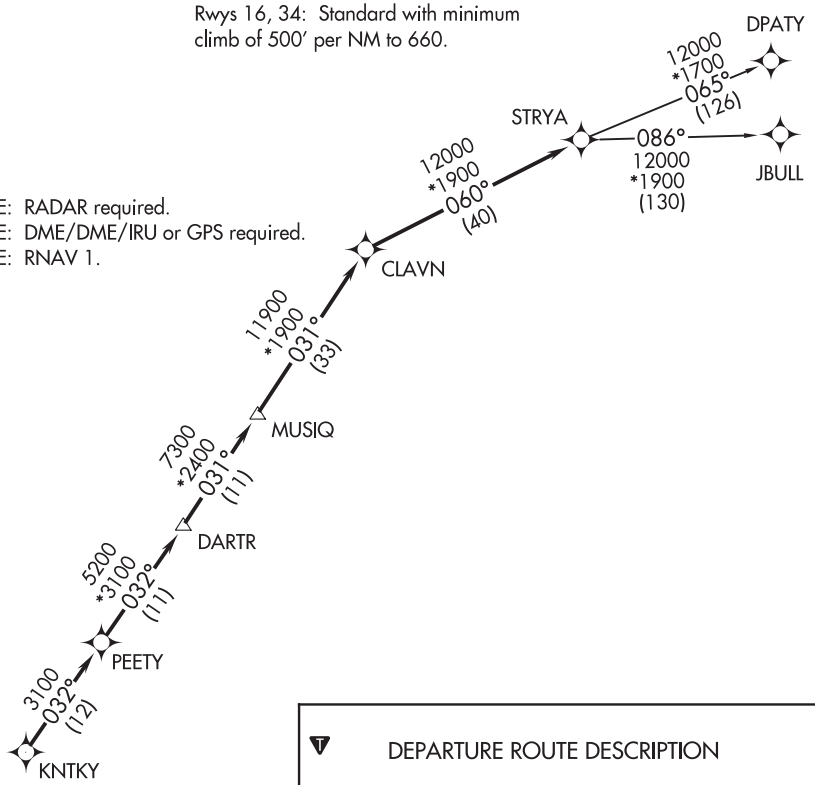
STRYA SEVEN DEPARTURE (RNAV)

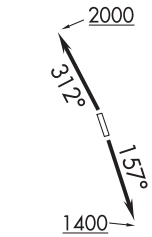
TOP ALTITUDE: ASSIGNED BY ATC

AWOS-3
119.325
CTAF
123.0
HOUSTON DEP CON
119.7 281.4

TAKEOFF MINIMUMS
Rwys 16, 34: Standard with minimum climb of 500′ per NM to 660.

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





NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 16: Climb heading 157° to 1400 for RADAR vectors to KNTKY, thence . . . .
TAKEOFF RWY 34: Climb heading 312° to 2000 for RADAR vectors to KNTKY, thence . . . .

. . . . on track 032° to PEETY, then on track 032° to DARTR, then on track 031° to MUSIQ, then on track 031° to CLAVN, then on track 060° to STRYA, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

DPATY TRANSITION (STRYA7.DPATY)
JBULL TRANSITION (STRYA7.JBULL)

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STYCK SEVEN DEPARTURE (RNAV)

TOP ALTITUDE: ASSIGNED BY ATC

AWOS-3
119.325
CTAF
123.0
HOUSTON DEP CON
119.7 281.4

WTSON
DOLEY
12000
*2000
339°
(67)
12000
*2100
346°
(65)
STYCK
12000
*1900
332°
(39)
WLLIS
6400
*2000
331°
(17)
SPICR
3000
*2000
331°
(12)
BBYSE

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

TAKEOFF MINIMUMS
Rwys 16, 34: Standard with minimum climb of 500′ per NM to 660.

2000
312°
157°
1400

NOTE: Chart not to scale.

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DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 16: Climb heading 157° to 1400 for RADAR vectors to BBYSE, thence. . . .
TAKEOFF RWY 34: Climb heading 312° to 2000 for RADAR vectors to BBYSE, thence. . . .

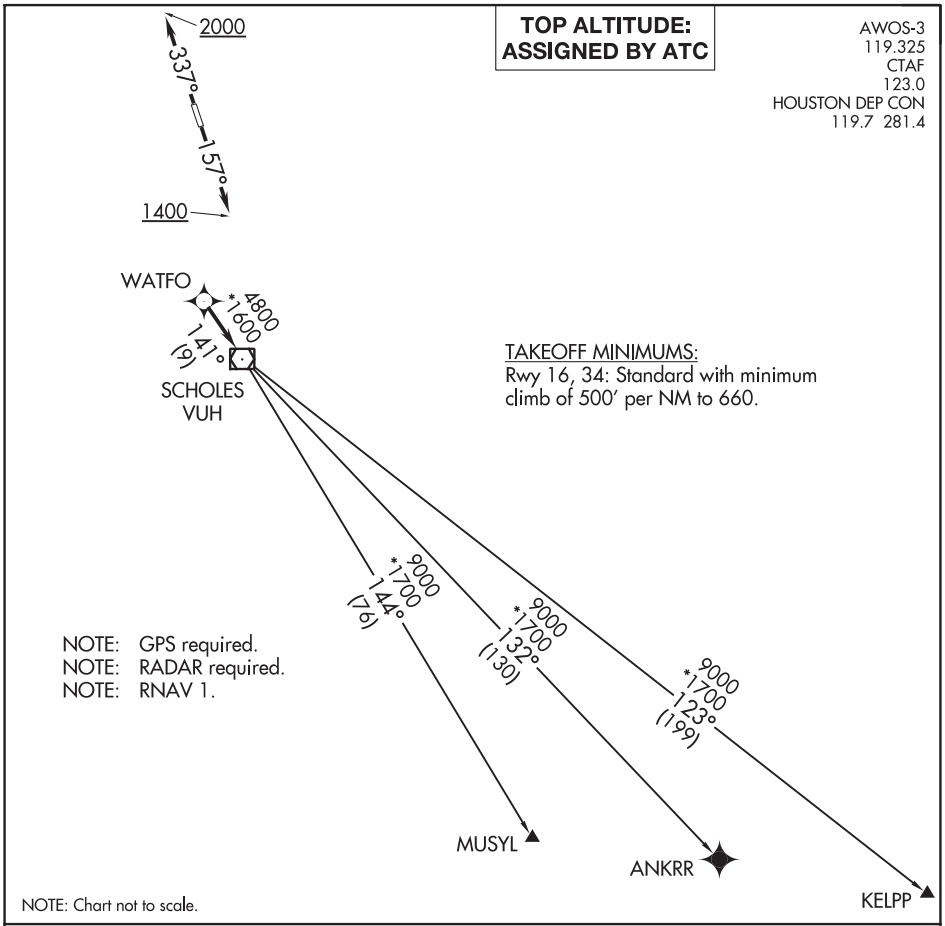
. . . .on track 331° to SPICR, then on track 331° to WLLIS, then on track 332° to STYCK, then on (transition). Maintain ATC assigned altitude . Expect filed altitude 10 minutes after departure.

DOLEY TRANSITION (STYCK7.DOLEY)
WTSON TRANSITION (STYCK7.WTSON)

(WATFO5.WATFO) 19115 AL-6073 (FAA)

WATFO FIVE DEPARTURE (RNAV)

CLEVELAND MUNI (6R3)
CLEVELAND, TEXAS



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DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 16: Climb on heading 157° to 1400, for RADAR vectors to WATFO, thence. . . .
TAKEOFF RWY 34: Climb on heading 337° to 2000, for RADAR vectors to WATFO, thence. . . .

. . . .on track 141° to VUH VOR/DME, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

ANKRR TRANSITION (WATFO5.ANKRR)
KELPP TRANSITION (WATFO5.KELPP)
MUSYL TRANSITION (WATFO5.MUSYL)

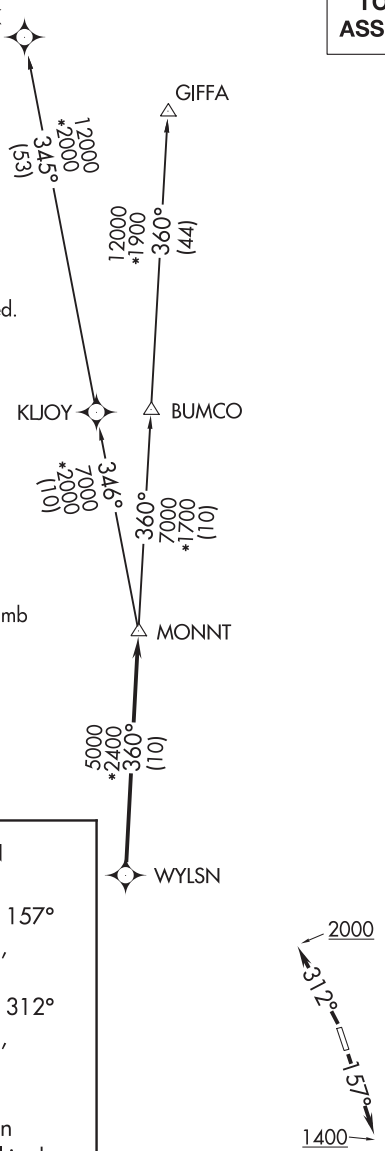
WYLSN SEVEN DEPARTURE (RNAV)

AWOS-3
119.325
CTAF
123.0
HOUSTON DEP CON
119.7 281.4

TOP ALTITUDE: ASSIGNED BY ATC

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

TAKEOFF MINIMUMS
Rwy 16, 34: Standard with minimum climb of 500′ per NM to 660.



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 16: Climb on heading 157° to 1400 for RADAR vectors to WYLSN, thence. . . .
TAKEOFF RWY 34: Climb on heading 312° to 2000 for RADAR vectors to WYLSN, thence. . . .

. . . .on track 360° to MONNT, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

GIFFA TRANSITION (WYLSN7.GIFFA)
MAJKK TRANSITION (WYLSN7.MAJKK)

NOTE: Chart not to scale.

COLLEGE STATION, TEXAS

AL-928 (FAA)

20310

ILS or LOC RWY 35
EASTERWOOD FIELD (CLL)

LOC/DME I-CLL	APP CRS	Rwy ldg	7000
110.55	346°	TDZE	311
Chan 42 (Y)		Apt Elev	321

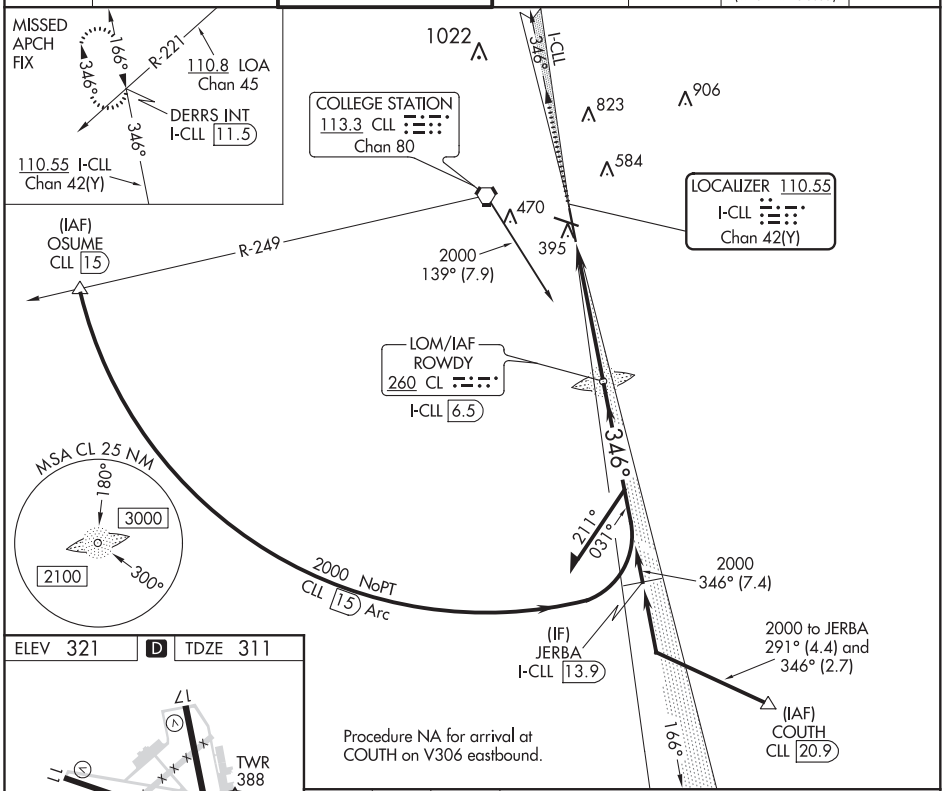
ADF or DME required for procedure entry. ADF or DME required for LOC only.

For inop ALS, increase S-ILS 35 Cat E visibility to ¾ SM and S-LOC 35 Cat E visibility to 1⅜ SM. ILS glideslope unusable for coupled approaches below 1050 feet MSL.

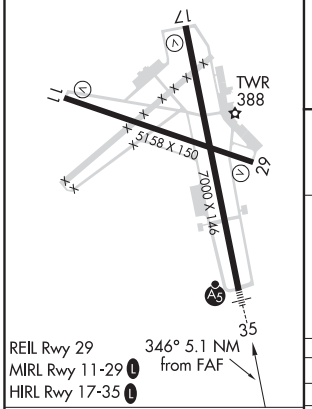
MALSR

MISSED APPROACH: Climb to 2500 on I-CLL north course to DERRS INT/I-CLL 11.5 DME and hold.

ATIS	HOUSTON APP CON	EASTERWOOD TOWER ★	GND CON	CLNC DEL	CLNC DEL	UNICOM
126.85	134.3 360.85	118.5 (CTAF) L 284.7	128.7 284.7	128.7	120.4 (when twr closed)	122.95



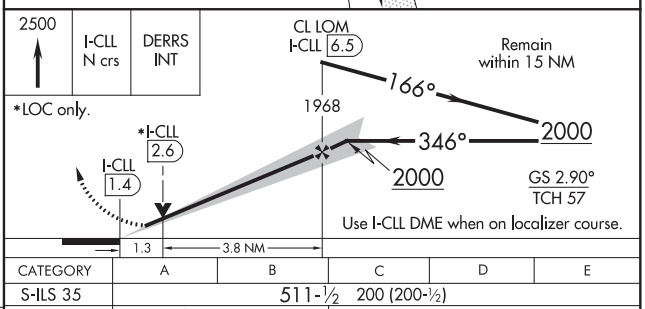
ELEV 321 | D | TDZE 311



REIL Rwy 29
MIRL Rwy 11-29 L
HIRL Rwy 17-35 L

346° 5.1 NM from FAF

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-ILS 35	511-½ 200 (200-½)				
S-LOC 35	760-½ 449 (500-½)		760-⅞ 449 (500-⅞)		
C CIRCLING	860-1 539 (600-1)	880-1 559 (600-1)	1000-2 679 (700-2)	1180-2¾ 859 (900-2¾)	1180-3 859 (900-3)

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RNAV (GPS) RWY 11
EASTERWOOD FIELD (CLL)

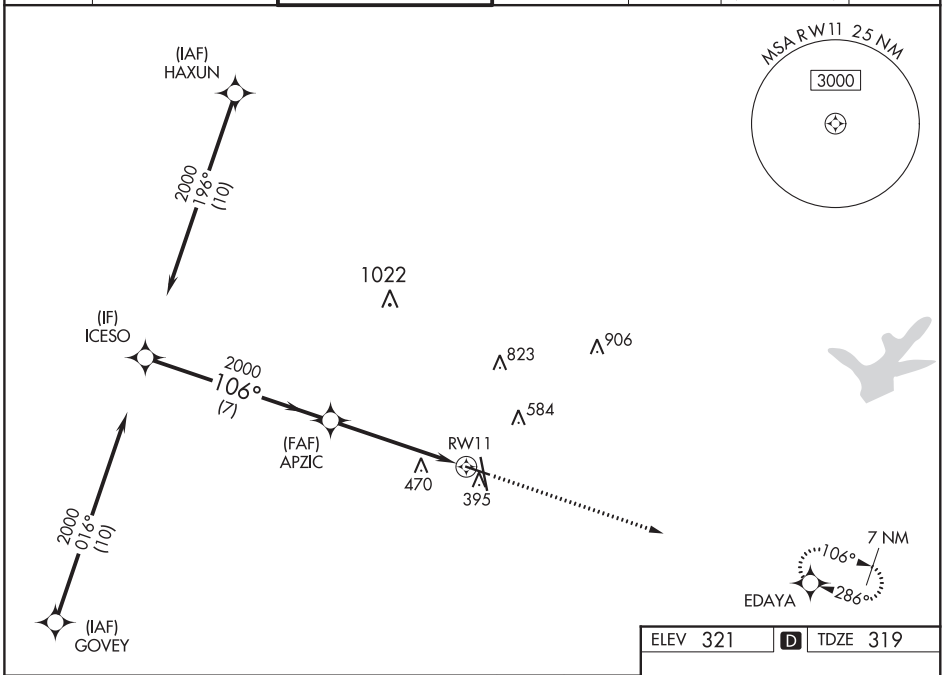
WAAS CH 65632 W11A	APP CRS 106°	Rwy ldg 5158 TDZE 319 Apt Elev 321

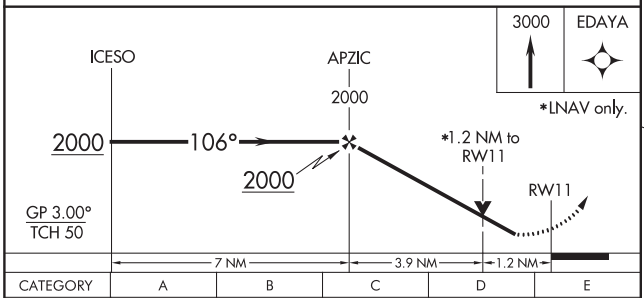
RNP APCH.

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -3°C or above 54°C. Rwy 11 helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 3000 direct EDAYA and hold.

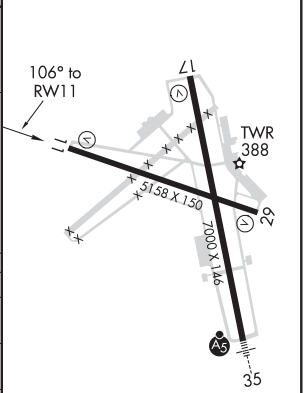
ATIS	HOUSTON APP CON	EASTERWOOD TOWER ★	GND CON	CLNC DEL	CLNC DEL (when twr closed)	UNICOM
126.85	134.3 360.85	118.5 (CTAF) L 284.7	128.7 284.7	128.7	120.4	122.95





CATEGORY	A	B	C	D	E
LPV DA	569-¾ 250 (300-¾)				
LNAV/VNAV DA	641-1 322 (400-1)				
LNAV MDA	740-1 421 (500-1)		740-1¼ 421 (500-1¼)		
C CIRCLING	860-1 539 (600-1)	880-1 559 (600-1)	1000-2 679 (700-2)	1180-2¾ 859 (900-2¾)	1180-3 859 (900-3)

ELEV 321 D TDZE 319



REIL Rwy 29
MIRL Rwy 11-29 L
HIRL Rwy 17-35 L

SC-5, 25 FEB 2021 to 22 APR 2021
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COLLEGE STATION, TEXAS

AL-928 (FAA)

20310

RNAV (GPS) RWY 17
EASTERWOOD FIELD (CLL)

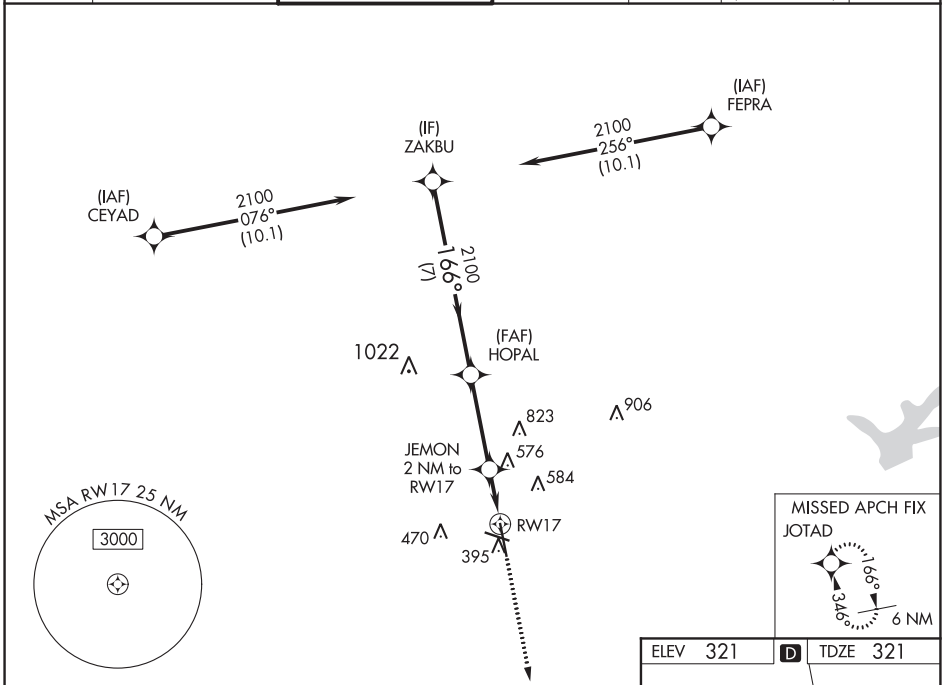
WAAS CH 78322 W17A	APP CRS 166°	Rwy ldg 7000 TDZE 321 Apt Elev 321

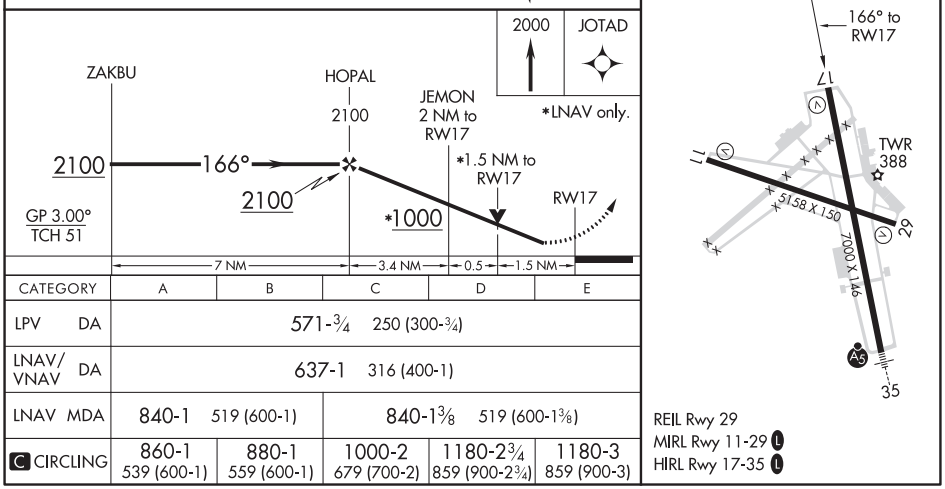
RNP APCH.

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -3°C or above 54°C. Rwy 17 helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 2000 direct JOTAD and hold.

ATIS	HOUSTON APP CON	EASTERWOOD TOWER★	GND CON	CLNC DEL	CLNC DEL (when twr closed)	UNICOM
126.85	134.3 360.85	118.5 (CTAF) L 284.7	128.7 284.7	128.7	120.4	122.95





CATEGORY	A	B	C	D	E
LPV DA	571-¾ 250 (300-¾)				
LNAV/VNAV DA	637-1 316 (400-1)				
LNAV MDA	840-1 519 (600-1)		840-1⅜ 519 (600-1⅜)		
C CIRCLING	860-1 539 (600-1)	880-1 559 (600-1)	1000-2 679 (700-2)	1180-2¾ 859 (900-2¾)	1180-3 859 (900-3)

COLLEGE STATION, TEXAS

Amdt 1C 28FEB19

30°35′N-96°22′W

EASTERWOOD FIELD (CLL)

RNAV (GPS) RWY 17

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WAAS CH 87022 W29A	APP CRS 286°	Rwy ldg 5158 TDZE 314 Apt Elev 321

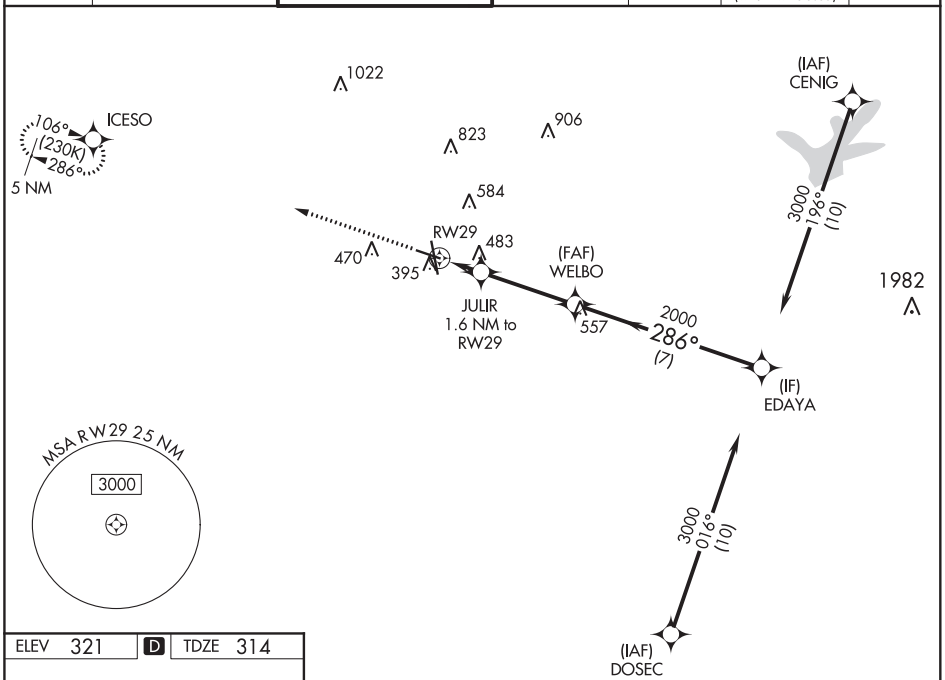
RNAV (GPS) RWY 29
EASTERWOOD FIELD (CLL)

RNP APCH.

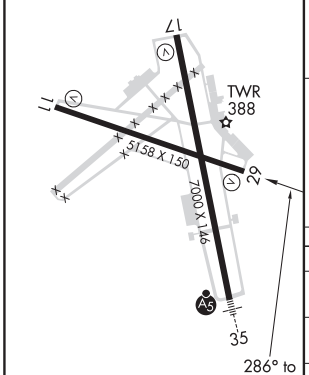
Baro-VNAV NA when using Caldwell altimeter setting.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -3°C or above 54°C. Rwy 29 helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 2000 direct ICESO and hold.

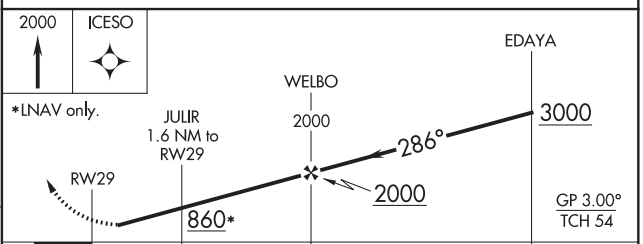
ATIS	HOUSTON APP CON	EASTERWOOD TOWER ★	GND CON	CLNC DEL	CLNC DEL (when twr closed)	UNICOM
126.85	134.3 360.85	118.5 (CTAF) L 284.7	128.7 284.7	128.7	120.4	122.95



ELEV 321 D TDZE 314



REIL Rwy 29
MIRL Rwy 11-29 L
HIRL Rwy 17-35 L



CATEGORY	A	B	C	D	E
LPV DA	564-¾ 250 (300-¾)				
LNAV/VNAV DA	762-1⅜ 448 (500-1⅜)				
LNAV MDA	740-1 426 (500-1)		740-1¼ 426 (500-1¼)		
C CIRCLING	860-1 539 (600-1)	880-1 559 (600-1)	1000-2 679 (700-2)	1180-2¾ 859 (900-2¾)	1180-3 859 (900-3)

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COLLEGE STATION, TEXAS

AL-928 (FAA)

20310

RNAV (GPS) RWY 35
EASTERWOOD FIELD (CLL)

WAAS CH 63122 W35A	APP CRS 346°	Rwy ldg 7000 TDZE 311 Apt Elev 321

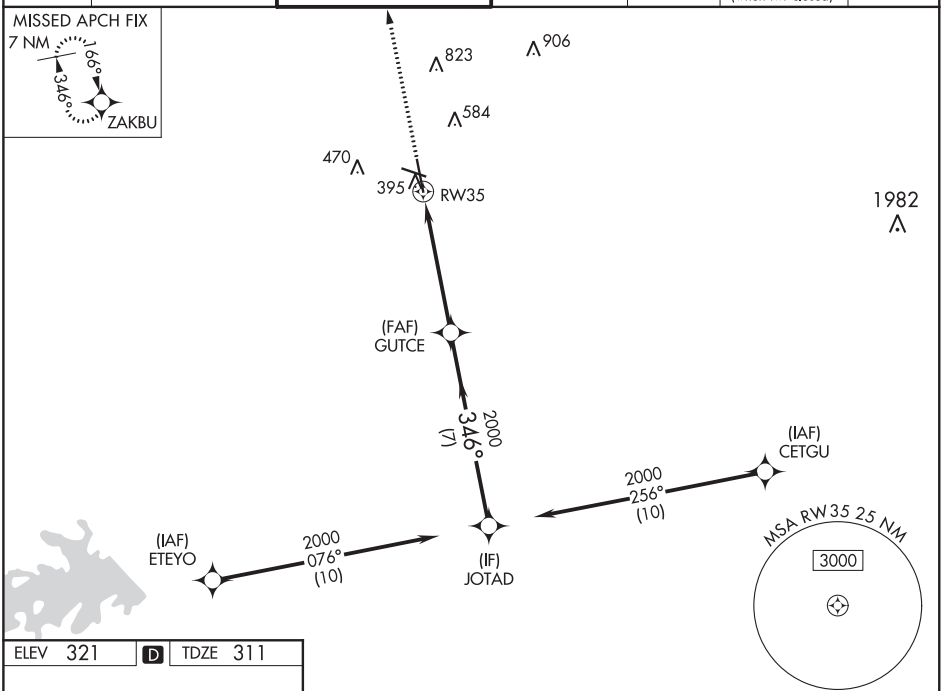
RNP APCH.

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -3°C or above 54°C. For inop ALS, increase LPV Cat E and LNAV/VNAV all Cats visibility to ¾ SM, increase LNAV Cat E visibility to 1⅜ SM.

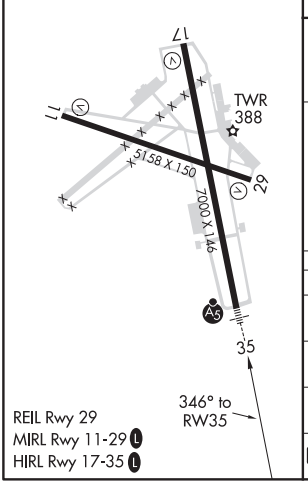
MALSR

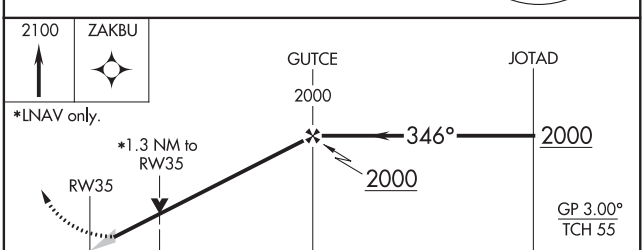
MISSED APPROACH: Climb to 2100 direct ZAKBU and hold.

ATIS	HOUSTON APP CON	EASTERWOOD TOWER*	GND CON	CLNC DEL	CLNC DEL (when twr closed)	UNICOM
126.85	134.3 360.85	118.5 (CTAF) L 284.7	128.7 284.7	128.7	120.4	122.95



ELEV 321 D TDZE 311





CATEGORY	A	B	C	D	E
LPV DA	511-½ 200 (200-½)				
LNAV/VNAV DA	563-½ 252 (300-½)				
LNAV MDA	760-½ 449 (500-½)		760-⅞ 449 (500-⅞)		
C CIRCLING	860-1 539 (600-1)	880-1 559 (600-1)	1000-2 679 (700-2)	1180-2¾ 859 (900-2¾)	1180-3 859 (900-3)

COLLEGE STATION, TEXAS
Amdt 1C 28FEB19

30°35'N-96°22'W

EASTERWOOD FIELD (CLL)
RNAV (GPS) RWY 35

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LOC BC RWY 17
EASTERWOOD FIELD (CLL)

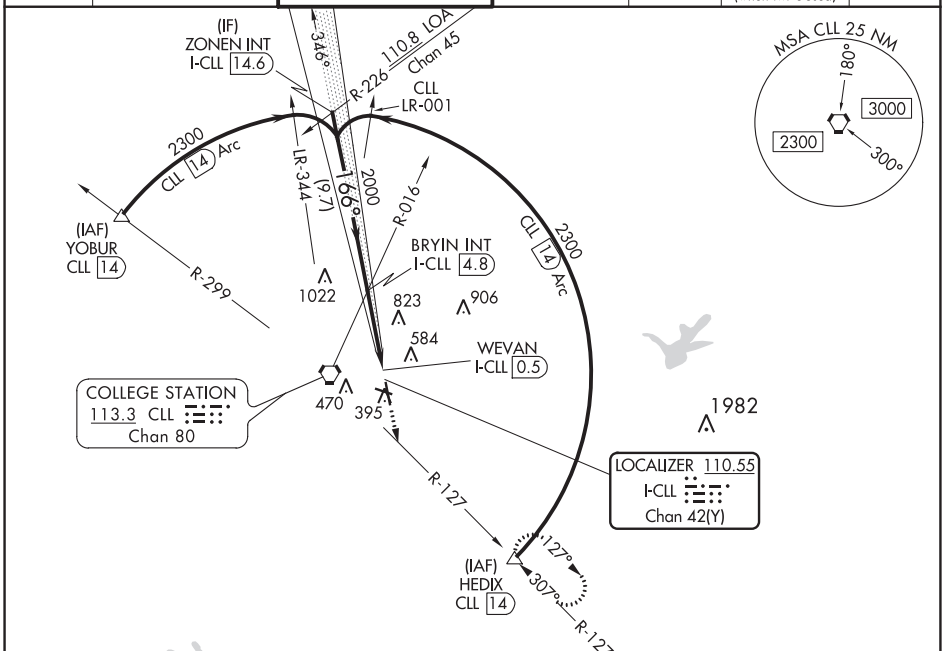
LOC/DME I-CLL	APP CRS	Rwy ldg	7000
110.55	166°	TDZE	321
Chan 42 (Y)		Apt Elev	321

DME required.

Rwy 17 helicopter visibility reduction below ¾ SM NA.

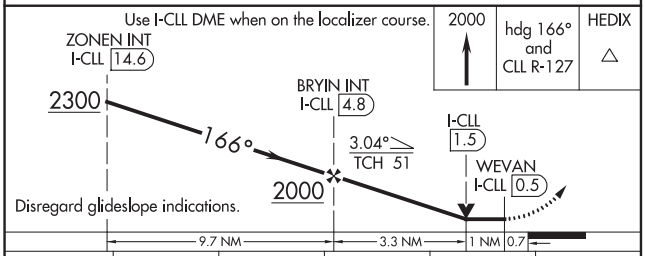
MISSED APPROACH: Climb to 2000 on heading 166° and CLL R-127 to HEDIX/CLL 14 DME and hold.

ATIS	HOUSTON APP CON	EASTERWOOD TOWER ★	GND CON	CLNC DEL	CLNC DEL (when twr closed)	UNICOM
126.85	134.3 360.85	118.5 (CTAF) L 284.7	128.7 284.7	128.7	120.4	122.95



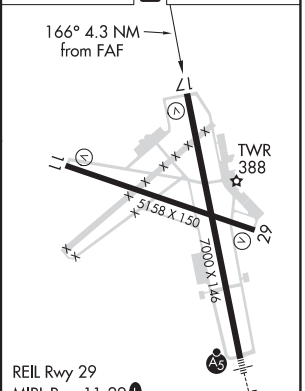
BACK COURSE

Use I-CLL DME when on the localizer course.



CATEGORY	A	B	C	D	E
S-LOC 17	940-1	619 (700-1)	940-1¾	619 (700-1¾)	
C CIRCLING	940-1	619 (700-1)	1000-2 679 (700-2)	1180-2¾ 859 (900-2¾)	1180-3 859 (900-3)

ELEV 321 D TDZE 321



REIL Rwy 29
MIRL Rwy 11-29 L
HIRL Rwy 17-35 L

FAF to MAP 4.3 NM					
Knots	60	90	120	150	180
Min:Sec	4:18	2:52	2:09	1:43	1:26

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COLLEGE STATION, TEXAS

AL-928 (FAA)

20310

VOR RWY 29
EASTERWOOD FIELD (CLL)

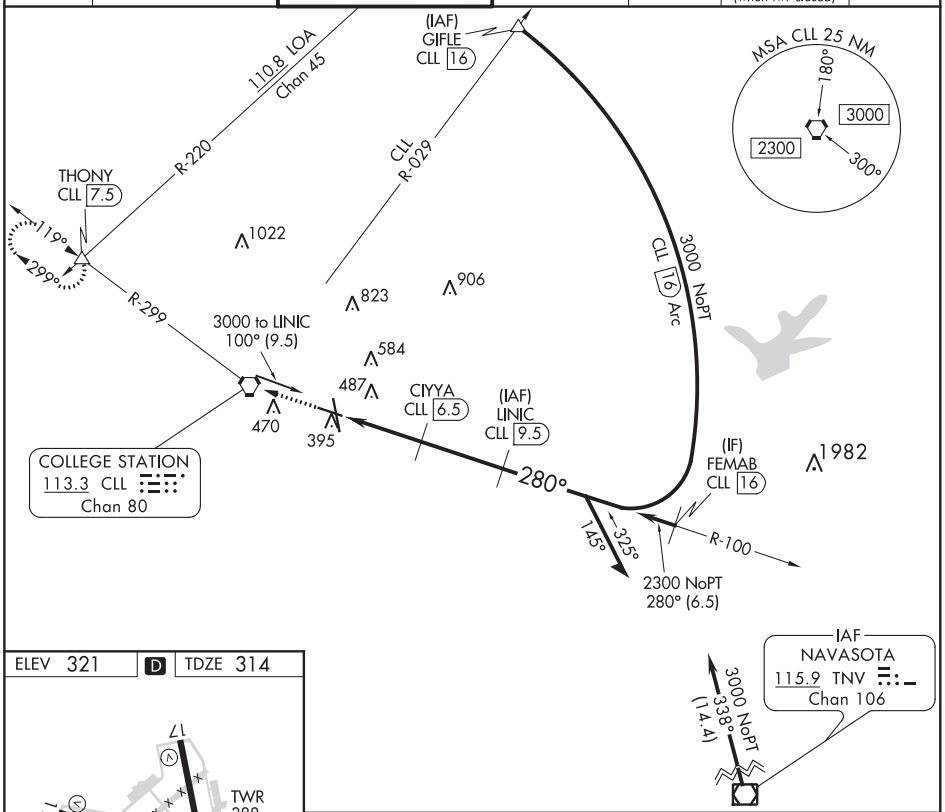
VORTAC CLL	APP CRS	Rwy ldg 5158
113.3	280°	TDZE 314
Chan 80		Apt Elev 321

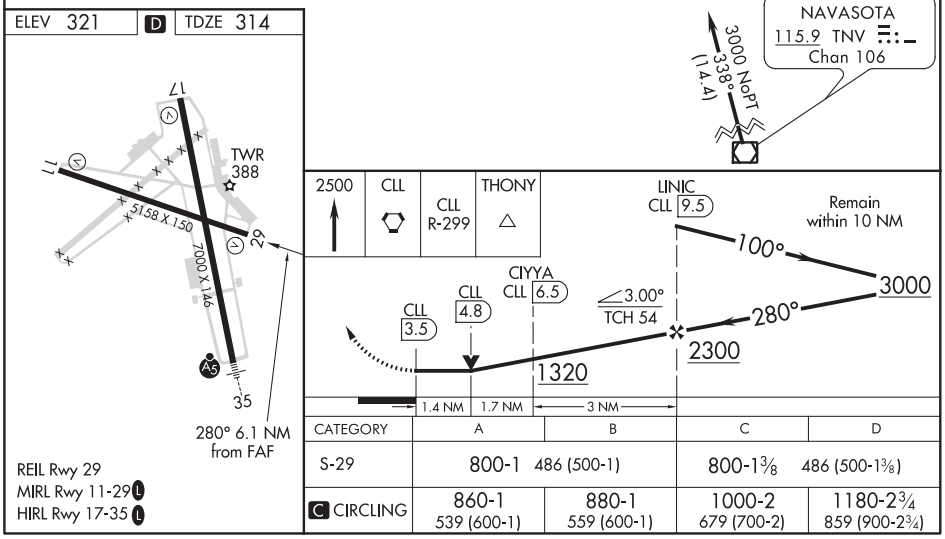
DME required for procedure entry. DME required.

Rwy 29 helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 2500 direct CLL VORTAC then on CLL VORTAC R-299 to THONY INT/CLL 7.5 DME and hold.

ATIS	HOUSTON APP CON	EASTERWOOD TOWER ★	GND CON	CLNC DEL	CLNC DEL (when twr closed)	UNICOM
126.85	134.3 360.85	118.5 (CTAF) L 284.7	128.7 284.7	128.7	120.4	122.95





REIL Rwy 29
MIRL Rwy 11-29 L
HIRL Rwy 17-35 L

CATEGORY	A	B	C	D
S-29	800-1 486 (500-1)		800-1⅜ 486 (500-1⅜)	
C CIRCLING	860-1 539 (600-1)	880-1 559 (600-1)	1000-2 679 (700-2)	1180-2¾ 859 (900-2¾)

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VOR or TACAN RWY 11
EASTERWOOD FIELD (CLL)

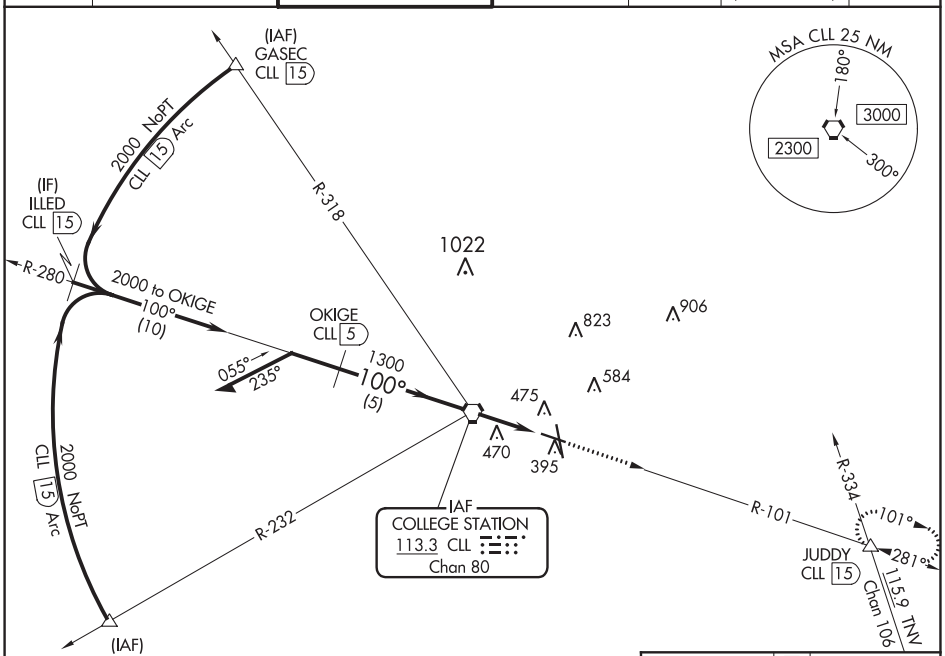
VORTAC CLL	APP CRS	Rwy ldg	5158
113.3	100°	TDZE	319
Chan 80		Apt Elev	321

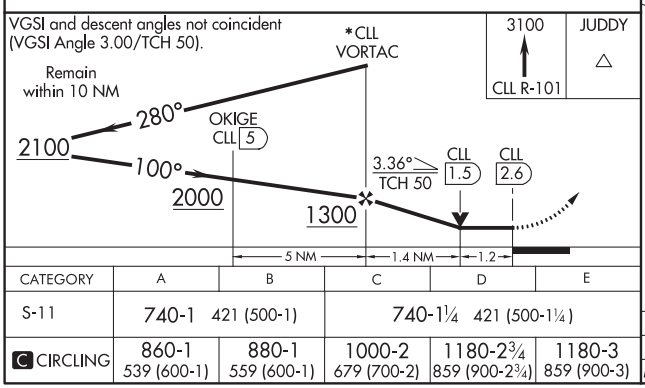
DME required for procedure entry.

T Rwy 11 helicopter visibility reduction below ¾ SM NA.
A * Procedure turn NA for Cat E.

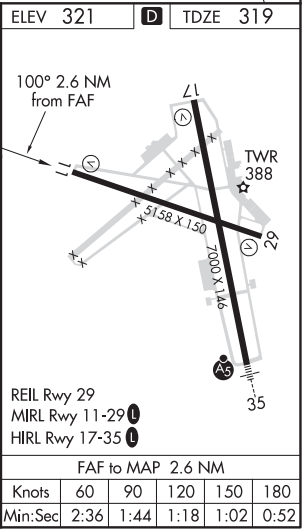
MISSED APPROACH: Climb to 3100 on CLL VORTAC R-101 to JUDDY INT/CLL 15 DME and hold.

ATIS	HOUSTON APP CON	EASTERWOOD TOWER*	GND CON	CLNC DEL	CLNC DEL (when twr closed)	UNICOM
126.85	134.3 360.85	118.5 (CTAF) L 284.7	128.7 284.7	128.7	120.4	122.95





CATEGORY	A	B	C	D	E
S-11	740-1 421 (500-1)		740-1¼ 421 (500-1¼)		
C CIRCLING	860-1 539 (600-1)	880-1 559 (600-1)	1000-2 679 (700-2)	1180-2¾ 859 (900-2¾)	1180-3 859 (900-3)



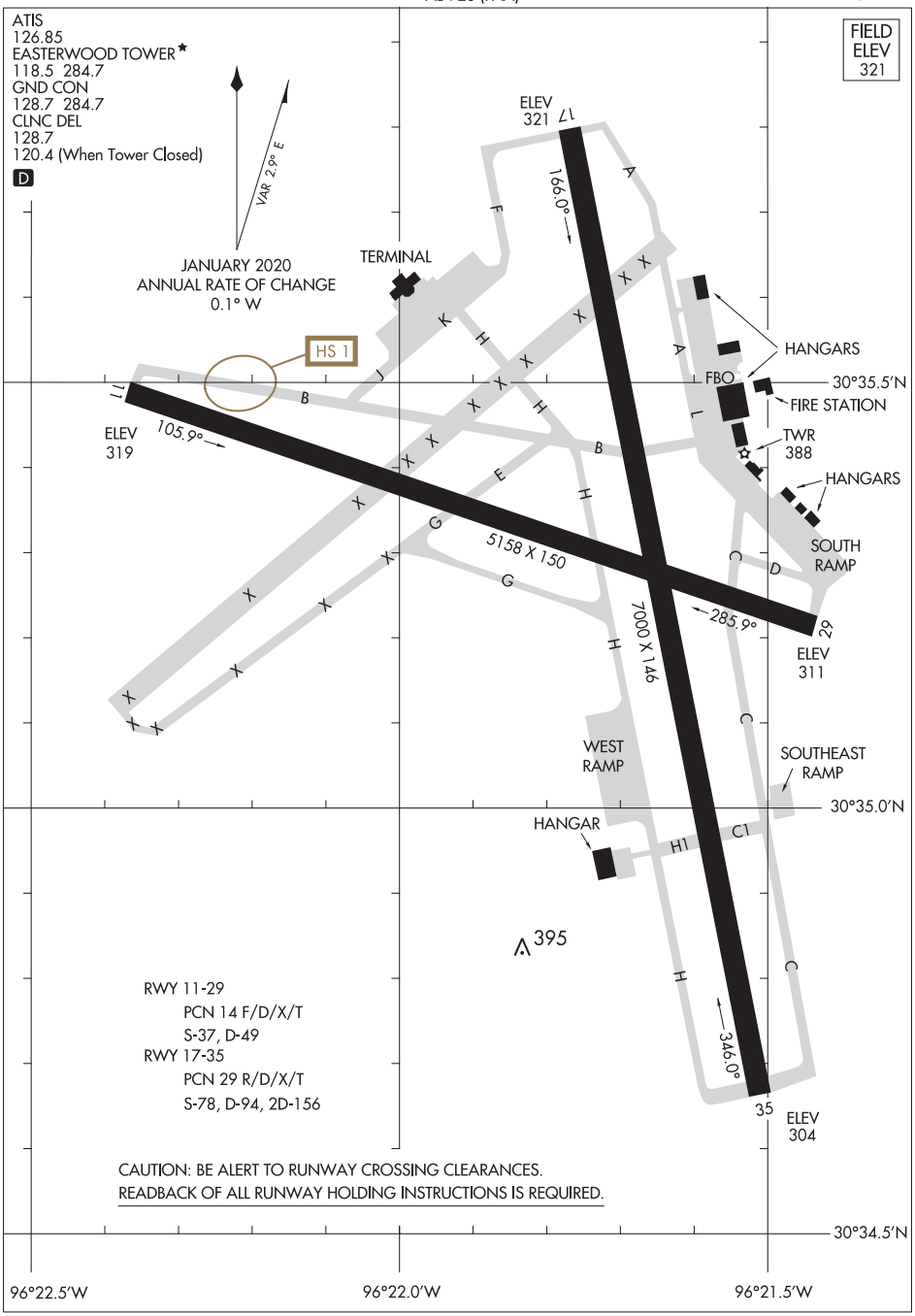
FAF to MAP 2.6 NM					
Knots	60	90	120	150	180
Min:Sec	2:36	1:44	1:18	1:02	0:52

20366

AIRPORT DIAGRAM

EASTERWOOD FIELD (CLL)
COLLEGE STATION, TEXAS

AL-928 (FAA)



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AIRPORT DIAGRAM
20366
COLLEGE STATION, TEXAS
EASTERWOOD FIELD (CLL)

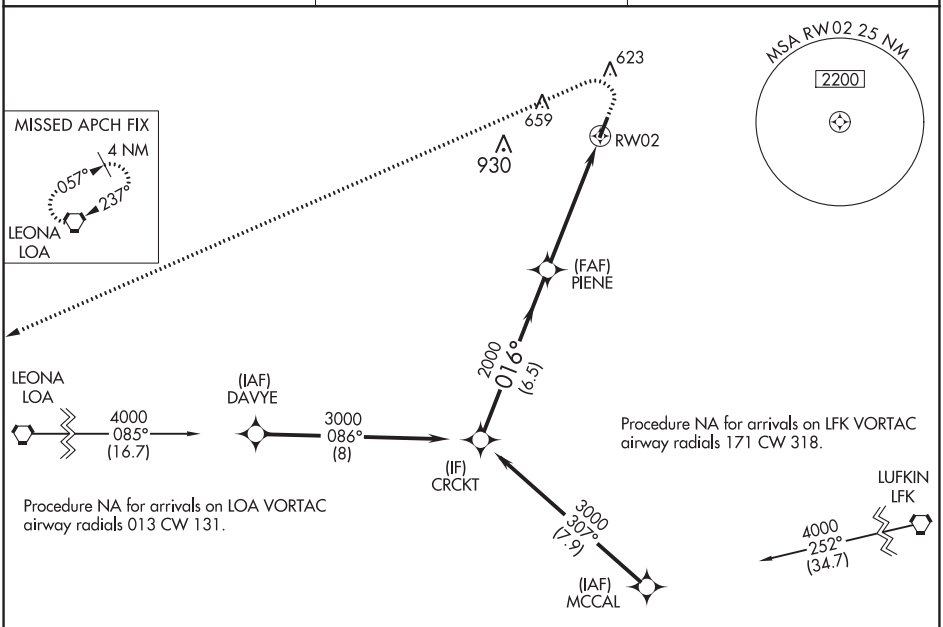
WAAS CH 53526 W02A	APP CRS 016°	Rwy ldg 4000 TDZE 341 Apt Elev 348

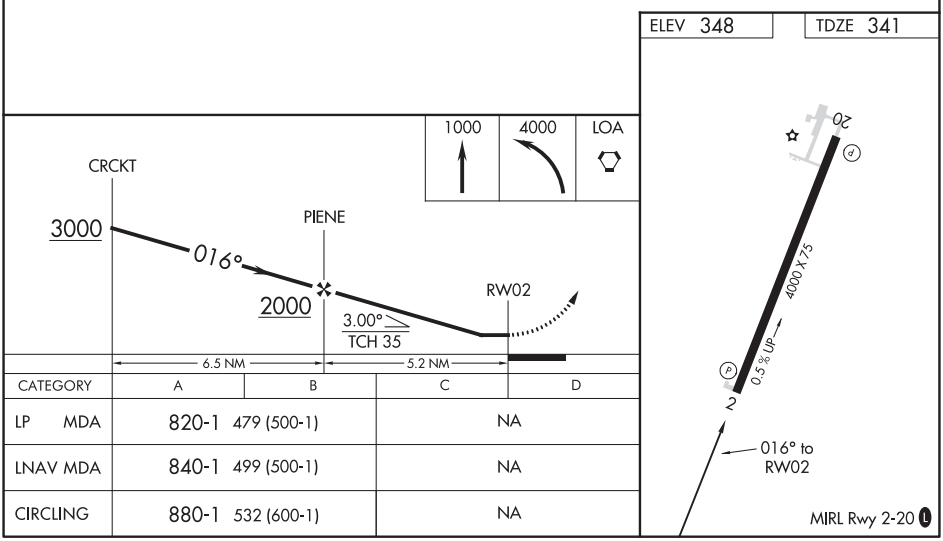
RNAV (GPS) RWY 2
HOUSTON COUNTY (DKR)

DME/DME RNP-0.3 NA. When local altimeter setting not received, use Palestine altimeter setting and increase all MDA 100 feet.
Procedure NA at night. Helicopter visibility reduction below 1 SM NA.

MISSED APPROACH: Climb to 1000 then climbing left turn to 4000 direct LOA VORTAC and hold.

AWOS-3	HOUSTON CENTER	CTAF
118.775	134.8 269.6	122.9 L





CATEGORY	A	B	C	D
LP MDA	820-1 479 (500-1)		NA	
LNAV MDA	840-1 499 (500-1)		NA	
CIRCLING	880-1 532 (600-1)		NA	

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CROCKETT, TEXAS

AL-9412 (FAA)

20198

RNAV (GPS) RWY 20
HOUSTON COUNTY (DKR)

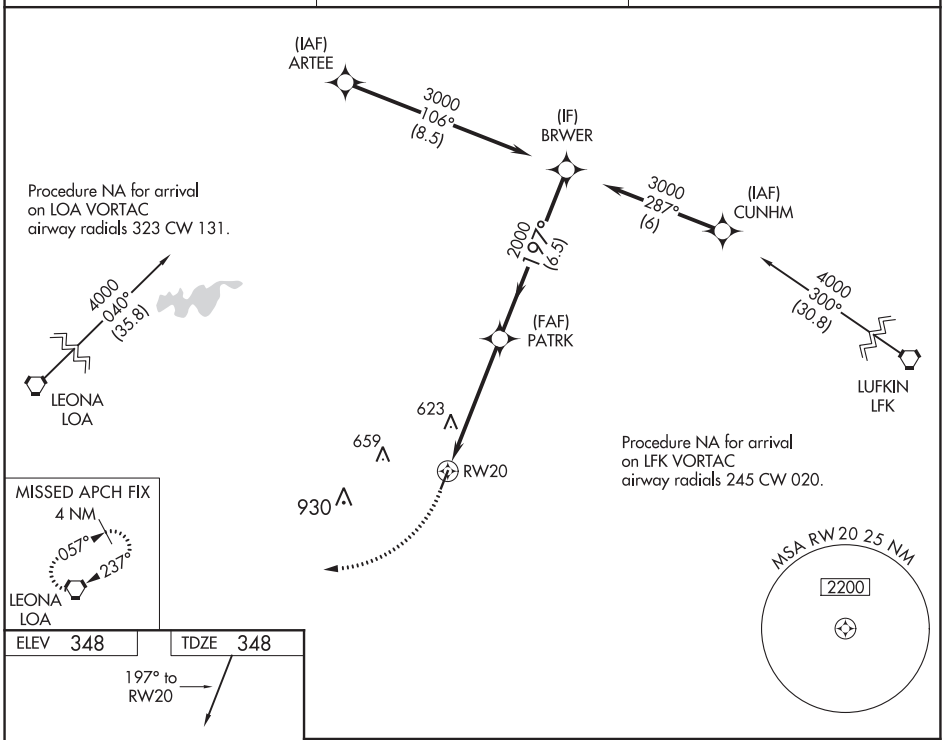
WAAS CH 65826 W20A	APP CRS 197°	Rwy ldg 4000 TDZE 348 Apt Elev 348

RNP APCH.

Procedure NA at night.
Rwy 20 helicopter visibility reduction below 1 SM NA.

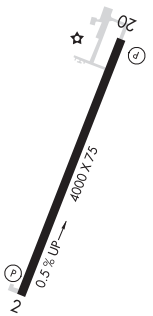
MISSED APPROACH: Climbing right turn to 4000 direct LOA VORTAC and hold.

AWOS-3	HOUSTON CENTER	CTAF
118.775	134.8 269.6	122.9 L

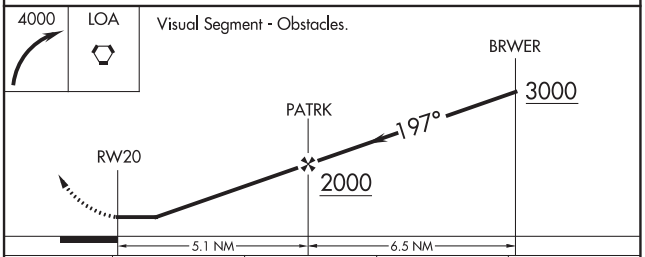


ELEV 348	TDZE 348

197° to RW20



MIRL Rwy 2-20 L



CATEGORY	A	B	C	D
LP MDA	880-1 532 (600-1)		NA	
LNAV MDA	900-1 552 (600-1)		NA	
C CIRCLING	900-1 552 (600-1)	980-1 632 (700-1)	NA	

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CROCKETT, TEXAS
Amdt 1 20JUN19

31°18'N-95°24'W

HOUSTON COUNTY (DKR)
RNAV (GPS) RWY 20

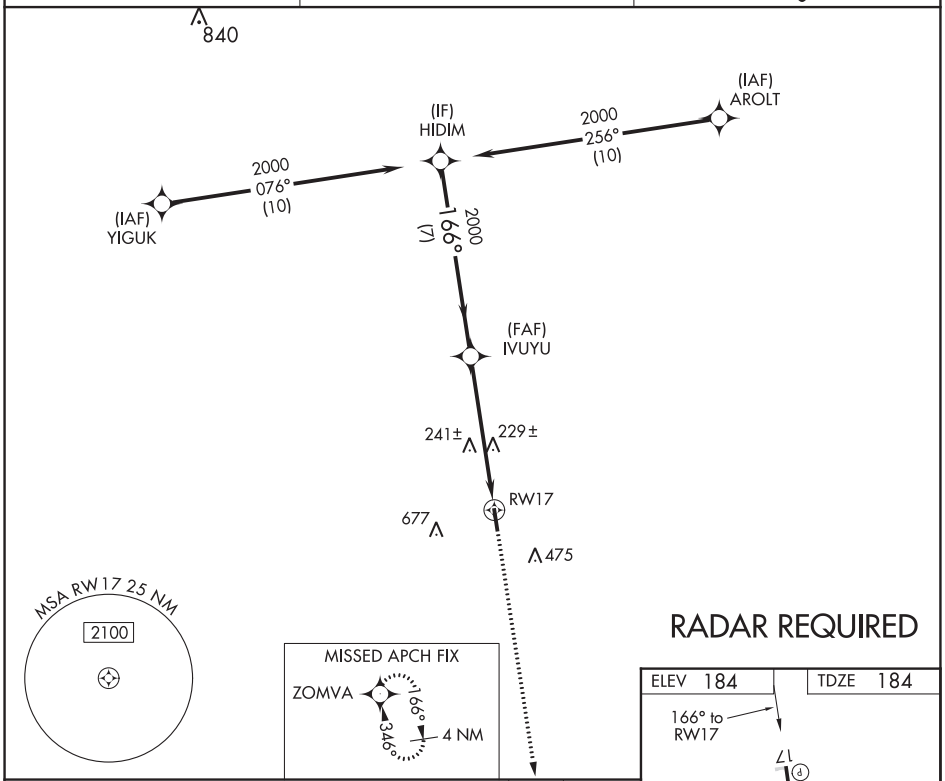
WAAS CH 40229 W17A	APP CRS 166°	Rwy ldg 4280 TDZE 184 Apt Elev 184

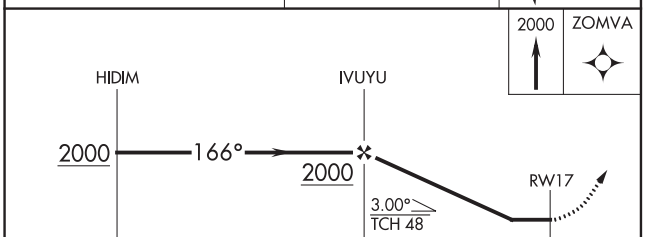
RNAV (GPS) RWY 17
EAGLE LAKE (ELA)

When VGSI inop, procedure NA at night. DME/DME RNP-0.3 NA.
Helicopter visibility reduction below 1 SM NA.
When local altimeter setting not received, use Sugar Land Rgnl altimeter setting.

MISSED APPROACH: Climb to 2000 direct ZOMVA and hold.

AWOS-3PT	HOUSTON APP CON	CTAF
128.475	124.225 306.975	122.9 L





CATEGORY	A	B	C	D
LP MDA	580-1 396 (400-1)		580-1⅛ 396 (400-1⅛)	NA
LNAV MDA	600-1 416 (500-1)		600-1⅛ 416 (500-1⅛)	NA
CIRCLING	860-1 676 (700-1)		860-2 676 (700-2)	NA

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EAGLE LAKE, TEXAS | AL-5270 (FAA) | 19339

RNAV (GPS) RWY 35
EAGLE LAKE (ELA)

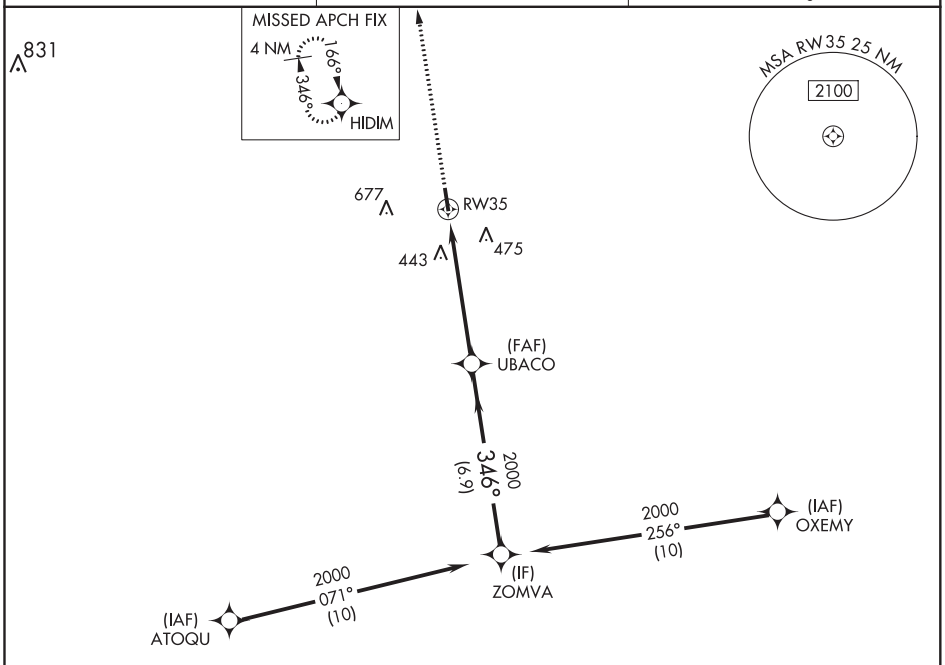
WAAS CH 45729 W35A	APP CRS 346°	Rwy ldg 4280 TDZE 184 Apt Elev 184

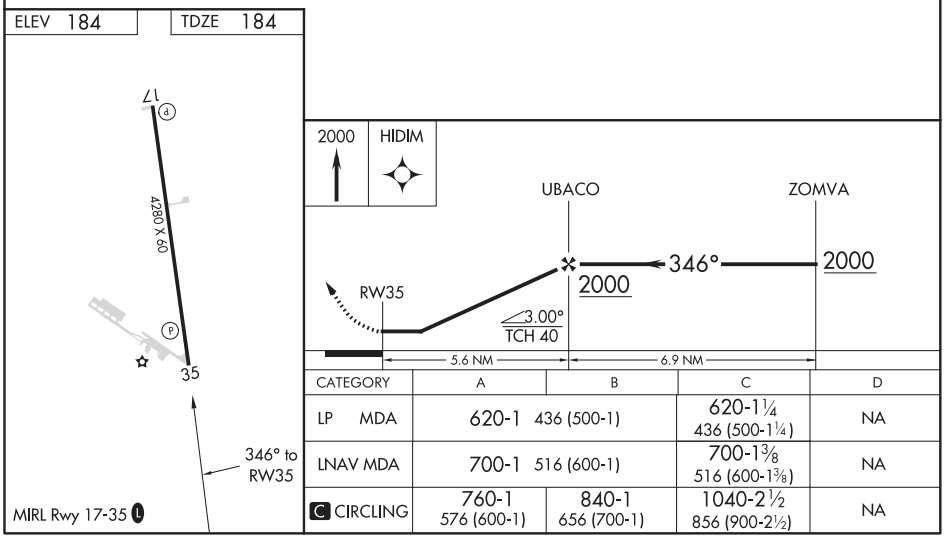
RNP APCH.

Rwy 35 helicopter visibility reduction below 1 SM NA.
Straight-in and Circling Rwy 35 NA at night.

MISSED APPROACH: Climb to 2000 direct HIDIM and hold.

AWOS-3PT	HOUSTON APP CON	CTAF
128.475	124.225 306.975	122.9 L





CATEGORY	A	B	C	D
LP MDA	620-1 436 (500-1)		620-1¼ 436 (500-1¼)	NA
LNAV MDA	700-1 516 (600-1)		700-1⅜ 516 (600-1⅜)	NA
C CIRCLING	760-1 576 (600-1)	840-1 656 (700-1)	1040-2½ 856 (900-2½)	NA

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VOR ELA 116.4 Chan 111	APP CRS 177°	Rwy ldg 4280 TDZE 184 Apt Elev 184

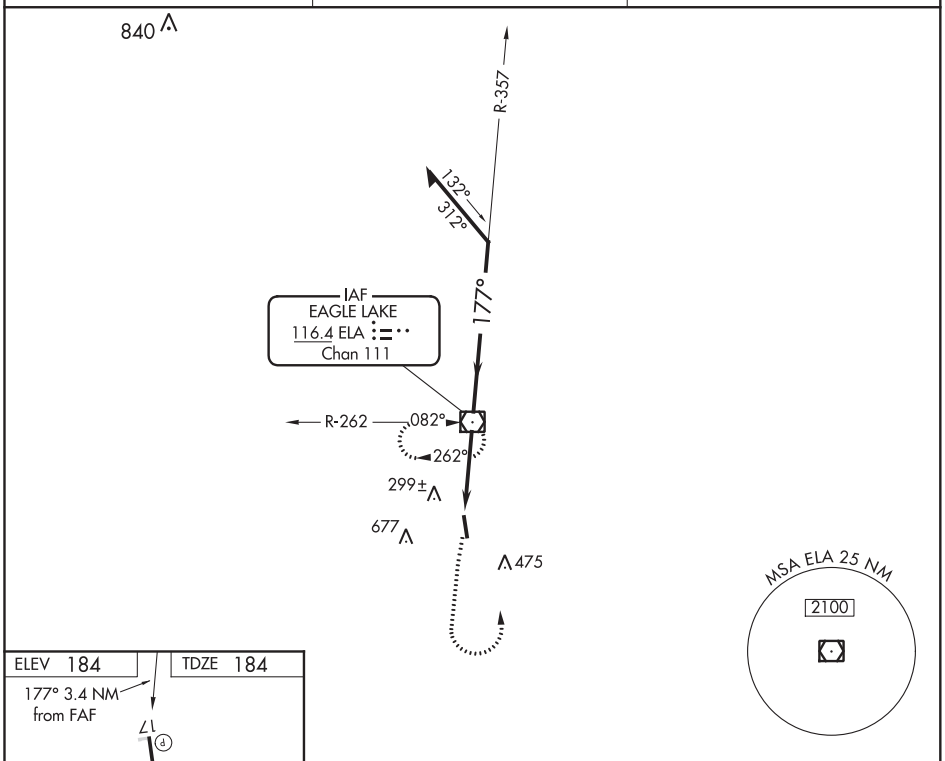
VOR RWY 17
EAGLE LAKE (ELA)

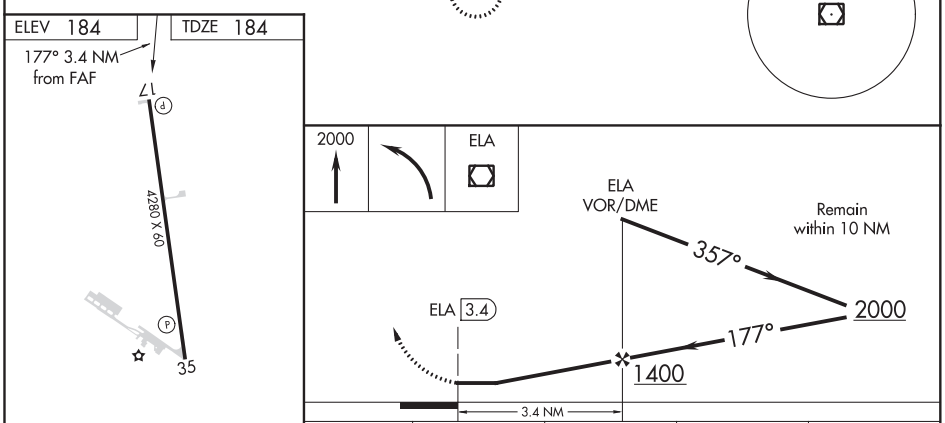
NA

When local altimeter setting not received, use Sugar Land Rgnl altimeter setting.

MISSED APPROACH: Climb to 2000, then left turn direct ELA VOR/DME and hold.

AWOS-3PT	HOUSTON APP CON	CTAF
128.475	124.225 306.975	122.9 L





MIRL Rwy 17-35 L

FAF to MAP 3.4 NM					
Knots	60	90	120	150	180
Min:Sec	3:24	2:16	1:42	1:22	1:08

CATEGORY	A	B	C	D
S-17	660-1	476 (500-1)	660-1¼ 476 (500-1¼)	NA
CIRCLING	860-1	676 (700-1)	860- 2 676 (700-2)	NA

SC-5, 25 FEB 2021 to 22 APR 2021
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EDNA,TEXAS

AL-6468 (FAA)

19283

RNAV (GPS)-A

JACKSON COUNTY (26R)

APP CRS	Rwy ldg	N/A
147°	TDZE	N/A
	Apt Elev	61

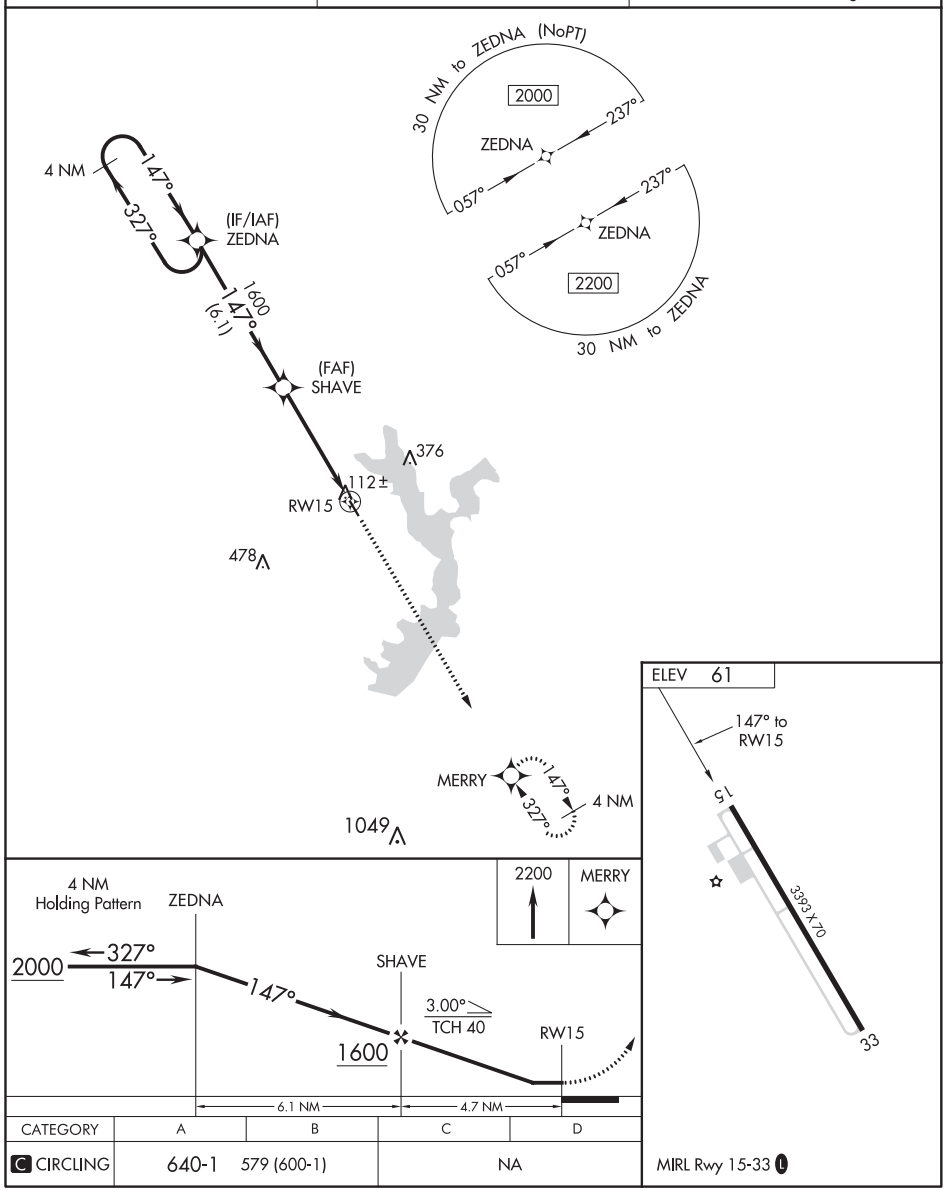
RNP APCH.

T Use Victoria altimeter setting; when not received, use Port Lavaca altimeter setting.

NA

MISSED APPROACH: Climb to 2200 direct MERRY and hold.

VCT ASOS	HOUSTON CENTER	UNICOM
119.025	128.6 360.8	122.8 (CTAF) L



CATEGORY	A	B	C	D
C CIRCLING	640-1	579 (600-1)	NA	

MIRL Rwy 15-33 L

SC-5, 25 FEB 2021 to 22 APR 2021

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RNAV (GPS)-B
JACKSON COUNTY (26R)

APP CRS	Rwy ldg	N/A
327°	TDZE	N/A
	Apt Elev	61

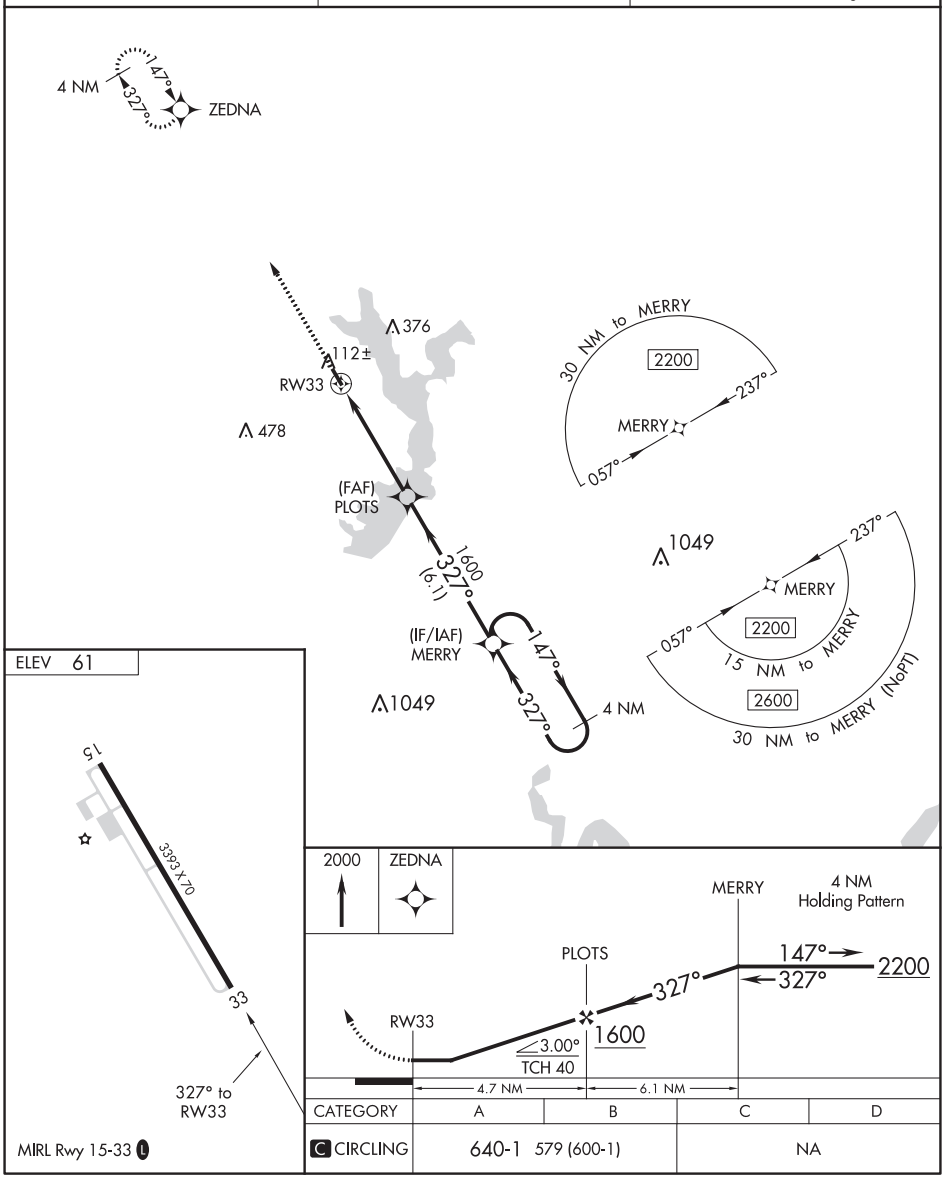
RNP APCH.

Use Victoria altimeter setting; when not received, use Port Lavaca altimeter setting.

NA

MISSED APPROACH: Climb to 2000 direct ZEDNA and hold.

VCT ASOS	HOUSTON CENTER	UNICOM
119.025	128.6 360.8	122.8 (CTAF) L



CATEGORY	A	B	C	D
C CIRCLING	640-1 579 (600-1)		NA	

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GALVESTON, TEXAS

AL-164 (FAA)

20142

ILS or LOC RWY 14
SCHOLES INTL AT GALVESTON (GLS)

LOC I-GLS	APP CRS	Rwy ldg	6000
111.7	138°	TDZE	5
		Apt Elev	6

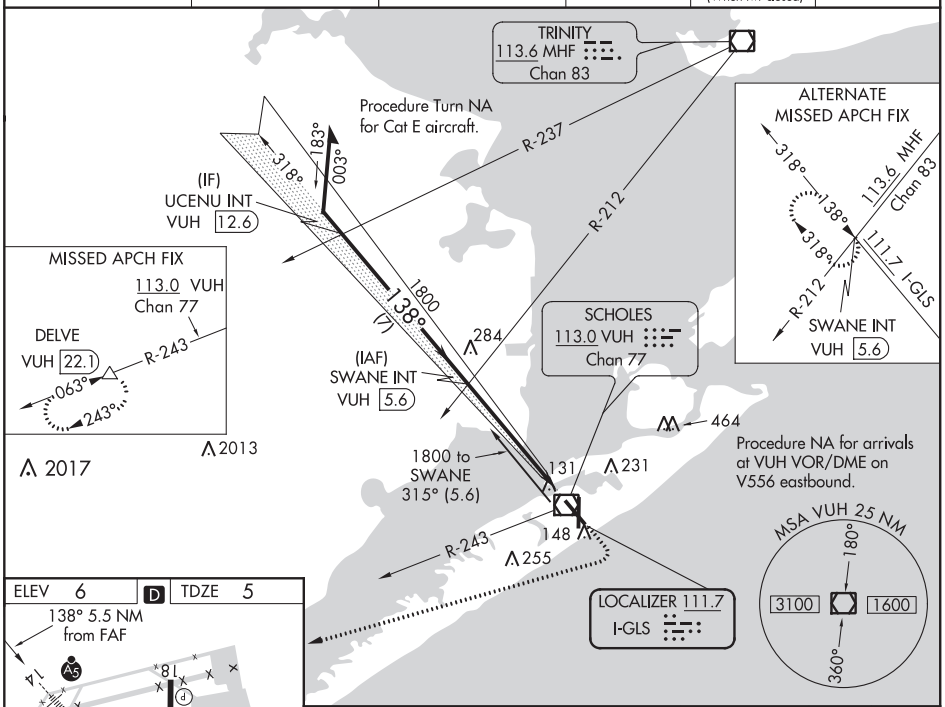
DME required.
RADAR required for procedure entry at UCENU.

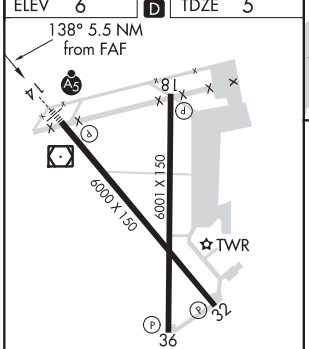
T A NA Circling NA east of Rwy 18 and northeast of Rwy 32. DME from VUH VOR/DME. Simultaneous reception of I-GLS and VUH DME required. For inop ALS, increase S-ILS 14 Cat E visibility to ¾ SM and S-LOC 14 Cat E visibility to 1⅜ SM.

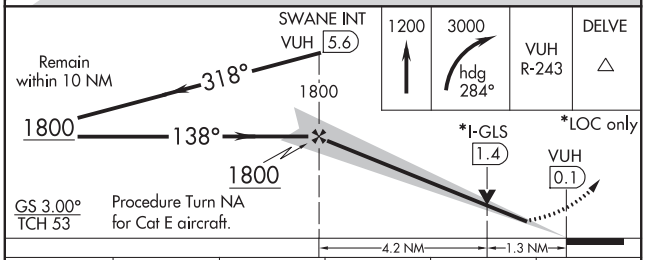
MALSR A6

MISSED APPROACH: Climb to 1200 then climbing right turn to 3000 on heading 284° and VUH VOR/DME R-243 to DELVE/22.1 DME and hold.

ASOS	HOUSTON APP CON	GALVESTON TOWER★	GND CON	CLNC DEL	UNICOM
119.275	134.45 284.0	120.575 (CTAF) L	118.625	135.35 (When twr closed)	123.05







CATEGORY	A	B	C	D	E
S-ILS 14	205-½ 200 (200-½)				
S-LOC 14	460-½ 455 (500-½)		460-⅞ 455 (500-⅞)		
CIRCLING	500-1 494 (500-1)		500-1½ 494 (500-1½)	560-2 554 (600-2)	620-2¼ 614 (700-2¼)

REIL Rwys 18, 32, and 36
MIRL Rwy 18-36
HIRL Rwy 14-32

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RNAV (GPS) RWY 14
SCHOLES INTL AT GALVESTON (GLS)

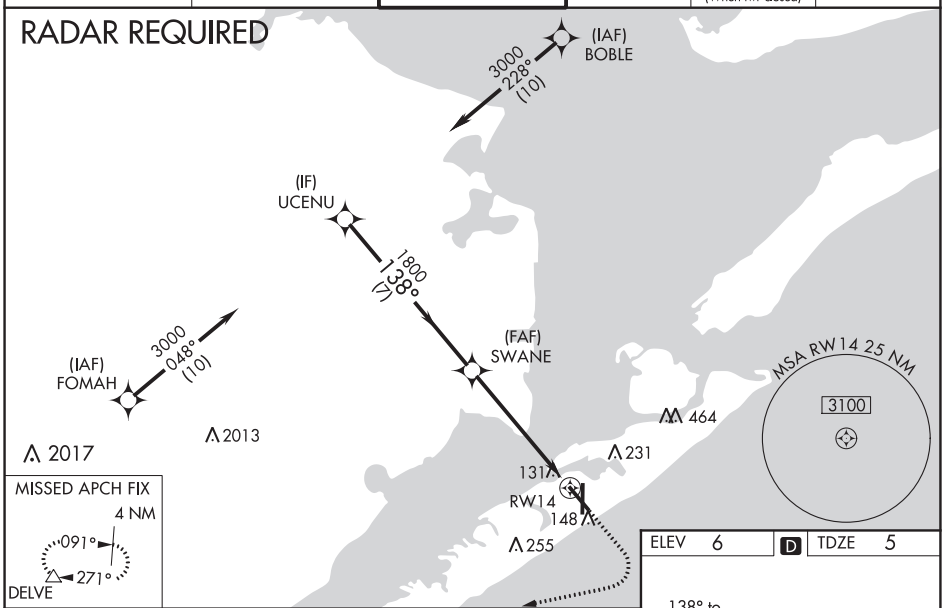
WAAS CH 65606 W14A	APP CRS 138°	Rwy ldg 6000 TDZE 5 Apt Elev 6

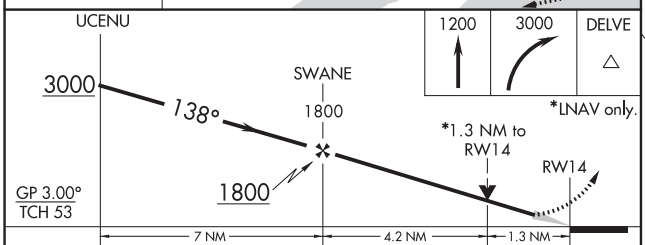
T A Baro-VNAV and VDP NA when using William P Hobby altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below 1°C (34°F) or above 54°C (130°F). Circling NA east of Rwy 18 and northeast of Rwy 32. DME/DME RNP-0.3 NA. When local altimeter setting not received, use William P Hobby altimeter setting and increase all DA 79 feet and all MDA 80 feet. Increase LNAV/VNAV all Cats visibility to ⅞ mile, LNAV Cats C/D/E visibility to 1 mile, and Circling Cat E visibility to 2½ mile. For inop MALSR, increase LPV Cat E visibility to ¾, LNAV/VNAV Cat E visibility to 1⅛, and LNAV Cat E visibility to 1⅜ mile. For inop MALSR when using William P Hobby altimeter setting, increase LPV all Cats visibility to ⅞ mile, LNAV Cat E visibility to 1½ mile.

MALSR A5

MISSED APPROACH: Climb to 1200 then climbing right turn to 3000 direct DELVE and hold.

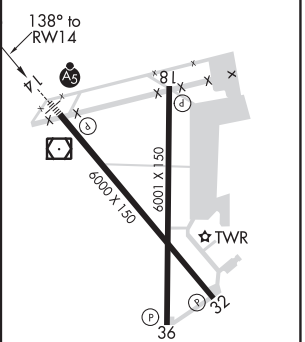
ASOS	HOUSTON APP CON	GALVESTON TOWER ★	GND CON	CLNC DEL	UNICOM
119.275	134.45 284.0	120.575 (CTAF) L	118.625	135.35 (When twr closed)	123.05





CATEGORY	A	B	C	D	E
LPV DA	205-½ 200 (200-½)				
LNAV/VNAV DA	342-⅝ 337 (400-⅝)				
LNAV MDA	460-½ 455 (500-½)		460-⅞ 455 (500-⅞)		
CIRCLING	500-1 494 (500-1)		500-1½ 494 (500-1½)	560-2 554 (600-2)	620-2¼ 614 (700-2¼)

ELEV 6 D TDZE 5



REIL Rwys 18, 32, and 36
MIRL Rwy 18-36
HIRL Rwy 14-32

GALVESTON, TEXAS

AL-164 (FAA)

20142

WAAS CH 82301 W18A	APP CRS 179°	Rwy ldg 6001 TDZE 6 Apt Elev 6

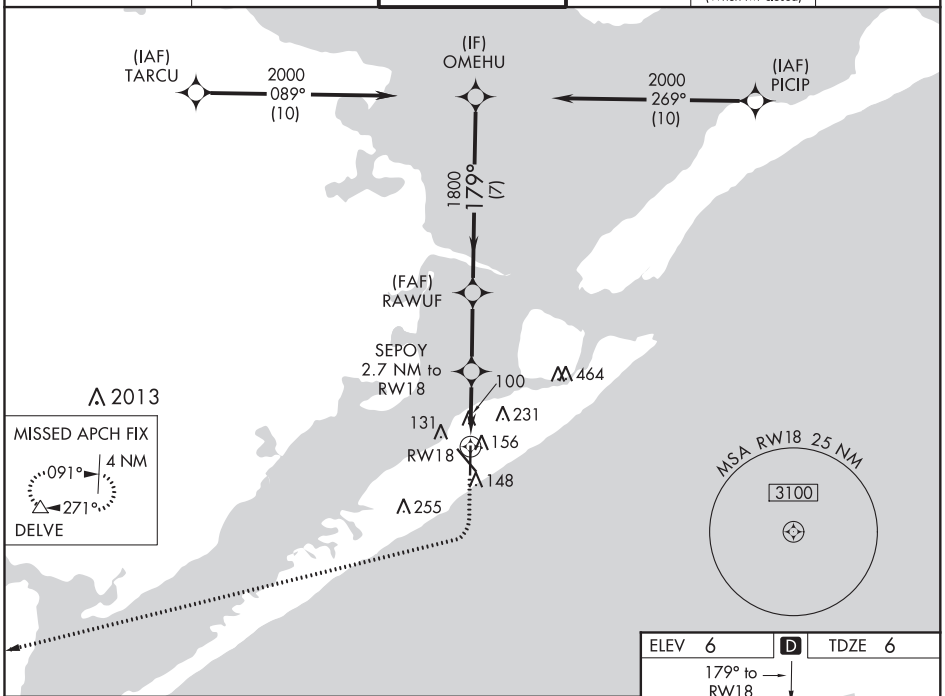
RNAV (GPS) RWY 18
SCHOLES INTL AT GALVESTON (GLS)

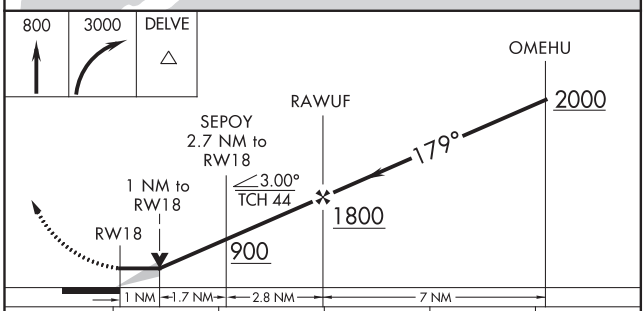
RNP APCH.

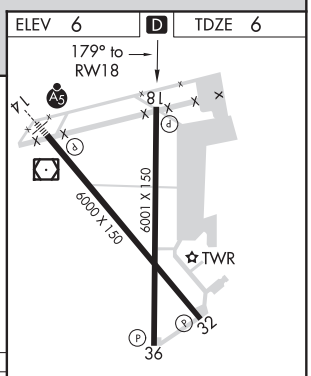
Circling NA east of Rwy 18 and northeast of Rwy 32.

MISSED APPROACH: Climb to 800 then climbing right turn to 3000 direct DELVE and hold.

ASOS	HOUSTON APP CON	GALVESTON TOWER ★	GND CON	CLNC DEL	UNICOM
119.275	134.45 284.0	120.575 (CTAF) L	118.625	135.35 (When twr closed)	123.05







CATEGORY	A	B	C	D	E
LP MDA	360-1 354 (400-1)				
LNAV MDA	420-1 414 (500-1)		420-1⅛ 414 (500-1⅛)		
CIRCLING	500-1 494 (500-1)		500-1½ 494 (500-1½)	560-2 554 (600-2)	620-2¼ 614 (700-2¼)

REIL Rwys 18, 32 and 36
MIRL Rwy 18-36
HIRL Rwy 14-32

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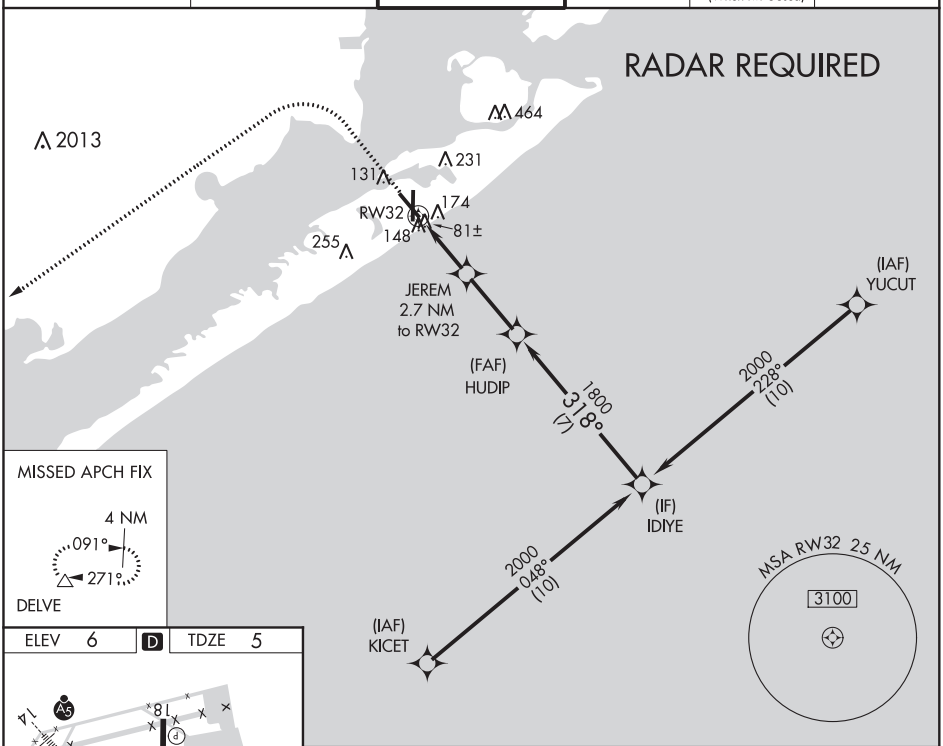
RNAV (GPS) RWY 32
SCHOLES INTL AT GALVESTON (GLS)

WAAS CH 40101 W32A	APP CRS 318°	Rwy ldg 6000 TDZE 5 Apt Elev 6

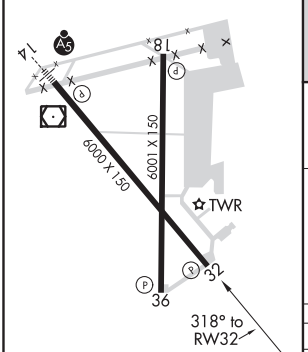
Circling NA east of Rwy 18 and northeast of Rwy 32. DME/DME RNP-0.3 NA. Helicopter visibility reduction below ¾ SM NA. VDP NA with William P Hobby altimeter setting. When local altimeter setting not received, use William P Hobby altimeter setting and increase all MDA 80 feet. Increase LP Cat C/D/E visibility to 1⅛, increase LNAV Cat C/D/E visibility to 1⅜ and increase Cat E Circling visibility to 2½.

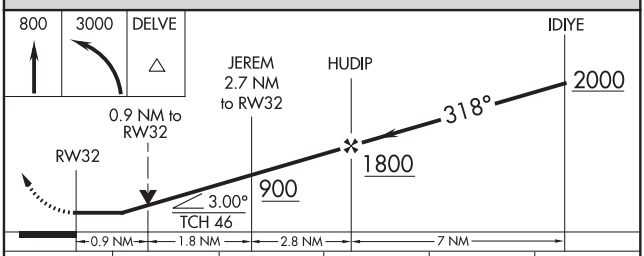
MISSED APPROACH: Climb to 800 then climbing left turn to 3000 direct DELVE and hold.

ASOS	HOUSTON APP CON	GALVESTON TOWER ★	GND CON	CLNC DEL	UNICOM
119.275	134.45 284.0	120.575 (CTAF) L	118.625	135.35 (When twr closed)	123.05



ELEV 6 | D | TDZE 5





CATEGORY	A	B	C	D	E
LP MDA	340-1 335 (400-1)				
LNAV MDA	440-1 435 (500-1)		440-1¼ 435 (500-1¼)		
CIRCLING	500-1 494 (500-1)		500-1½ 494 (500-1½)	560-2 554 (600-2)	620-2¼ 614 (700-2¼)

REIL Rwys 18, 32 and 36
MIRL Rwy 18-36
HIRL Rwy 14-32

SC-5, 25 FEB 2021 to 22 APR 2021

SC-5, 25 FEB 2021 to 22 APR 2021

GALVESTON, TEXAS

AL-164 (FAA)

20142

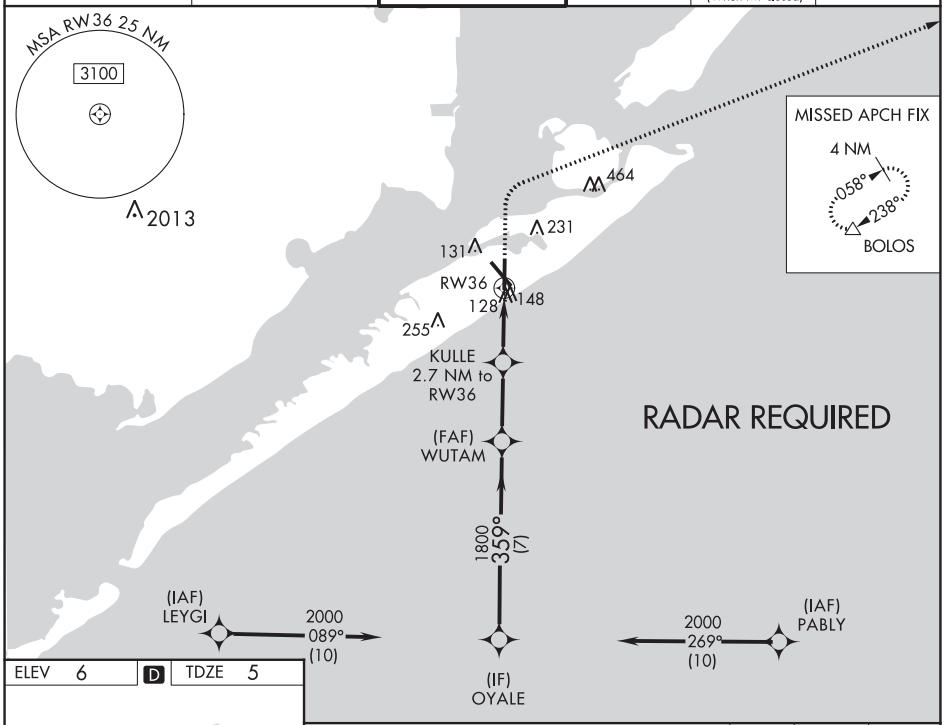
RNAV (GPS) RWY 36
SCHOLES INTL AT GALVESTON (GLS)

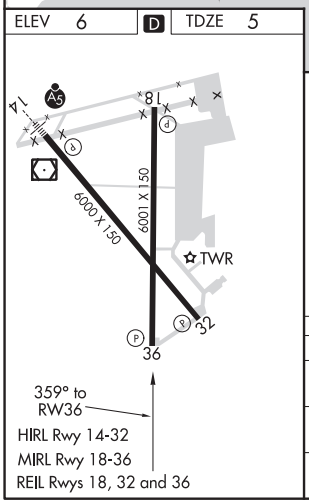
WAAS CH 48831 W36A	APP CRS 359°	Rwy ldg 6001 TDZE 5 Apt Elev 6

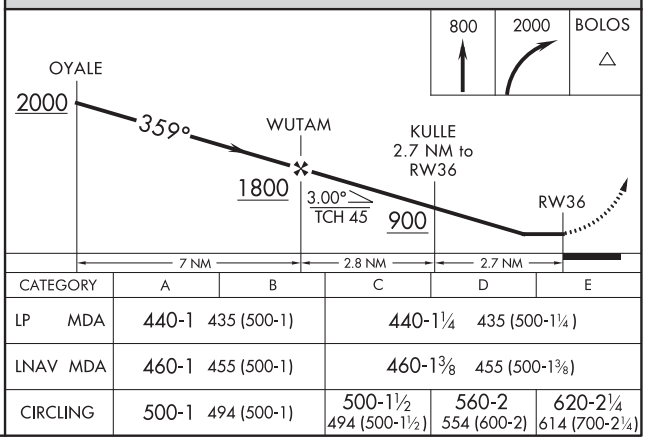
When VGSI inop, Straight-in/Circling Rwy 36 procedure NA at night. Circling NA east of Rwy 18 and northeast of Rwy 32. DME/DME RNP-0.3 NA. Helicopter visibility reduction below 1 SM NA. When local altimeter setting not received, use William P Hobby altimeter setting and increase all MDA 80 feet. Increase LP Cat C/D/E visibility to 1⅜ mile, LNAV Cat C/D/E visibility to 1½ mile, and Circling Cat E visibility to 2½ mile.

MISSED APPROACH: Climb to 800 then climbing right turn to 2000 direct BOLOS and hold.

ASOS	HOUSTON APP CON	GALVESTON TOWER ★	GND CON	CLNC DEL	UNICOM
119.275	134.45 284.0	120.575 (CTAF)	118.625	135.35 (When twr closed)	123.05







CATEGORY	A	B	C	D	E
LP MDA	440-1 435 (500-1)		440-1¼ 435 (500-1¼)		
LNAV MDA	460-1 455 (500-1)		460-1⅜ 455 (500-1⅜)		
CIRCLING	500-1 494 (500-1)		500-1½ 494 (500-1½)	560-2 554 (600-2)	620-2¼ 614 (700-2¼)

GALVESTON, TEXAS
Amdt 1A 02APR15

29°16′N-94°52′W

SCHOLES INTL AT GALVESTON (GLS)
RNAV (GPS) RWY 36

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SC-5, 25 FEB 2021 to 22 APR 2021

VOR/DME VUH 113.0 Chan 77	APP CRS 143°	Rwy ldg 6000 TDZE 5 Apt Elev 6

VOR RWY 14
SCHOLES INTL AT GALVESTON (GLS)

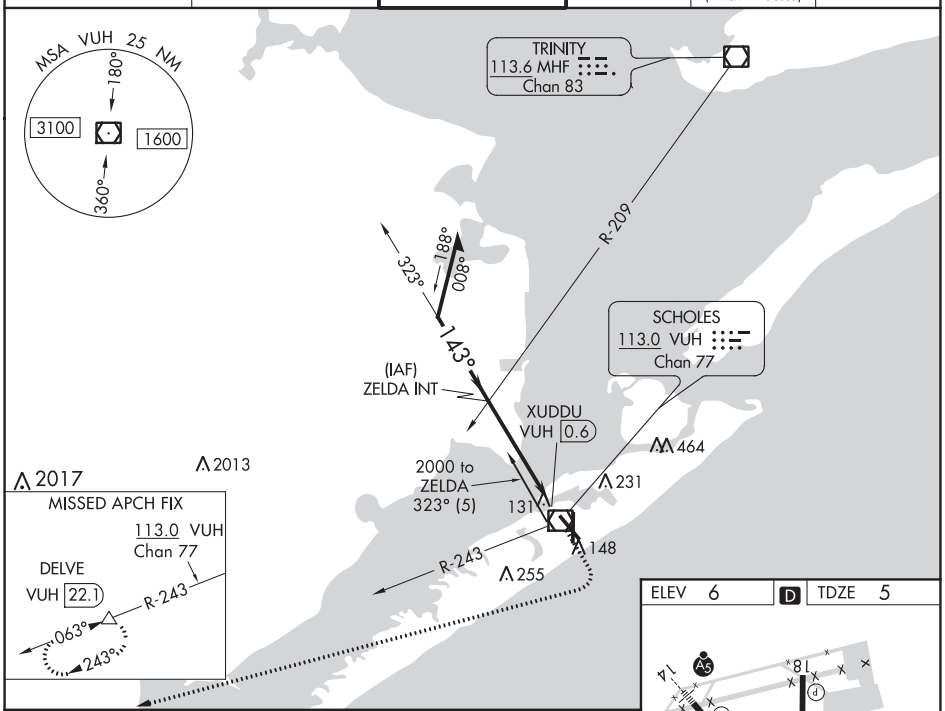
DME and RADAR required.

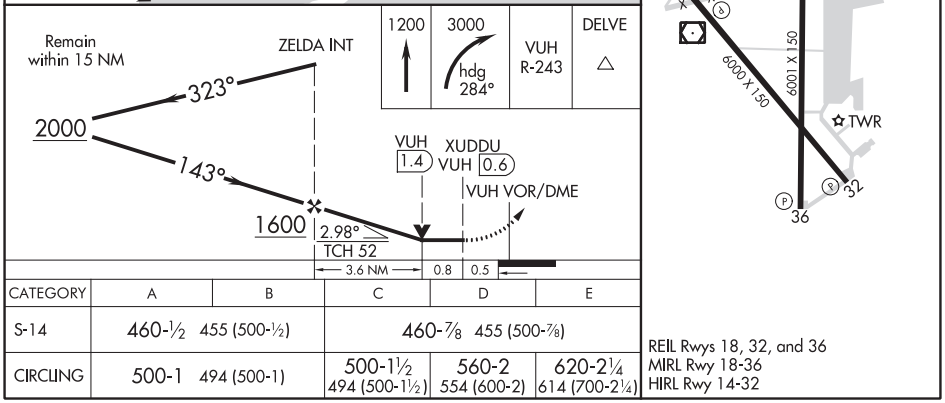
T
A NA
Circling NA east of Rwy 18 and northeast of Rwy 32.

MALSR

MISSED APPROACH: Climb to 1200 then climbing right turn to 3000 on heading 284° and VUH VOR/DME R-243 to DELVE/22.1 DME and hold.

ASOS	HOUSTON APP CON	GALVESTON TOWER ★	GND CON	CLNC DEL	UNICOM
119.275	134.45 284.0	120.575 (CTAF) L	118.625	135.35 (When twr closed)	123.05





CATEGORY	A	B	C	D	E
S-14	460-½ 455 (500-½)		460-⅞ 455 (500-⅞)		
CIRCLING	500-1 494 (500-1)		500-1½ 494 (500-1½)	560-2 554 (600-2)	620-2¼ 614 (700-2¼)

REIL Rwys 18, 32, and 36
MIRL Rwy 18-36
HIRL Rwy 14-32

SC-5, 25 FEB 2021 to 22 APR 2021

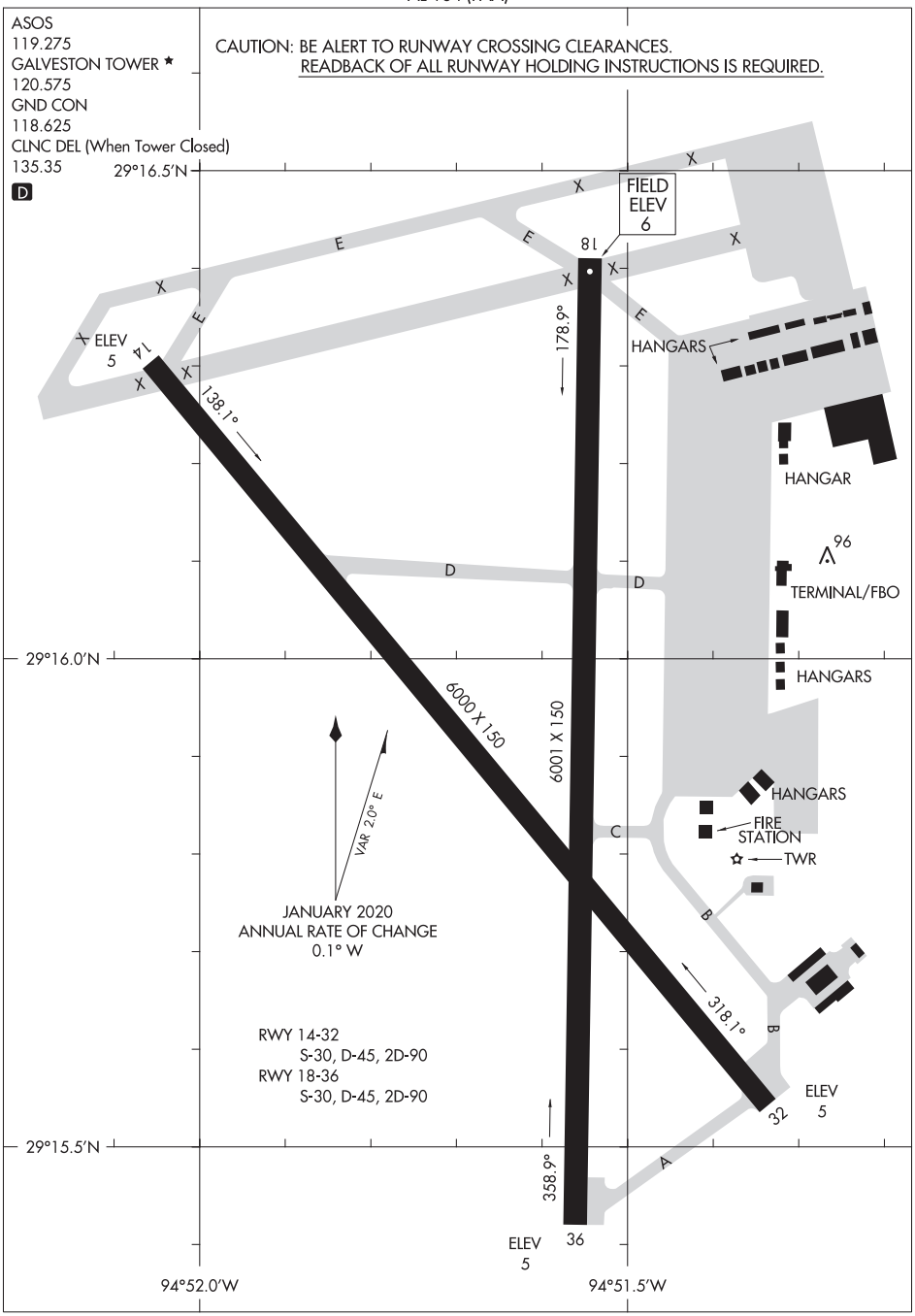
SC-5, 25 FEB 2021 to 22 APR 2021

20086

AIRPORT DIAGRAM

AL-164 (FAA)

SCHOLES INTL AT GALVESTON (GLS)
GALVESTON, TEXAS

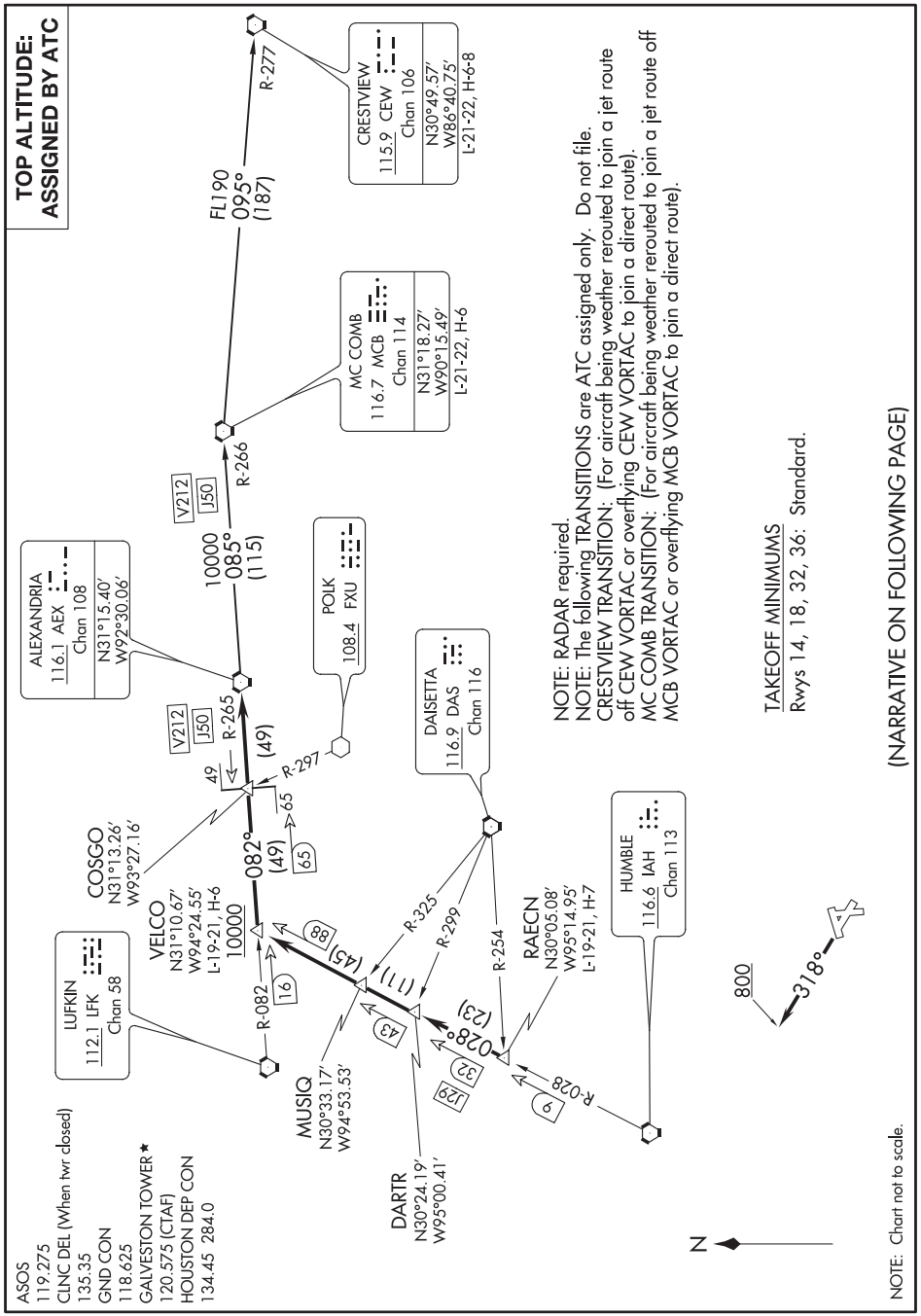


SC-5, 25 FEB 2021 to 22 APR 2021

SC-5, 25 FEB 2021 to 22 APR 2021

AIRPORT DIAGRAM
20086
GALVESTON, TEXAS
SCHOLES INTL AT GALVESTON (GLS)

ALEXANDRIA TWO DEPARTURE



SC-5, 25 FEB 2021 to 22 APR 2021

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWYS 14, 18, 36: When entering controlled airspace, climb on assigned heading for RADAR vectors to RAECN INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .

TAKEOFF RWY 32: Climb heading 318° to 800 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to RAECN INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .

. . . . on IAH R-028 to VELCO INT, cross VELCO INT at or above 10000, then right turn on LFK R-082 and AEX R-265 to AEX VORTAC.

CRESTVIEW TRANSITION (AEX2.CEW): From over AEX VORTAC on AEX R-085 and MCB R-266 to MCB VORTAC, then on MCB R-095 and CEW R-277 to CEW VORTAC.

MC COMB TRANSITION (AEX2.MCB): From over AEX VORTAC on AEX R-085 and MCB R-266 to MCB VORTAC.

BLTWY SIX DEPARTURE (RNAV)

TOP ALTITUDE: ASSIGNED BY ATC

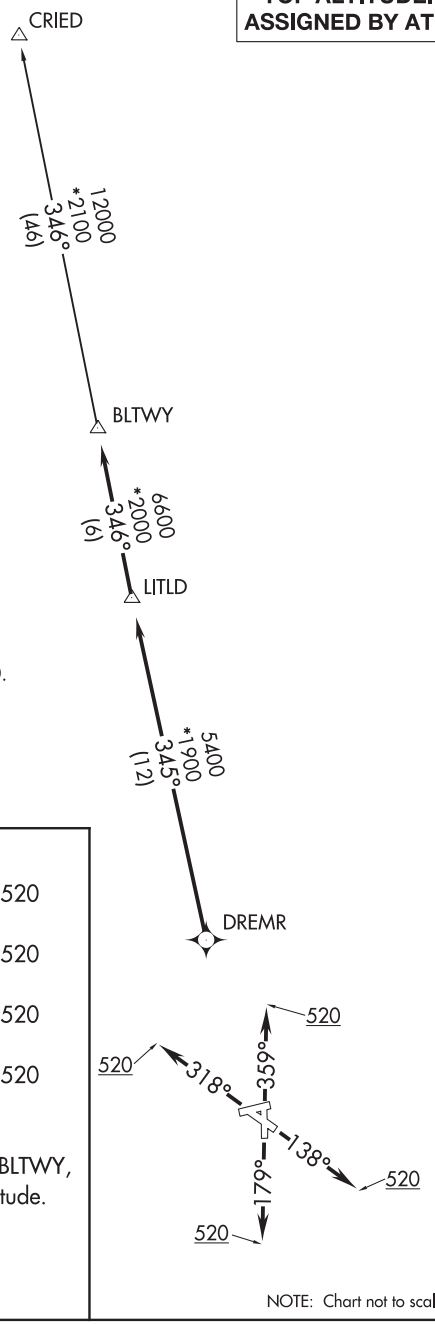
ASOS
119.275
CLNC DEL (When twr closed)
135.35
GND CON
118.625
GALVESTON TOWER *
120.575 (CTAF)
HOUSTON DEP CON
134.45 284.0

NOTE: RADAR required.

NOTE: DME/DME/IRU or GPS required.

NOTE: RNAV 1.

TAKEOFF MINIMUMS
Rwys 14, 18, 32, 36:
Standard with minimum climb of 500′ per NM to 520.



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 14: Climb on heading 138° to 520 for RADAR vectors to DREMR, thence . . . .
TAKEOFF RWY 18: Climb on heading 179° to 520 for RADAR vectors to DREMR, thence . . . .
TAKEOFF RWY 32: Climb on heading 318° to 520 for RADAR vectors to DREMR, thence . . . .
TAKEOFF RWY 36: Climb on heading 359° to 520 for RADAR vectors to DREMR, thence . . . .

...on track 345° to LITLD, then on track 346° to BLTWY, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

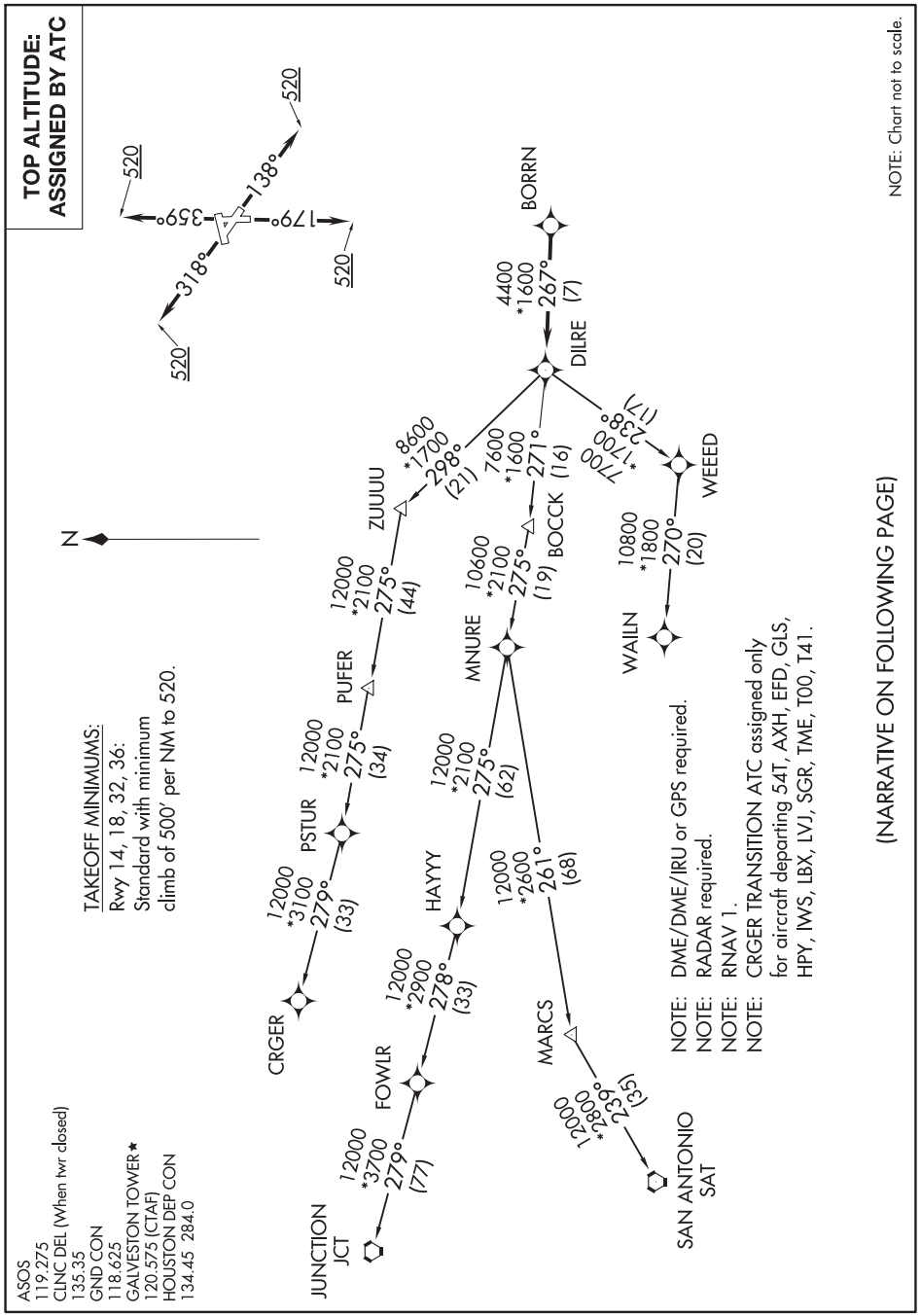
CRIED TRANSITION (BLTWY6.CRIED)

NOTE: Chart not to scale.

(BORRN4.BORRN) 20142 AL-164 (FAA) SCHOLES INTL AT GALVESTON (GLS)

BORRN FOUR DEPARTURE (RNAV)

GALVESTON, TEXAS



SC-5, 25 FEB 2021 to 22 APR 2021

BORRN FOUR DEPARTURE (RNAV)

(BORRN4.BORRN) 25APR19 GALVESTON, TEXAS

SCHOLES INTL AT GALVESTON (GLS)

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 14: Climb on heading 138° to 520, for RADAR vectors to BORRN, thence. . . .
TAKEOFF RWY 18: Climb on heading 179° to 520, for RADAR vectors to BORRN, thence. . . .
TAKEOFF RWY 32: Climb on heading 318° to 520, for RADAR vectors to BORRN, thence. . . .
TAKEOFF RWY 36: Climb on heading 359° to 520, for RADAR vectors to BORRN, thence. . . .

. . . .on track 267° to DILRE, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

CRGER TRANSITION (BORRN4.CRGER)
JUNCTION TRANSITION (BORRN4.JCT)
MNURE TRANSITION (BORRN4.MNURE)
SAN ANTONIO TRANSITION (BORRN4.SAT)
WAILN TRANSITION (BORRN4.WAILN)

SC-5, 25 FEB 2021 to 22 APR 2021

(CRIED9.CRIED) 20142

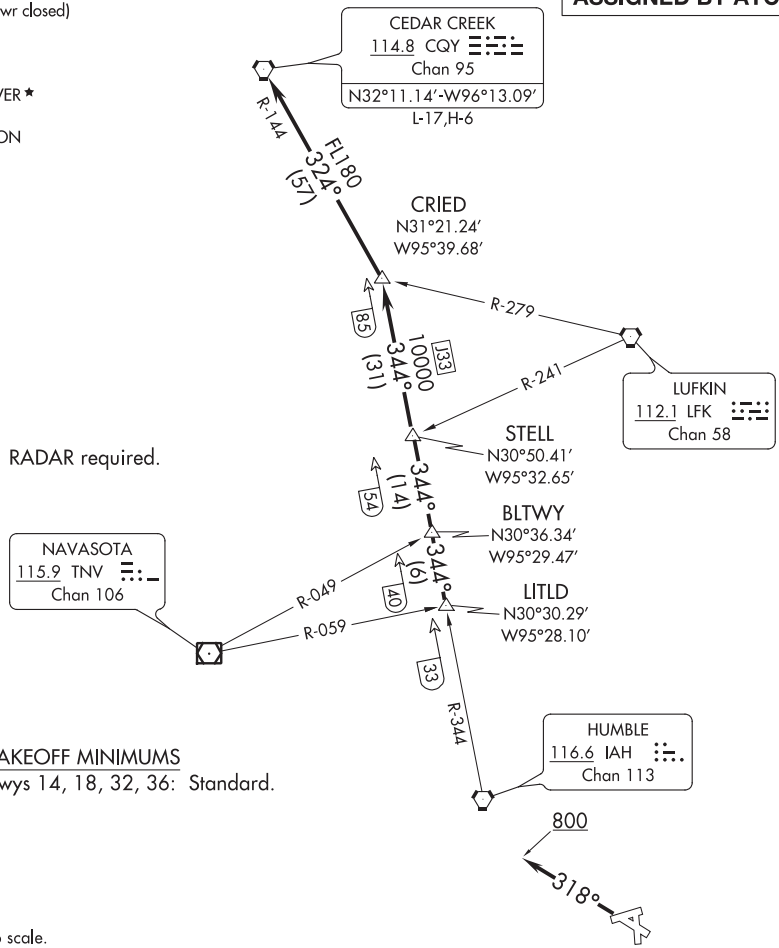
CRIED NINE DEPARTURE

AL-164 (FAA)

SCHOLES INTL AT GALVESTON (GLS)
GALVESTON, TEXAS

ASOS
119.275
CLNC DEL (When twr closed)
135.35
GND CON
118.625
GALVESTON TOWER ★
120.575 (CTAF)
HOUSTON DEP CON
134.45 284.0

TOP ALTITUDE: ASSIGNED BY ATC



NOTE: RADAR required.

TAKEOFF MINIMUMS
Rwys 14, 18, 32, 36: Standard.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWYS 14, 18, 36: When entering controlled airspace, climb on assigned heading for RADAR vectors to LITLD INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .

TAKEOFF RWY 32: Climb heading 318° to 800 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to LITLD INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .

. . . . on IAH R-344 to STELL INT, then on IAH R-344 to CRIED INT then left turn on CQY R-144 to CQY VORTAC.

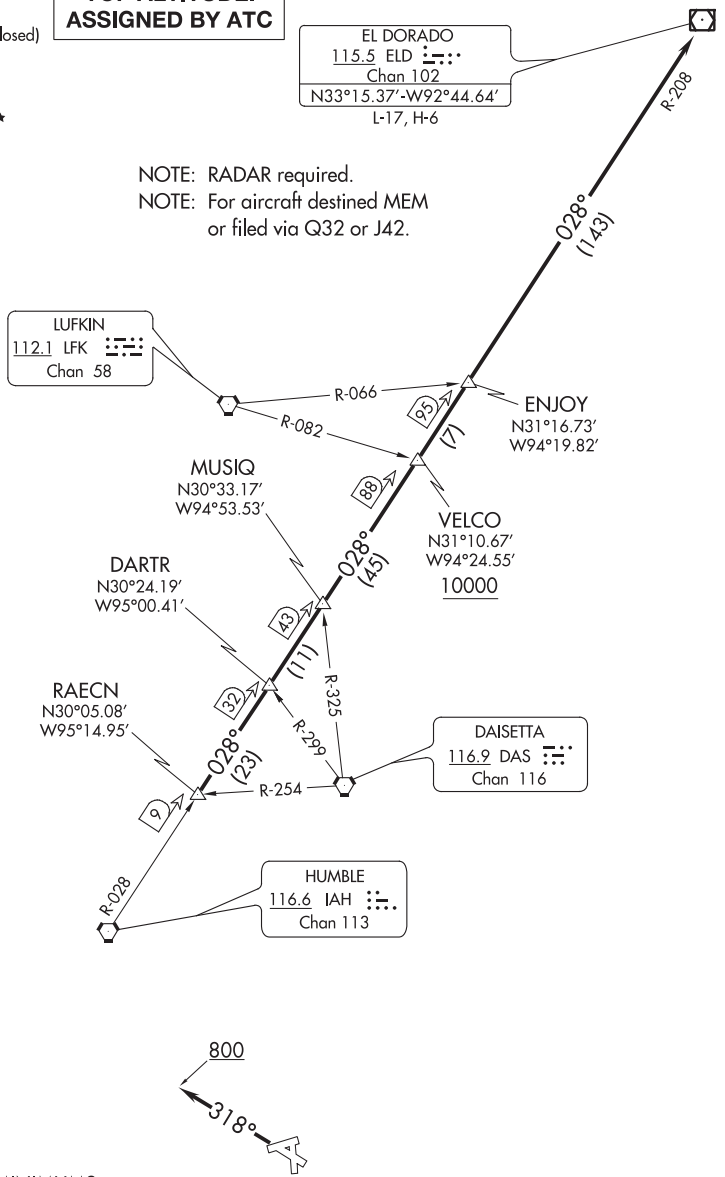
SC-5, 25 FEB 2021 to 22 APR 2021
SC-5, 25 FEB 2021 to 22 APR 2021

EL DORADO NINE DEPARTURE

ASOS
119.275
CLNC DEL (When twr closed)
135.35
GND CON
118.625
GALVESTON TOWER ★
120.575
HOUSTON DEP CON
134.45 284.0
CTAF
120.575

TOP ALTITUDE: ASSIGNED BY ATC

NOTE: RADAR required.
NOTE: For aircraft destined MEM or filed via Q32 or J42.



TAKEOFF MINIMUMS
Rwys 14, 18, 32, 36: Standard.

NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

SC-5, 25 FEB 2021 to 22 APR 2021

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWYS 14, 18, 36: When entering controlled airspace, climb on assigned heading for RADAR vectors to RAECN INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .

TAKEOFF RWY 32: Climb heading 318° to 800 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to RAECN INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .

. . . .on IAH R-028 and the ELD R-208 to ELD VOR/DME, cross VELCO INT at or above 10000.

SC-5, 25 FEB 2021 to 22 APR 2021

SC-5, 25 FEB 2021 to 22 APR 2021

ASOS
119.275
CLNC DEL (When twr closed)
135.35
GND CON
118.625
GALVESTON TOWER ★
120.575 (CTAF)
HOUSTON DEP CON
134.45 284.0

TOP ALTITUDE: ASSIGNED BY ATC

NOTE: RADAR required.
NOTE: For aircraft destined for the DFW terminal area only.

CEDAR CREEK
114.8 CQY
Chan 95

R-128

69

GIFFA
N31°22.89′
W95°15.10′
L-19-21, H-6
10000

85

LEONA
110.8 LOA
Chan 45

R-059

358°
(44)

R-121

BUMCO
N30°38.91′
W95°18.03′

41

358°
(10)

MONNT
N30°28.65′
W95°18.70′
L19-21, H7

31

DAISETTA
116.9 DAS
Chan 116

R-292

R-358

HUMBLE
116.6 IAH
Chan 113

800

318°

TAKEOFF MINIMUMS
Rwys 14, 18, 32, 36: Standard.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWYS 14, 18, 36: When entering controlled airspace, climb on assigned heading for RADAR vectors to MONNT INT, maintain assigned ATC altitude. Expect filed altitude 10 minutes after departure. Thence . . . .

TAKEOFF RWY 32: Climb heading 318° to 800 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to MONNT INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure. Thence . . . .

. . . . on IAH R-358 to cross GIFFA INT at or above 10000.

HOODO SIX DEPARTURE (RNAV)
(HOODO6.HOODO) 25APR19

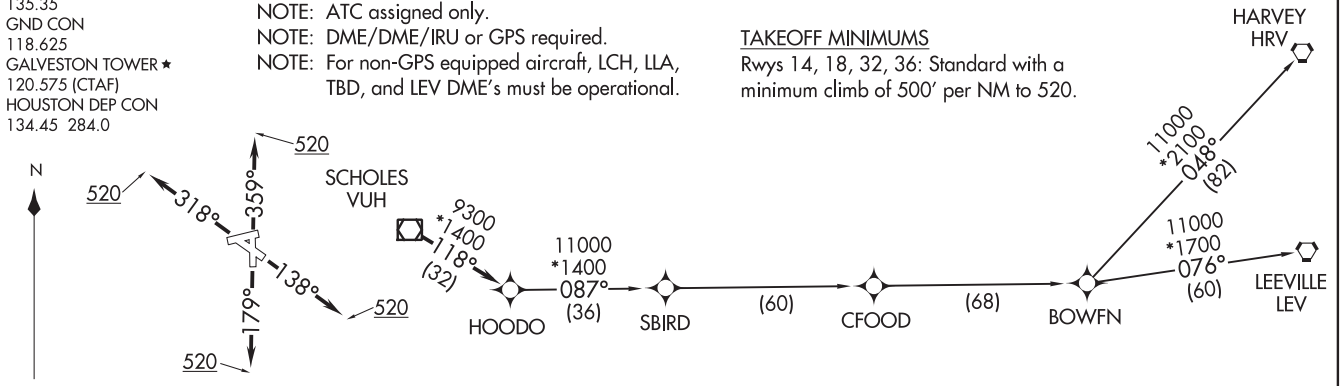
GALVESTON, TEXAS
SCHOLES INTL AT GALVESTON (GLS)

ASOS
119.275
CLNC DEL (When twr closed)
135.35
GND CON
118.625
GALVESTON TOWER ★
120.575 (CTAF)
HOUSTON DEP CON
134.45 284.0

NOTE: RNAV 1.
NOTE: RADAR required.
NOTE: ATC assigned only.
NOTE: DME/DME/IRU or GPS required.
NOTE: For non-GPS equipped aircraft, LCH, LLA, TBD, and LEV DME's must be operational.

TOP ALTITUDE: ASSIGNED BY ATC

TAKEOFF MINIMUMS
Rwys 14, 18, 32, 36: Standard with a minimum climb of 500′ per NM to 520.



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 14: Climb heading 138° to 520, for RADAR vectors to VUH VOR/DME, thence . . . .
TAKEOFF RUNWAY 18: Climb heading 179° to 520, for RADAR vectors to VUH VOR/DME, thence . . . .
TAKEOFF RUNWAY 32: Climb heading 318° to 520, for RADAR vectors to VUH VOR/DME, thence . . . .
TAKEOFF RUNWAY 36: Climb heading 359° to 520, for RADAR vectors to VUH VOR/DME, thence . . . .

. . . . on track 118° to HOODO, then on (transition). Maintain ATC assigned altitude.
Expect filed altitude 10 minutes after departure.

BOWFN TRANSITION (HOODO6.BOWFN)
CFOOD TRANSITION (HOODO6.CFOOD)
HARVEY TRANSITION (HOODO6.HRV)
LEEVILLE TRANSITION (HOODO6.LEV)
SBIRD TRANSITION (HOODO6.SBIRD)

(HOODO6.HOODO) 20142
HOODO SIX DEPARTURE (RNAV)

AL-164 (FAA)

SCHOLES INTL AT GALVESTON (GLS)
GALVESTON, TEXAS

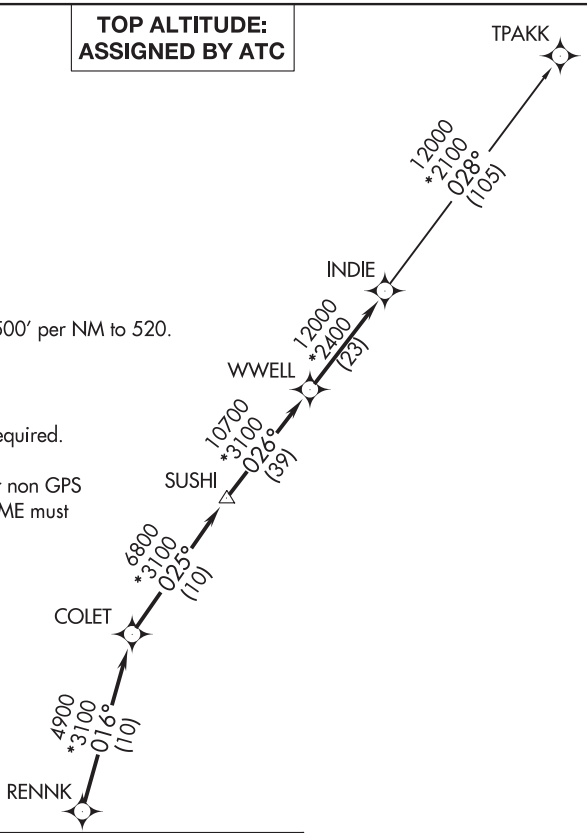
INDIE SEVEN DEPARTURE (RNAV)

TOP ALTITUDE: ASSIGNED BY ATC

ASOS
119.275
CLNC DEL (When twr closed)
135.35
GND CON
118.625
GALVESTON TOWER *
120.575 (CTAF)
HOUSTON DEP CON
134.45 284.0

TAKEOFF MINIMUMS
Rwys 14, 18, 32, 36:
Standard with minimum climb of 500′ per NM to 520.

NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV 1.
NOTE: TPAKK TRANSITION: For non GPS equipped aircraft TNV DME must be operational.

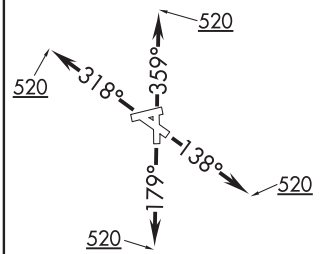


DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 14: Climb heading 138° to 520 for RADAR vectors to RENNK, thence . . . .
TAKEOFF RWY 18: Climb heading 179° to 520 for RADAR vectors to RENNK, thence . . . .
TAKEOFF RWY 32: Climb heading 318° to 520 for RADAR vectors to RENNK, thence . . . .
TAKEOFF RWY 36: Climb heading 359° to 520 for RADAR vectors to RENNK, thence . . . .

. . . . on track 016° to COLET, then on track 025° to SUSHI, then on track 026° to WWELL, then on track 026° to INDIE, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

TPAKK TRANSITION (INDIE7.TPAKK)



NOTE: Chart not to scale.

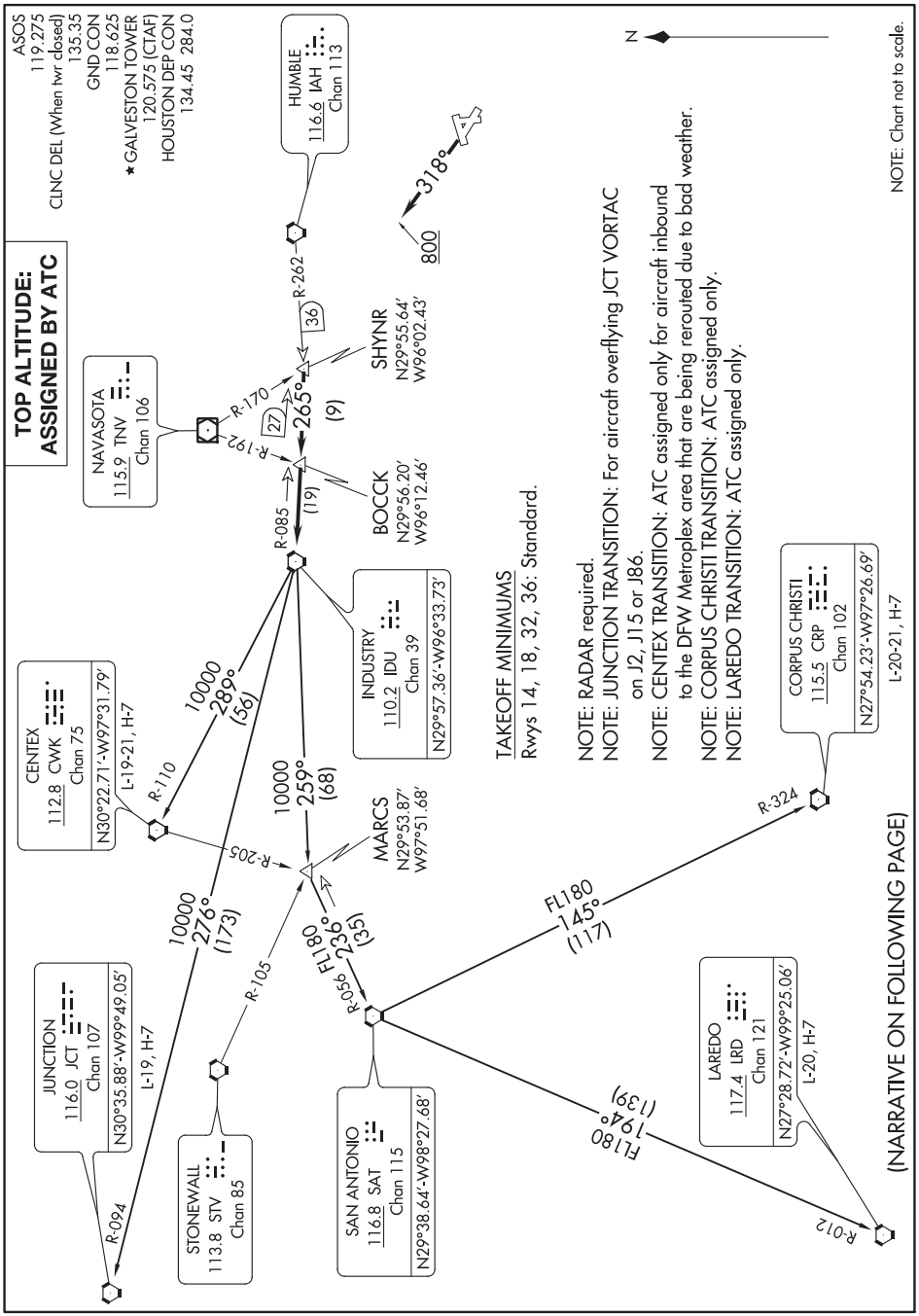
SC-5, 25 FEB 2021 to 22 APR 2021

(IDU9.IDU) 20142

INDUSTRY NINE DEPARTURE

AL-164 (FAA)

SCHOLES INTL AT GALVESTON (GLS)
GALVESTON, TEXAS



(NARRATIVE ON FOLLOWING PAGE)

SC-5, 25 FEB 2021 to 22 APR 2021

INDUSTRY NINE DEPARTURE

(IDU9.IDU) 22JUN17

GALVESTON, TEXAS
SCHOLES INTL AT GALVESTON (GLS)

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWYS 14, 18, 36: When entering controlled airspace, climb on assigned heading for RADAR vectors to SHYNR INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure. Thence . . . .
TAKEOFF RWY 32: Climb heading 318° to 800 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to SHYNR INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure. Thence . . . .

. . . . on IDU R-085 to BOCCK INT, then on IDU R-085 to IDU VORTAC.

CENTEX TRANSITION (IDU9.CWK): From over IDU VORTAC on IDU R-289 and CWK R-110 to CWK VORTAC.

CORPUS CHRISTI TRANSITION (IDU9.CRP): From over IDU VORTAC on IDU R-259 to MARCS INT, then on SAT R-056 to SAT VORTAC, then on SAT R-145 and CRP R-324 to CRP VORTAC.

JUNCTION TRANSITION (IDU9.JCT): From over IDU VORTAC on IDU R-276 and JCT R-094 to JCT VORTAC.

LAREDO TRANSITION (IDU9.LRD): From over IDU VORTAC on IDU R-259 to MARCS INT, then on SAT R-056 to SAT VORTAC, then on SAT R-194 and LRD R-012 to LRD VORTAC.

SC-5, 25 FEB 2021 to 22 APR 2021
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(KARRR6.KARRR) 20142

KARRR SIX DEPARTURE (RNAV)

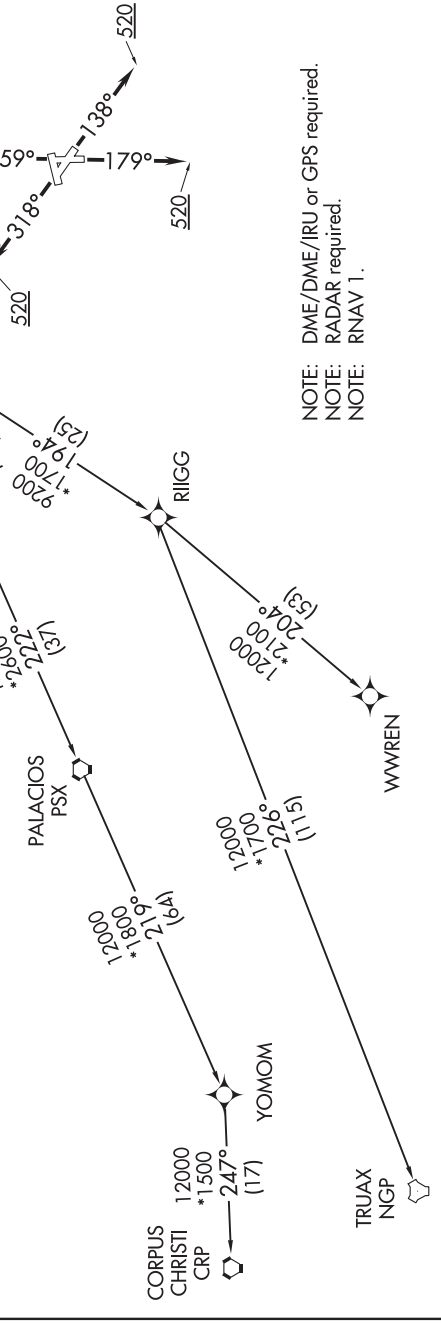
AL-164 (FAA)

SCHOLES INTL AT GALVESTON (GLS)
GALVESTON, TEXAS

TOP ALTITUDE: ASSIGNED BY ATC

TAKEOFF MINIMUMS
Rwys 14, 18, 32, 36: Standard with minimum climb of 500' per NM to 520.

ASOS
119.275
CLNC DEL (When twr closed)
135.35
GND CON
118.625
GALVESTON TOWER ★
120.575 (CTAF)
HOUSTON DEP CON
134.45 284.0



SC-5, 25 FEB 2021 to 22 APR 2021

KARRR SIX DEPARTURE (RNAV)
(KARRR6.KARRR) 05DEC19

GALVESTON, TEXAS
SCHOLES INTL AT GALVESTON (GLS)

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 14: Climb on heading 138° to 520, for RADAR vectors to KARRR, thence. . . .
TAKEOFF RWY 18: Climb on heading 179° to 520, for RADAR vectors to KARRR, thence. . . .
TAKEOFF RWY 32: Climb on heading 318° to 520, for RADAR vectors to KARRR, thence. . . .
TAKEOFF RWY 36: Climb on heading 359° to 520, for RADAR vectors to KARRR, thence. . . .

. . . .on track 218° to KAVCY, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

CORPUS CHRISTI TRANSITION (KARRR6.CRP)
PALACIOS TRANSITION (KARRR6.PSX)
TRUAX TRANSITION (KARRR6.NGP)
WWREN TRANSITION (KARRR6.WWREN)
YOMOM TRANSITION (KARRR6.YOMOM)

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(LOA3.LOA) 20142

LEONA THREE DEPARTURE

AL-164 (FAA)

SCHOLES INTL AT GALVESTON (GLS)
GALVESTON, TEXAS

TOP ALTITUDE: ASSIGNED BY ATC

ASOS
119.275
CLNC DEL (When twr closed)
135.35
HOUSTON DEP CON
134.45 284.0
GND CON
118.625
★ GALVESTON TOWER
120.575 (CTAF)

ARDMORE
116.7 ADM
Chan 114
N34°12.69′ - W97°10.10′
L-17, H-6

TULSA
114.4 TUL
Chan 91
N36°11.78′ - W95°47.29′

BONHAM
114.6 BYP
Chan 93
N33°32.25′ - W96°14.05′
L-17, H-6

RANGER
115.7 FUZ
Chan 104
N32°53.37′ - W97°10.77′
L-17, H-6

CEDAR CREEK
114.8 CQY
Chan 95
N32°11.14′ - W96°13.09′

DOLEY
N32°11.35′
W96°23.08′

WACO
115.3 ACT
Chan 100
N31°39.74′ - W97°16.14′

LEONA
110.8 LOA
Chan 45
N31° 07.44′ - W95° 58.08′

WLLIS
N30°32.08′
W95°39.10′

NAVASOTA
115.9 TNV
Chan 106

HUMBLE
116.6 IAH
Chan 113

R-156
FL180
336°
(127)
R-130
FL180
310°
(58)
R-173
FL180
353°
(81)
R-163
10000
334°
(67)
10000
341°
(65)
R-046
R-147
4000
327°
(39)
R-047
38
R-330
800
318°

TAKEOFF MINIMUMS
Rwy 14, 18, 32, 36: Standard.

NOTE: RADAR required.
NOTE: Except for aircraft destined ACT or the DFW terminal area, all aircraft filing the LEONA SID must file one of the published transitions via FUZ (LOA3.FUZ) ADM (LOA3.ADM) or BYP (LOA3.BYP).
NOTE: RANGER TRANSITION: For aircraft overflying west/northwest of the DFW terminal area FL240 and above.
NOTE: ARDMORE TRANSITION: For aircraft overflying north/northwest of the DFW terminal area FL240 and above.
NOTE: BONHAM TRANSITION: For aircraft overflying/landing TUL VORTAC FL240 and above.

NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

SC-5, 25 FEB 2021 to 22 APR 2021

LEONA THREE DEPARTURE
(LOA3.LOA) 22JUN17
GALVESTON, TEXAS
SCHOLES INTL AT GALVESTON (GLS)

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 14, 18, 36: When entering controlled airspace, climb on assigned heading for RADAR vectors to WLLIS INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence . . . .

TAKEOFF RUNWAY 32: Climb heading 318° to 800 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to WILLIS INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence . . . .

. . . . on LOA R-147 to LOA VORTAC.

ARDMORE TRANSITION (LOA3.ADM): From over LOA VORTAC on LOA R-334 to DOLEY INT, then on ADM R-156 to ADM VORTAC.

BONHAM TRANSITION (LOA3.BYP): From over LOA VORTAC on LOA R-341 and CQY R-163 to CQY VORTAC, then on BYP R-173 to BYP VORTAC.

RANGER TRANSITION (LOA3.FUZ): From over LOA VORTAC on LOA R-334 to DOLEY INT, then on FUZ R-130 to FUZ VORTAC.

(LFK2.LFK) 20142

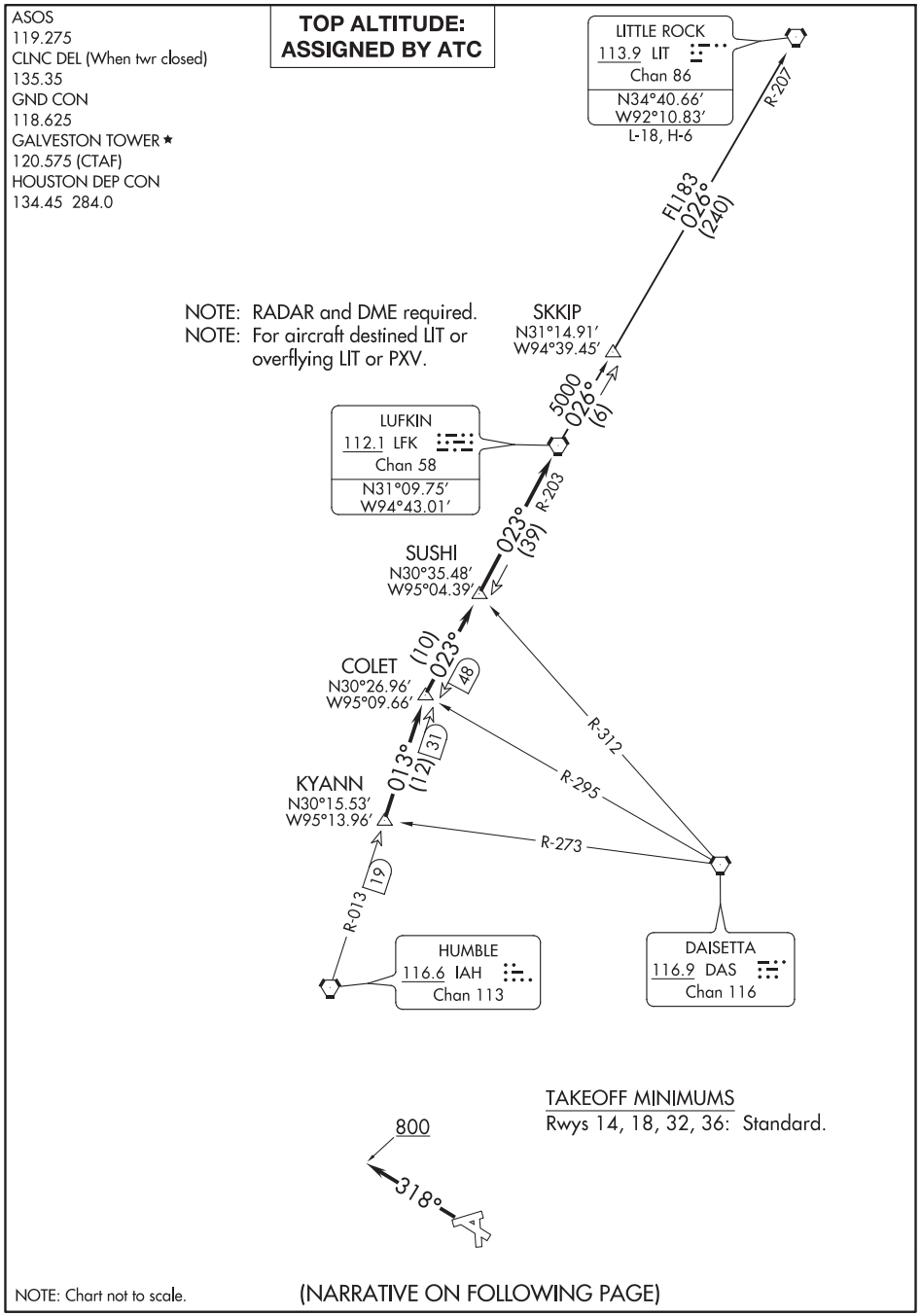
AL-164 (FAA)

SCHOLES INTL AT GALVESTON (GLS)
GALVESTON, TEXAS

LUFKIN TWO DEPARTURE

ASOS
119.275
CLNC DEL (When twr closed)
135.35
GND CON
118.625
GALVESTON TOWER ★
120.575 (CTAF)
HOUSTON DEP CON
134.45 284.0

TOP ALTITUDE: ASSIGNED BY ATC



TAKEOFF MINIMUMS
Rwys 14, 18, 32, 36: Standard.

NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

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LUFKIN TWO DEPARTURE
(LFK2.LFK) 22JUN17

GALVESTON, TEXAS
SCHOLES INTL AT GALVESTON (GLS)

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWYS 14, 18, 36: When entering controlled airspace, climb on assigned heading for RADAR vectors to KYANN INT. Maintain ATC assigned altitude.
Expect filed altitude 10 minutes after departure, thence. . . .

TAKEOFF RWY 32: Climb heading 318° to 800 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to KYANN INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .

. . . .on IAH R-013 to COLET INT, then right turn on LFK R-203 to LFK VORTAC.

LITTLE ROCK TRANSITION (LFK2.LIT): From over LFK VORTAC on LFK R-026 to SKKIP INT, then on LFK R-026 and LIT R-207 to LIT VORTAC.

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(LURIC7.LURIC) 20142 AL-164 (FAA)

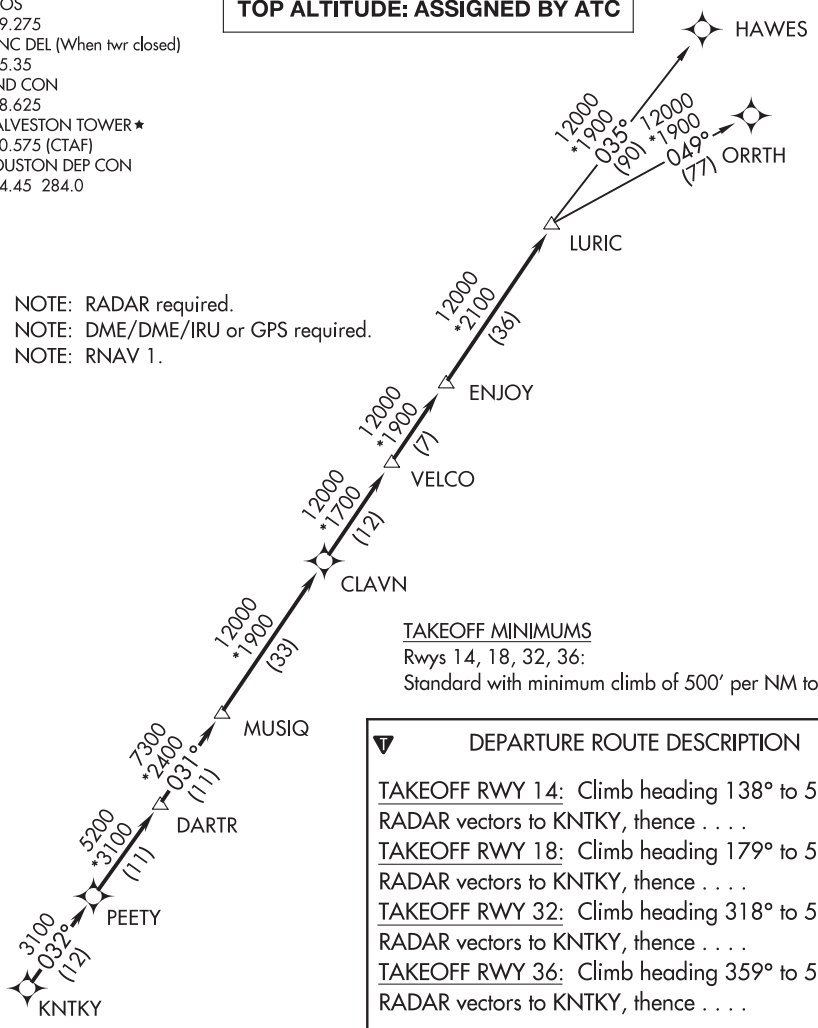
LURIC SEVEN DEPARTURE (RNAV)

SCHOLES INTL AT GALVESTON (GLS)
GALVESTON, TEXAS

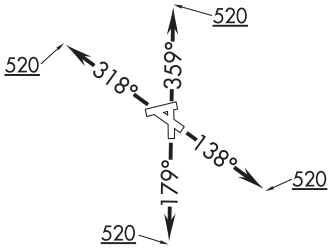
TOP ALTITUDE: ASSIGNED BY ATC

ASOS
119.275
CLNC DEL (When twr closed)
135.35
GND CON
118.625
GALVESTON TOWER ★
120.575 (CTAF)
HOUSTON DEP CON
134.45 284.0

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



TAKEOFF MINIMUMS
Rwys 14, 18, 32, 36:
Standard with minimum climb of 500′ per NM to 520.



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 14: Climb heading 138° to 520 for RADAR vectors to KNTKY, thence . . . .
TAKEOFF RWY 18: Climb heading 179° to 520 for RADAR vectors to KNTKY, thence . . . .
TAKEOFF RWY 32: Climb heading 318° to 520 for RADAR vectors to KNTKY, thence . . . .
TAKEOFF RWY 36: Climb heading 359° to 520 for RADAR vectors to KNTKY, thence . . . .

. . . . on track 032° to PEETY, then on track 032° to DARTR, then on track 031° to MUSIQ, then on track 031° to CLAVN, then on track 031° to VELCO, then on track 031° to ENJOY, then on track 031° to LURIC, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

HAWES TRANSITION (LURIC7.HAWES)
ORRTH TRANSITION (LURIC7.ORRTH)

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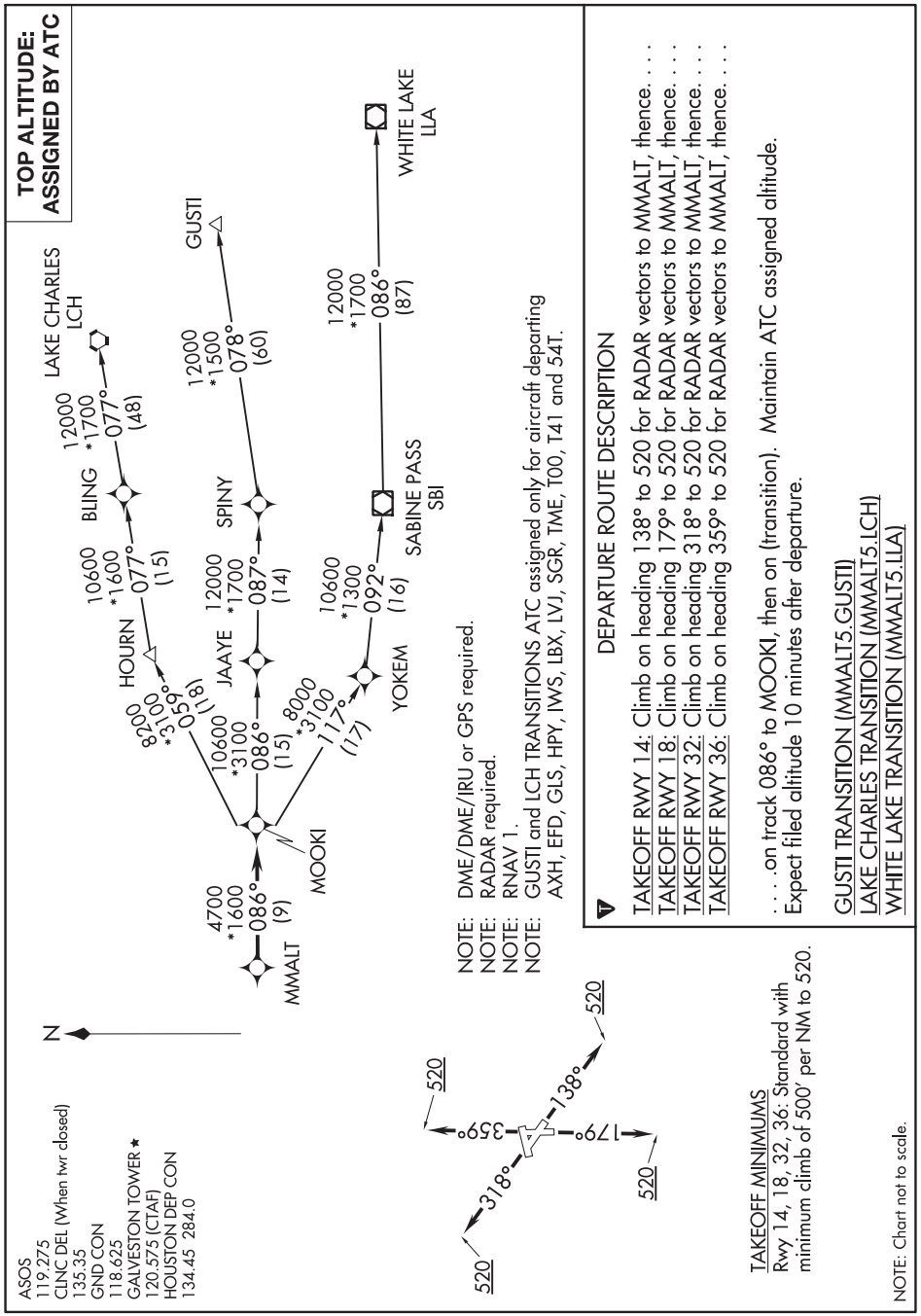
MMALT FIVE DEPARTURE (RNAV)

GALVESTON, TEXAS



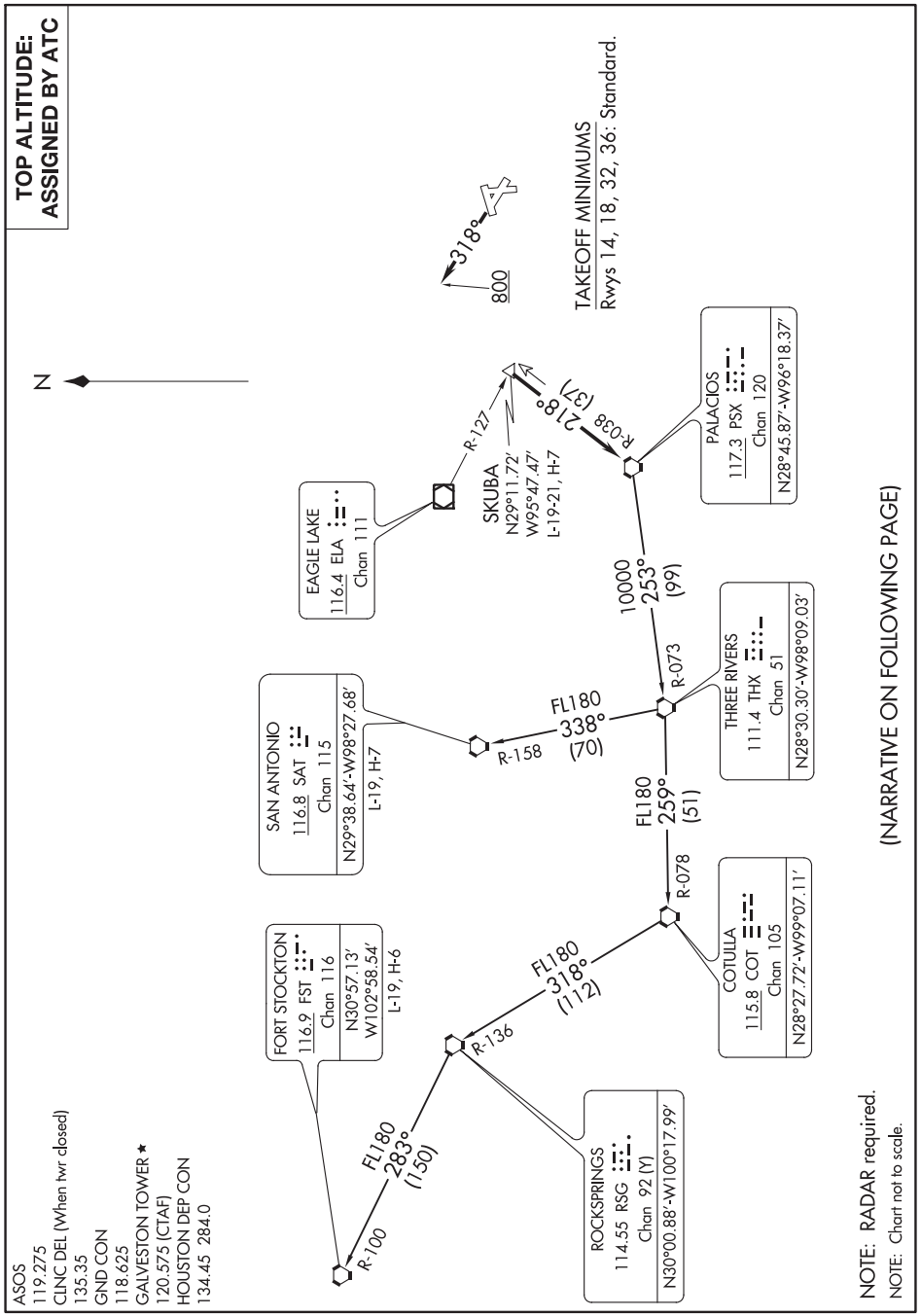
SC-5, 25 FEB 2021 to 22 APR 2021

(PSX1.PSX) 20254

PALACIOS ONE DEPARTURE

AL-164 (FAA)

SCHOLES INTL AT GALVESTON (GLS)
GALVESTON, TEXAS



SC-5, 25 FEB 2021 to 22 APR 2021

PALACIOS ONE DEPARTURE

(PSX1.PSX) 20JUN19

GALVESTON, TEXAS
SCHOLES INTL AT GALVESTON (GLS)

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWYS 14, 18, 36: When entering controlled airspace, climb on assigned heading for RADAR vectors to SKUBA INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .

TAKEOFF RWY 32: Climb heading 318° to 800 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to SKUBA INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .

. . . .on PSX R-038 to PSX VORTAC.

FORT STOCKTON TRANSITION (PSX1.FST): From over PSX VORTAC on PSX R-253 and THX R-073 to THX VORTAC, then on THX R-259 and COT R-078 to COT VORTAC, then on COT R-318 and RSG R-136 to RSG VORTAC, then on RSG R-283 and FST R-100 to FST VORTAC.

SAN ANTONIO TRANSITION (PSX1.SAT): From over PSX VORTAC on PSX R-253 and THX R-073 to THX VORTAC, then on SAT R-158 to SAT VORTAC.

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SC-5, 25 FEB 2021 to 22 APR 2021

(STRYA7.STRYA) 20142 AL-164 (FAA)

STRYA SEVEN DEPARTURE (RNAV)

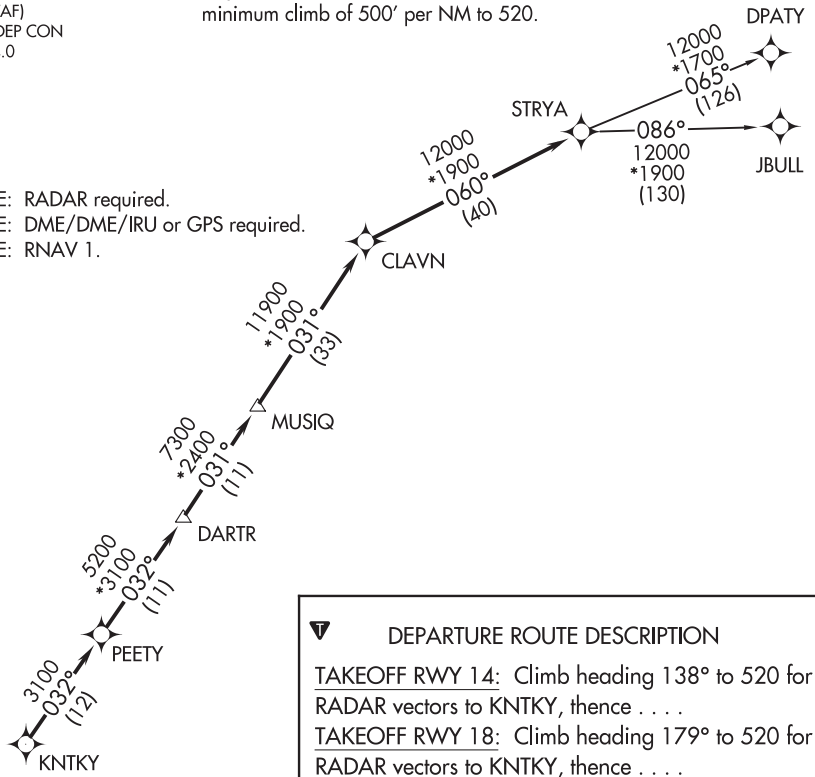
SCHOLES INTL AT GALVESTON (GLS)
GALVESTON, TEXAS

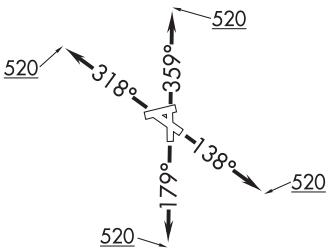
TOP ALTITUDE: ASSIGNED BY ATC

ASOS
119.275
CLNC DEL (When twr closed)
135.35
GND CON
118.625
GALVESTON TOWER *
120.575 (CTAF)
HOUSTON DEP CON
134.45 284.0

TAKEOFF MINIMUMS
Rwys 14, 18, 32, 36: Standard with minimum climb of 500' per NM to 520.

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





NOTE: Chart not to scale.

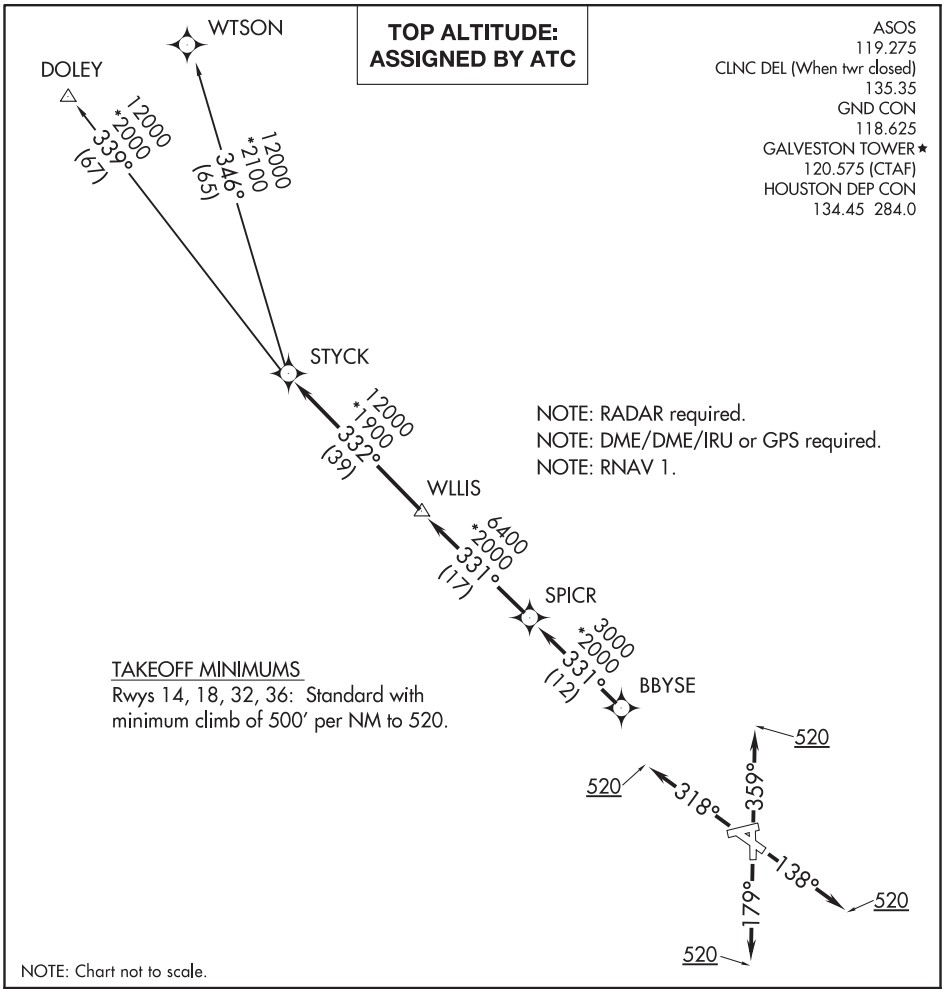
DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 14: Climb heading 138° to 520 for RADAR vectors to KNTKY, thence . . . .
TAKEOFF RWY 18: Climb heading 179° to 520 for RADAR vectors to KNTKY, thence . . . .
TAKEOFF RWY 32: Climb heading 318° to 520 for RADAR vectors to KNTKY, thence . . . .
TAKEOFF RWY 36: Climb heading 359° to 520 for RADAR vectors to KNTKY, thence . . . .

. . . . on track 032° to PEETY, then on track 032° to DARTR, then on track 031° to MUSIQ, then on track 031° to CLAVN, then on track 060° to STRYA, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

DPATY TRANSITION (STRYA7.DPATY)
JBULL TRANSITION (STRYA7.JBULL)

SC-5, 25 FEB 2021 to 22 APR 2021



SC-5, 25 FEB 2021 to 22 APR 2021

SC-5, 25 FEB 2021 to 22 APR 2021

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 14: Climb heading 138° to 520 for RADAR vectors to BBYSE, thence. . . .
TAKEOFF RWY 18: Climb heading 179° to 520 for RADAR vectors to BBYSE, thence. . . .
TAKEOFF RWY 32: Climb heading 318° to 520 for RADAR vectors to BBYSE, thence. . . .
TAKEOFF RWY 36: Climb heading 359° to 520 for RADAR vectors to BBYSE, thence. . . .

. . . .on track 331° to SPICR, then on track 331° to WLLIS, then on track 332° to STYCK, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

DOLEY TRANSITION (STYCK7.DOLEY)
WTSON TRANSITION (STYCK7.WTSON)

(WATFO5.WATFO) 20142

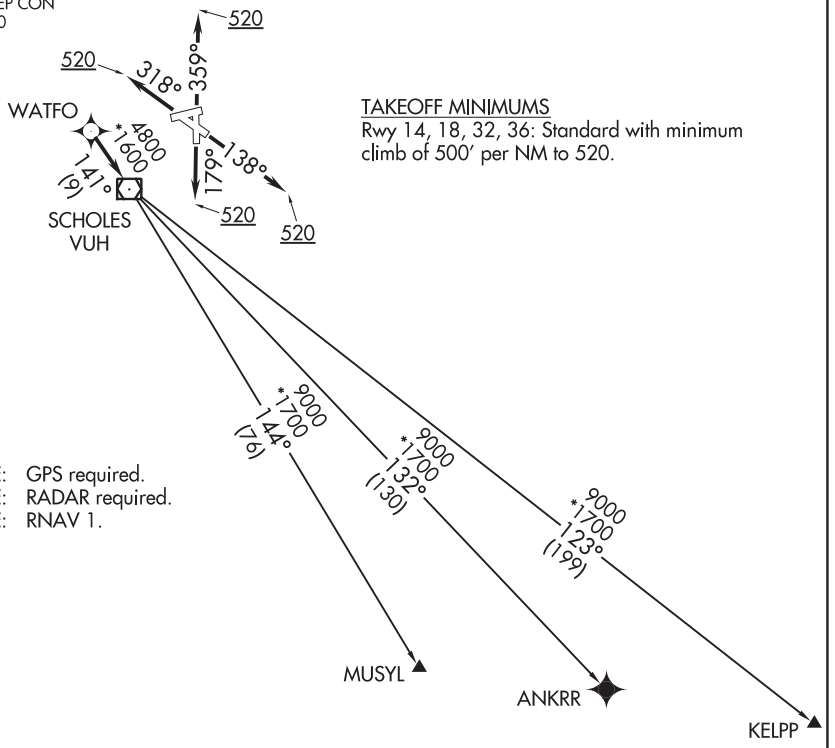
WATFO FIVE DEPARTURE (RNAV)

AL-164 (FAA)

SCHOLES INTL AT GALVESTON (GLS)
GALVESTON, TEXAS

TOP ALTITUDE: ASSIGNED BY ATC

ASOS
119.275
CLNC DEL (When twr closed)
135.35
GND CON
118.625
GALVESTON TOWER★
120.575 (CTAF)
HOUSTON DEP CON
134.45 284.0



TAKEOFF MINIMUMS
Rwy 14, 18, 32, 36: Standard with minimum climb of 500′ per NM to 520.

NOTE: GPS required.
NOTE: RADAR required.
NOTE: RNAV 1.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 14: Climb on heading 138° to 520, for RADAR vectors to WATFO, thence. . . .
TAKEOFF RWY 18: Climb on heading 179° to 520, for RADAR vectors to WATFO, thence. . . .
TAKEOFF RWY 32: Climb on heading 318° to 520, for RADAR vectors to WATFO, thence. . . .
TAKEOFF RWY 36: Climb on heading 359° to 520, for RADAR vectors to WATFO, thence. . . .

. . . .on track 141° to VUH VOR/DME, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

ANKRR TRANSITION (WATFO5.ANKRR)
KELPP TRANSITION (WATFO5.KELPP)
MUSYL TRANSITION (WATFO5.MUSYL)

SC-5, 25 FEB 2021 to 22 APR 2021

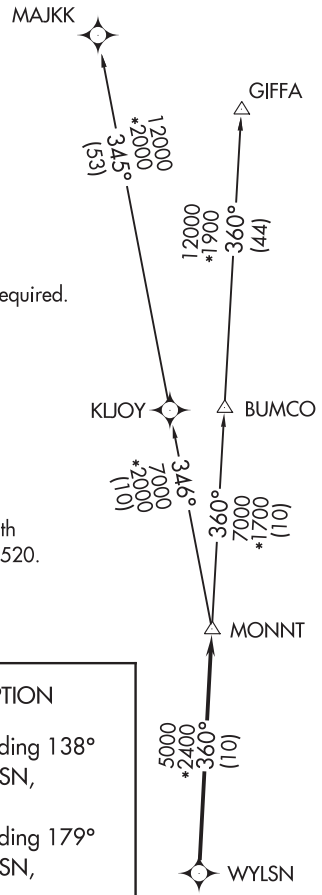
WYLSN SEVEN DEPARTURE (RNAV)

ASOS
119.275
CLNC DEL (When twr closed)
135.35
GND CON
118.625
GALVESTON TOWER ★
120.575 (CTAF)
HOUSTON DEP CON
134.45 284.0

TOP ALTITUDE: ASSIGNED BY ATC

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

TAKEOFF MINIMUMS
Rwys 14, 18, 32, 36: Standard with minimum climb of 500′ per NM to 520.

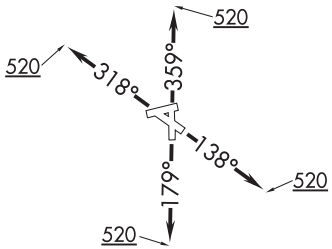


DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 14: Climb on heading 138° to 520 for RADAR vectors to WYLSN, thence. . . .
TAKEOFF RWY 18: Climb on heading 179° to 520 for RADAR vectors to WYLSN, thence. . . .
TAKEOFF RWY 32: Climb on heading 318° to 520 for RADAR vectors to WYLSN, thence. . . .
TAKEOFF RWY 36: Climb on heading 359° to 520 for RADAR vectors to WYLSN, thence. . . .

. . . .on track 360° to MONNT, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

GIFFA TRANSITION (WYLSN7.GIFFA)
MAJKK TRANSITION (WYLSN7.MAJKK)



NOTE: Chart not to scale.

GIDDINGS, TEXAS AL-6499 (FAA) 19115

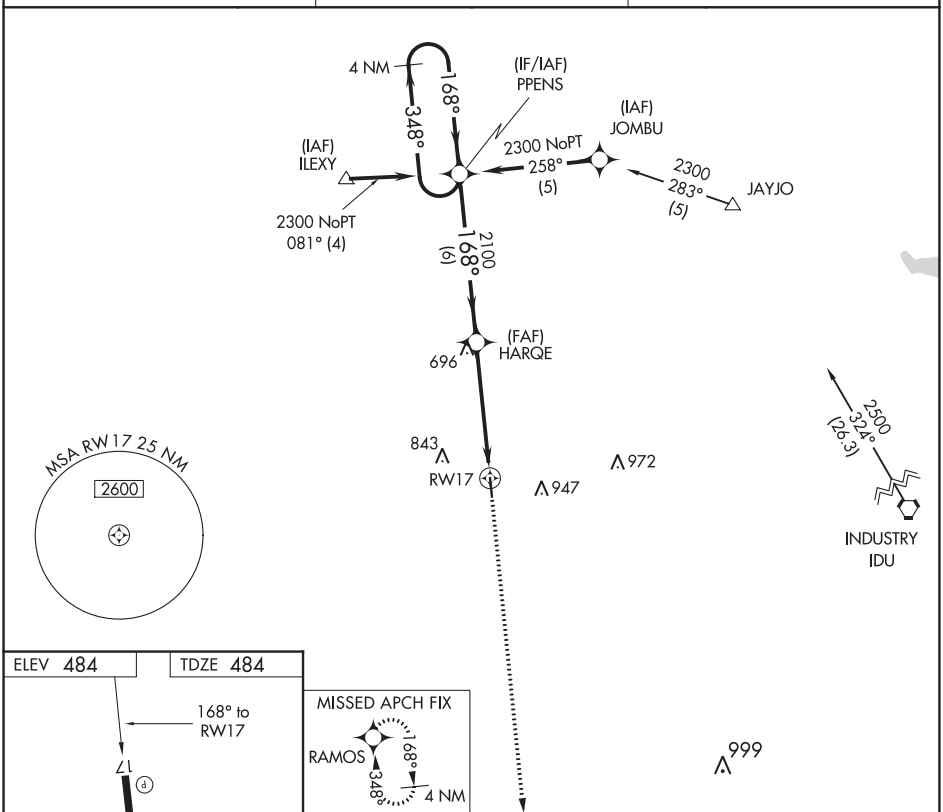
APP CRS	Rwy ldg	4000
168°	TDZE	484
	Apt Elev	484

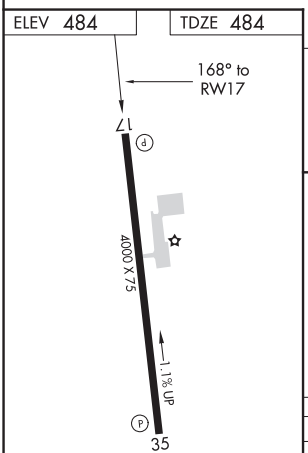
RNAV (GPS) RWY 17
GIDDINGS-LEE COUNTY (GYB)

DME/DME RNP-0.3 NA. Helicopter visibility reduction below 1 SM NA. Procedure NA at night. When local altimeter setting not received, use Austin-Bergstrom Intl altimeter setting and increase all MDA 100 feet; increase LNAV Cat C visibility ¼ mile.

MISSED APPROACH: Climb to 2500 direct RAMOS and hold.

AWOS-3	AUSTIN APP CON	UNICOM
119.225	127.225 317.65	123.05 (CTAF)





CATEGORY	A	B	C	D
LNAV MDA	940-1 456 (500-1)		940-1¼ 456 (500-1¼)	NA
CIRCLING	940-1 456 (500-1)		940-1½ 456 (500-1½)	NA

GIDDINGS, TEXAS
Orig-A 26JUN14

30°10′N-96°59′W

GIDDINGS-LEE COUNTY (GYB)
RNAV (GPS) RWY 17

SC-5, 25 FEB 2021 to 22 APR 2021

SC-5, 25 FEB 2021 to 22 APR 2021

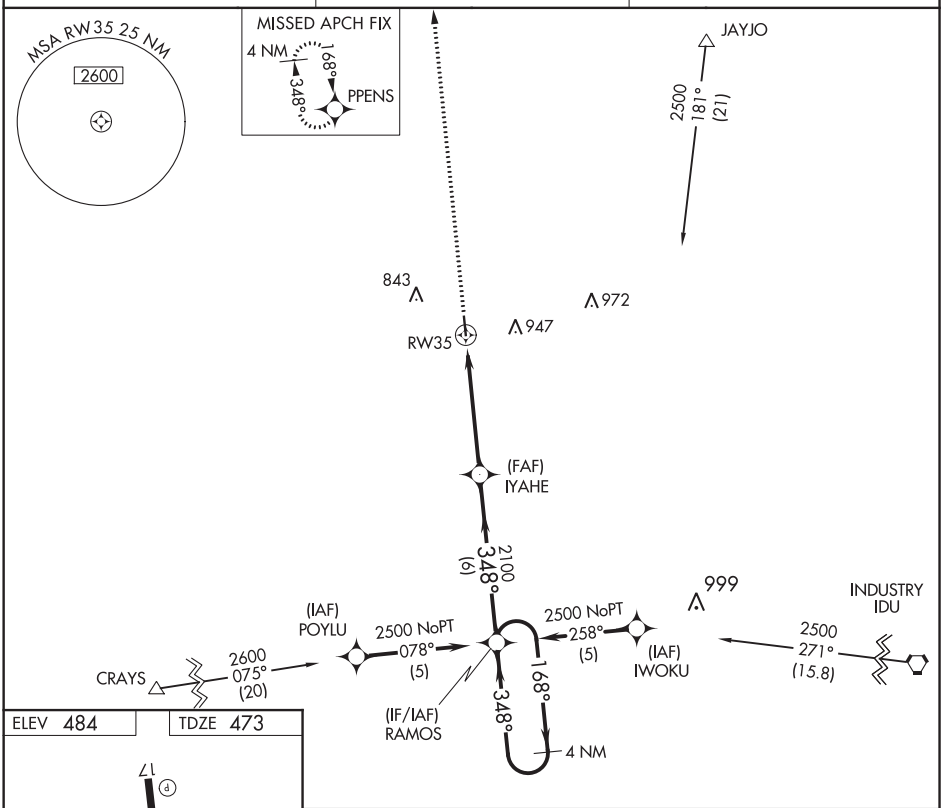
APP CRS	Rwy ldg	4000
348°	TDZE	473
	Apt Elev	484

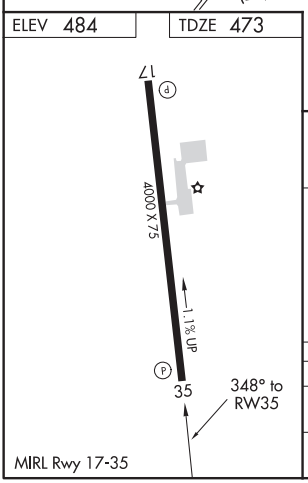
RNAV (GPS) RWY 35
GIDDINGS-LEE COUNTY (GYB)

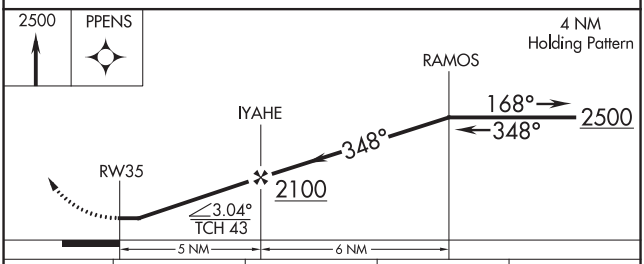
DME/DME RNP-0.3 NA. Procedure NA at night. Helicopter visibility reduction below 1 SM NA. When local altimeter setting not received, use Austin-Bergstrom Intl altimeter setting and increase all MDA 100 feet; increase LNAV Cat C visibility ¼ mile.

MISSED APPROACH: Climb to 2500 direct PPENS and hold.

AWOS-3	AUSTIN APP CON	UNICOM
119.225	127.225 317.65	123.05 (CTAF)







CATEGORY	A	B	C	D
LNAV MDA	960-1 487 (500-1)		960-1¼ 487 (500-1¼)	NA
CIRCLING	960-1 476 (500-1)		960-1½ 476 (500-1½)	NA

SC-5, 25 FEB 2021 to 22 APR 2021

SC-5, 25 FEB 2021 to 22 APR 2021

GIDDINGS, TEXAS

AL-6499 (FAA)

20254

VOR/DME-A

GIDDINGS-LEE COUNTY (GYB)

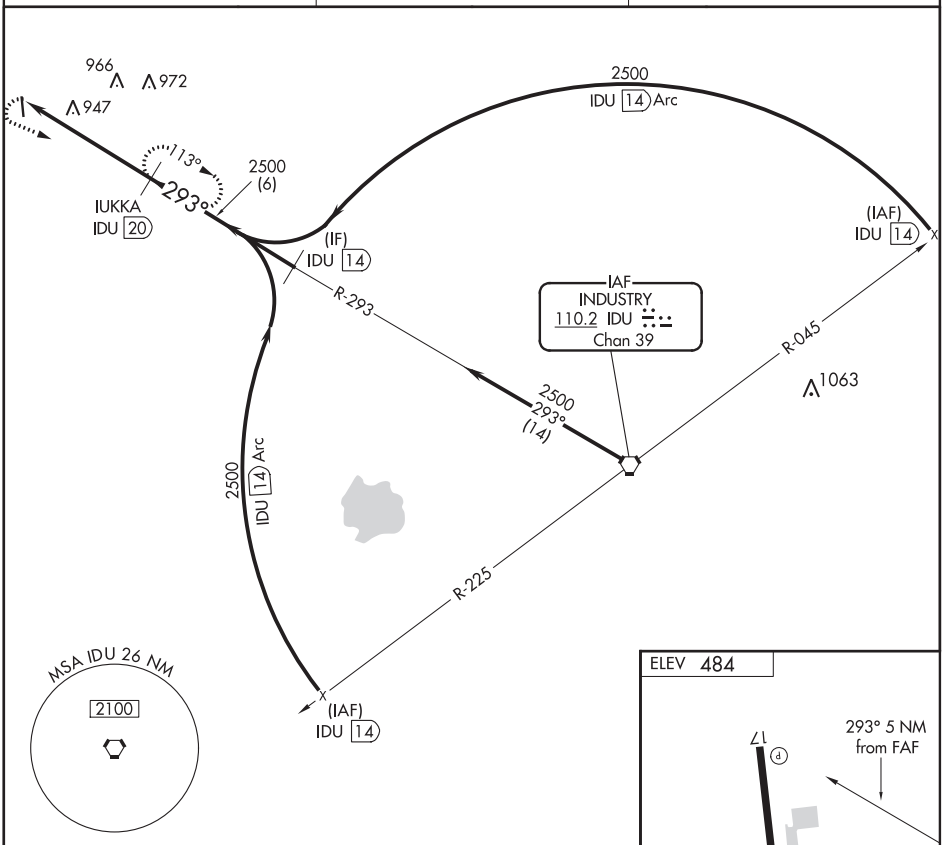
VORTAC IDU	APP CRS	Rwy ldg	N/A
110.2	293°	TDZE	N/A
Chan 39		Apt Elev	484

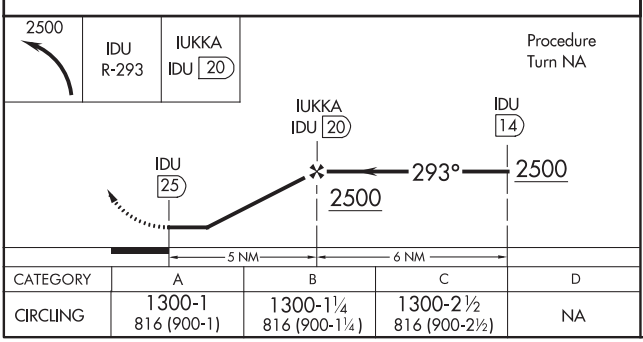
Procedure NA at night. Helicopter visibility reduction below 1 SM NA. Use Austin-Bergstrom altimeter setting.

NA

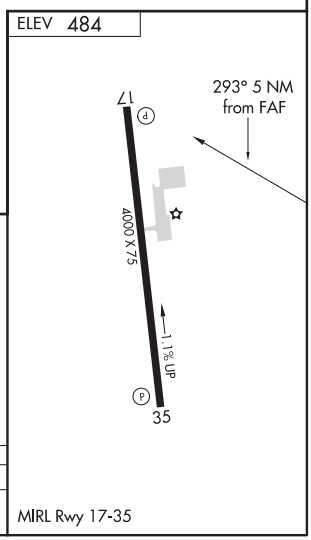
MISSED APPROACH: Climbing left turn to 2500 via IDU R-293 to IUKKA 20 DME and hold.

AWOS-3	AUSTIN APP CON	UNICOM
119.225	127.225 317.65	123.05 (CTAF)





CATEGORY	A	B	C	D
CIRCLING	1300-1 816 (900-1)	1300-1¼ 816 (900-1¼)	1300-2½ 816 (900-2½)	NA



SC-5, 25 FEB 2021 to 22 APR 2021

SC-5, 25 FEB 2021 to 22 APR 2021

WAAS CH 50522 W18A	APP CRS 178°	Rwy ldg 4001 TDZE 285 Apt Elev 285

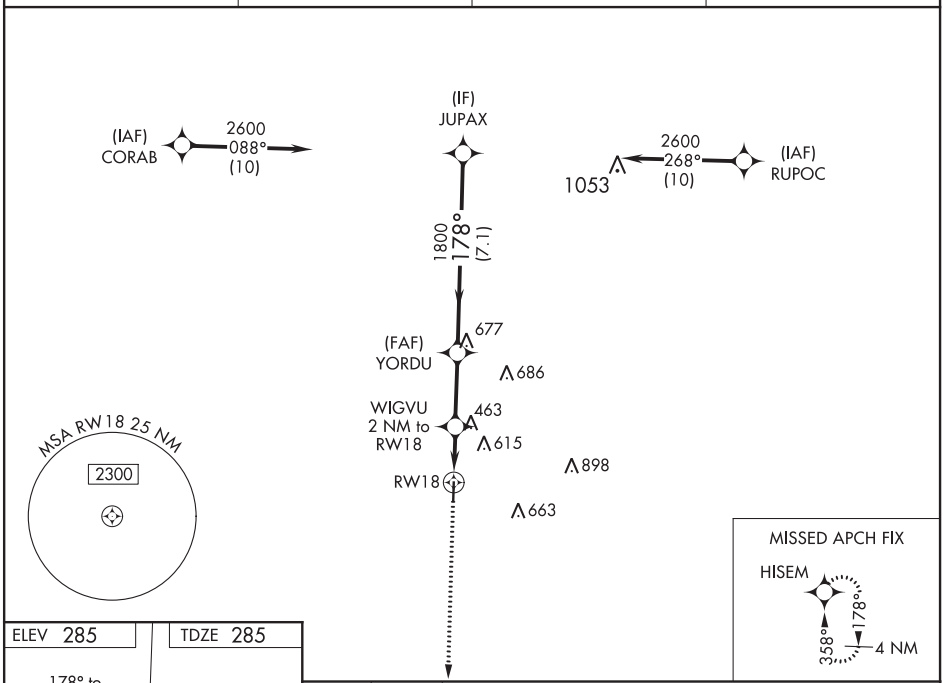
RNAV (GPS) RWY 18
HEARNE MUNI (LHB)

RNP APCH.

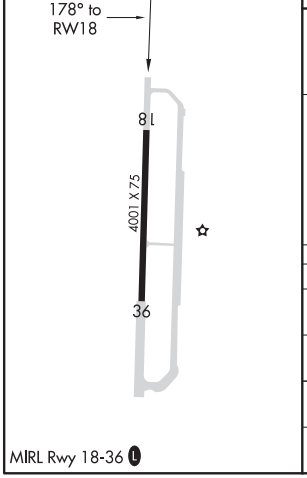
Baro-VNAV and VDP NA when using College Station altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C or above 54°C.

MISSED APPROACH: Climb to 2100 direct HISEM and hold.

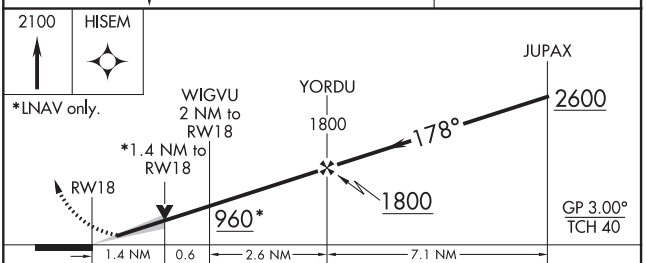
AWOS-3	HOUSTON APP CON	CTAF	
118.675	134.3 360.85	122.9	123.3 L



ELEV 285 TDZE 285



MIRL Rwy 18-36 L



CATEGORY	A	B	C	D
LPV DA	485-¾ 200 (200-¾)			NA
LNAV/VNAV DA	583-1 298 (300-1)			NA
LNAV MDA	780-1 495 (500-1)		780-1⅜ 495 (500-1⅜)	NA
CIRCLING	800-1 515 (600-1)	880-1 595 (600-1)	920-1¾ 635 (700-1¾)	NA

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SC-5, 25 FEB 2021 to 22 APR 2021

HEARNE, TEXAS

AL-10602 (FAA)

20198

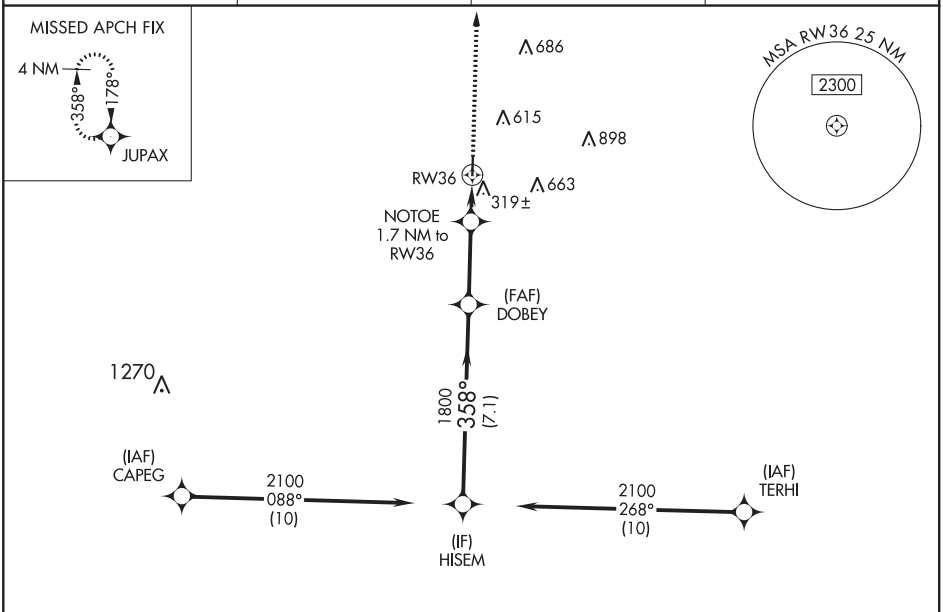
RNAV (GPS) RWY 36
HEARNE MUNI (LHB)

WAAS CH 87122 W36A	APP CRS 358°	Rwy ldg 4001 TDZE 284 Apt Elev 285

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 College Station altimeter setting and increase all DA 55 feet and all MDA 60 feet. Increase LPV, LNAV/VNAV all Cats and LNAV Cat C visibility ⅛ mile. Increase Circling Cat C visibility ¼ mile. Baro-VNAV and VDP NA when using College Station altimeter setting.

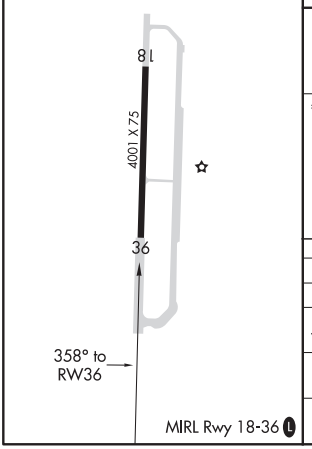
MISSED APPROACH: Climb to 2600 direct JUPAX and hold.

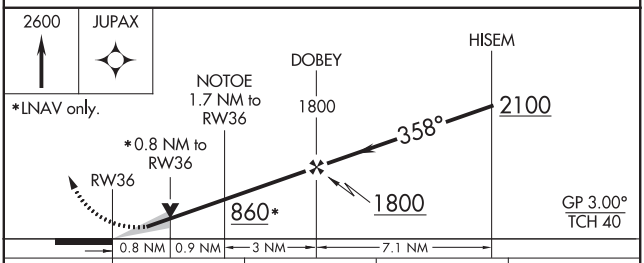
AWOS-3	HOUSTON APP CON	CTAF	
118.675	134.3 360.85	122.9	123.3 L



RADAR REQUIRED

ELEV 285 | TDZE 284





CATEGORY	A	B	C	D
LPV DA	484-¾ 200 (200-¾)			NA
LNAV/VNAV DA	534-⅞ 250 (300-⅞)			NA
LNAV MDA	580-1 296 (300-1)		580-⅞ 296 (300-⅞)	NA
CIRCLING	800-1 515 (600-1)	880-1 595 (600-1)	920-1¾ 635 (700-1¾)	NA

HEARNE, TEXAS
Orig-A 02APR15

30°52'N-96°37'W

HEARNE MUNI (LHB)
RNAV (GPS) RWY 36

SC-5, 25 FEB 2021 to 22 APR 2021

ILS or LOC RWY 14
CONROE-NORTH HOUSTON RGNL (CXO)

LOC/DME I-CXO	APP CRS	Rwy ldg	7501
108.7	140°	TDZE	236
Chan 24		Apt Elev	245

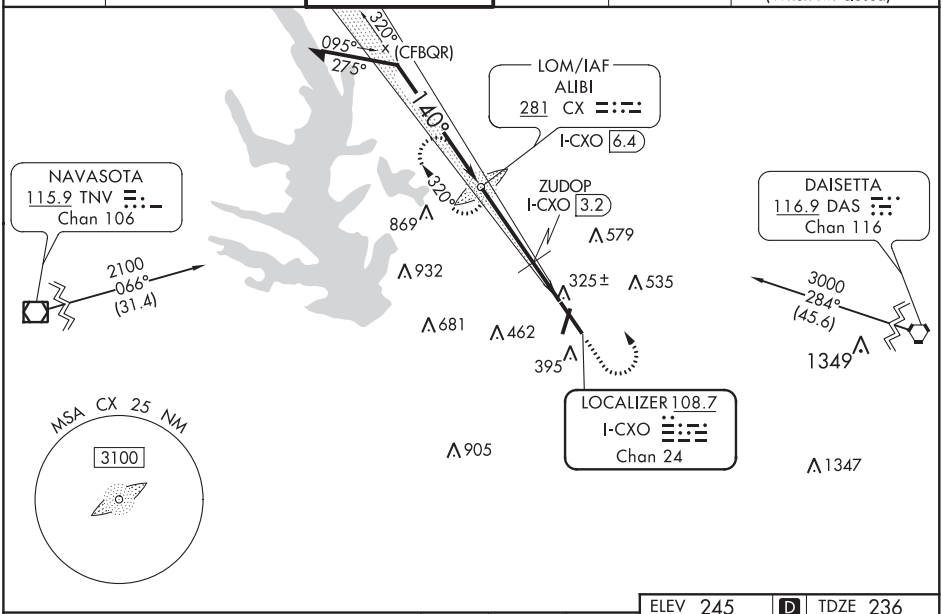
ADF required.

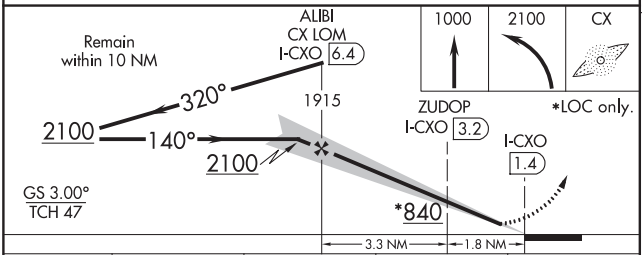
NA

MALSR

MISSED APPROACH: Climb to 1000 then climbing left turn to 2100 direct ALIBI LOM/I-CXO 6.4 DME and hold.

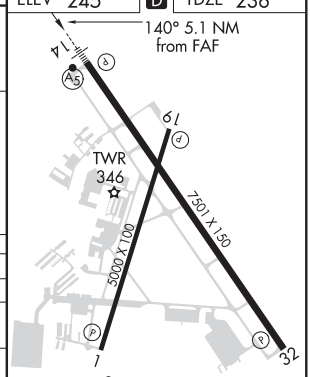
ATIS	HOUSTON APP CON	CONROE TOWER ★	GND CON	CLNC DEL	CLNC DEL
118.325	119.7 281.4	124.125 (CTAF) L	120.45	120.45	119.55 (When twr closed)





CATEGORY	A	B	C	D
S-ILS 14	436-½ 200 (200-½)			
S-LOC 14	840-½ 604 (600-½)		840-1⅜ 604 (600-1⅜)	
C CIRCLING	840-1 595 (600-1)		880-1¾ 635 (700-1¾)	960-2¼ 715 (800-2¼)
ZUDOP FIX MINIMUMS				
S-LOC 14	640-½ 404 (400-½)		640-¾ 404 (400-¾)	
C CIRCLING	700-1 455 (500-1)		880-1¾ 635 (700-1¾)	960-2¼ 715 (800-2¼)

ELEV 245 | D | TDZE 236



FAF to MAP 5.1 NM

Knots	60	90	120	150	180
Min:Sec	5:06	3:24	2:33	2:02	1:42

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HOUSTON, TEXAS | AL-5573 (FAA) | 19283

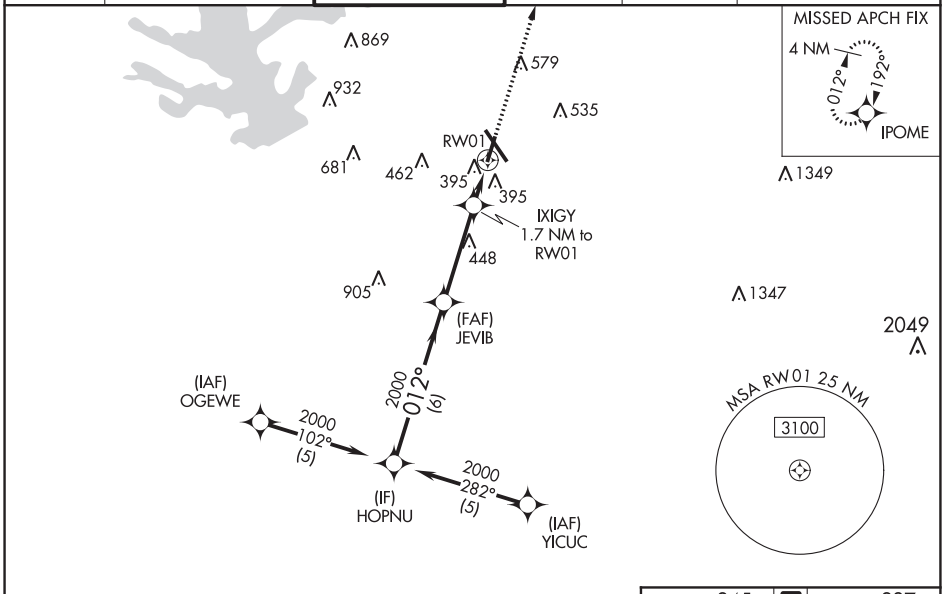
RNAV (GPS) RWY 1
CONROE-NORTH HOUSTON RGNL (CXO)

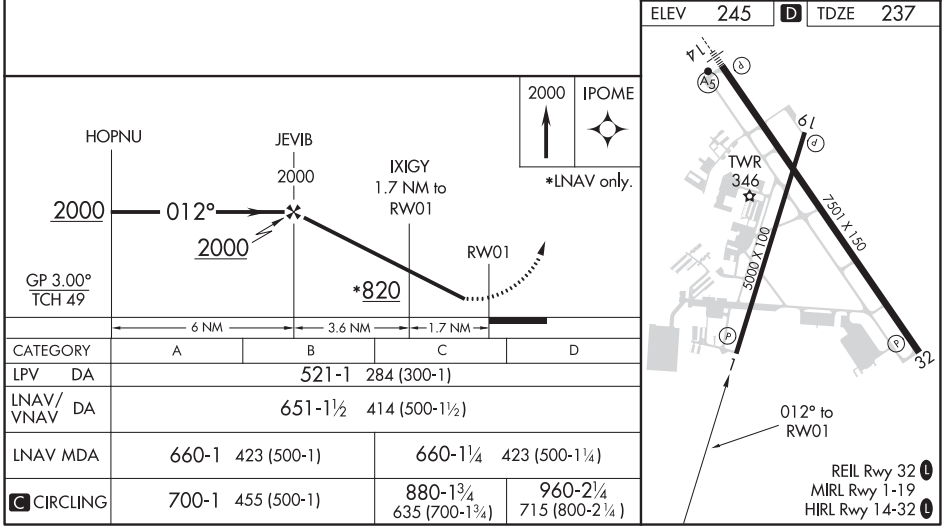
WAAS CH 86719 W01A	APP CRS 012°	Rwy ldg 5000 TDZE 237 Apt Elev 245

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. Rwy 1 helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 2000 direct IPOME and hold.

ATIS	HOUSTON APP CON	CONROE TOWER*	GND CON	CLNC DEL	CLNC DEL (When twr closed)
118.325	119.7 281.4	124.125 (CTAF) L	120.45	120.45	119.55





CATEGORY	A	B	C	D
LPV DA	521-1 284 (300-1)			
LNAV/VNAV DA	651-1½ 414 (500-1½)			
LNAV MDA	660-1 423 (500-1)		660-1¼ 423 (500-1¼)	
C CIRCLING	700-1 455 (500-1)		880-1¾ 635 (700-1¾)	960-2¼ 715 (800-2¼)

HOUSTON, TEXAS
Orig-A 22JUN17

30°21′N-95°25′W

CONROE-NORTH HOUSTON RGNL (CXO)
RNAV (GPS) RWY 1

SC-5, 25 FEB 2021 to 22 APR 2021

SC-5, 25 FEB 2021 to 22 APR 2021

WAAS CH 99512 W14A	APP CRS 140°	Rwy ldg 7501 TDZE 236 Apt Elev 245

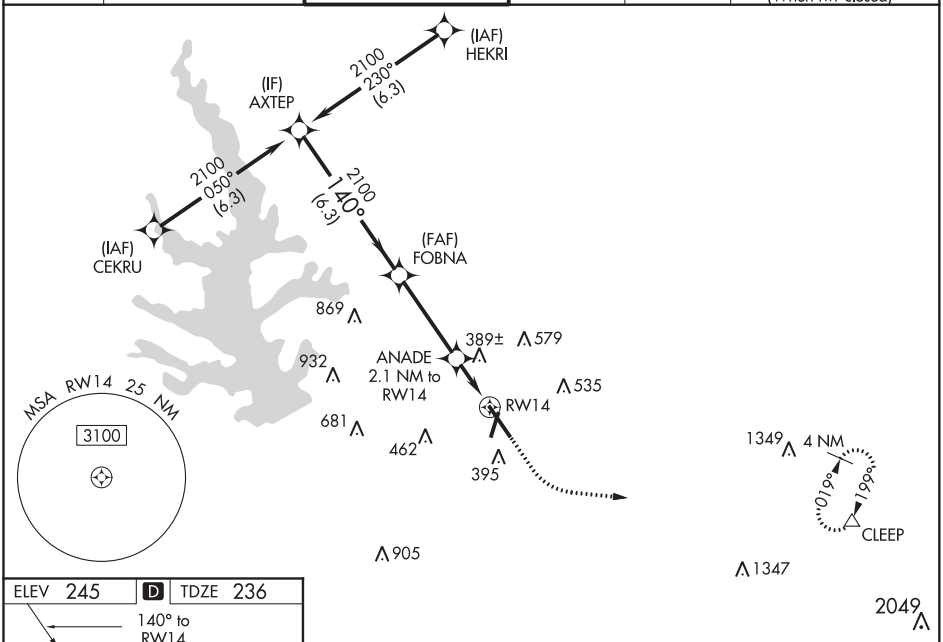
RNAV (GPS) RWY 14
CONROE-NORTH HOUSTON RGNL (CXO)

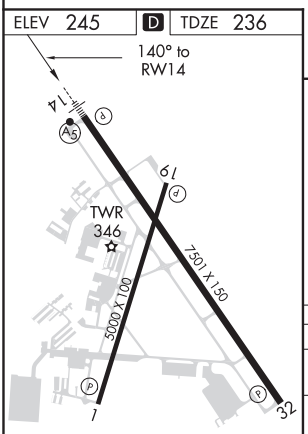
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -6°C (-22°F) or above 54°C (130°F). DME/DME RNP-0.3 NA.

MALSR

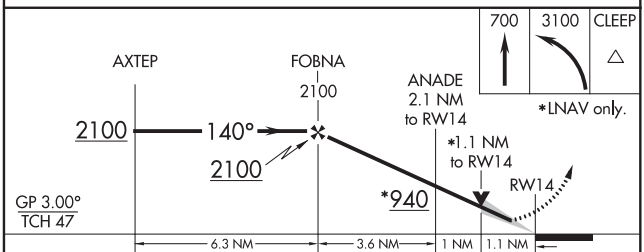
MISSED APPROACH: Climb to 700 then climbing left turn to 3100 direct CLEEP and hold.

ATIS	HOUSTON APP CON	CONROE TOWER *	GND CON	CLNC DEL	CLNC DEL
118.325	119.7 281.4	124.125 (CTAF) L	120.45	120.45	119.55 (When twr closed)





REIL Rwy 32 L
MIRL Rwy 1-19
HIRL Rwy 14-32 L



CATEGORY	A	B	C	D
LPV DA	436-½ 200 (200-½)			
LNAV/VNAV DA	521-½ 285 (300-½)			
LNAV MDA	640-½ 404 (400-½)		640-⅝ 404 (400-⅝)	
C CIRCLING	700-1 455 (500-1)		880-1¾ 635 (700-1¾)	960-2¼ 715 (800-2¼)

SC-5, 25 FEB 2021 to 22 APR 2021
SC-5, 25 FEB 2021 to 22 APR 2021

HOUSTON, TEXAS | AL-5573 (FAA) | 19283

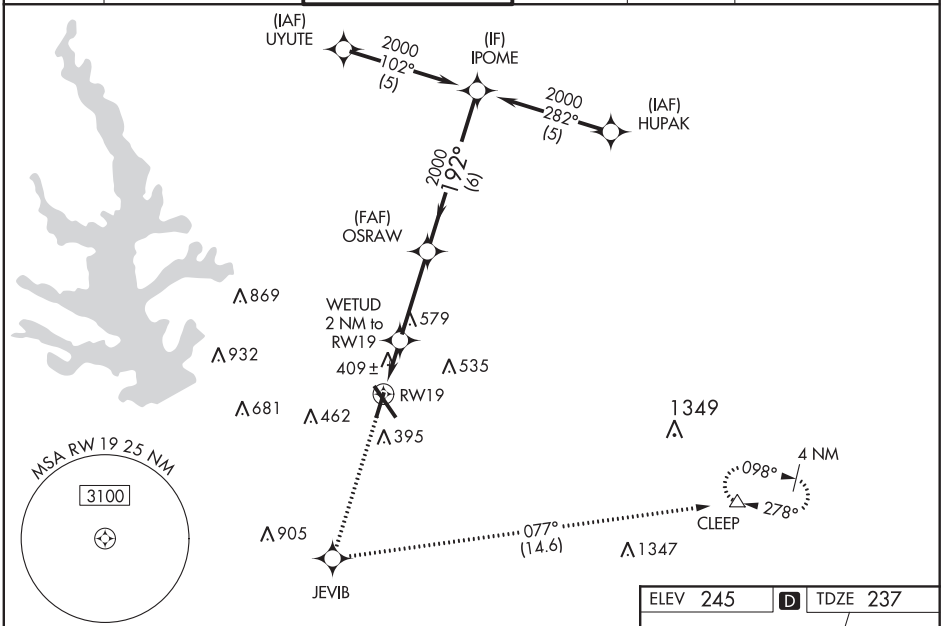
WAAS CH 90219 W19A	APP CRS 192°	Rwy ldg 5000 TDZE 237 Apt Elev 245

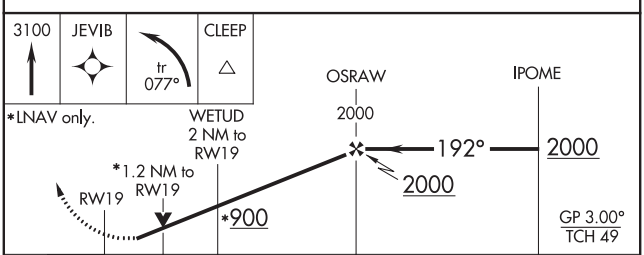
RNAV (GPS) RWY 19
CONROE-NORTH HOUSTON RGNL (CXO)

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.
Rwy 19 helicopter visibility reduction below ¾ SM NA.

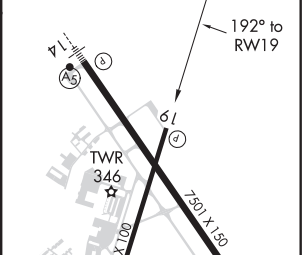
MISSED APPROACH: Climb to 3100 direct JEVIB and left turn on track 077° to CLEEP and hold.

ATIS	HOUSTON APP CON	CONROE TOWER ★	GND CON	CLNC DEL	CLNC DEL (When twr closed)
118.325	119.7 281.4	124.125 (CTAF) L	120.45	120.45	119.55





CATEGORY	A	B	C	D
LPV DA	527-1 290 (300-1)			
LNAV/VNAV DA	682-1½ 445 (500-1½)			
LNAV MDA	660-1 423 (500-1)		660-1¼ 423 (500-1¼)	
C CIRCLING	700-1 455 (500-1)		880-1¾ 635 (700-1¾)	960-2¼ 715 (800-2¼)



REIL Rwy 32 L
MIRL Rwy 1-19
HIRL Rwy 14-32 L

HOUSTON, TEXAS
Orig-A 22JUN17

30°21′N-95°25′W

CONROE-NORTH HOUSTON RGNL (CXO)
RNAV (GPS) RWY 19

SC-5, 25 FEB 2021 to 22 APR 2021

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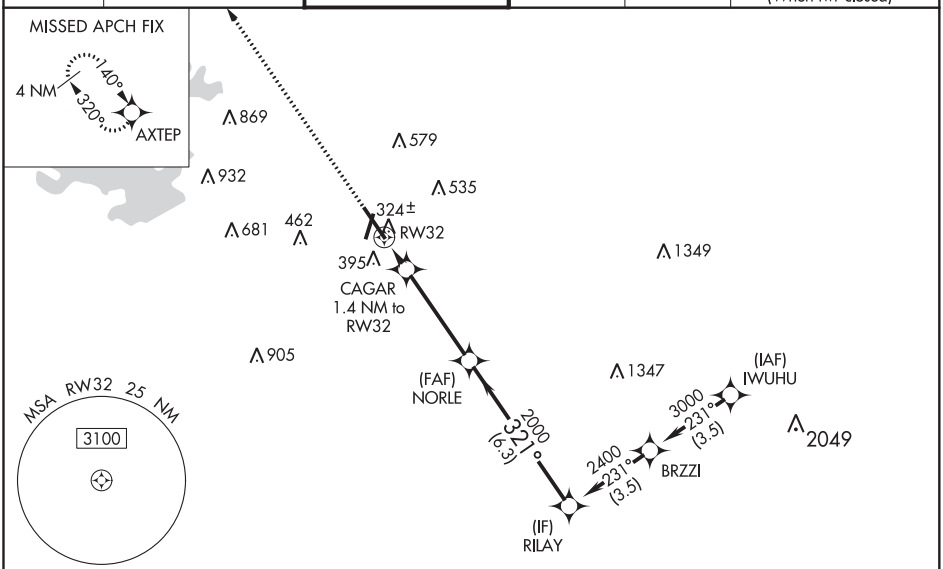
WAAS CH 62819 W32A	APP CRS 321°	Rwy ldg 7501 TDZE 245 Apt Elev 245

RNAV (GPS) RWY 32
CONROE-NORTH HOUSTON RGNL (CXO)

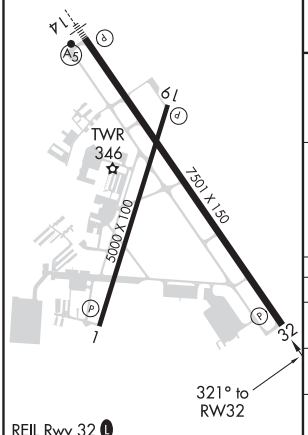
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -6°C (-22°F) or above 54°C (130°F). DME/DME RNP-0.3 NA.
Rwy 32 helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 2100 direct AXTEP and hold.

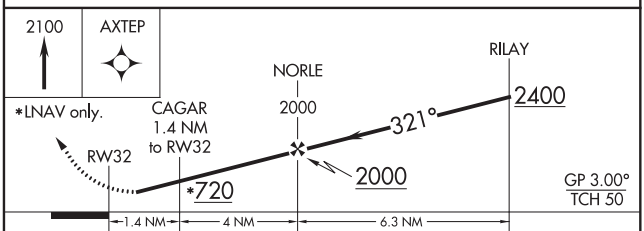
ATIS	HOUSTON APP CON	CONROE TOWER ★	GND CON	CLNC DEL	CLNC DEL
118.325	119.7 281.4	124.125 (CTAF) L	120.45	120.45	119.55 (When twr closed)



ELEV 245 D TDZE 245



REIL Rwy 32 L
MIRL Rwy 1-19
HIRL Rwy 14-32 L



CATEGORY	A	B	C	D
LPV DA	495-¾ 250 (300-¾)			
LNAV/VNAV DA	505-⅞ 260 (300-⅞)			
LNAV MDA	580-1 335 (400-1)			
C CIRCLING	700-1 455 (500-1)		880-1¾ 635 (700-1¾)	960-2¼ 715 (800-2¼)

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HOUSTON, TEXAS | AL-5573 (FAA) | 19283

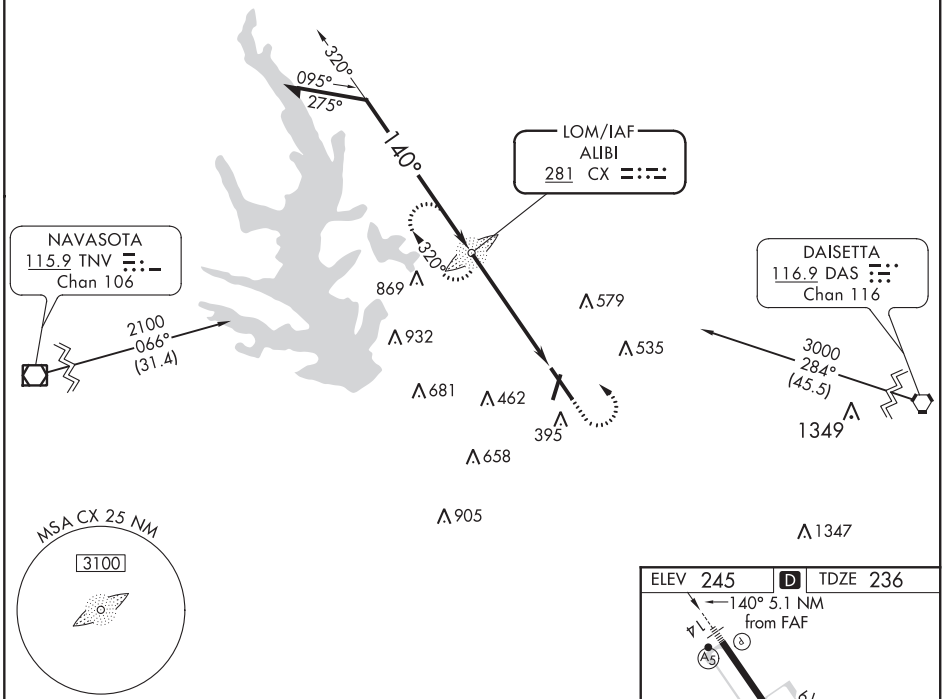
NDB RWY 14
CONROE-NORTH HOUSTON RGNL (CXO)

LOM CX	APP CRS	Rwy ldg / TDZE / Apt Elev
281	140°	7501 / 236 / 245

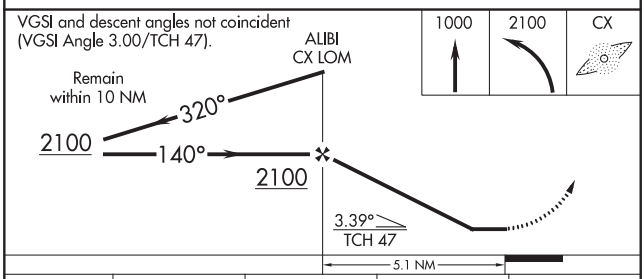
MALSR

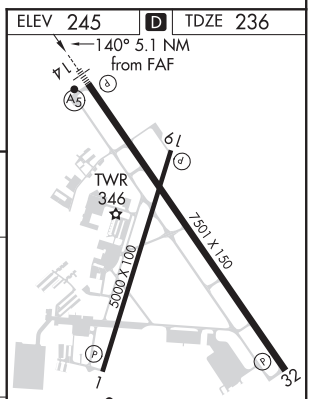
MISSED APPROACH: Climb to 1000 then climbing left turn to 2100 direct ALIBI LOM and hold.

ATIS	HOUSTON APP CON	CONROE TOWER *	GND CON	CLNC DEL	CLNC DEL (When twr closed)
118.325	119.7 281.4	124.125 (CTAF) L	120.45	120.45	119.55



VGSI and descent angles not coincident (VGSI Angle 3.00/TCH 47).





REIL Rwy 32 L
MIRL Rwy 1-19
HIRL Rwy 14-32 L

CATEGORY	A	B	C	D
S-14	880-¾ 644 (700-¾)		880-1⅜ 644 (700-1⅜)	
C CIRCLING	880-1 635 (700-1)		880-1⅞ 635 (700-1⅞)	960-2 715 (800-2)

FAF to MAP 5.1 NM					
Knots	60	90	120	150	180
Min:Sec	5:06	3:24	2:33	2:02	1:42

HOUSTON, TEXAS
Amdt 3C 25APR19

30°21′N-95°25′W

CONROE-NORTH HOUSTON RGNL (CXO)
NDB RWY 14

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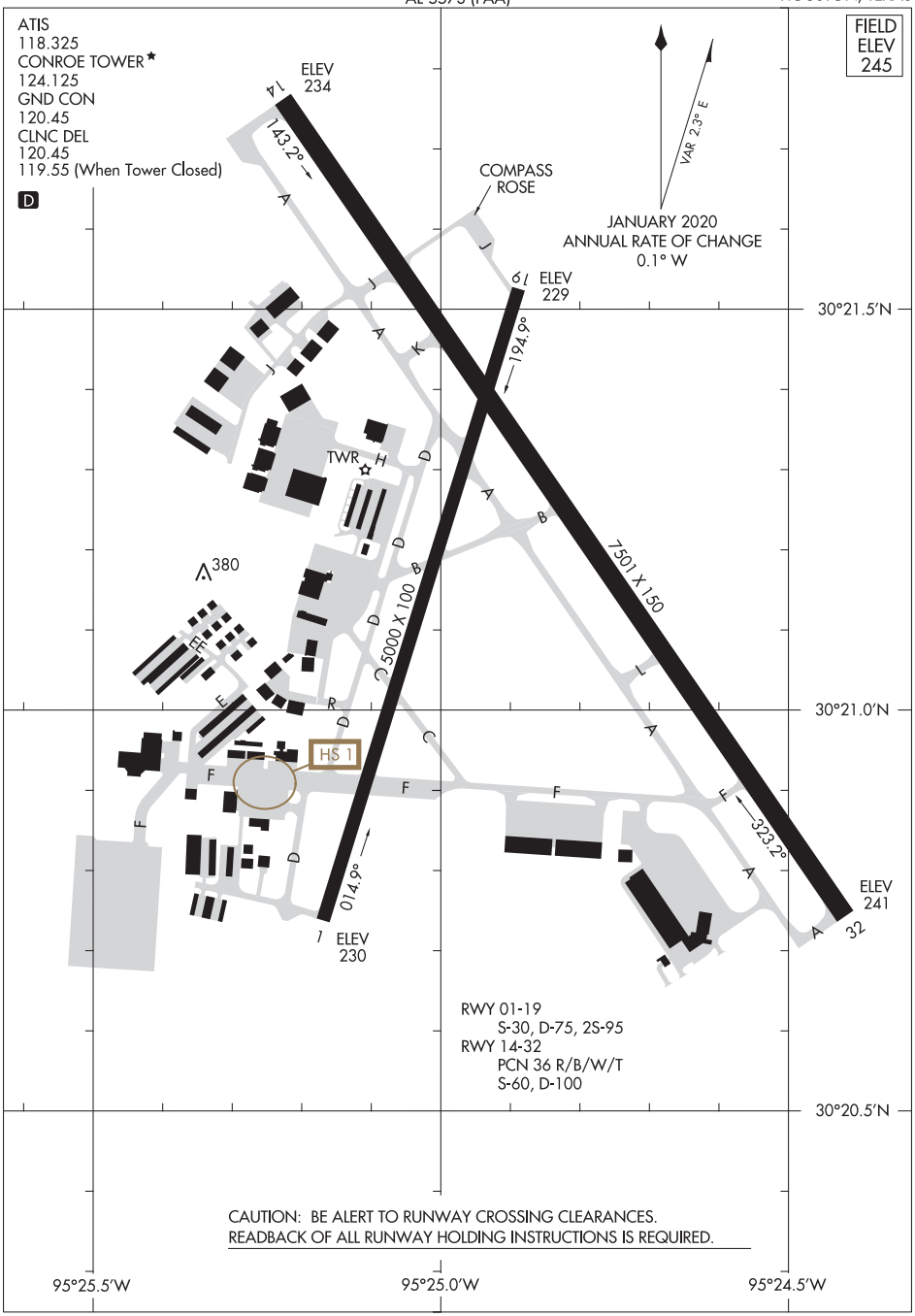
AL-5573 (FAA)



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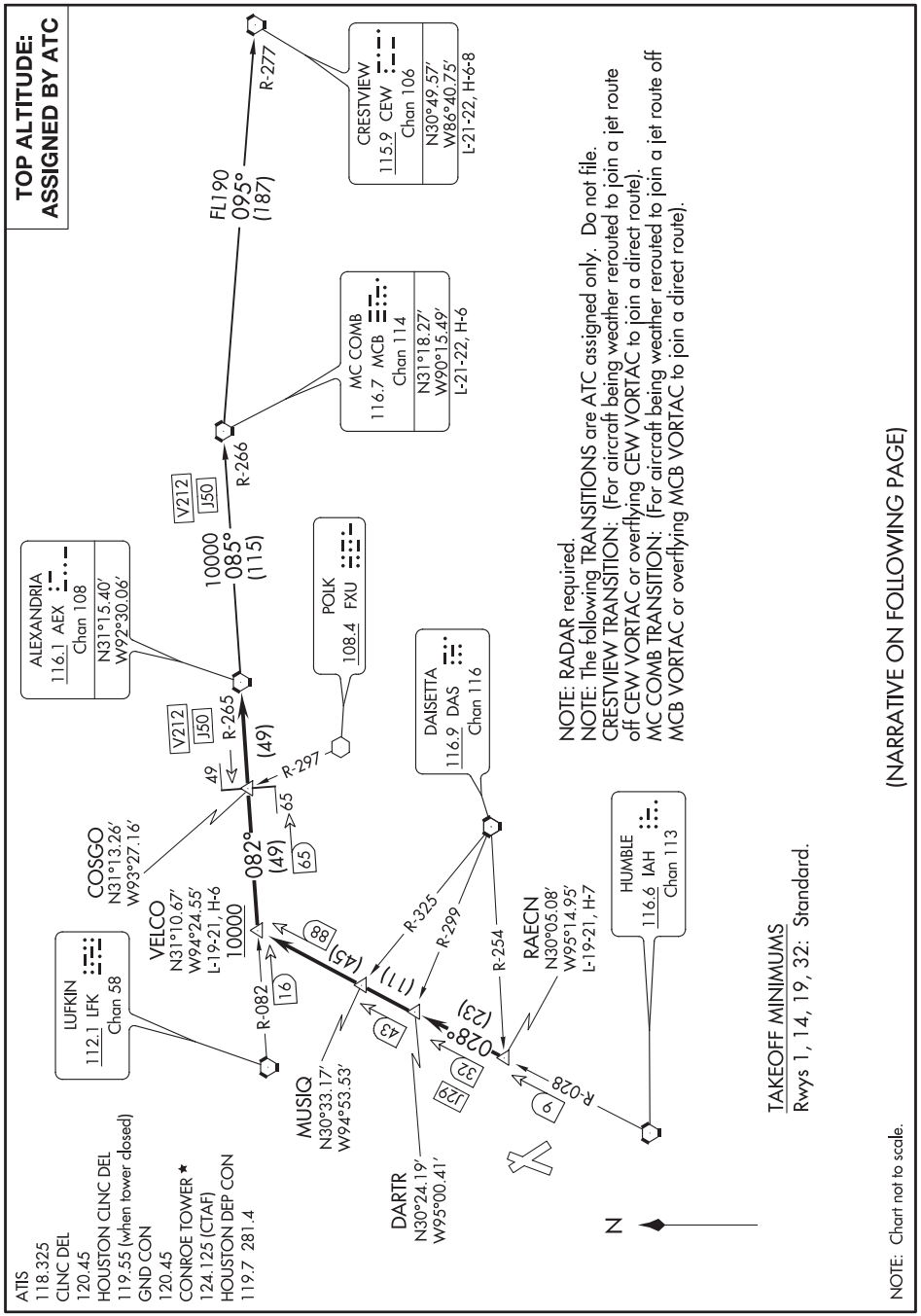
(AEX2.AEX) 19339 AL-5573 (FAA)

ALEXANDRIA TWO DEPARTURE

CONROE-NORTH HOUSTON RGNL (CXO)
HOUSTON, TEXAS



SC-5, 25 FEB 2021 to 22 APR 2021

ALEXANDRIA TWO DEPARTURE

(AEX2.AEX) 05DEC19

HOUSTON, TEXAS
CONROE-NORTH HOUSTON RGNL (CXO)

DEPARTURE ROUTE DESCRIPTION

TAKEOFF ALL RWYS: When entering controlled airspace, climb on assigned heading for RADAR vectors to RAECN INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .

. . . .on IAH R-028 to VELCO INT, cross VELCO INT at or above 10000, then right turn on LFK R-082 and AEX R-265 to AEX VORTAC.

CRESTVIEW TRANSITION (AEX2.CEW): From over AEX VORTAC on AEX R-085 and MCB R-266 to MCB VORTAC, then on MCB R-095 and CEW R-277 to CEW VORTAC.

MC COMB TRANSITION (AEX2.MCB): From over AEX VORTAC on AEX R-085 and MCB R-266 to MCB VORTAC.

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(BLTWY6.BLTWY) 19115

BLTWY SIX DEPARTURE (RNAV)

CONROE-NORTH HOUSTON RGNL (CXO)
AL-5573 (FAA)
HOUSTON, TEXAS

TOP ALTITUDE: ASSIGNED BY ATC

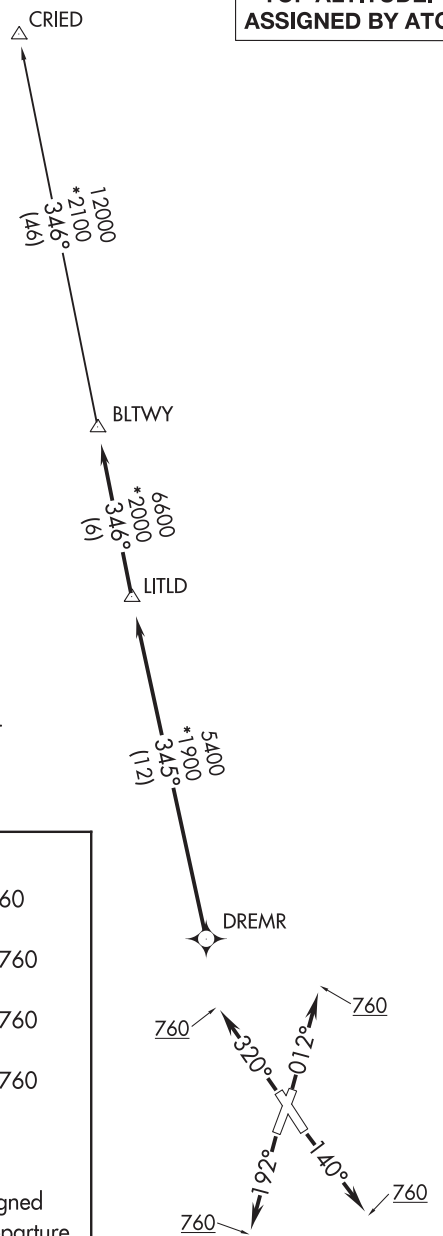
ATIS
118.325
CLINC DEL
120.45
119.55 (when tower closed)
GND CON
120.45
CONROE TOWER ★
124.125 (CTAF)
HOUSTON DEP CON
119.7 281.4

NOTE: RADAR required.

NOTE: DME/DME/IRU or GPS required.

NOTE: RNAV 1.

TAKEOFF MINIMUMS
Rwys 1, 14, 19, 32:
Standard with minimum climb of 500′ per NM to 760.



DEPARTURE ROUTE DESCRIPTION

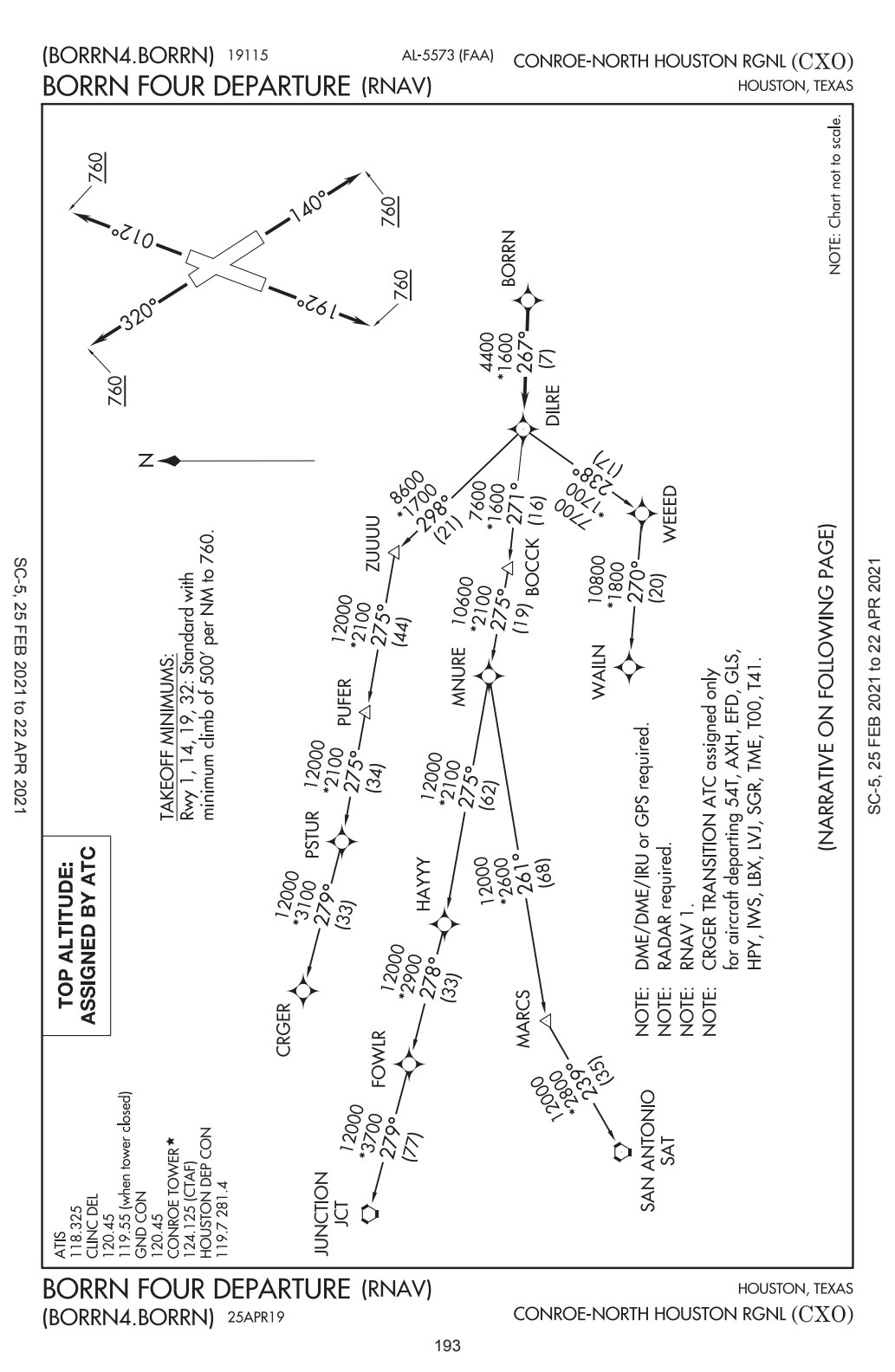
TAKEOFF RWY 1: Climb on heading 012° to 760 for RADAR vectors to DREMR, thence . . . .
TAKEOFF RWY 14: Climb on heading 140° to 760 for RADAR vectors to DREMR, thence . . . .
TAKEOFF RWY 19: Climb on heading 192° to 760 for RADAR vectors to DREMR, thence . . . .
TAKEOFF RWY 32: Climb on heading 320° to 760 for RADAR vectors to DREMR, thence . . . .

...on track 345° to LITLD, then on track 346° to BLTWY, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

CRIED TRANSITION (BLTWY6.CRIED)

NOTE: Chart not to scale.

SC-5, 25 FEB 2021 to 22 APR 2021


TOP ALTITUDE: ASSIGNED BY ATC
ATIS 118.325
CLNC DEL 120.45
119.55 (when tower closed)
GND CON 120.45
CONROE TOWER* 124.125 (CTAF)
HOUSTON DEP CON 119.7 281.4
TAKEOFF MINIMUMS:
Rwy 1, 14, 19, 32: Standard with minimum climb of 500' per NM to 760.
760
012°
140°
320°
192°
N
BORRN
4400 *1600 267° (7)
DILRE
8600 *1700 298° (21)
7600 *1600 271° (16)
7100 *1700 238° (17)
ZUUUU
BOCCK
WEEED
12000 *2100 275° (44)
10600 *2100 275° (19)
10800 *1800 270° (20)
PUFER
MNURE
WAILN
12000 *2100 275° (34)
12000 *2100 275° (62)
PSTUR
HAYYY
12000 *3100 279° (33)
12000 *2600 261° (68)
CRGER
12000 *2900 278° (33)
MARCS
FOWLR
12000 *2800 239° (35)
12000 *3700 279° (77)
JUNCTION JCT
SAN ANTONIO SAT
NOTE: DME/DME/IRU or GPS required.
NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: CRGER TRANSITION ATC assigned only for aircraft departing 54T, AXH, EFD, GLS, HPY, IWS, LBX, LVJ, SGR, TME, T00, T41.
(NARRATIVE ON FOLLOWING PAGE)
NOTE: Chart not to scale.
SC-5, 25 FEB 2021 to 22 APR 2021

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 1: Climb on heading 012° to 760, for RADAR vectors to BORRN, thence. . . .
TAKEOFF RWY 14: Climb on heading 140° to 760, for RADAR vectors to BORRN, thence. . . .
TAKEOFF RWY 19: Climb on heading 192° to 760, for RADAR vectors to BORRN, thence. . . .
TAKEOFF RWY 32: Climb on heading 320° to 760, for RADAR vectors to BORRN, thence. . . .

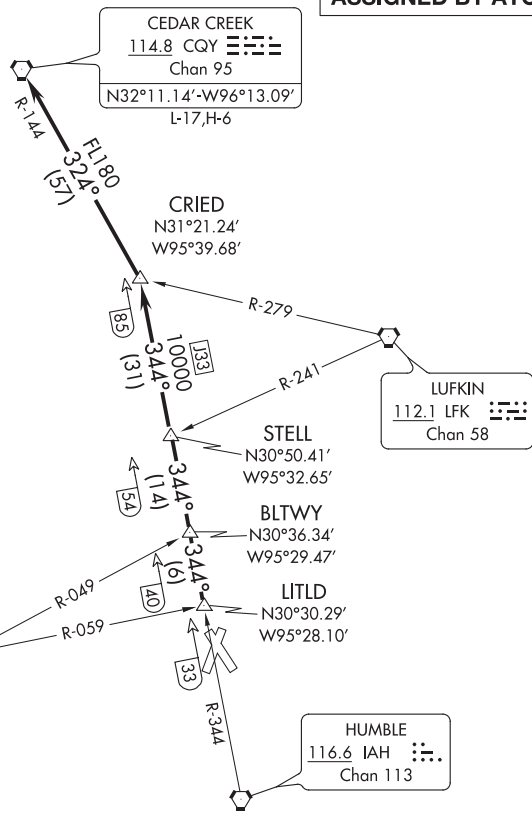
. . . .on track 267° to DILRE, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

CRGER TRANSITION (BORRN4.CRGER)
JUNCTION TRANSITION (BORRN4.JCT)
MNURE TRANSITION (BORRN4.MNURE)
SAN ANTONIO TRANSITION (BORRN4.SAT)
WAILN TRANSITION (BORRN4.WAILN)

SC-5, 25 FEB 2021 to 22 APR 2021

ATIS
118.325
CLNC DEL
120.45
119.55 (when tower closed)
GND CON 120.45
CONROE TOWER ★
124.125 (CTAF)
HOUSTON DEP CON
119.7 281.4

TOP ALTITUDE: ASSIGNED BY ATC



TAKEOFF MINIMUMS
Rwys 1, 14, 19, 32: Standard.

NOTE: RADAR required.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF ALL RUNWAYS: When entering controlled airspace, climb on assigned heading for RADAR vectors to LITLD INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence . . . .

. . . . on IAH R-344 to STELL INT, then on IAH R-344 to CRIED INT then left turn on CQY R-144 to CQY VORTAC.

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(ELD9.ELD) 18032 AL-5573 (FAA)

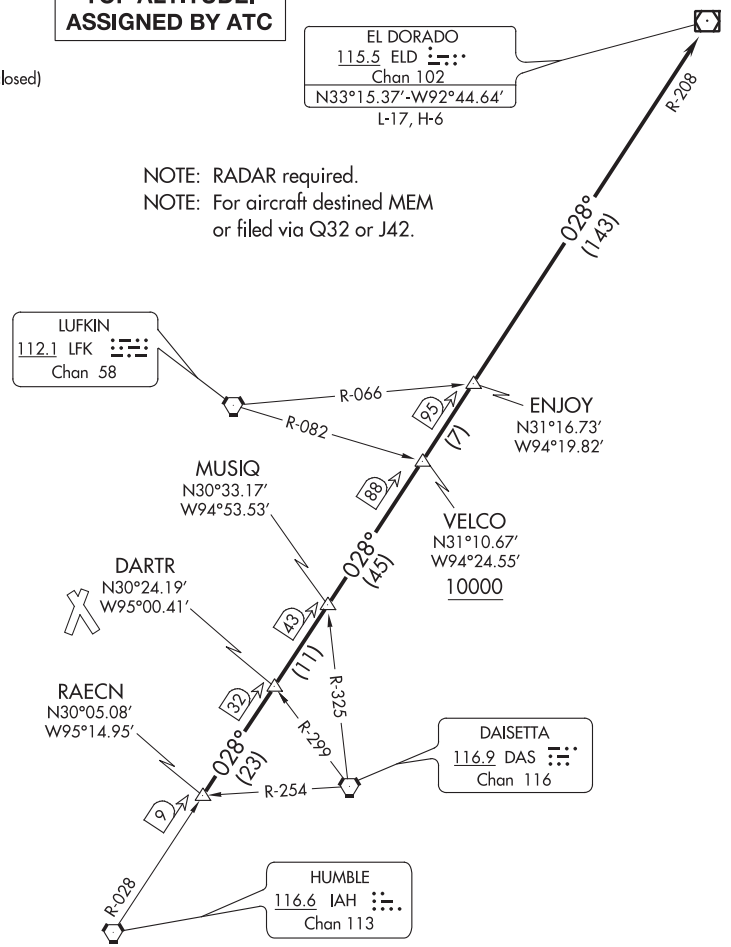
EL DORADO NINE DEPARTURE

CONROE-NORTH HOUSTON RGNL (CXO)
HOUSTON, TEXAS

ATIS
118.325
CLNC DEL
120.45
119.55 (when tower closed)
GND CON 120.45
CONROE TOWER ★
124.125 (CTAF)
HOUSTON DEP CON
119.7 281.4

TOP ALTITUDE: ASSIGNED BY ATC

NOTE: RADAR required.
NOTE: For aircraft destined MEM or filed via Q32 or J42.



TAKEOFF MINIMUMS
Rwys 1, 14, 19, 32: Standard.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF ALL RWYS: When entering controlled airspace, climb on assigned heading for RADAR vectors to RAECN INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .

. . . .on IAH R-028 and the ELD R-208 to ELD VOR/DME, cross VELCO INT at or above 10000.

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SC-5, 25 FEB 2021 to 22 APR 2021

ATIS
118.325
CLNC DEL
120.45
119.55 (when tower closed)
GND CON
120.45
CONROE TOWER★
124.125 (CTAF)
HOUSTON DEP CON
119.7 281.4

TOP ALTITUDE: ASSIGNED BY ATC

NOTE: RADAR required.
NOTE: For aircraft destined for the DFW terminal area only.

CEDAR CREEK
114.8 CQY
Chan 95

R-128

69

GIFFA
N31°22.89′
W95°15.10′
L-19-21, H-6
10000

85

LEONA
110.8 LOA
Chan 45

R-059

358°
(44)

R-121

BUMCO
N30°38.91′
W95°18.03′

41

358°
(10)

MONNT
N30°28.65′
W95°18.70′
L19-21, H7

31

DAISETTA
116.9 DAS
Chan 116

R-292

R-358

HUMBLE
116.6 IAH
Chan 113

TAKEOFF MINIMUMS
Rwys 1, 14, 19, 32: Standard.

NOTE: Chart not to scale.

SC-5, 25 FEB 2021 to 22 APR 2021

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DEPARTURE ROUTE DESCRIPTION

TAKEOFF ALL RWYS: When entering controlled airspace, climb on assigned heading for RADAR vectors to MONNT INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .

. . . . on IAH R-358 to cross GIFFA INT at or above 10000.

HOODO SIX DEPARTURE (RNAV)
(HOODO6.HOODO) 25APR19

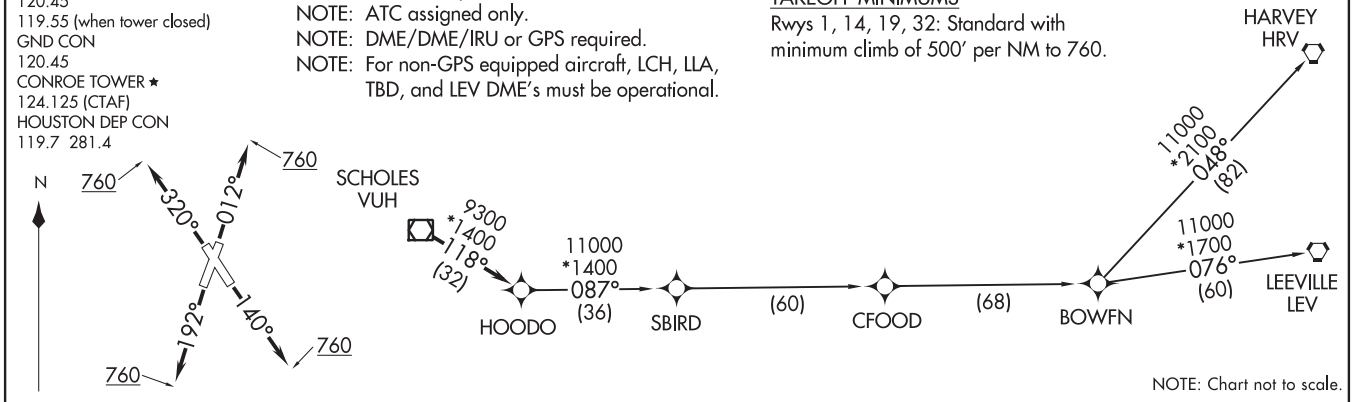
CONROE-NORTH HOUSTON RGNL (CXO)
HOUSTON, TEXAS

ATIS
118.325
CLNC DEL
120.45
119.55 (when tower closed)
GND CON
120.45
CONROE TOWER ★
124.125 (CTAF)
HOUSTON DEP CON
119.7 281.4

NOTE: RNAV 1.
NOTE: RADAR required.
NOTE: ATC assigned only.
NOTE: DME/DME/IRU or GPS required.
NOTE: For non-GPS equipped aircraft, LCH, LLA, TBD, and LEV DME's must be operational.

TOP ALTITUDE: ASSIGNED BY ATC

TAKEOFF MINIMUMS
Rwys 1, 14, 19, 32: Standard with minimum climb of 500' per NM to 760.



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 1: Climb heading 012° to 760, for RADAR vectors to VUH VOR/DME, thence . . . .
TAKEOFF RWY 14: Climb heading 140° to 760, for RADAR vectors to VUH VOR/DME, thence . . . .
TAKEOFF RWY 19: Climb heading 192° to 760, for RADAR vectors to VUH VOR/DME, thence . . . .
TAKEOFF RWY 32: Climb heading 320° to 760, for RADAR vectors to VUH VOR/DME, thence . . . .

. . . . on track 118° to HOODO, then on (transition). Maintain ATC assigned altitude.
Expect filed altitude 10 minutes after departure.

BOWFN TRANSITION (HOODO6.BOWFN)
CFOOD TRANSITION (HOODO6.CFOOD)
HARVEY TRANSITION (HOODO6.HRV)
LEEVILLE TRANSITION (HOODO6.LEV)
SBIRD TRANSITION (HOODO6.SBIRD)

HOODO SIX DEPARTURE (RNAV)
(HOODO6.HOODO) 19115
CONROE-NORTH HOUSTON RGNL (CXO)
HOUSTON, TEXAS
AL-5573 (FAA)

(INDIE7.INDIE) 19115

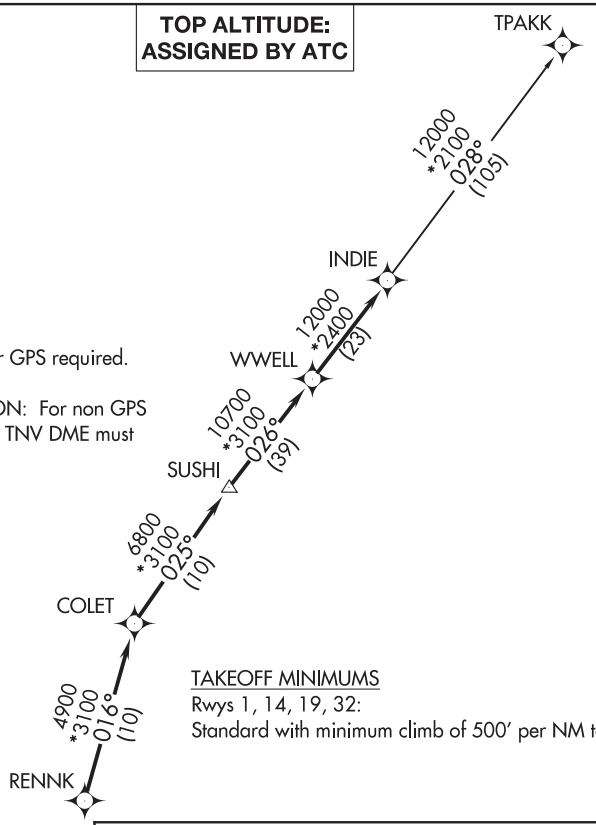
CONROE-NORTH HOUSTON RGNL (CXO)
HOUSTON, TEXAS

INDIE SEVEN DEPARTURE (RNAV)

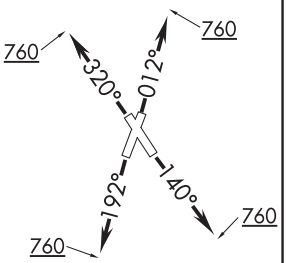
ATIS
118.325
CLINC DEL
120.45
119.55 (when tower closed)
GND CON
120.45
CONROE TOWER ★
124.125 (CTAF)
HOUSTON DEP CON
119.7 281.4

TOP ALTITUDE: ASSIGNED BY ATC

NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV 1.
NOTE: TPAKK TRANSITION: For non GPS equipped aircraft TNV DME must be operational.



TAKEOFF MINIMUMS
Rwys 1, 14, 19, 32:
Standard with minimum climb of 500′ per NM to 760.



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 1: Climb heading 012° to 760 for RADAR vectors to RENNK, thence . . . .
TAKEOFF RWY 14: Climb heading 140° to 760 for RADAR vectors to RENNK, thence . . . .
TAKEOFF RWY 19: Climb heading 192° to 760 for RADAR vectors to RENNK, thence . . . .
TAKEOFF RWY 32: Climb heading 320° to 760 for RADAR vectors to RENNK, thence . . . .

. . . . on track 016° to COLET, then on track 025° to SUSHI, then on track 026° to WWELL, then on track 026° to INDIE, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

TPAKK TRANSITION (INDIE7.TPAKK)

SC-5, 25 FEB 2021 to 22 APR 2021

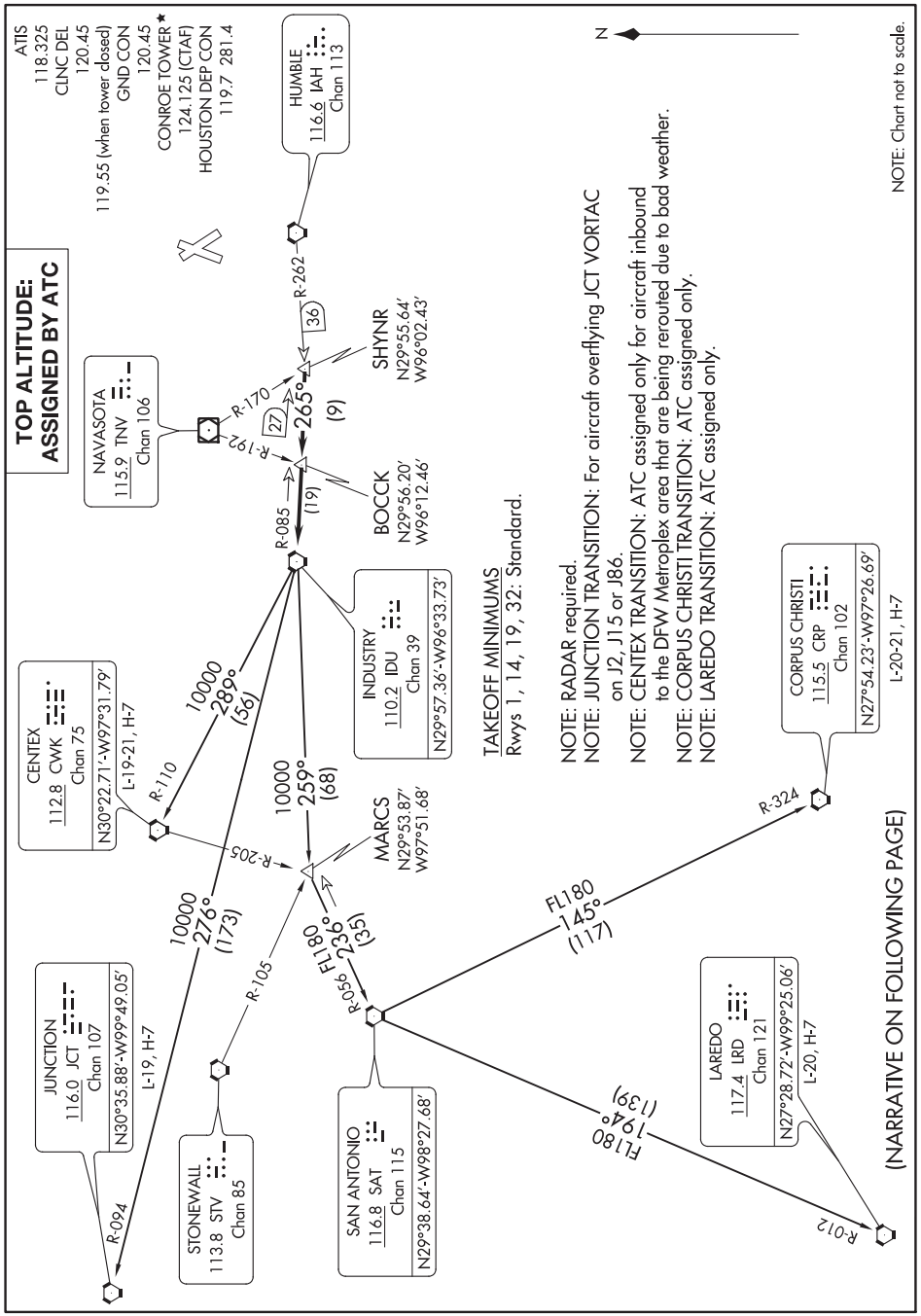
SC-5, 25 FEB 2021 to 22 APR 2021

(IDU9.IDU) 18032

INDUSTRY NINE DEPARTURE

AL-5573 (FAA)

CONROE-NORTH HOUSTON RGNL (CXO)
HOUSTON, TEXAS



SC-5, 25 FEB 2021 to 22 APR 2021

INDUSTRY NINE DEPARTURE

(IDU9.IDU) 22JUN17

HOUSTON, TEXAS
CONROE-NORTH HOUSTON RGNL (CXO)

DEPARTURE ROUTE DESCRIPTION

TAKEOFF ALL RWYS: When entering controlled airspace, climb on assigned heading for RADAR vectors to SHYNR INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence . . . .

. . . . on IDU R-085 to BOCCK INT, then on IDU R-085 to IDU VORTAC.

CENTEX TRANSITION (IDU9.CWK): From over IDU VORTAC on IDU R-289 and CWK R-110 to CWK VORTAC.

CORPUS CHRISTI TRANSITION (IDU9.CRP): From over IDU VORTAC on IDU R-259 to MARCS INT, then on SAT R-056 to SAT VORTAC, then on SAT R-145 and CRP R-324 to CRP VORTAC.

JUNCTION TRANSITION (IDU9.JCT): From over IDU VORTAC on IDU R-276 and JCT R-094 to JCT VORTAC.

LAREDO TRANSITION (IDU9.LRD): From over IDU VORTAC on IDU R-259 to MARCS INT, then on SAT R-056 to SAT VORTAC, then on SAT R-194 and LRD R-012 to LRD VORTAC.

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SC-5, 25 FEB 2021 to 22 APR 2021

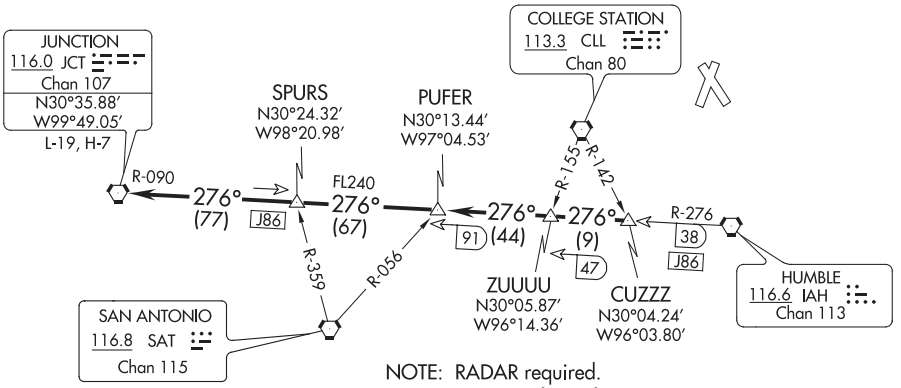
(JCT1.JCT) 18032 AL-5573 (FAA)

JUNCTION ONE DEPARTURE

CONROE-NORTH HOUSTON RGNL (CXO)
HOUSTON, TEXAS

ATIS
118.325
CLNC DEL
120.45 119.55 (when tower closed)
GND CON
120.45
CONROE TOWER★
124.125
HOUSTON DEP CON
119.7 281.4

TOP ALTITUDE: ASSIGNED BY ATC



NOTE: RADAR required.
NOTE: For aircraft overflying JCT VORTAC on J86 filing FL240 or above.

TAKEOFF MINIMUMS
Rwys 1, 14, 19, 32: Standard.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF ALL RUNWAYS: When entering controlled airspace, climb on assigned heading for RADAR vectors to CUZZZ INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence . . . .

. . . . on IAH R-276 and JCT R-090 to JCT VORTAC.

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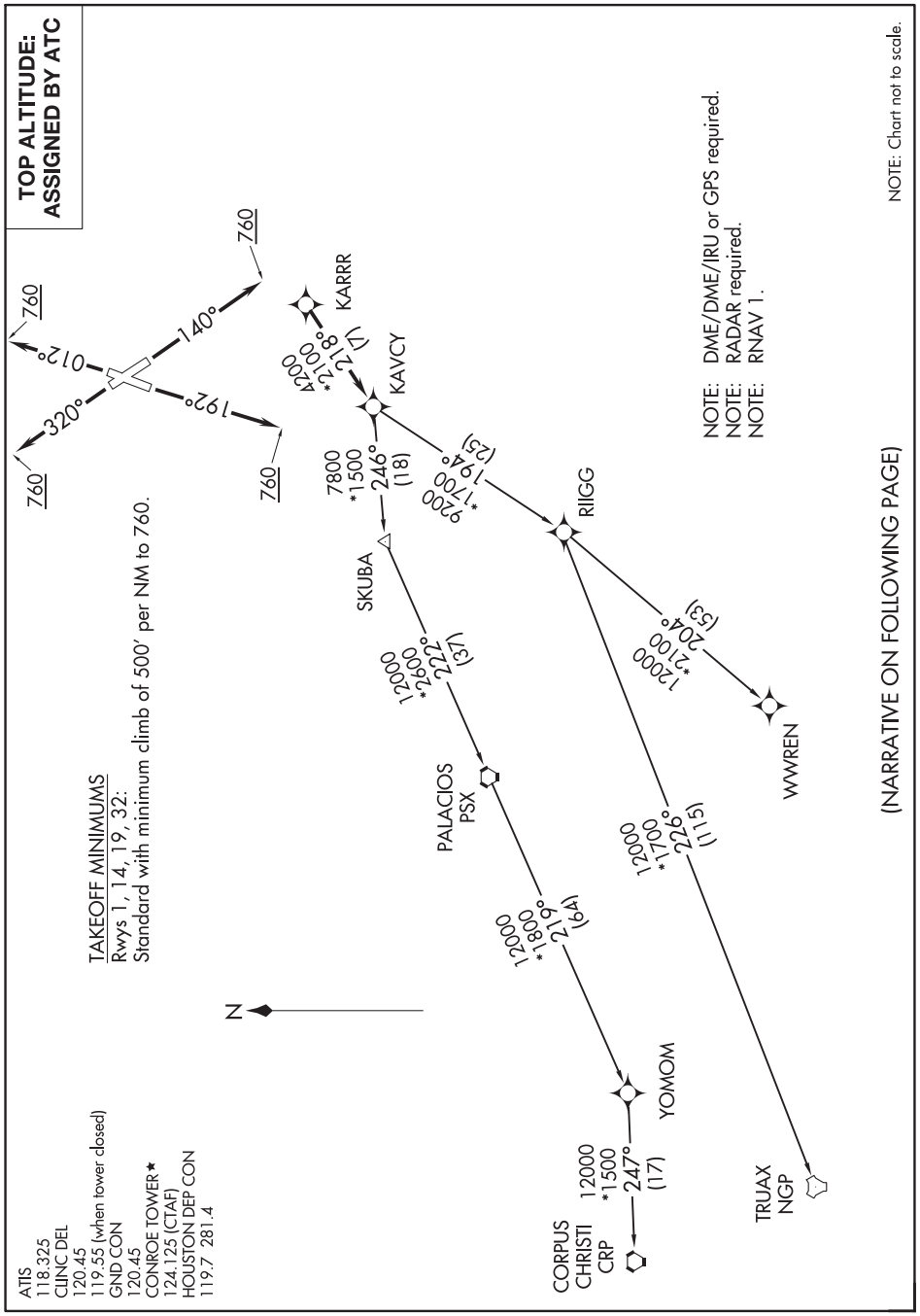
SC-5, 25 FEB 2021 to 22 APR 2021

KARRR SIX DEPARTURE (RNAV)



SC-5, 25 FEB 2021 to 22 APR 2021

SC-5, 25 FEB 2021 to 22 APR 2021

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 1: Climb on heading 012° to 760, for RADAR vectors to KARRR, thence. . . .
TAKEOFF RWY 14: Climb on heading 140° to 760, for RADAR vectors to KARRR, thence. . . .
TAKEOFF RWY 19: Climb on heading 192° to 760, for RADAR vectors to KARRR, thence. . . .
TAKEOFF RWY 32: Climb on heading 320° to 760, for RADAR vectors to KARRR, thence. . . .

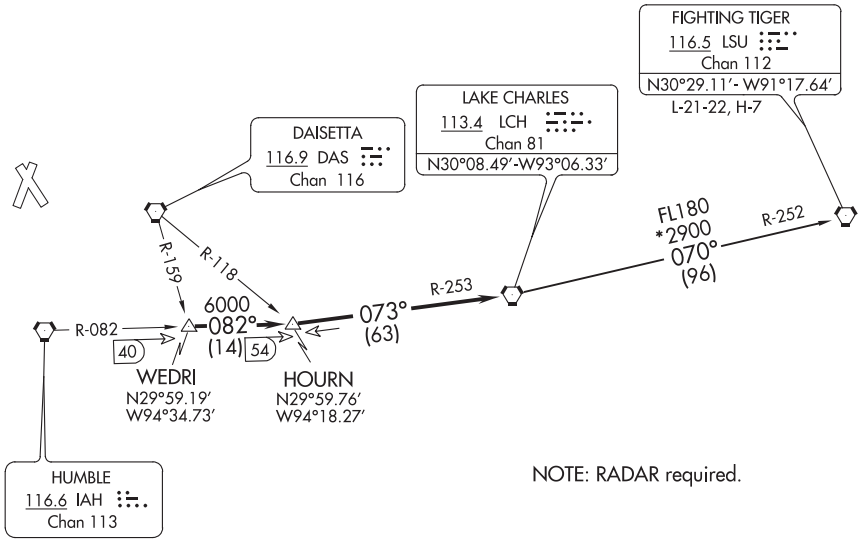
. . . .on track 218° to KAVCY, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

CORPUS CHRISTI TRANSITION (KARRR6.CRP)
PALACIOS TRANSITION (KARRR6.PSX)
TRUAX TRANSITION (KARRR6.NGP)
WWREN TRANSITION (KARRR6.WWREN)
YOMOM TRANSITION (KARRR6.YOMOM)

SC-5, 25 FEB 2021 to 22 APR 2021

ATIS
118.325
CLNC DEL
120.45 119.55 (when tower closed)
GND CON
120.45
CONROE TOWER ★
124.125 (CTAF)
HOUSTON DEP CON
119.7 281.4

TOP ALTITUDE: ASSIGNED BY ATC



NOTE: RADAR required.

TAKEOFF MINIMUMS
Rwy 1, 14, 19, 32 Standard.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

When entering controlled airspace, climb on assigned heading for RADAR vectors to WEDRI INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .

. . . .on IAH R-082 to HOURN INT, then on LCH R-253 to LCH VORTAC.

FIGHTING TIGERS TRANSITION (LCH5.LSU): From over LCH VORTAC on LCH R-070 and LSU R-252 to LSU VORTAC.

SC-5, 25 FEB 2021 to 22 APR 2021
SC-5, 25 FEB 2021 to 22 APR 2021

(LOA3.LOA) 18032

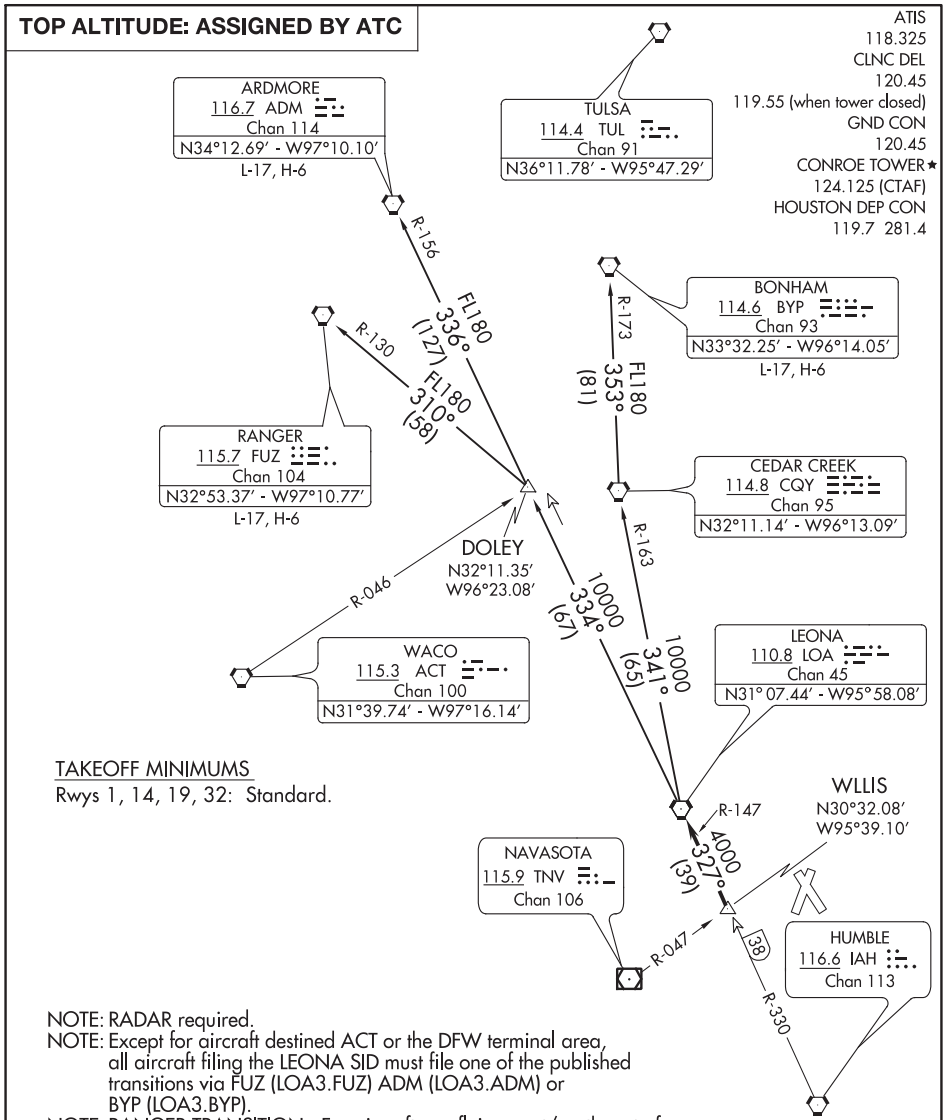
LEONA THREE DEPARTURE

AL-5573 (FAA)

CONROE-NORTH HOUSTON RGNL (CXO)
HOUSTON, TEXAS

TOP ALTITUDE: ASSIGNED BY ATC

ATIS
118.325
CLNC DEL
120.45
119.55 (when tower closed)
GND CON
120.45
CONROE TOWER★
124.125 (CTAF)
HOUSTON DEP CON
119.7 281.4



TAKEOFF MINIMUMS

Rwys 1, 14, 19, 32: Standard.

NOTE: RADAR required.
NOTE: Except for aircraft destined ACT or the DFW terminal area, all aircraft filing the LEONA SID must file one of the published transitions via FUZ (LOA3.FUZ) ADM (LOA3.ADM) or BYP (LOA3.BYP).
NOTE: RANGER TRANSITION: For aircraft overflying west/northwest of the DFW terminal area FL240 and above.
NOTE: ARDMORE TRANSITION: For aircraft overflying north/northwest of the DFW terminal area FL240 and above.
NOTE: BONHAM TRANSITION: For aircraft overflying/landing TUL VORTAC FL240 and above.

NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

SC-5, 25 FEB 2021 to 22 APR 2021

DEPARTURE ROUTE DESCRIPTION

TAKEOFF ALL RUNWAYS: When entering controlled airspace, climb on assigned heading for RADAR vectors to WLLIS INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence . . . .

. . . . on LOA R-147 to LOA VORTAC.

ARDMORE TRANSITION (LOA3.ADM): From over LOA VORTAC on LOA R-334 to DOLEY INT, then on ADM R-156 to ADM VORTAC.

BONHAM TRANSITION (LOA3.BYP): From over LOA VORTAC on LOA R-341 and CQY R-163 to CQY VORTAC, then on BYP R-173 to BYP VORTAC.

RANGER TRANSITION (LOA3.FUZ): From over LOA VORTAC on LOA R-334 to DOLEY INT, then on FUZ R-130 to FUZ VORTAC.

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(LFK2.LFK) 18032 AL-5573 (FAA) CONROE-NORTH HOUSTON RGNL (CXO)

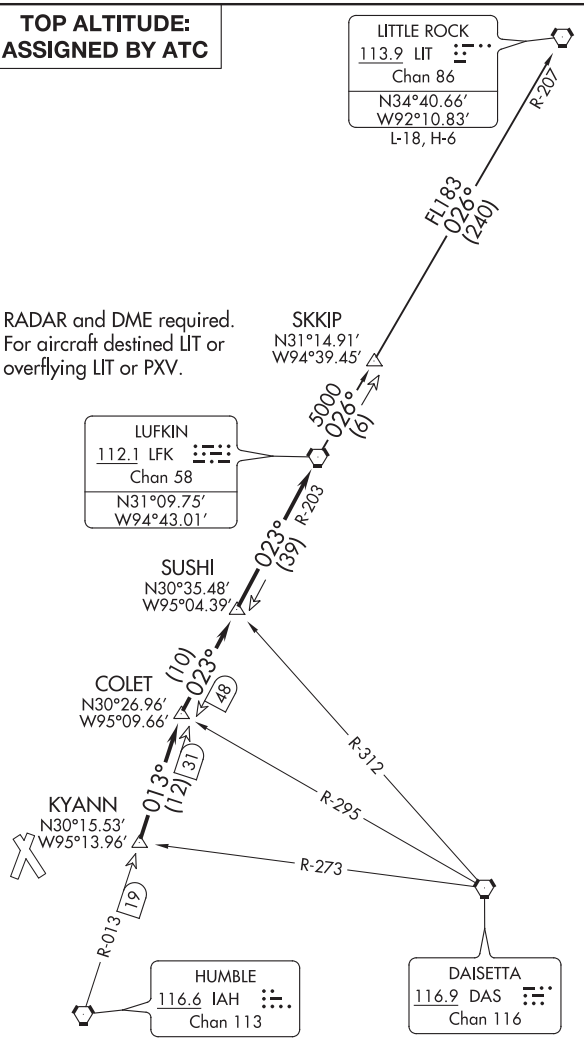
LUFKIN TWO DEPARTURE

HOUSTON, TEXAS

ATIS
118.325
CLNC DEL
120.45
119.55 (when tower closed)
GND CON
120.45
CONROE TOWER★
124.125 (CTAF)
HOUSTON DEP CON
119.7 281.4

TOP ALTITUDE: ASSIGNED BY ATC

NOTE: RADAR and DME required.
NOTE: For aircraft destined LIT or overflying LIT or PXV.



TAKEOFF MINIMUMS
Rwys 1, 14, 19, 32: Standard.

NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

SC-5, 25 FEB 2021 to 22 APR 2021
SC-5, 25 FEB 2021 to 22 APR 2021

DEPARTURE ROUTE DESCRIPTION

When entering controlled airspace, climb on assigned heading for RADAR vectors to KYANN INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .

. . . .on IAH R-013 to COLET INT, then right turn on LFK R-203 to LFK VORTAC.

LITTLE ROCK TRANSITION (LFK2.LIT): From over LFK VORTAC on LFK R-026 to SKKIP INT, then on LFK R-026 and LIT R-207 to LIT VORTAC.

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(LURIC7.LURIC) 19115 AL-5573 (FAA) CONROE-NORTH HOUSTON RGNL (CXO)

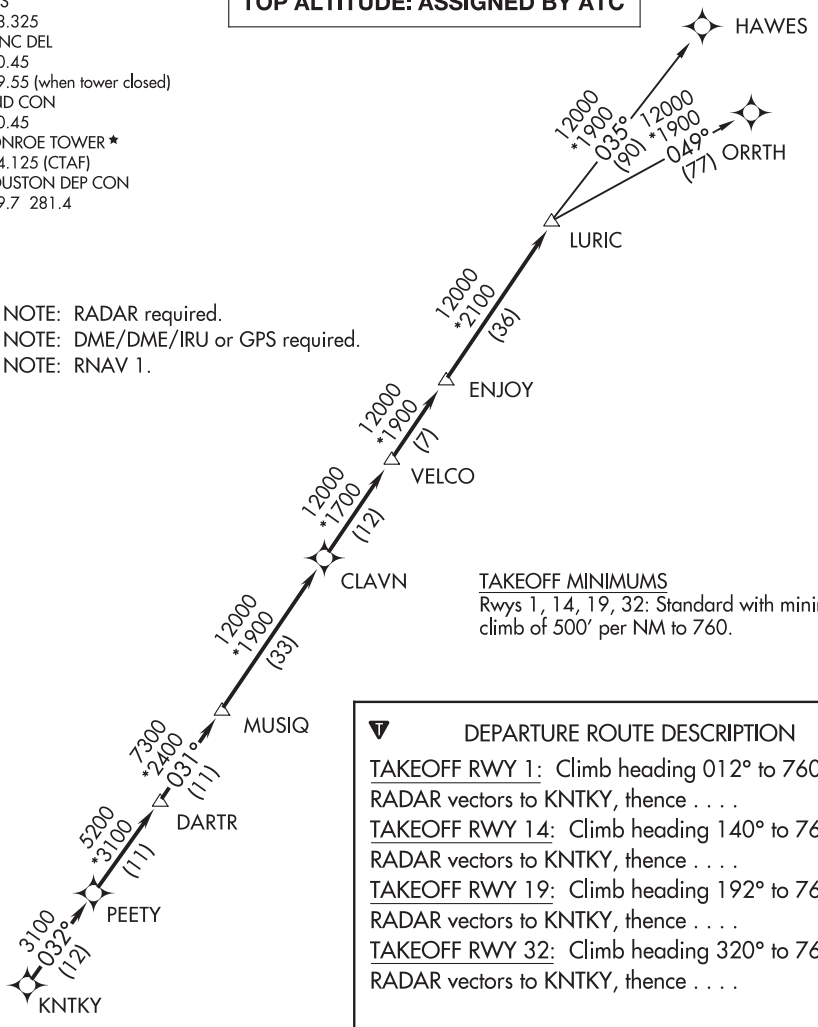
LURIC SEVEN DEPARTURE (RNAV)

HOUSTON, TEXAS

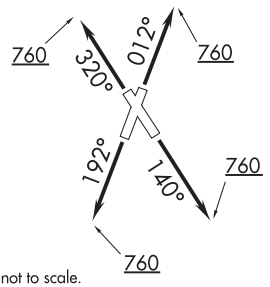
TOP ALTITUDE: ASSIGNED BY ATC

ATIS
118.325
CLINC DEL
120.45
119.55 (when tower closed)
GND CON
120.45
CONROE TOWER *
124.125 (CTAF)
HOUSTON DEP CON
119.7 281.4

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



TAKEOFF MINIMUMS
Rwys 1, 14, 19, 32: Standard with minimum climb of 500′ per NM to 760.



NOTE: Chart not to scale.

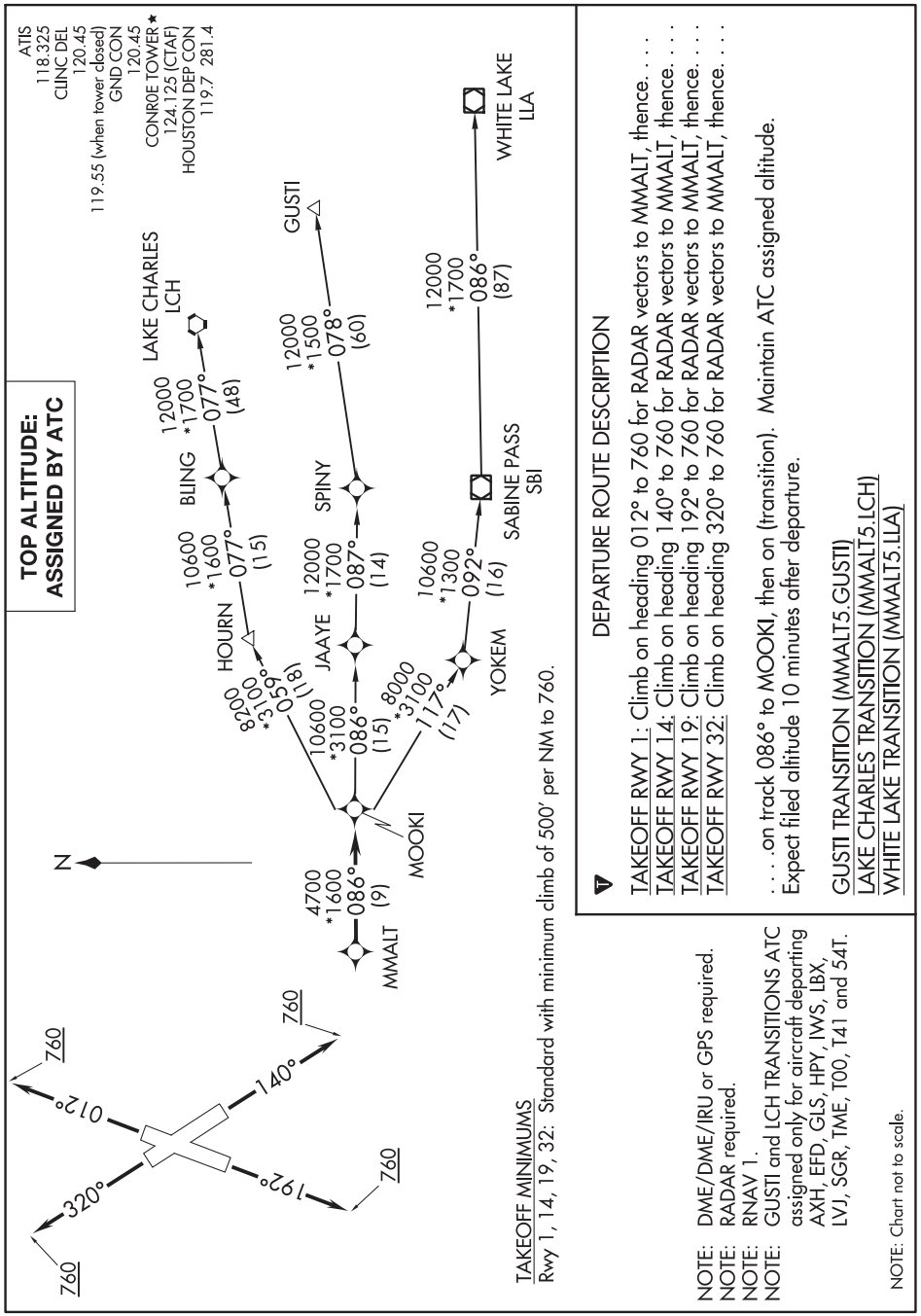
DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 1: Climb heading 012° to 760 for RADAR vectors to KNTKY, thence . . . .
TAKEOFF RWY 14: Climb heading 140° to 760 for RADAR vectors to KNTKY, thence . . . .
TAKEOFF RWY 19: Climb heading 192° to 760 for RADAR vectors to KNTKY, thence . . . .
TAKEOFF RWY 32: Climb heading 320° to 760 for RADAR vectors to KNTKY, thence . . . .

. . . . on track 032° to PEETY, then on track 032° to DARTR, then on track 031° to MUSIQ, then on track 031° to CLAVN, then on track 031° to VELCO, then on track 031° to ENJOY, then on track 031° to LURIC, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

HAWES TRANSITION (LURIC7.HAWES)
ORRTH TRANSITION (LURIC7.ORRTH)

SC-5, 25 FEB 2021 to 22 APR 2021


ATIS
118.325
CLINC DEL
120.45
119.55 (when tower closed)
GND CON
120.45
CONROE TOWER ★
124.125 (CTAF)
HOUSTON DEP CON
119.7 281.4
TOP ALTITUDE:
ASSIGNED BY ATC
N
760
012°
320°
760
140°
192°
760
760
4700
*1600
086°
(9)
MMALT
MOOKI
10600
*3100
086°
(15)
JAAYE
12000
*1700
087°
(14)
SPINY
12000
*1500
078°
(60)
GUSTI
8000
*3100
050°
(18)
HOURN
10600
*1600
077°
(15)
BLING
12000
*1700
077°
(48)
LAKE CHARLES
LCH
8000
*3100
117°
(17)
YOKEM
10600
*1300
092°
(16)
SABINE PASS
SBI
12000
*1700
086°
(87)
WHITE LAKE
LLA
TAKEOFF MINIMUMS
Rwy 1, 14, 19, 32: Standard with minimum climb of 500' per NM to 760.
NOTE: DME/DME/IRU or GPS required.
NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: GUSTI and LCH TRANSITIONS ATC assigned only for aircraft departing AXH, EFD, GLS, HPY, IWS, LBX, LVJ, SGR, TME, T00, T41 and 54T.
NOTE: Chart not to scale.
DEPARTURE ROUTE DESCRIPTION
TAKEOFF RWY 1: Climb on heading 012° to 760 for RADAR vectors to MMALT, thence. . . .
TAKEOFF RWY 14: Climb on heading 140° to 760 for RADAR vectors to MMALT, thence. . . .
TAKEOFF RWY 19: Climb on heading 192° to 760 for RADAR vectors to MMALT, thence. . . .
TAKEOFF RWY 32: Climb on heading 320° to 760 for RADAR vectors to MMALT, thence. . . .
. . . .on track 086° to MOOKI, then on (transition). Maintain ATC assigned altitude.
Expect filed altitude 10 minutes after departure.
GUSTI TRANSITION (MMALT5.GUSTI)
LAKE CHARLES TRANSITION (MMALT5.LCH)
WHITE LAKE TRANSITION (MMALT5.LLA)
SC-5, 25 FEB 2021 to 22 APR 2021
SC-5, 25 FEB 2021 to 22 APR 2021

(PSX1.PSX) 20254

PALACIOS ONE DEPARTURE

AL-5573 (FAA)

CONROE-NORTH HOUSTON RGNL (CXO)
HOUSTON, TEXAS

TOP ALTITUDE: ASSIGNED BY ATC

TAKEOFF MINIMUMS
Rwys 1, 14, 19, 32: Standard.

ATIS
118.325
CLNC DEL
120.45
119.55 (when tower closed)
GND CON
120.45
CONROE TOWER★
124.125 (CTAF)
HOUSTON DEP CON
119.7 281.4

N

EAGLE LAKE
116.4 ELA
Chan 111

R-127

SKUBA
N29°11.72'
W95°47.47'
L-19-21, H-7

218°
R-038 (37)

PALACIOS
117.3 PSX
Chan 120
N28°45.87'-W96°18.37'

10000
253°
(99)

R-073

THREE RIVERS
111.4 THX
Chan 51
N28°30.30'-W98°09.03'

FL180
338°
(70)

R-158

SAN ANTONIO
116.8 SAT
Chan 115
N29°38.64'-W98°27.68'
L-19, H-7

FL180
259°
(51)

R-078

COTULLA
115.8 COT
Chan 105
N28°27.72'-W99°07.11'

FL180
318°
(112)

R-136

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

FL180
283°
(150)

R-100

ROCKSPRINGS
114.55 RSG
Chan 92 (Y)
N30°00.88'-W100°17.99'

(NARRATIVE ON FOLLOWING PAGE)

NOTE: RADAR required.
NOTE: Chart not to scale.

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PALACIOS ONE DEPARTURE

(PSX1.PSX) 20JUN19

HOUSTON, TEXAS
CONROE-NORTH HOUSTON RGNL (CXO)

DEPARTURE ROUTE DESCRIPTION

TAKEOFF ALL RUNWAYS: When entering controlled airspace, climb on assigned heading for RADAR vectors to SKUBA INT. Maintain ATC assigned altitude.
Expect filed altitude 10 minutes after departure, thence. . . .

. . . .on PSX R-038 to PSX VORTAC.

FORT STOCKTON TRANSITION (PSX1.FST): From over PSX VORTAC on PSX R-253 and THX R-073 to THX VORTAC, then on THX R-259 and COT R-078 to COT VORTAC, then on COT R-318 and RSG R-136 to RSG VORTAC, then on RSG R-283 and FST R-100 to FST VORTAC.

SAN ANTONIO TRANSITION (PSX1.SAT): From over PSX VORTAC on PSX R-253 and THX R-073 to THX VORTAC, then on SAT R-158 to SAT VORTAC.

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(STRYA7.STRYA) 19115 AL-5573 (FAA)

CONROE-NORTH HOUSTON RGNL (CXO)
HOUSTON, TEXAS

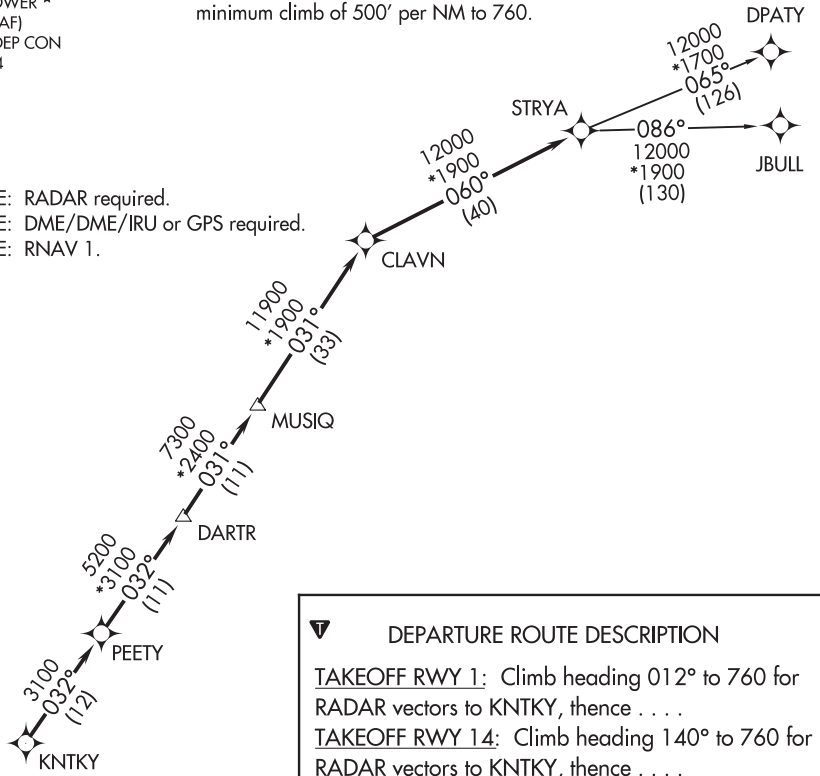
STRYA SEVEN DEPARTURE (RNAV)

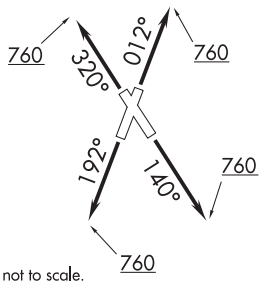
TOP ALTITUDE: ASSIGNED BY ATC

ATIS
118.325
CLINC DEL
120.45
119.55 (when tower closed)
GND CON
120.45
CONROE TOWER ★
124.125 (CTAF)
HOUSTON DEP CON
119.7 281.4

TAKEOFF MINIMUMS
Rwys 1, 14, 19, 32: Standard with minimum climb of 500′ per NM to 760.

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





NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 1: Climb heading 012° to 760 for RADAR vectors to KNTKY, thence . . . .
TAKEOFF RWY 14: Climb heading 140° to 760 for RADAR vectors to KNTKY, thence . . . .
TAKEOFF RWY 19: Climb heading 192° to 760 for RADAR vectors to KNTKY, thence . . . .
TAKEOFF RWY 32: Climb heading 320° to 760 for RADAR vectors to KNTKY, thence . . . .

. . . . on track 032° to PEETY, then on track 032° to DARTR, then on track 031° to MUSIQ, then on track 031° to CLAVN, then on track 060° to STRYA, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

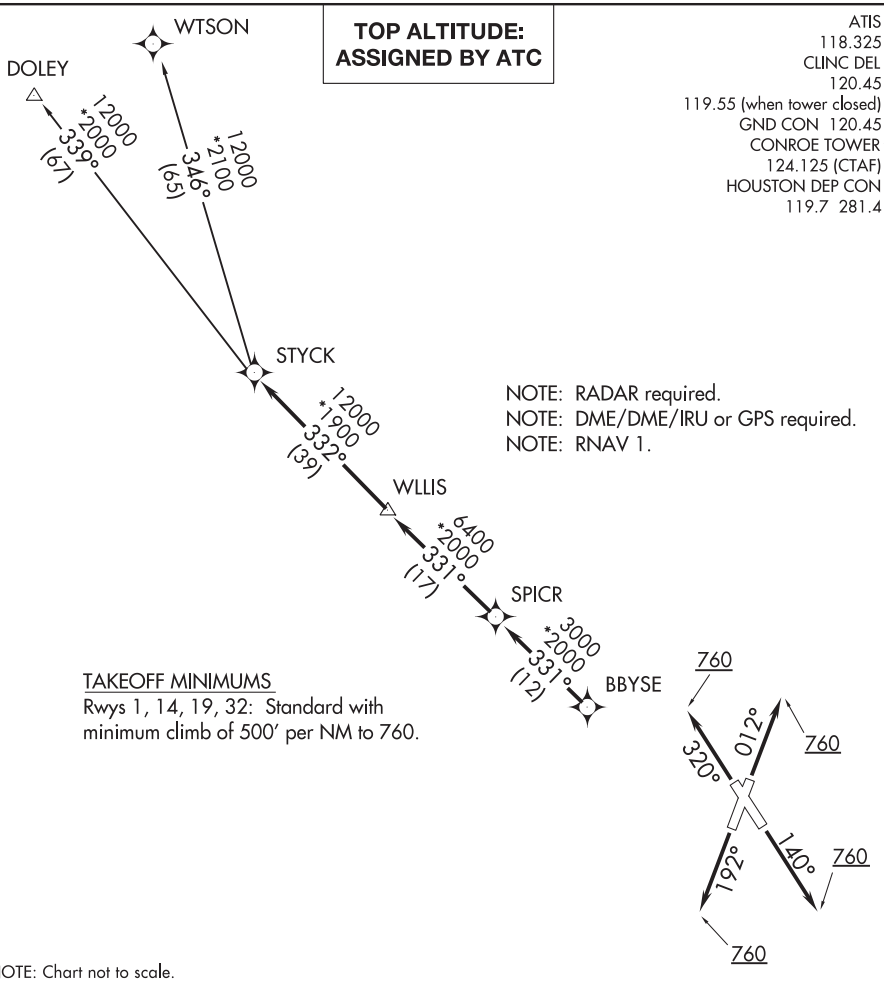
DPATY TRANSITION (STRYA7.DPATY)
JBULL TRANSITION (STRYA7.JBULL)

SC-5, 25 FEB 2021 to 22 APR 2021

STYCK SEVEN DEPARTURE (RNAV)

TOP ALTITUDE: ASSIGNED BY ATC

ATIS
118.325
CLINC DEL
120.45
119.55 (when tower closed)
GND CON 120.45
CONROE TOWER ★
124.125 (CTAF)
HOUSTON DEP CON
119.7 281.4



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

TAKEOFF MINIMUMS
Rwys 1, 14, 19, 32: Standard with minimum climb of 500′ per NM to 760.

NOTE: Chart not to scale.

SC-5, 25 FEB 2021 to 22 APR 2021

SC-5, 25 FEB 2021 to 22 APR 2021

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 1: Climb heading 012° to 760 for RADAR vectors to BBYSE, thence. . . .
TAKEOFF RWY 14: Climb heading 140° to 760 for RADAR vectors to BBYSE, thence. . . .
TAKEOFF RWY 19: Climb heading 192° to 760 for RADAR vectors to BBYSE, thence. . . .
TAKEOFF RWY 32: Climb heading 320° to 760 for RADAR vectors to BBYSE, thence. . . .

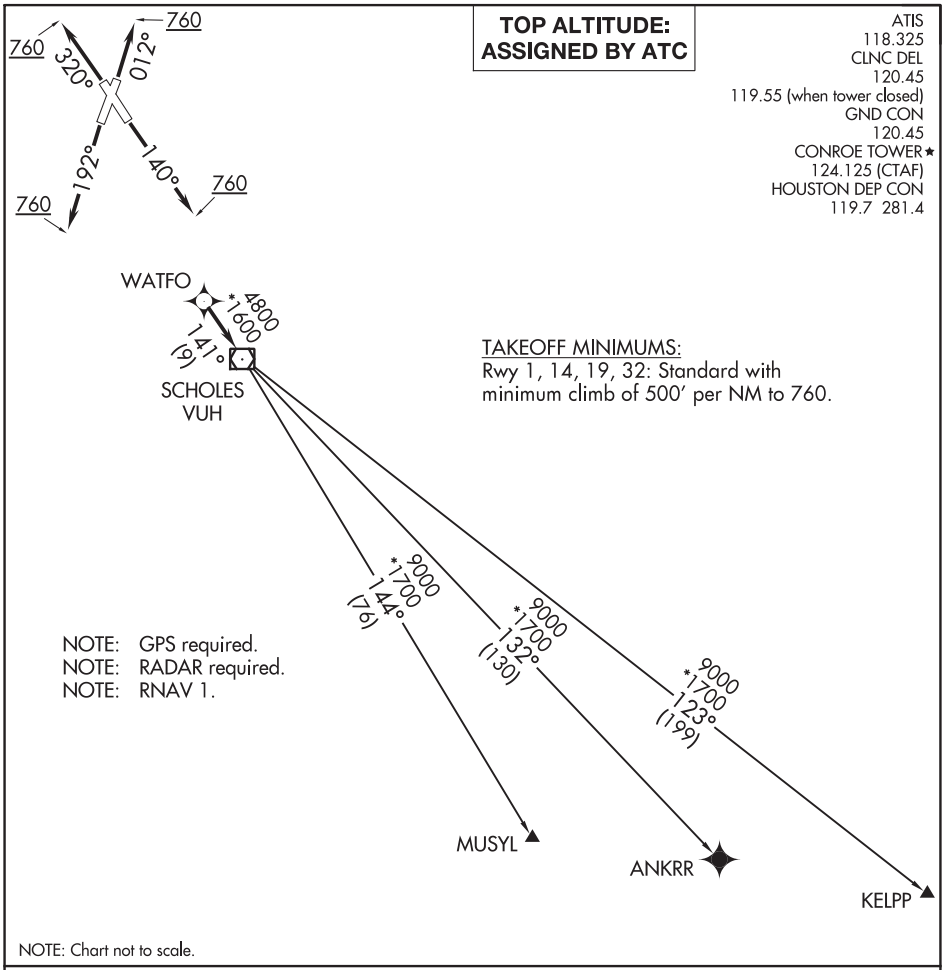
. . . .on track 331° to SPICR, then on track 331° to WLLIS, then on track 332° to STYCK, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

DOLEY TRANSITION (STYCK7.DOLEY)
WTSON TRANSITION (STYCK7.WTSON)

(WATFO5.WATFO) 19115 AL-5573 (FAA)

WATFO FIVE DEPARTURE (RNAV)

CONROE-NORTH HOUSTON RGNL (CXO)
HOUSTON, TEXAS



SC-5, 25 FEB 2021 to 22 APR 2021

SC-5, 25 FEB 2021 to 22 APR 2021

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 1: Climb on heading 012° to 760, for RADAR vectors to WATFO, thence. . . .
TAKEOFF RWY 14: Climb on heading 140° to 760, for RADAR vectors to WATFO, thence. . . .
TAKEOFF RWY 19: Climb on heading 192° to 760, for RADAR vectors to WATFO, thence. . . .
TAKEOFF RWY 32: Climb on heading 320° to 760, for RADAR vectors to WATFO, thence. . . .

. . . .on track 141° to VUH VOR/DME, then on (transition). Maintain ATC assigned altitude.
Expect filed altitude 10 minutes after departure.

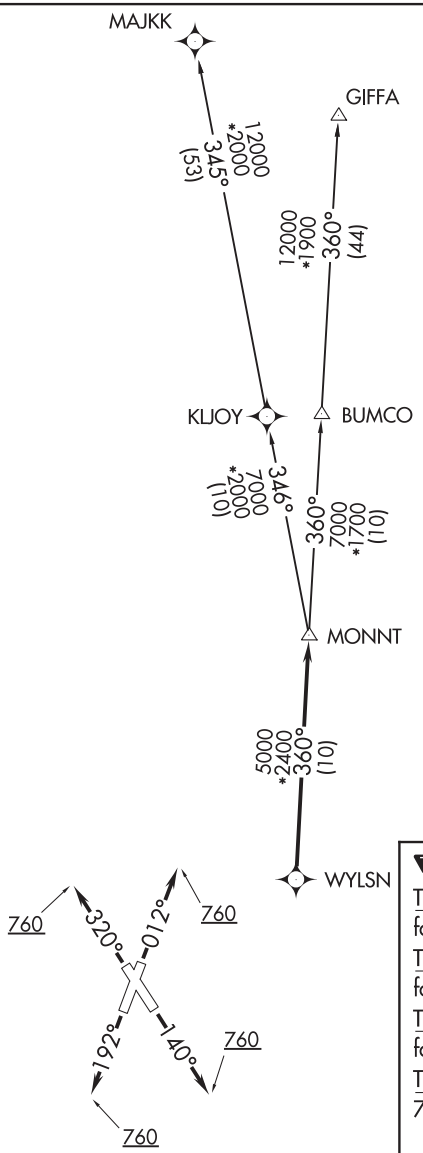
ANKRR TRANSITION (WATFO5.ANKRR)
KELPP TRANSITION (WATFO5.KELPP)
MUSYL TRANSITION (WATFO5.MUSYL)

WYLSN SEVEN DEPARTURE (RNAV)

HOUSTON, TEXAS

TOP ALTITUDE: ASSIGNED BY ATC

ATIS
118.325
CLINC DEL
120.45
119.55 (when tower closed)
GND CON
120.45
* CONROE TOWER
124.125 (CTAF)
HOUSTON DEP CON
119.7 281.4



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

TAKEOFF MINIMUMS
Rwys 1, 14, 19, 32: Standard with minimum climb of 500′ per NM to 760.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 1: Climb on heading 012° to 760 for RADAR vectors to WYLSN, thence. . . .
TAKEOFF RWY 14: Climb on heading 140° to 760 for RADAR vectors to WYLSN, thence. . . .
TAKEOFF RWY 19: Climb on heading 192° to 760 for RADAR vectors to WYLSN, thence. . . .
TAKEOFF RWAY 32: Climb on heading 320° to 760 for RADAR vectors to WYLSN, thence. . . .

. . . .on track 360° to MONNT, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

GIFFA TRANSITION (WYLSN7.GIFFA)
MAJKK TRANSITION (WYLSN7.MAJKK)

NOTE: Chart not to scale.

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HOUSTON, TEXAS

AL-5457 (FAA-O)

21056

WAAS CH 41063 W17A	APP CRS 168°	Rwy ldg 6002 TDZE 152 Apt Elev 152

RNAV (GPS) RWY 17R

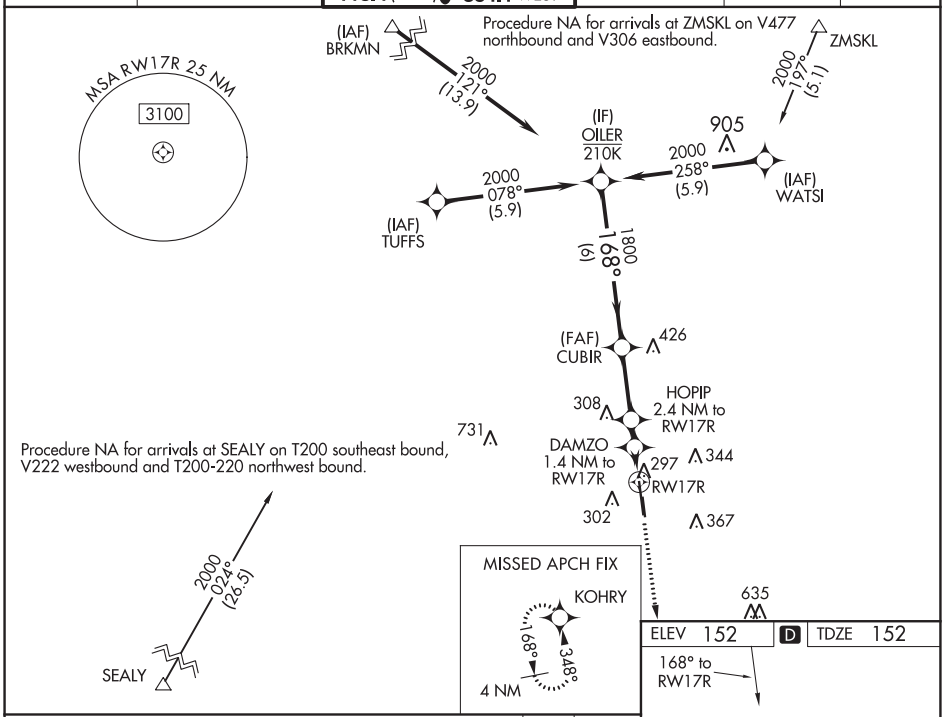
DAVID WAYNE HOOKS MEMORIAL (DWH)

RNP APCH.

T Baro-VNAV NA when using George Bush Intercontinental/Houston altimeter setting. For uncompensated Baro-VNAV systems, procedure NA below -15°C or above 54°C. Rwy 17R helicopter visibility reduction below ¾ SM NA. When local altimeter setting not received, use George Bush Intercontinental/Houston altimeter setting: Increase all DAs 36 feet and visibilities ⅛ SM; increase all MDAs 40 feet. When control tower closed, LPV visibility 1 SM.

MISSED APPROACH: Climb to 2000 direct KOHRY and hold.

ATIS	HOUSTON APP CON	HOOKS TOWER*	GND CON	CLNC DEL	UNICOM
128.375	119.7 281.4	127.4 354.1 EAST 118.4 (CTAF) L 354.1 WEST	121.8 239.0	119.45	122.95



CATEGORY	A	B	C	D
LPV DA	402-¾ 250 (300-¾)			
LNAV/VNAV DA	508-1⅛ 356 (400-1⅛)			
LNAV MDA	600-1 448 (500-1)		600-1⅜ 448 (500-1⅜)	
C CIRCLING	640-1 488 (500-1)	660-1 508 (600-1)	680-1½ 528 (600-1½)	760-2 608 (700-2)

REIL Rwys 17R and 35L L
HIRL Rwy 17R-35L L

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SC-5, 25 FEB 2021 to 22 APR 2021

WAAS CH 45603 W35A	APP CRS 348°	Rwy ldg 6700 TDZE 152 Apt Elev 152

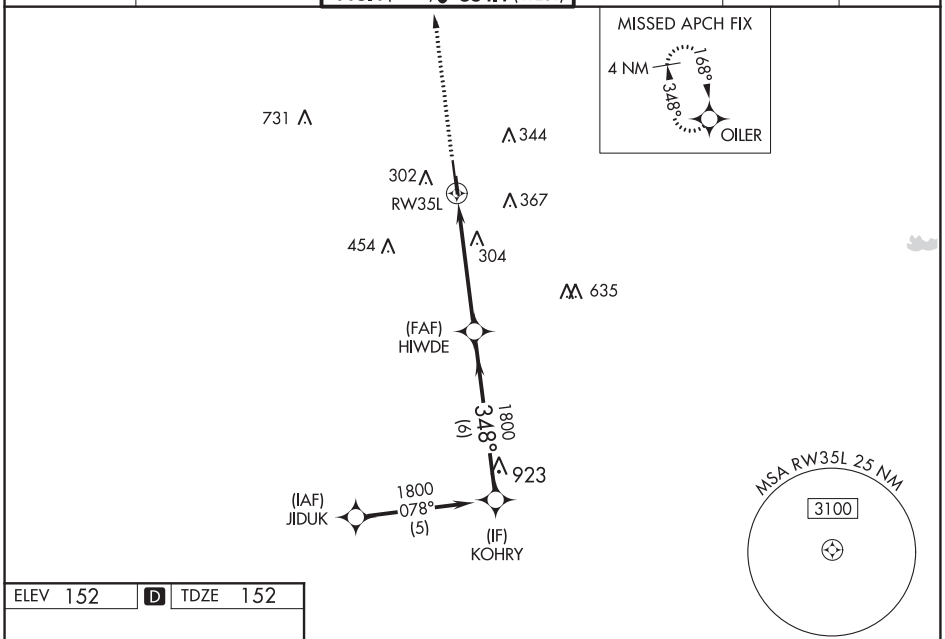
RNAV (GPS) RWY 35L
DAVID WAYNE HOOKS MEMORIAL (DWH)

RNP APCH.

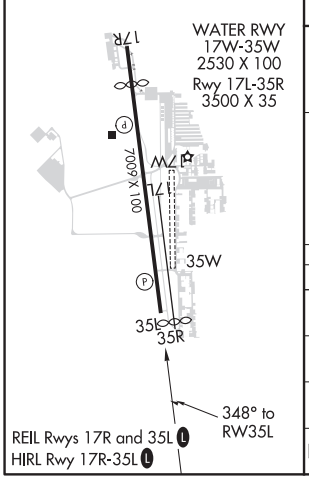
T A Baro-VNAV and VDP NA when using George Bush Intercontinental/Houston altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -4°C (25°F) or above 54°C (130°F). When local altimeter setting not received, use George Bush Intercontinental/Houston altimeter setting and increase all DA 36 feet and all MDA 40 feet, increase LPV and LNAV/VNAV visibility all Cats ⅛ mile, LNAV visibility Cats C/D ¼ mile. Rwy 35L helicopter visibility reduction below ¾ SM NA. Circling NA to Rwys 17W and 35W.

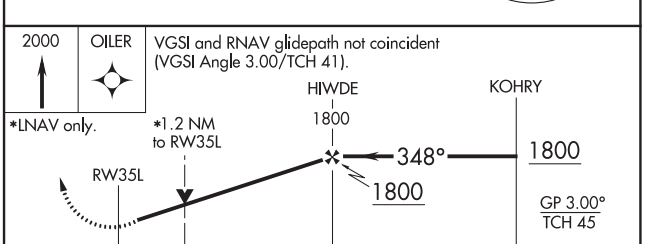
MISSED APPROACH: Climb to 2000 direct OILER and hold.

ATIS	HOUSTON APP CON	HOOKS TOWER★	GND CON	CLNC DEL	UNICOM
128.375	119.7 281.4	127.4 354.1 (EAST) 118.4 (CTAF) L 354.1 (WEST)	121.8 239.0	119.45	122.95



ELEV 152 | D | TDZE 152





CATEGORY	A	B	C	D
LPV DA	451-1 299 (300-1)			
LNAV/VNAV DA	552-1⅜ 400 (400-1⅜)			
LNAV MDA	560-1 408 (500-1)		560-1⅛ 408 (500-1⅛)	
C CIRCLING	640-1 488 (500-1)	660-1 508 (600-1)	680-1½ 528 (600-1½)	760-2 608 (700-2)

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HOUSTON, TEXAS

AL-5457 (FAA)

21056

LOC RWY 17R

DAVID WAYNE HOOKS MEMORIAL (DWH)

LOC/DME I-HEW	APP CRS	Rwy ldg	6002
110.5	168°	TDZE	152
Chan 42		Apt Elev	152

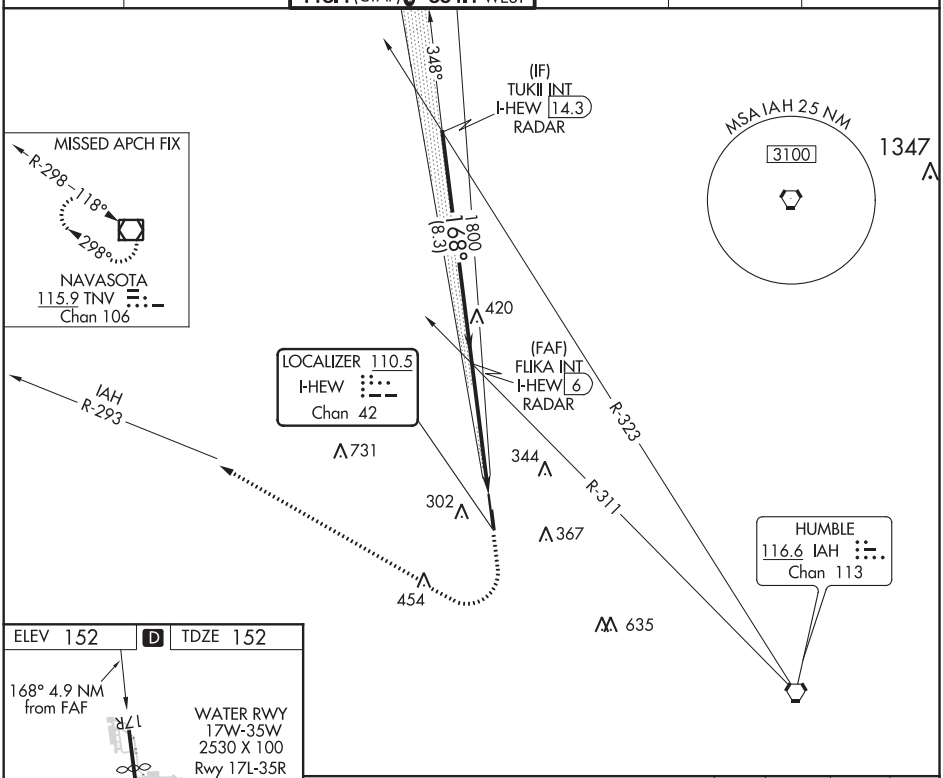
RADAR required for procedure entry.

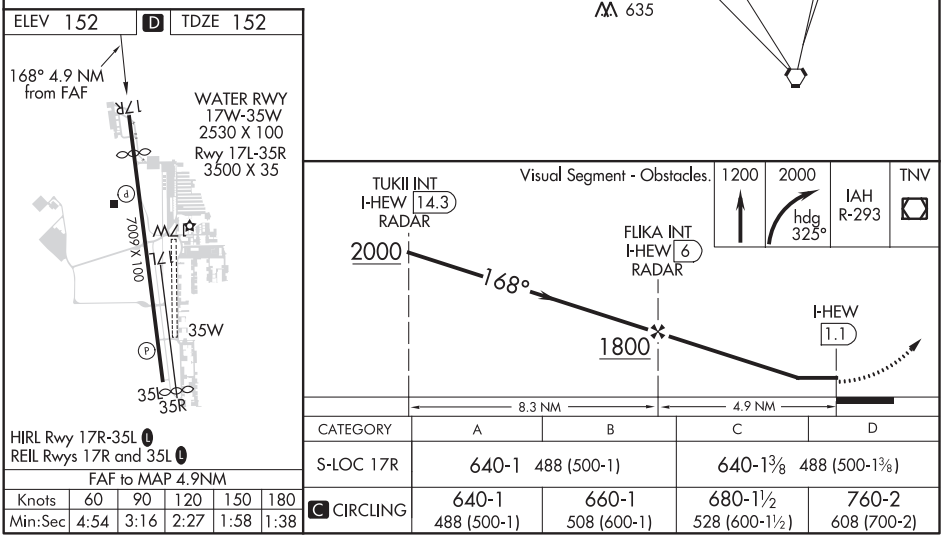
NA

When local altimeter setting not received, use George Bush Intercontinental/Houston altimeter setting and increase all MDA 40 feet; increase S-LOC 17R Cats C/D visibility ⅛ mile. Circling NA to Rwys 17W and 35W. Rwy 17R helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 1200 then climbing right turn to 2000 on heading 325° and IAH VORTAC R-293 to TNV VOR/DME and hold.

ATIS	HOUSTON APP CON	HOOKS TOWER★	GND CON	CLNC DEL	UNICOM
128.375	119.7 281.4	127.4 354.1 EAST 118.4 (CTAF) L 354.1 WEST	121.8 239.0	119.45	122.95





HIRL Rwy 17R-35L L
REIL Rwys 17R and 35L L

FAF to MAP 4.9NM					
Knots	60	90	120	150	180
Min:Sec	4:54	3:16	2:27	1:58	1:38

CATEGORY	A	B	C	D
S-LOC 17R	640-1 488 (500-1)		640-1⅜ 488 (500-1⅜)	
C CIRCLING	640-1 488 (500-1)	660-1 508 (600-1)	680-1½ 528 (600-1½)	760-2 608 (700-2)

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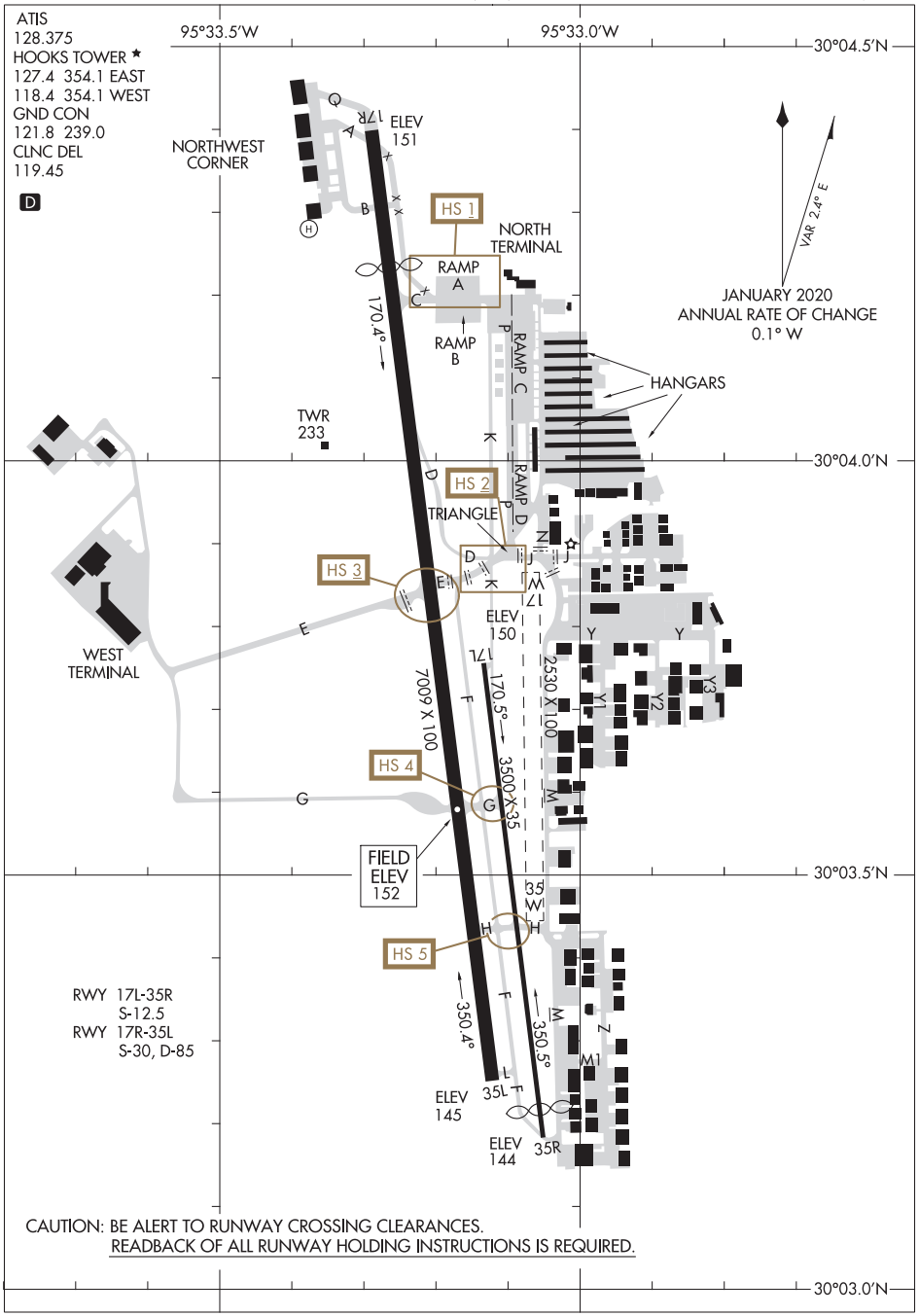

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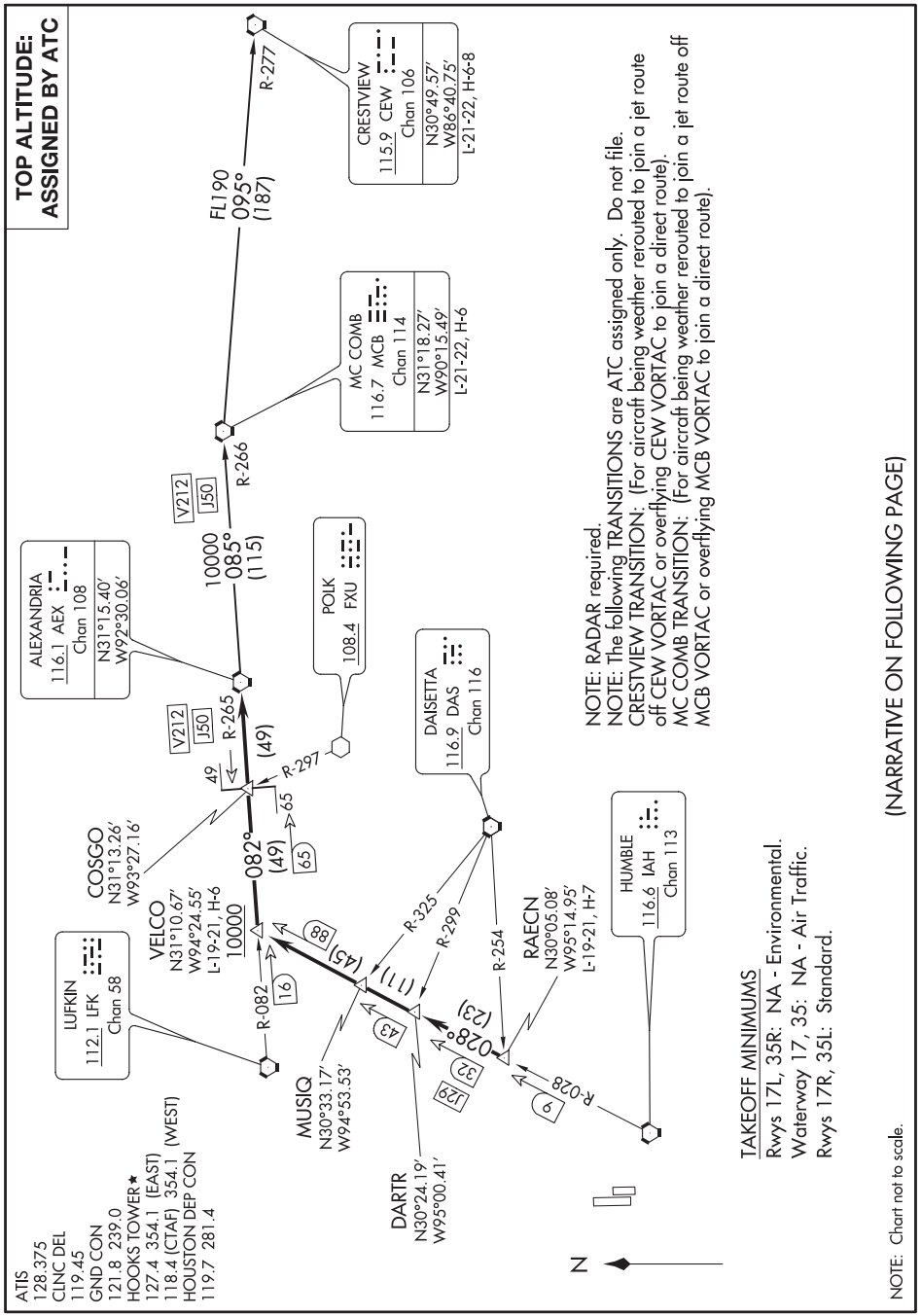
SC-5, 25 FEB 2021 to 22 APR 2021

(AEX2.AEX) 19339 AL-5457 (FAA)

ALEXANDRIA TWO DEPARTURE

DAVID WAYNE HOOKS MEMORIAL (DWH)
HOUSTON, TEXAS



SC-5, 25 FEB 2021 to 22 APR 2021

SC-5, 25 FEB 2021 to 22 APR 2021

ALEXANDRIA TWO DEPARTURE

(AEX2.AEX) 05DEC19

HOUSTON, TEXAS
DAVID WAYNE HOOKS MEMORIAL (DWH)

DEPARTURE ROUTE DESCRIPTION

TAKEOFF ALL RWYS: When entering controlled airspace, climb on assigned heading for RADAR vectors to RAECN INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .

. . . .on IAH R-028 to VELCO INT, cross VELCO INT at or above 10000, then right turn on LFK R-082 and AEX R-265 to AEX VORTAC.

CRESTVIEW TRANSITION (AEX2.CEW): From over AEX VORTAC on AEX R-085 and MCB R-266 to MCB VORTAC, then on MCB R-095 and CEW R-277 to CEW VORTAC.

MC COMB TRANSITION (AEX2.MCB): From over AEX VORTAC on AEX R-085 and MCB R-266 to MCB VORTAC.

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(BLTWY6.BLTWY) 19115

BLTWY SIX DEPARTURE (RNAV)

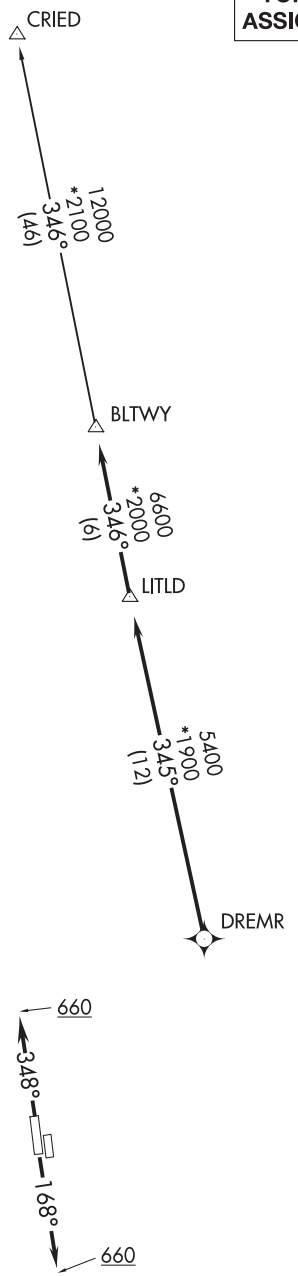
DAVID WAYNE HOOKS MEMORIAL (DWH)

AL-5457 (FAA)

HOUSTON, TEXAS

ATIS
128.375
CLNC DEL
119.45
GND CON
121.8 239.0
HOOKS TOWER ★
127.4 354.1 (EAST)
118.4 (CTAF) 354.1 (WEST)
HOUSTON DEP CON
119.7 281.4

TOP ALTITUDE: ASSIGNED BY ATC



NOTE: RADAR required.

NOTE: DME/DME/IRU or GPS required.

NOTE: RNAV 1.

TAKEOFF MINIMUMS
Rwys 17L, 35R: NA - Environmental.
Waterways 17, 35: NA - Air Traffic.
Rwys 17R, 35L: Standard with minimum climb of 500′ per NM to 660.

DEPARTURE ROUTE DESCRIPTION

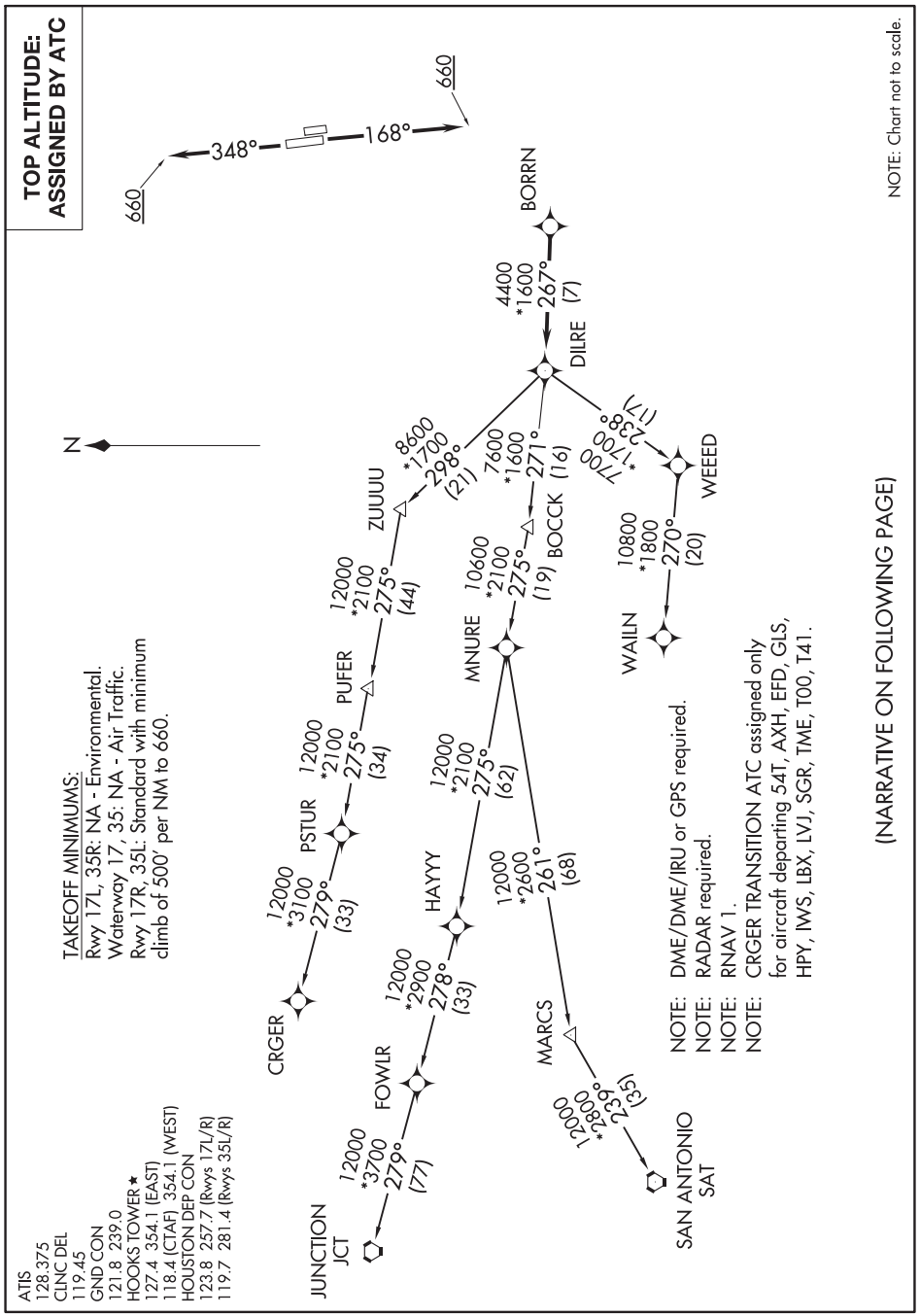
TAKEOFF RWY 17R: Climb on heading 168° to 660 for RADAR vectors to DREMR, thence . . . .
TAKEOFF RWYS 35L: Climb on heading 348° to 660 for RADAR vectors to DREMR, thence . . . .

...on track 345° to LITLD, then on track 346° to BLTWY, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

CRIED TRANSITION (BLTWY6.CRIED)

NOTE: Chart not to scale.

SC-5, 25 FEB 2021 to 22 APR 2021


TOP ALTITUDE: ASSIGNED BY ATC
N
348°
168°
660
660
BORRN
4400
*1600
267°
(7)
DILRE
8600
*1700
298°
(21)
ZUUUU
7600
*1600
271°
(16)
BOCCK
7100
*1700
238°
(17)
WEEED
12000
*2100
275°
(44)
PUFER
10600
*2100
275°
(19)
MNURE
10800
*1800
270°
(20)
WAILN
12000
*2100
275°
(34)
PSTUR
12000
*2100
275°
(62)
HAYYY
12000
*2600
261°
(68)
MARCS
12000
*3100
279°
(33)
CRGER
12000
*2900
278°
(33)
FOWLR
12000
*2800
239°
(35)
SAN ANTONIO
SAT
12000
*3700
279°
(77)
JUNCTION
JCT
TAKEOFF MINIMUMS:
Rwy 17L, 35R: NA - Environmental.
Waterway 17, 35: NA - Air Traffic.
Rwy 17R, 35L: Standard with minimum climb of 500' per NM to 660.
ATIS
128.375
CLNC DEL
119.45
GND CON
121.8 239.0
HOOKS TOWER ★
127.4 354.1 (EAST)
118.4 (CTAF) 354.1 (WEST)
HOUSTON DEP CON
123.8 257.7 (Rwys 17L/R)
119.7 281.4 (Rwys 35L/R)
NOTE: DME/DME/IRU or GPS required.
NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: CRGER TRANSITION ATC assigned only for aircraft departing 54T, AXH, EFD, GLS, HPY, IWS, LBX, LVJ, SGR, TME, T00, T41.
(NARRATIVE ON FOLLOWING PAGE)
NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 17R: Climb on heading 168° to 660, for RADAR vectors to BORRN, thence. . . .
TAKEOFF RWY 35L: Climb on heading 348° to 660, for RADAR vectors to BORRN, thence. . . .

. . . .on track 267° to DILRE, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

CRGER TRANSITION (BORRN4.CRGER)
JUNCTION TRANSITION (BORRN4.JCT)
MNURE TRANSITION (BORRN4.MNURE)
SAN ANTONIO TRANSITION (BORRN4.SAT)
WAILN TRANSITION (BORRN4.WAILN)

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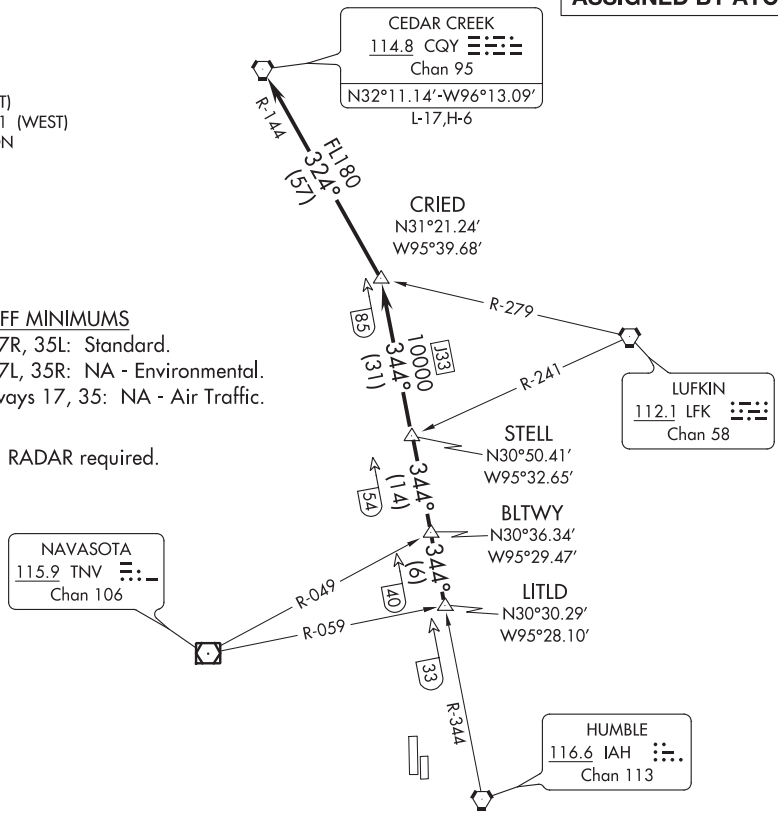
CRIED NINE DEPARTURE

ATIS
128.375
CLNC DEL
119.45
GND CON
121.8 239.0
HOOKS TOWER ★
127.4 354.1 (EAST)
118.4 (CTAF) 354.1 (WEST)
HOUSTON DEP CON
119.7 281.4

TOP ALTITUDE: ASSIGNED BY ATC



TAKEOFF MINIMUMS
Rwys 17R, 35L: Standard.
Rwys 17L, 35R: NA - Environmental.
Waterways 17, 35: NA - Air Traffic.

NOTE: RADAR required.

NOTE: Chart not to scale.

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SC-5, 25 FEB 2021 to 22 APR 2021

DEPARTURE ROUTE DESCRIPTION

TAKEOFF ALL RUNWAYS: When entering controlled airspace, climb on assigned heading for RADAR vectors to LITLD INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence . . . .

. . . . on IAH R-344 to STELL INT, then on IAH R-344 to CRIED INT then left turn on CQY R-144 to CQY VORTAC.

(ELD9.ELD) 20366 AL-5457 (FAA)

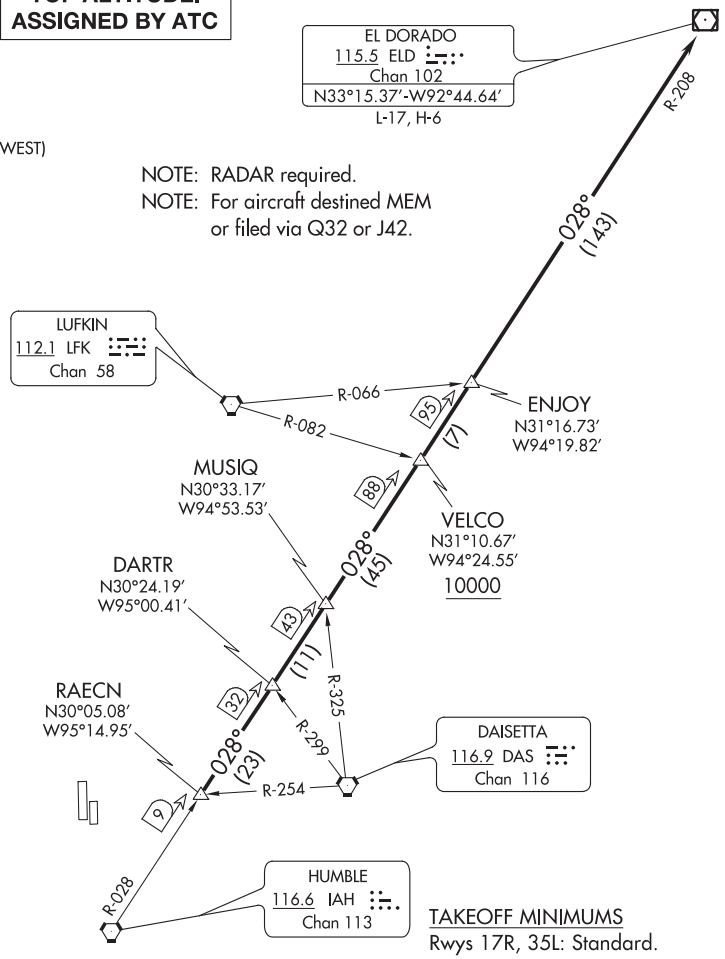
EL DORADO NINE DEPARTURE

DAVID WAYNE HOOKS MEMORIAL (DWH)
HOUSTON, TEXAS

ATIS
128.375
CLNC DEL
119.45
GND CON
121.8 239.0
HOOKS TOWER★
127.4 354.1 (EAST)
118.4 (CTAF) 354.1 (WEST)
HOUSTON DEP CON
119.7 281.4

TOP ALTITUDE: ASSIGNED BY ATC

NOTE: RADAR required.
NOTE: For aircraft destined MEM or filed via Q32 or J42.



TAKEOFF MINIMUMS
Rwys 17R, 35L: Standard.
Rwys 17L, 35R: NA - Environmental.
Waterway 17, 35: NA - Air Traffic.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF ALL RUNWAYS: When entering controlled airspace, climb on assigned heading for RADAR vectors to RAECN INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .

. . . .on IAH R-028 and the ELD R-208 to ELD VOR/DME, cross VELCO INT at or above 10000.

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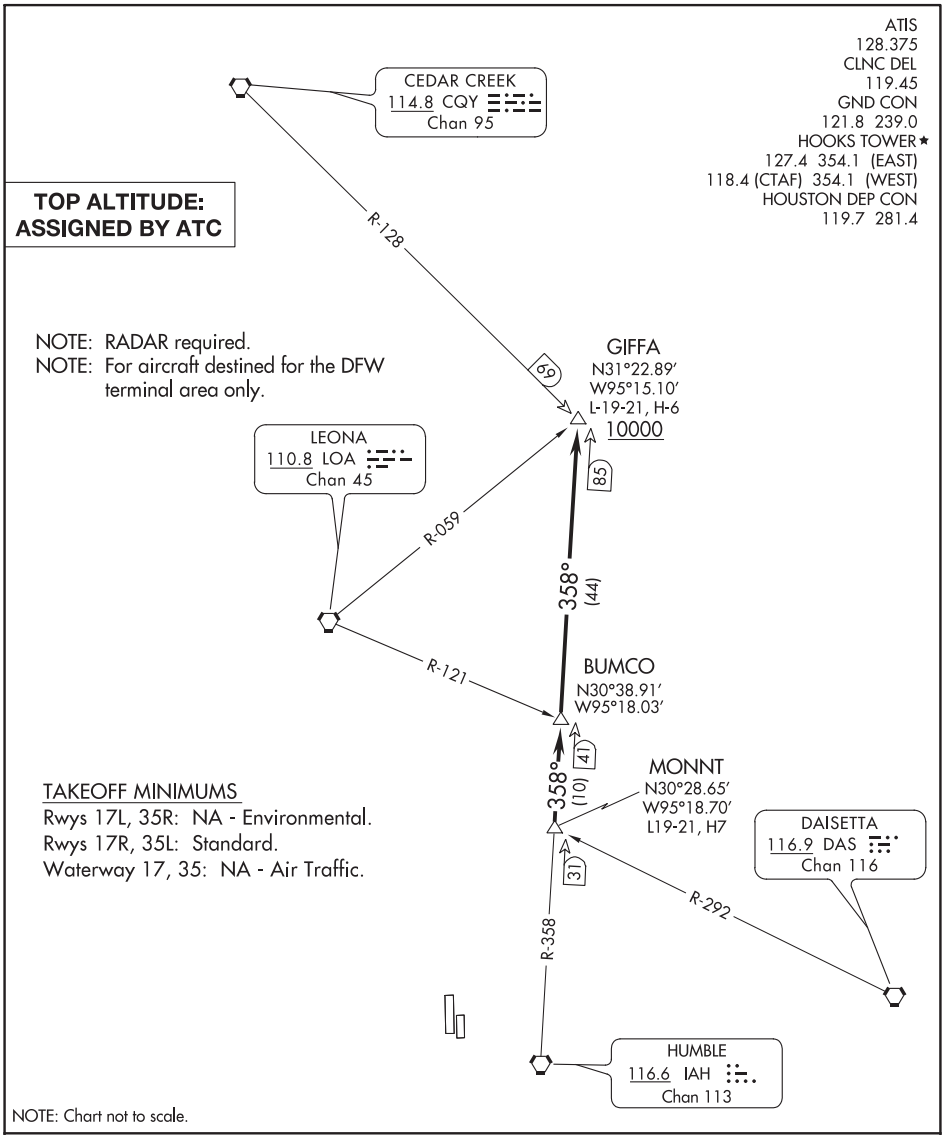
GIFFA NINE DEPARTURE



DEPARTURE ROUTE DESCRIPTION

TAKEOFF ALL RWYS: When entering controlled airspace, climb on assigned heading for RADAR vectors to MONNT INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .

. . . . on IAH R-358 to cross GIFFA INT at or above 10000.

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HOODO SIX DEPARTURE (RNAV)
(HOODO6.HOODO) 25APR19

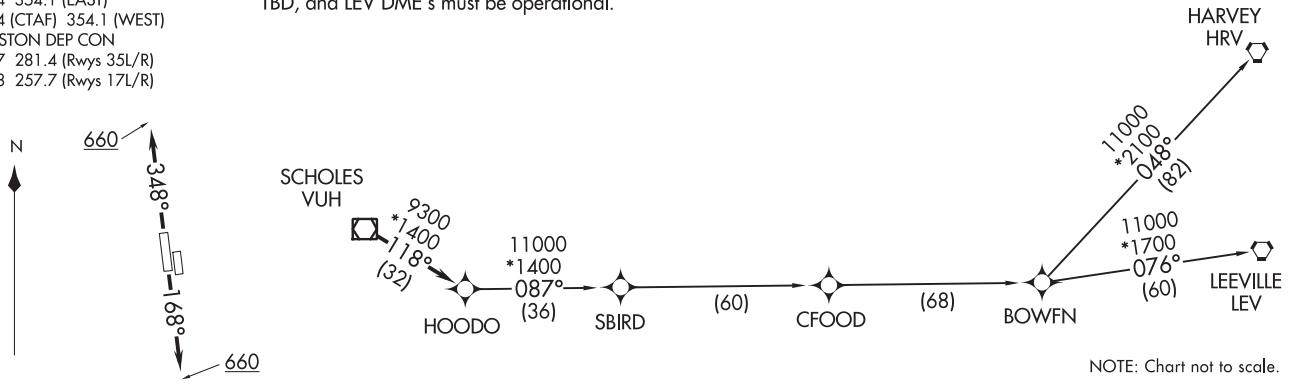
DAVID WAYNE HOOKS MEMORIAL (DWH)
HOUSTON, TEXAS

ATIS
128.375
CLNC DEL
119.45
GND CON
121.8 239.0
HOOKS TOWER ★
127.4 354.1 (EAST)
118.4 (CTAF) 354.1 (WEST)
HOUSTON DEP CON
119.7 281.4 (Rwys 35L/R)
123.8 257.7 (Rwys 17L/R)

NOTE: RNAV 1.
NOTE: RADAR required.
NOTE: ATC assigned only.
NOTE: DME/DME/IRU or GPS required.
NOTE: For non-GPS equipped aircraft, LCH, LLA, TBD, and LEV DME's must be operational.

TOP ALTITUDE: ASSIGNED BY ATC

TAKEOFF MINIMUMS
Rwys 17L, 35R: NA - Environmental
Rwys 17R, 35L: Standard with a minimum climb of 500' per NM to 600.
Waterway 17, 35: NA - Air Traffic



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 17R: Climb heading 168° to 660, for RADAR vectors to VUH VOR/DME, thence . . . .
TAKEOFF RWY 35L: Climb heading 348° to 660, for RADAR vectors to VUH VOR/DME, thence . . . .

. . . . on track 118° to HOODO, then on (transition). Maintain ATC assigned altitude.
Expect filed altitude 10 minutes after departure.

BOWFN TRANSITION (HOODO6.BOWFN)
CFOOD TRANSITION (HOODO6.CFOOD)
HARVEY TRANSITION (HOODO6.HRV)
LEEVILLE TRANSITION (HOODO6.LEV)
SBIRD TRANSITION (HOODO6.SBIRD)

(HOODO6.HOODO) 19115
HOODO SIX DEPARTURE (RNAV)
DAVID WAYNE HOOKS MEMORIAL (DWH)
HOUSTON, TEXAS
AL-5457 (FAA)

(INDIE7.INDIE) 19227

DAVID WAYNE HOOKS MEMORIAL (DWH)

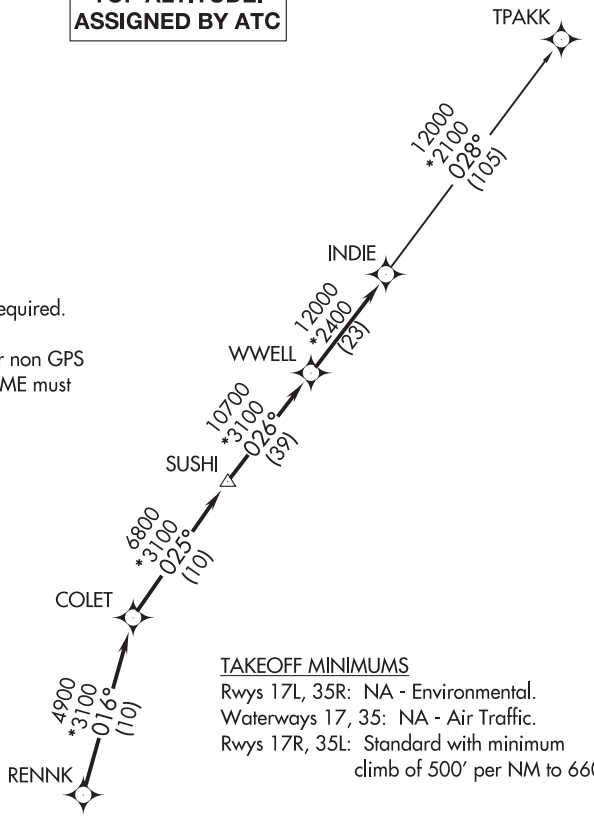
INDIE SEVEN DEPARTURE (RNAV)

HOUSTON, TEXAS

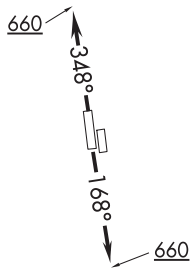
ATIS
128.375
CLNC DEL
119.45
GND CON
121.8 239.0
HOOKS TOWER ★
127.4 354.1 (EAST)
118.4 (CTAF) 354.1 (WEST)
HOUSTON DEP CON
123.8 257.7 (Rwys 17L/R)
119.7 281.4 (Rwys 35L/R)

TOP ALTITUDE: ASSIGNED BY ATC

NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV 1.
NOTE: TPAKK TRANSITION: For non GPS equipped aircraft TNV DME must be operational.



TAKEOFF MINIMUMS
Rwys 17L, 35R: NA - Environmental.
Waterways 17, 35: NA - Air Traffic.
Rwys 17R, 35L: Standard with minimum climb of 500′ per NM to 660.



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 17R: Climb heading 168° to 660 for RADAR vectors to RENNK, thence . . . .
TAKEOFF RWY 35L: Climb heading 348° to 660 for RADAR vectors to RENNK, thence . . . .

. . . . on track 016° to COLET, then on track 025° to SUSHI, then on track 026° to WWELL, then on track 026° to INDIE, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

TPAKK TRANSITION (INDIE7.TPAKK)

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INDIE SEVEN DEPARTURE (RNAV)

HOUSTON, TEXAS

(INDIE7.INDIE) 25APR19

DAVID WAYNE HOOKS MEMORIAL (DWH)

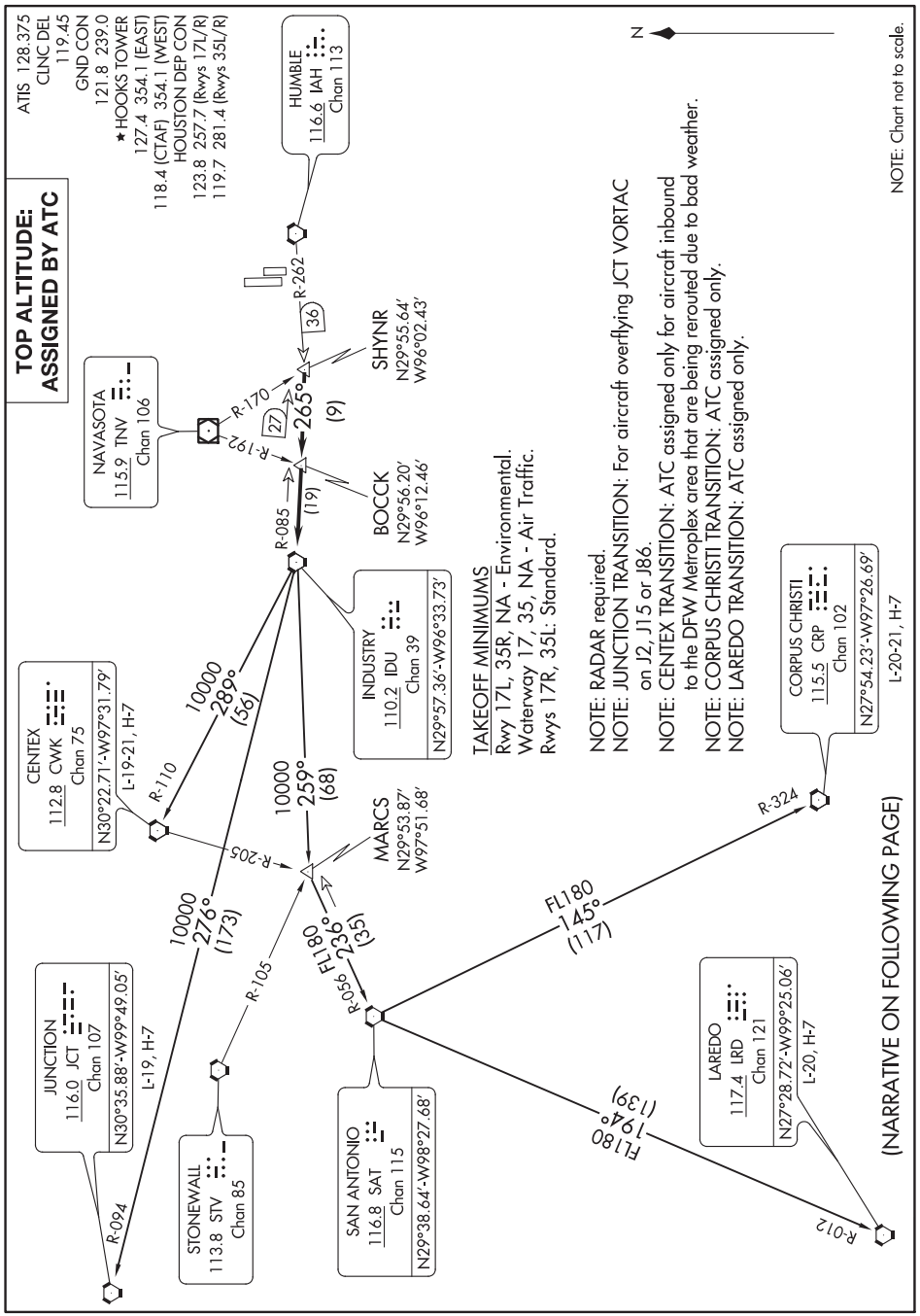
(IDU9.IDU) 18032

INDUSTRY NINE DEPARTURE

DAVID WAYNE HOOKS MEMORIAL (DWH)

AL-5457 (FAA)

HOUSTON, TEXAS



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INDUSTRY NINE DEPARTURE

(IDU9.IDU) 22JUN17

HOUSTON, TEXAS

DAVID WAYNE HOOKS MEMORIAL (DWH)

DEPARTURE ROUTE DESCRIPTION

TAKEOFF ALL RWYS: When entering controlled airspace, climb on assigned heading for RADAR vectors to SHYNR INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence . . . .

. . . . on IDU R-085 to BOCCK INT, then on IDU R-085 to IDU VORTAC.

CENTEX TRANSITION (IDU9.CWK): From over IDU VORTAC on IDU R-289 and CWK R-110 to CWK VORTAC.

CORPUS CHRISTI TRANSITION (IDU9.CRP): From over IDU VORTAC on IDU R-259 to MARCS INT, then on SAT R-056 to SAT VORTAC, then on SAT R-145 and CRP R-324 to CRP VORTAC.

JUNCTION TRANSITION (IDU9.JCT): From over IDU VORTAC on IDU R-276 and JCT R-094 to JCT VORTAC.

LAREDO TRANSITION (IDU9.LRD): From over IDU VORTAC on IDU R-259 to MARCS INT, then on SAT R-056 to SAT VORTAC, then on SAT R-194 and LRD R-012 to LRD VORTAC.

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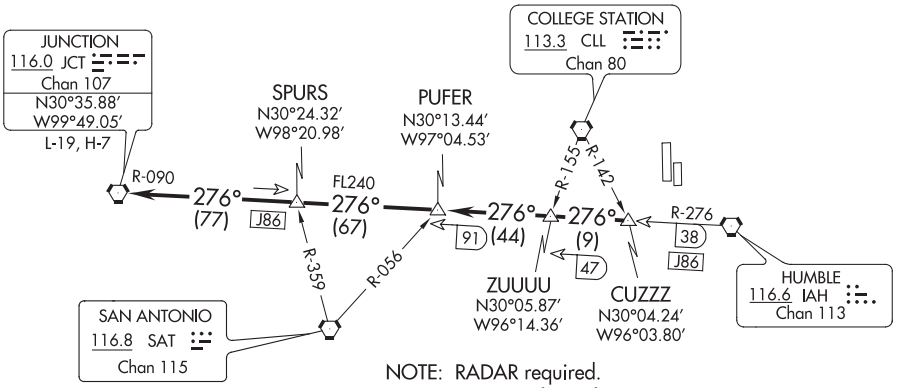
(JCT1.JCT) 18032 AL-5457 (FAA)

JUNCTION ONE DEPARTURE

DAVID WAYNE HOOKS MEMORIAL (DWH)
HOUSTON, TEXAS

ATIS
128.375
CLNC DEL
119.45
HOUSTON DEP CON
123.8 257.7 (Rwys 17L/R)
119.7 281.4 (Rwys 35L/R)
GND CON
121.8 239.0
HOOKS TOWER ★
127.4 354.1 (EAST)
118.4 (CTAF) 354.1 (WEST)

TOP ALTITUDE:
ASSIGNED BY ATC



NOTE: RADAR required.
NOTE: For aircraft overflying JCT VORTAC on J86 filing FL240 or above.

TAKEOFF MINIMUMS
Rwys 17R, 35L: Standard.
Rwys 17L, 35R: NA - Environmental.
Waterway 17, 35: NA - Air Traffic.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF ALL RUNWAYS: When entering controlled airspace, climb on assigned heading for RADAR vectors to CUZZZ INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence . . . .

. . . . on IAH R-276 and JCT R-090 to JCT VORTAC.

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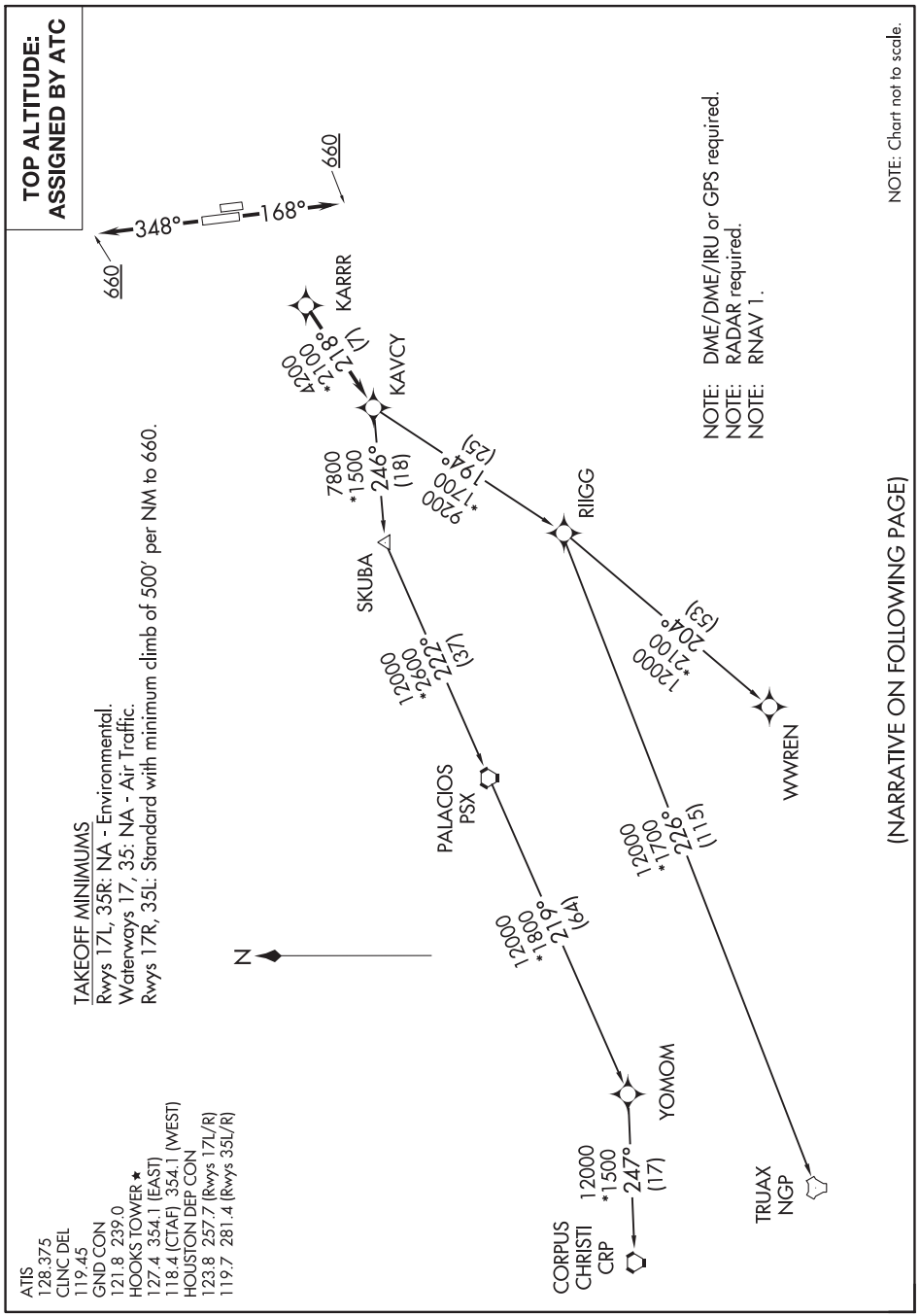

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DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 17R: Climb on heading 168° to 660, for RADAR vectors to KARRR, thence. . . .
TAKEOFF RWY 35L: Climb on heading 348° to 660, for RADAR vectors to KARRR, thence. . . .

. . . .on track 218° to KAVCY, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

CORPUS CHRISTI TRANSITION (KARRR6.CRP)
PALACIOS TRANSITION (KARRR6.PSX)
TRUAX TRANSITION (KARRR6.NGP)
WWREN TRANSITION (KARRR6.WWREN)
YOMOM TRANSITION (KARRR6.YOMOM)

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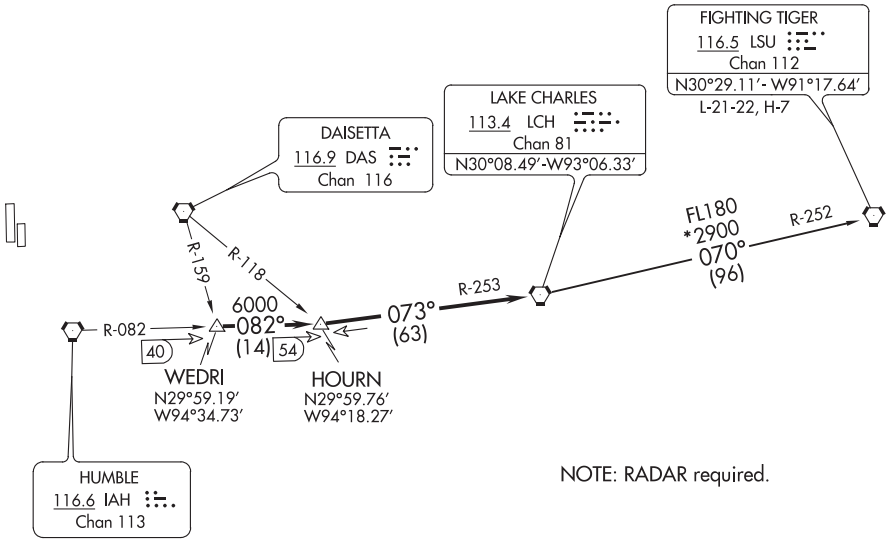
LAKE CHARLES FIVE DEPARTURE

ATIS
128.375
CLNC DEL
119.45
GND CON
121.8 239.0
HOOKS TOWER*
127.4 354.1 (EAST)
118.4 (CTAF) 354.1 (WEST)
HOUSTON DEP CON
119.7 281.4

TOP ALTITUDE: ASSIGNED BY ATC



NOTE: RADAR required.

TAKEOFF MINIMUMS
Rwy 17L, 35R NA - Environmental.
Waterway 17, 35 NA - Air Traffic.
Rwy 17R, 35L Standard.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

When entering controlled airspace, climb on assigned heading for RADAR vectors to WEDRI INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .

. . . .on IAH R-082 to HOURN INT, then on LCH R-253 to LCH VORTAC.

FIGHTING TIGERS TRANSITION (LCH5.LSU): From over LCH VORTAC on LCH R-070 and LSU R-252 to LSU VORTAC.

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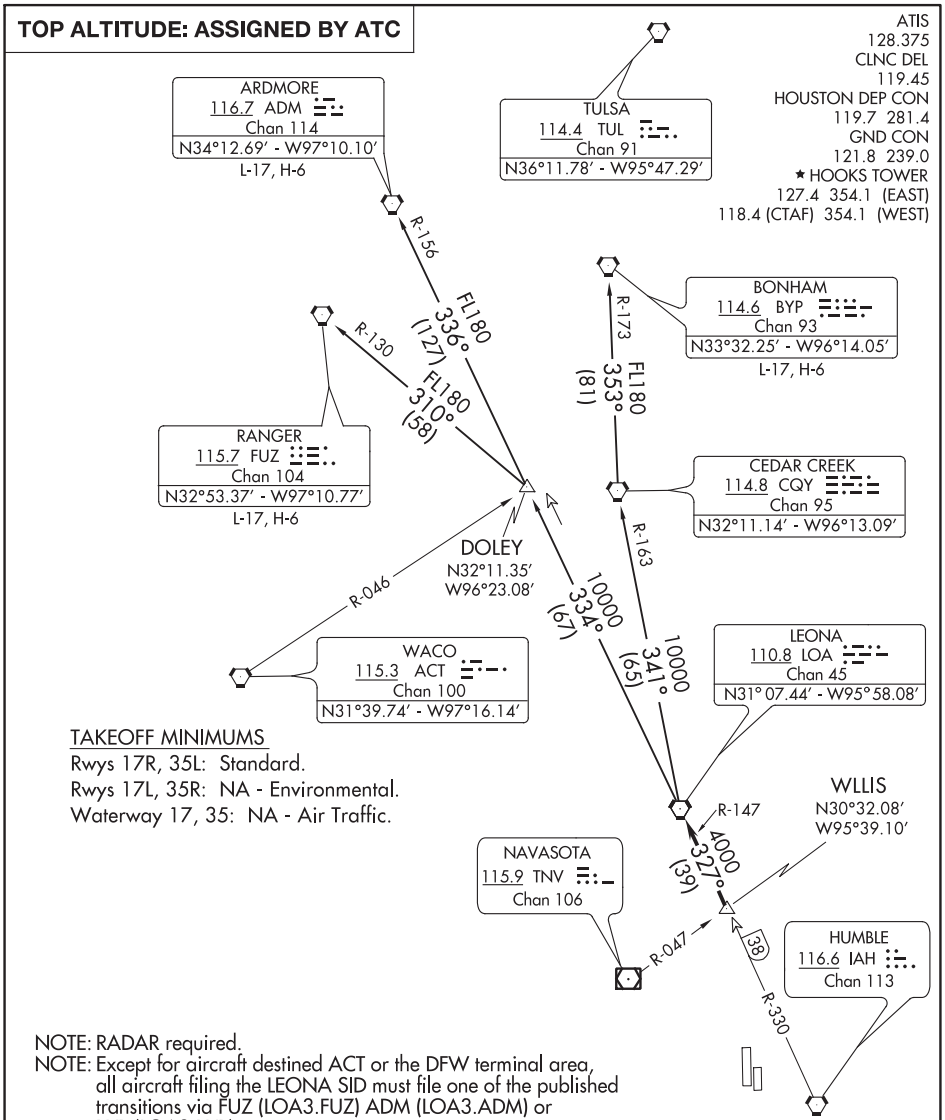
(LOA3.LOA) 18032

LEONA THREE DEPARTURE

AL-5457 (FAA)

DAVID WAYNE HOOKS MEMORIAL (DWH)
HOUSTON, TEXAS

TOP ALTITUDE: ASSIGNED BY ATC



TAKEOFF MINIMUMS

Rwys 17R, 35L: Standard.
Rwys 17L, 35R: NA - Environmental.
Waterway 17, 35: NA - Air Traffic.

NOTE: RADAR required.
NOTE: Except for aircraft destined ACT or the DFW terminal area, all aircraft filing the LEONA SID must file one of the published transitions via FUZ (LOA3.FUZ) ADM (LOA3.ADM) or BYP (LOA3.BYP).
NOTE: RANGER TRANSITION: For aircraft overflying west/northwest of the DFW terminal area FL240 and above.
NOTE: ARDMORE TRANSITION: For aircraft overflying north/northwest of the DFW terminal area FL240 and above.
NOTE: BONHAM TRANSITION: For aircraft overflying/landing TUL VORTAC FL240 and above.

NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

SC-5, 25 FEB 2021 to 22 APR 2021

DEPARTURE ROUTE DESCRIPTION

TAKEOFF ALL RUNWAYS: When entering controlled airspace, climb on assigned heading for RADAR vectors to WLLIS INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence . . . .

. . . . on LOA R-147 to LOA VORTAC.

ARDMORE TRANSITION (LOA3.ADM): From over LOA VORTAC on LOA R-334 to DOLEY INT, then on ADM R-156 to ADM VORTAC.

BONHAM TRANSITION (LOA3.BYP): From over LOA VORTAC on LOA R-341 and CQY R-163 to CQY VORTAC, then on BYP R-173 to BYP VORTAC.

RANGER TRANSITION (LOA3.FUZ): From over LOA VORTAC on LOA R-334 to DOLEY INT, then on FUZ R-130 to FUZ VORTAC.

SC-5, 25 FEB 2021 to 22 APR 2021
SC-5, 25 FEB 2021 to 22 APR 2021

(LFK2.LFK) 18032

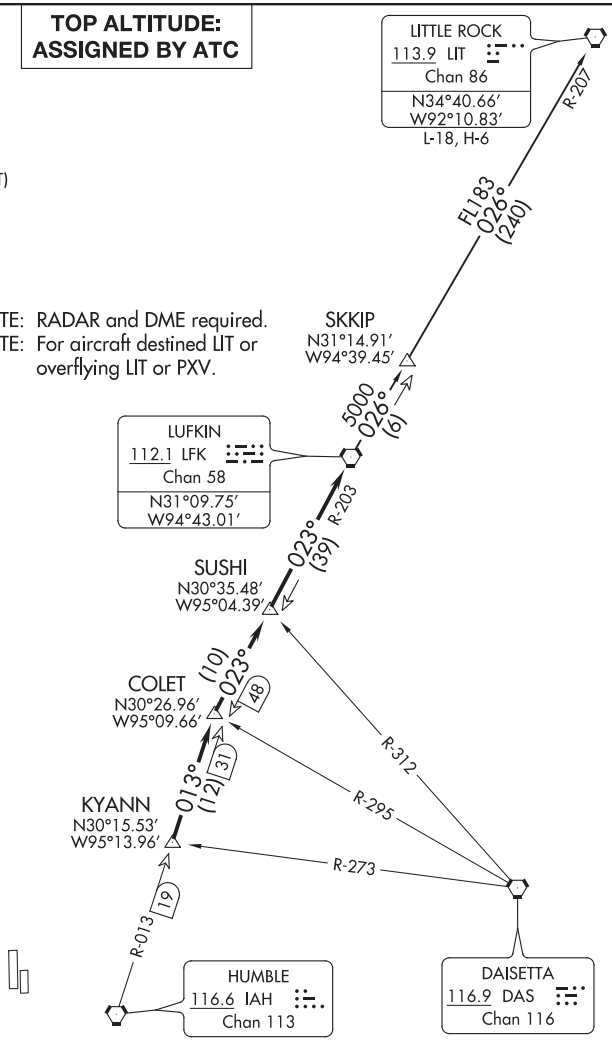
LUFKIN TWO DEPARTURE

AL-5457 (FAA)

DAVID WAYNE HOOKS MEMORIAL (DWH)
HOUSTON, TEXAS

ATIS
128.375
CLNC DEL
119.45
GND CON
121.8 239.0
HOOKS TOWER★
127.4 354.1 (EAST)
118.4 (CTAF) 354.1 (WEST)
HOUSTON DEP CON
119.7 281.4

TOP ALTITUDE: ASSIGNED BY ATC



NOTE: RADAR and DME required.
NOTE: For aircraft destined LIT or overflying LIT or PXV.

TAKEOFF MINIMUMS
Rwys 17L, 35R: NA - Environmental.
Waterways 17, 35: NA - Air Traffic.
Rwys 17R, 35L: Standard.

NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

SC-5, 25 FEB 2021 to 22 APR 2021
SC-5, 25 FEB 2021 to 22 APR 2021

T

DEPARTURE ROUTE DESCRIPTION

When entering controlled airspace, climb on assigned heading for RADAR vectors to KYANN INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .

. . . .on IAH R-013 to COLET INT, then right turn on LFK R-203 to LFK VORTAC.

LITTLE ROCK TRANSITION (LFK2.LIT): From over LFK VORTAC on LFK R-026 to SKKIP INT, then on LFK R-026 and LIT R-207 to LIT VORTAC.

SC-5, 25 FEB 2021 to 22 APR 2021
SC-5, 25 FEB 2021 to 22 APR 2021

(LURIC7.LURIC) 19115 AL-5457 (FAA)

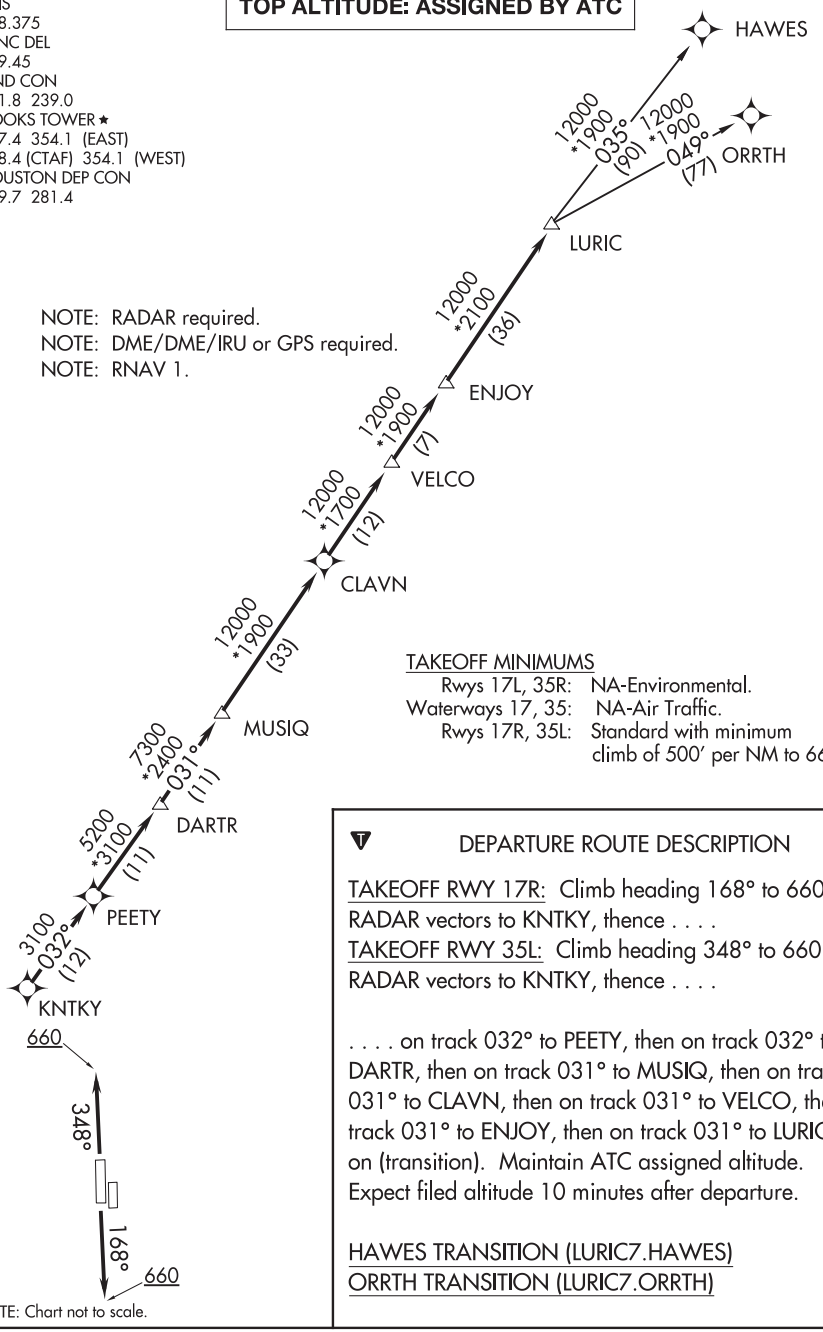
LURIC SEVEN DEPARTURE (RNAV)

DAVID WAYNE HOOKS MEMORIAL (DWH)
HOUSTON, TEXAS

TOP ALTITUDE: ASSIGNED BY ATC

ATIS
128.375
CLNC DEL
119.45
GND CON
121.8 239.0
HOOKS TOWER ★
127.4 354.1 (EAST)
118.4 (CTAF) 354.1 (WEST)
HOUSTON DEP CON
119.7 281.4

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



NOTE: Chart not to scale.

TAKEOFF MINIMUMS
Rwys 17L, 35R: NA-Environmental.
Waterways 17, 35: NA-Air Traffic.
Rwys 17R, 35L: Standard with minimum climb of 500′ per NM to 660.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 17R: Climb heading 168° to 660 for RADAR vectors to KNTKY, thence . . . .
TAKEOFF RWY 35L: Climb heading 348° to 660 for RADAR vectors to KNTKY, thence . . . .

. . . . on track 032° to PEETY, then on track 032° to DARTR, then on track 031° to MUSIQ, then on track 031° to CLAVN, then on track 031° to VELCO, then on track 031° to ENJOY, then on track 031° to LURIC, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

HAWES TRANSITION (LURIC7.HAWES)
ORRTH TRANSITION (LURIC7.ORRTH)

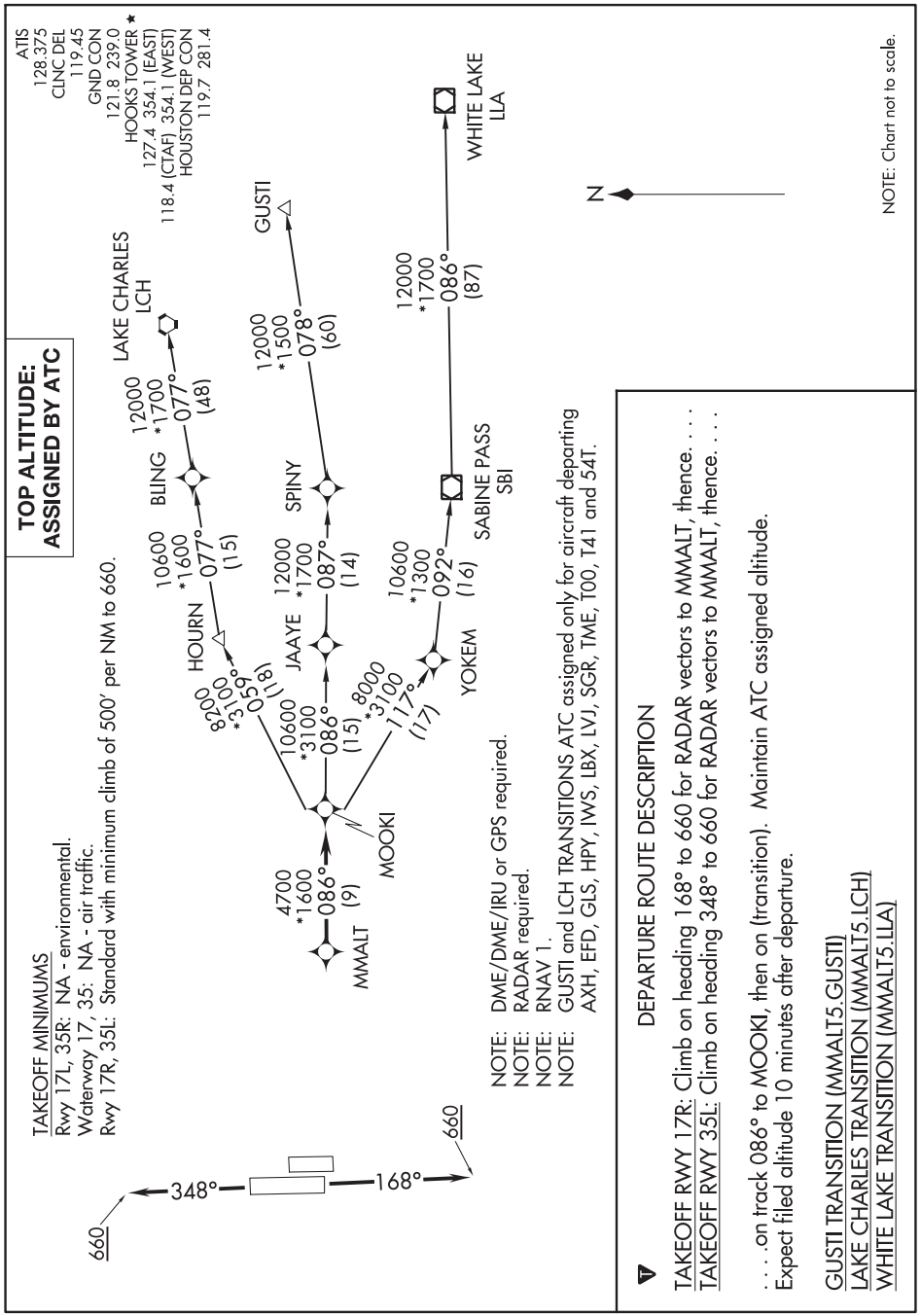
SC-5, 25 FEB 2021 to 22 APR 2021

LURIC SEVEN DEPARTURE (RNAV)
HOUSTON, TEXAS
(LURIC7.LURIC) 25APR19
DAVID WAYNE HOOKS MEMORIAL (DWH)

MMALT FIVE DEPARTURE (RNAV)

AL-5457 (FAA)

HOUSTON, TEXAS



SC-5, 25 FEB 2021 to 22 APR 2021

MMALT FIVE DEPARTURE (RNAV)
HOUSTON, TEXAS

(PSX1.PSX) 20254

PALACIOS ONE DEPARTURE

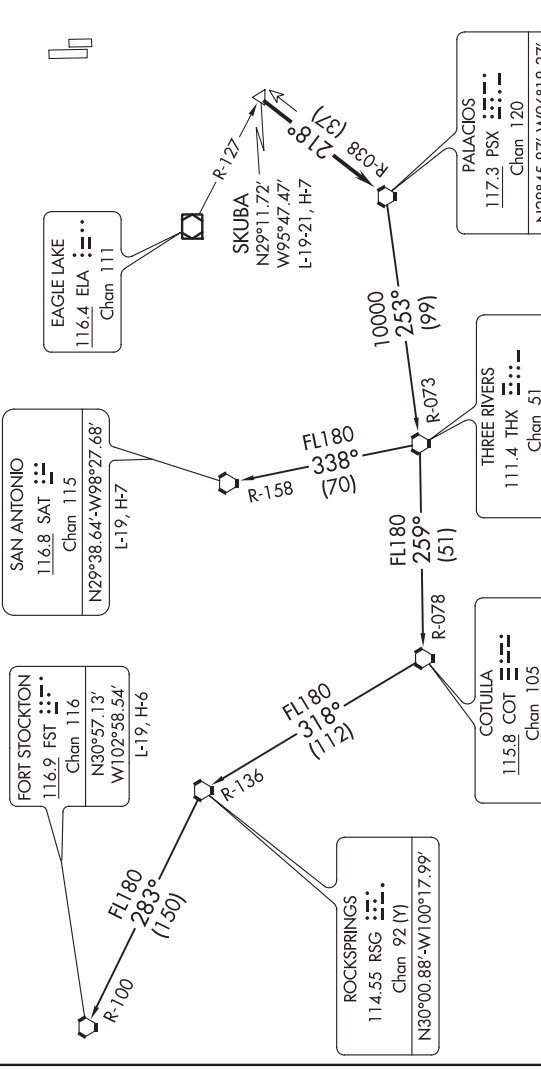
AL-5457 (FAA)

DAVID WAYNE HOOKS MEMORIAL (DWH)
HOUSTON, TEXAS

TOP ALTITUDE: ASSIGNED BY ATC

TAKEOFF MINIMUMS
Rwy 17L, 35R: NA - Environmental.
Waterway 17, 35: NA - Air Traffic.
Rwy 17R, 35L: Standard.

ATIS
128.375
CLNC DEL
119.45
GND CON
121.8 239.0
HOOKS TOWER★
127.4 354.1 (EAST)
118.4 (CTAF) 354.1 (WEST)
HOUSTON DEP CON
119.7 281.4



(NARRATIVE ON FOLLOWING PAGE)

NOTE: RADAR required.
NOTE: Chart not to scale.

SC-5, 25 FEB 2021 to 22 APR 2021

PALACIOS ONE DEPARTURE

(PSX1.PSX) 20JUN19

HOUSTON, TEXAS
DAVID WAYNE HOOKS MEMORIAL (DWH)

DEPARTURE ROUTE DESCRIPTION

TAKEOFF ALL RUNWAYS: When entering controlled airspace, climb on assigned heading for RADAR vectors to SKUBA INT. Maintain ATC assigned altitude.
Expect filed altitude 10 minutes after departure, thence. . . .

. . . .on PSX R-038 to PSX VORTAC.

FORT STOCKTON TRANSITION (PSX1.FST): From over PSX VORTAC on PSX R-253 and THX R-073 to THX VORTAC, then on THX R-259 and COT R-078 to COT VORTAC, then on COT R-318 and RSG R-136 to RSG VORTAC, then on RSG R-283 and FST R-100 to FST VORTAC.

SAN ANTONIO TRANSITION (PSX1.SAT): From over PSX VORTAC on PSX R-253 and THX R-073 to THX VORTAC, then on SAT R-158 to SAT VORTAC.

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(STRYA7.STRYA) 19115

DAVID WAYNE HOOKS MEMORIAL (DWH)

STRYA SEVEN DEPARTURE (RNAV)

HOUSTON, TEXAS

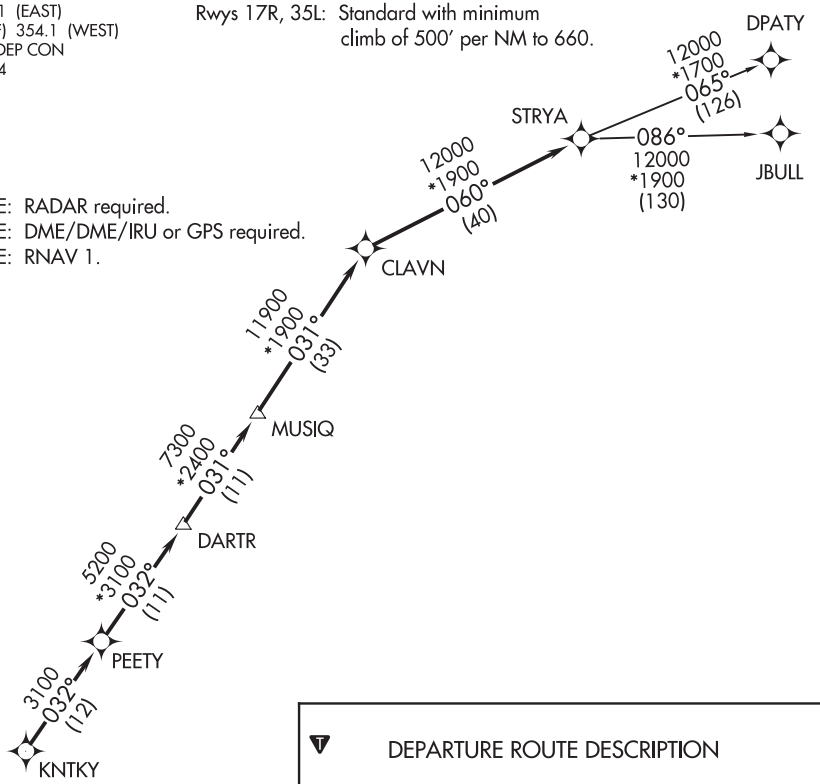
TOP ALTITUDE: ASSIGNED BY ATC

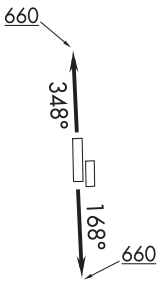
ATIS
128.375
CLNC DEL
119.45
GND CON
121.8 239.0
HOOKS TOWER★
127.4 354.1 (EAST)
118.4 (CTAF) 354.1 (WEST)
HOUSTON DEP CON
119.7 281.4

TAKEOFF MINIMUMS

Rwys 17L, 35R: NA-Environmental.
Waterway 17, 35: NA-Air Traffic.
Rwys 17R, 35L: Standard with minimum climb of 500′ per NM to 660.

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





NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 17R: Climb heading 168° to 660 for RADAR vectors to KNTKY, thence . . . .
TAKEOFF RWY 35L: Climb heading 348° to 660 for RADAR vectors to KNTKY, thence . . . .

. . . . on track 032° to PEETY, then on track 032° to DARTR, then on track 031° to MUSIQ, then on track 031° to CLAVN, then on track 060° to STRYA, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

DPATY TRANSITION (STRYA7.DPATY)
JBULL TRANSITION (STRYA7.JBULL)

SC-5, 25 FEB 2021 to 22 APR 2021

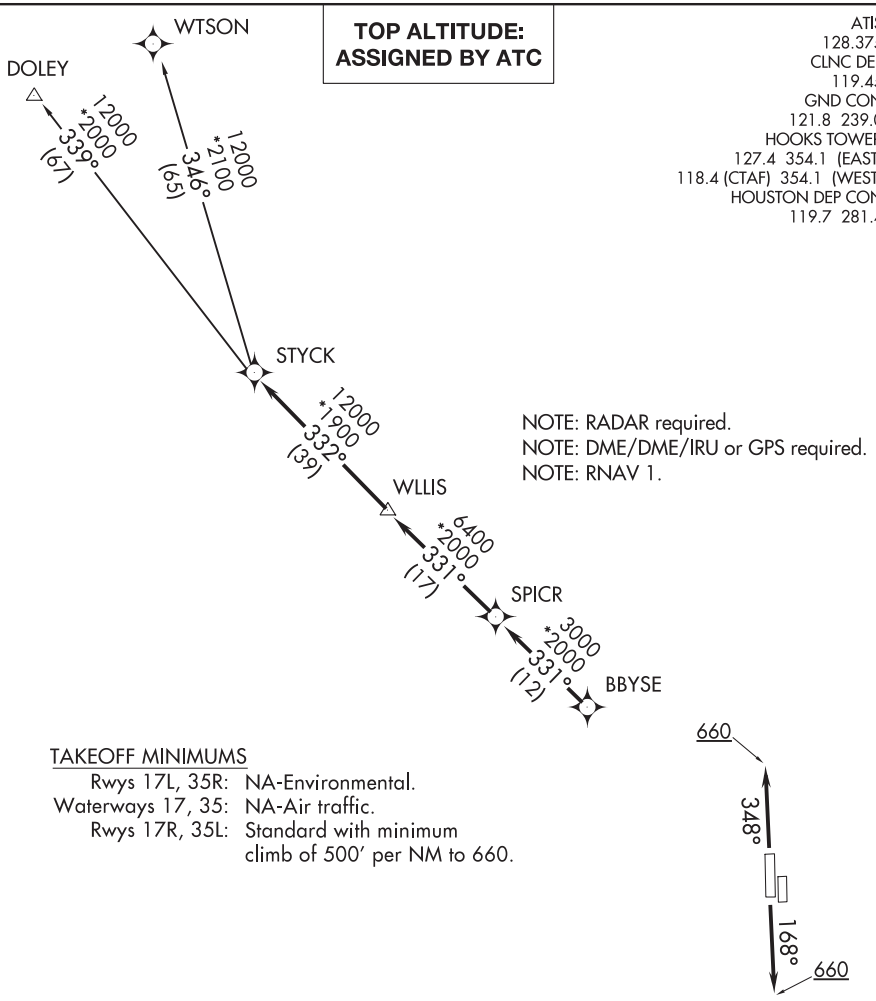
STRYA SEVEN DEPARTURE (RNAV)
HOUSTON, TEXAS
(STRYA7.STRYA) 25APR19
DAVID WAYNE HOOKS MEMORIAL (DWH)

STYCK SEVEN DEPARTURE (RNAV)

HOUSTON, TEXAS

TOP ALTITUDE: ASSIGNED BY ATC

ATIS
128.375
CLNC DEL
119.45
GND CON
121.8 239.0
HOOKS TOWER ★
127.4 354.1 (EAST)
118.4 (CTAF) 354.1 (WEST)
HOUSTON DEP CON
119.7 281.4



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

TAKEOFF MINIMUMS
Rwys 17L, 35R: NA-Environmental.
Waterways 17, 35: NA-Air traffic.
Rwys 17R, 35L: Standard with minimum climb of 500′ per NM to 660.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 17R: Climb heading 168° to 660 for RADAR vectors to BBYSE, thence. . . .
TAKEOFF RWY 35L: Climb heading 348° to 660 for RADAR vectors to BBYSE, thence. . . .

. . . .on track 331° to SPICR, then on track 331° to WLLIS, then on track 332° to STYCK, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

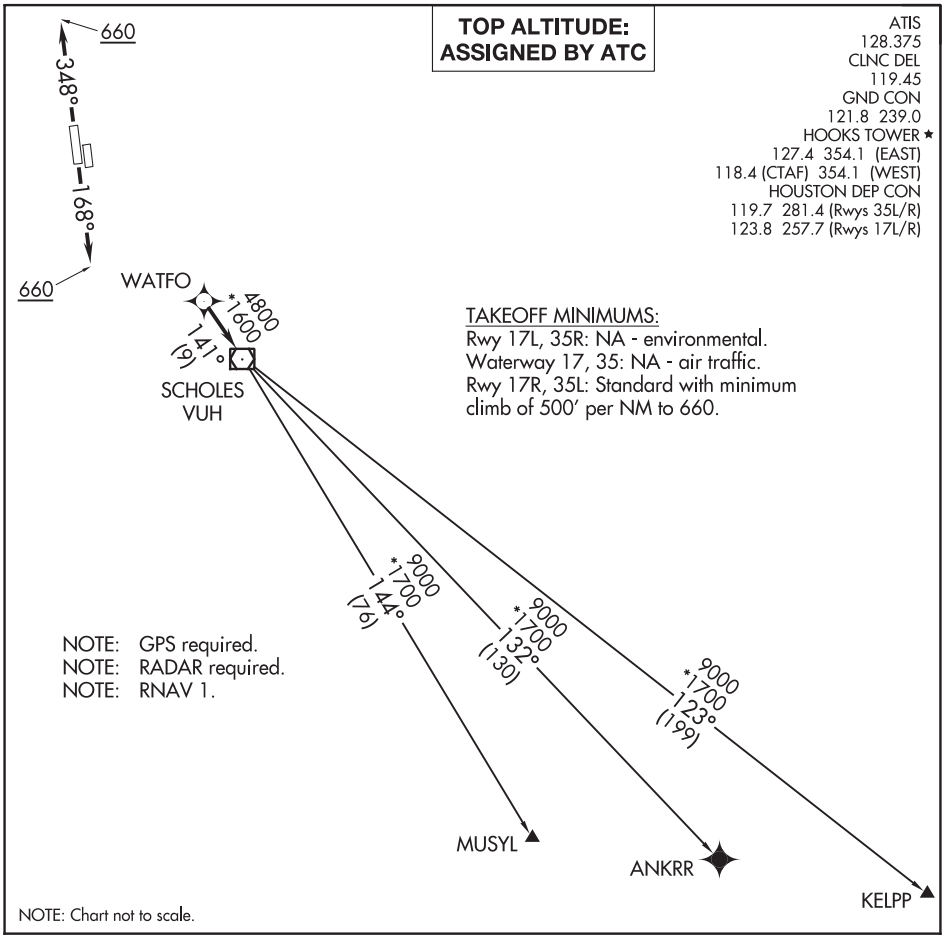
DOLEY TRANSITION (STYCK7.DOLEY)
WTSON TRANSITION (STYCK7.WTSON)

SC-5, 25 FEB 2021 to 22 APR 2021
SC-5, 25 FEB 2021 to 22 APR 2021

(WATFO5.WATFO) 19115 AL-5457 (FAA)

WATFO FIVE DEPARTURE (RNAV)

DAVID WAYNE HOOKS MEMORIAL (DWH)
HOUSTON, TEXAS



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 17R: Climb on heading 168° to 660, for RADAR vectors to WATFO, thence. . . .
TAKEOFF RWY 35L: Climb on heading 348° to 660, for RADAR vectors to WATFO, thence. . . .

. . . .on track 141° to VUH VOR/DME, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

ANKRR TRANSITION (WATFO5.ANKRR)
KELPP TRANSITION (WATFO5.KELPP)
MUSYL TRANSITION (WATFO5.MUSYL)

SC-5, 25 FEB 2021 to 22 APR 2021

WATFO FIVE DEPARTURE (RNAV)
(WATFO5.WATFO) 25APR19

HOUSTON, TEXAS
DAVID WAYNE HOOKS MEMORIAL (DWH)

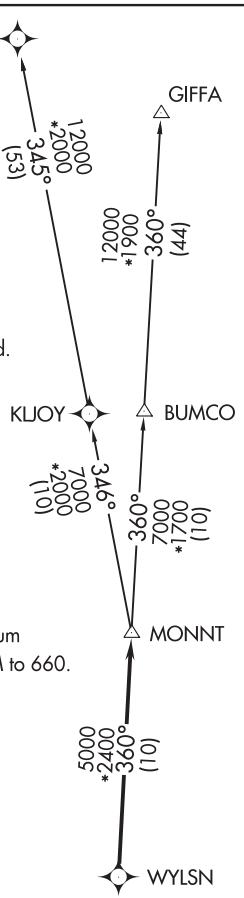
WYLSN SEVEN DEPARTURE (RNAV)

HOUSTON, TEXAS

ATIS
128.375
CLNC DEL
119.45
GND CON
121.8 239.0
HOOKS TOWER★
127.4 354.1 (EAST)
118.4 (CTAF) 354.1 (WEST)
HOUSTON DEP CON
123.8 257.7 (Rwy 17L/R)
119.7 281.4 (Rwy 35L/R)

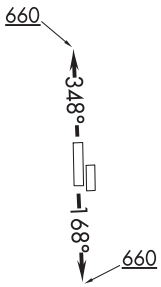
TOP ALTITUDE: ASSIGNED BY ATC

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



TAKEOFF MINIMUMS

Rwy 17L, 35R: NA - Environmental.
Waterway 17, 35: NA - Air Traffic.
Rwy 17R, 35L: Standard with minimum climb of 500′ per NM to 660.



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 17R: Climb on heading 168° to 660 for RADAR vectors to WYLSN, thence. . . .
TAKEOFF RWY 35L: Climb on heading 348° to 660 for RADAR vectors to WYLSN, thence. . . .

. . . .on track 360° to MONNT, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

GIFFA TRANSITION (WYLSN7.GIFFA)
MAJKK TRANSITION (WYLSN7.MAJKK)

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SC-5, 25 FEB 2021 to 22 APR 2021

HOUSTON, TEXAS

AL-197 (FAA)

20142

ILS Z or LOC Z RWY 17R

ELLINGTON (EFD)

LOC I-LPV	APP CRS	Rwy ldg	9001
110.3	174°	TDZE	32
		Apt Elev	33

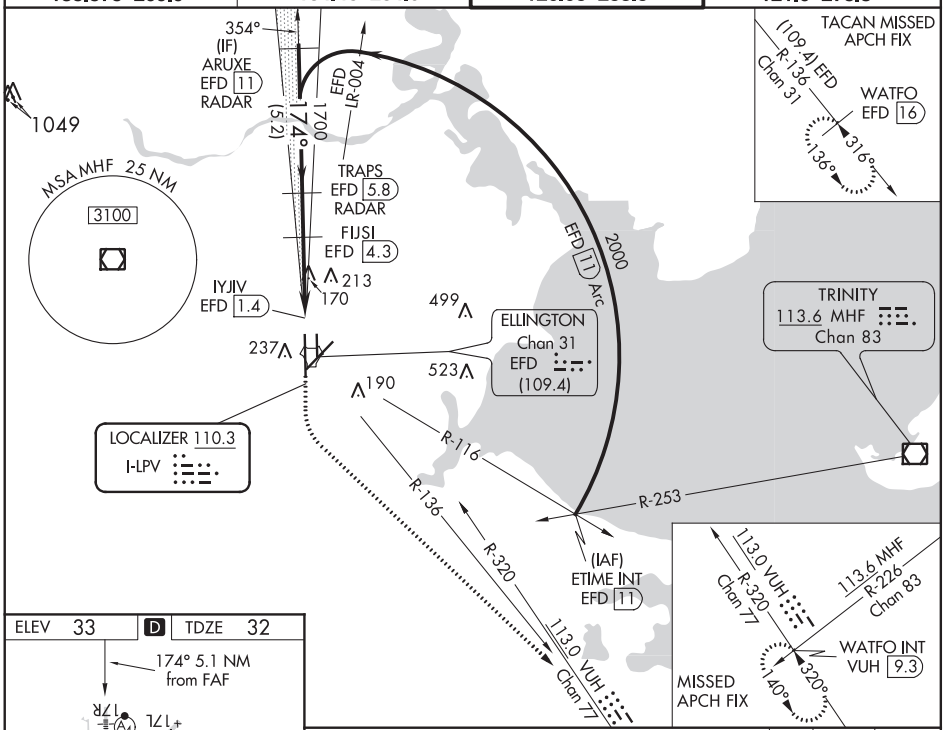
DME required. RADAR required for procedure entry.

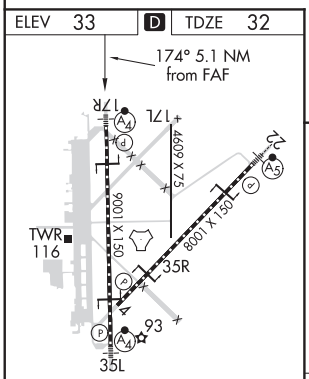
Circling NA west of Rwy 17R-35L. DME from EFD TACAN. Simultaneous reception of I-LPV and EFD DME required. Inop table does not apply to S-ILS 17R. For inop ALS, increase S-LOC 17R Cats C/D/E visibility to 1⅜ SM.

MALSF

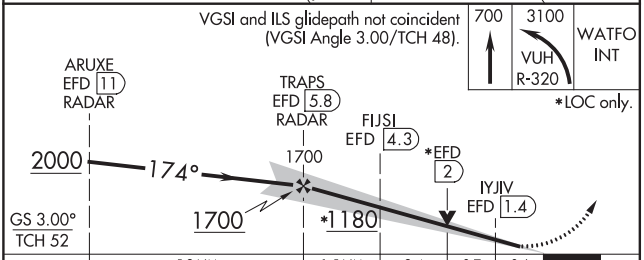
MISSED APPROACH: Climb to 700 then climbing left turn to 3100 on VUH VOR/DME R-320 to WATFO INT/VUH 9.3 DME and hold (TACAN aircraft climb to 700 then climbing left turn to 3100 on EFD TACAN R-136 to WATFO INT/EFD 16 DME and hold southeast, left turn, 316° inbound).

ATIS	HOUSTON APP CON	ELLINGTON TOWER	GND CON
135.575 269.9	134.45 284.0	126.05 253.5	121.6 275.8





HIRL Rwys 4-22 and 17R-35L
TDZ/CL Rwys 17R, 22 and 35L



CATEGORY	A	B	C	D	E
S-ILS 17R	232/40 200 (200-¾)				
S-LOC 17R	480/40 448 (500-¾)		480/55 448 (500-1)		
C CIRCLING	500-1 467 (500-1)		580-1½ 547 (600-1½)	640-2 607 (700-2)	700-2¼ 667 (700-2¼)

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ILS Z or LOC Z RWY 22
ELLINGTON (EFD)

LOC I-FNF	APP CRS	Rwy ldg	8001
110.1	219°	TDZE	31
		Apt Elev	33

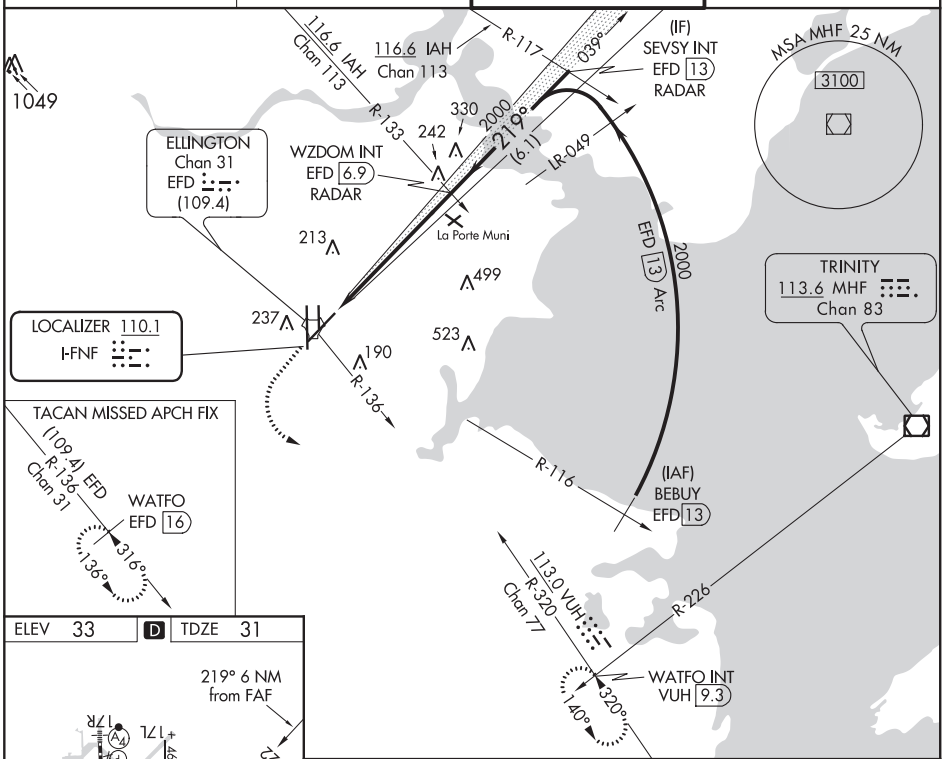
RADAR required for procedure entry.

Circling NA west of Rwy 17R-35L. DME from EFD TACAN. Simultaneous reception of I-FNF and EFD DME required. For inop ALS, increase S-ILS 22 Cat E visibility to RVR 4000 and S-LOC 22 Cat E visibility to 1½ SM.

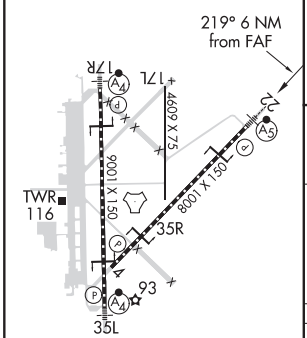
MALSR

MISSED APPROACH: Climb to 700 then climbing left turn to 3100 on VUH VOR/DME R-320 to WATFO INT/VUH 9.3 DME and hold. (TACAN aircraft climb to 700 then climbing left turn to 3100 on EFD TACAN R-136 to WATFO/EFD 16 DME and hold southeast, left turn, 316° inbound.)

ATIS	HOUSTON APP CON	ELLINGTON TOWER	GND CON
135.575 269.9	134.45 284.0	126.05 253.5	121.6 275.8

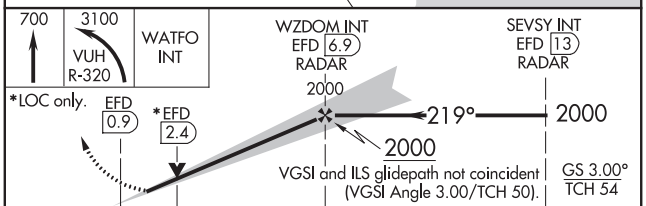


ELEV 33 | D | TDZE 31



HIRL Rwys 4-22 and 17R-35L
TDZ/CL Rwys 17R, 22 and 35L

FAF to MAP 6 NM					
Knots	60	90	120	150	180
Min:Sec	6:00	4:00	3:00	2:24	2:00



CATEGORY	A	B	C	D	E
S-ILS 22	231/18 200 (200-½)				
S-LOC 22	560/24 529 (600-½)		560/55 529 (600-1)		
C CIRCLING	560-1 527 (600-1)		580-1½ 547 (600-1½)	640-2 607 (700-2)	700-2¼ 667 (700-2¼)

SC-5, 25 FEB 2021 to 22 APR 2021
SC-5, 25 FEB 2021 to 22 APR 2021

HOUSTON, TEXAS

AL-197 (FAA)

20142

ILS Z or LOC Z RWY 35L

ELLINGTON (EFD)

LOC I-EFD	APP CRS	Rwy ldg	9001
111.1	354°	TDZE	28
		Apt Elev	33

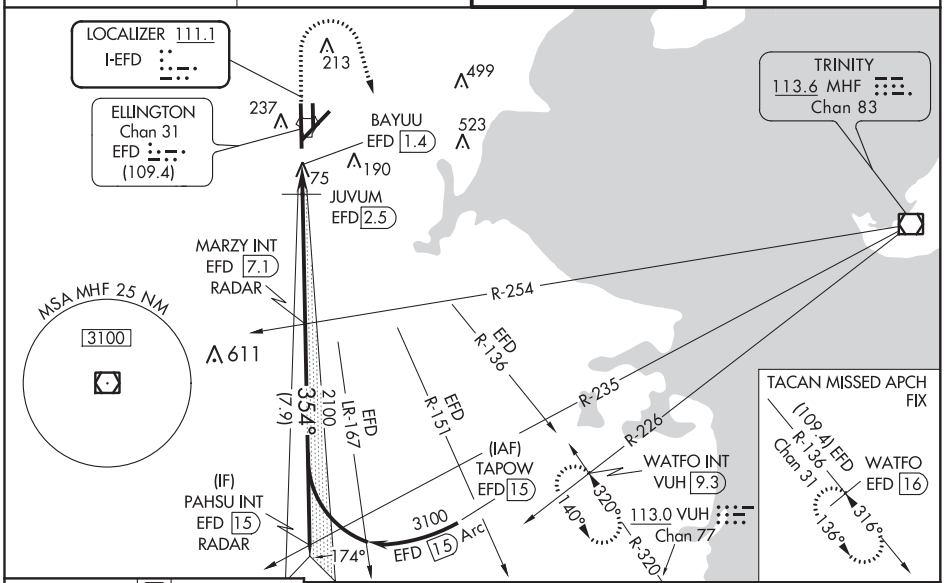
RADAR required for procedure entry.

T A Circling NA west of Rwy 17R-35L. DME from EFD TACAN. Simultaneous reception of I-EFD and EFD DME required. Inop table does not apply to S-ILS 35L. For inop ALS, increase S-LOC 35L Cat C/D/E visibility to 1¾ SM. For inop ALS when using JUVUM fix minimums, increase S-LOC 35L Cat C/D/E visibility to RVR 6000.

MALSF

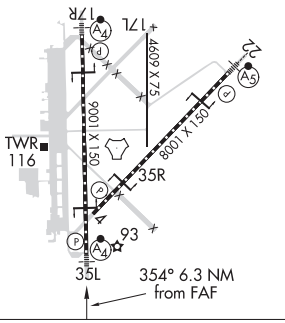
MISSED APPROACH: Climb to 700 then climbing right turn to 3100 on VUH VOR/DME R-320 to WATFO INT/VUH 9.3 DME and hold. (TACAN aircraft climb to 700 then climbing right turn to 3100 on EFD TACAN R-136 to WATFO/EFD 16 DME and hold southeast, left turn, 316° inbound).

ATIS	HOUSTON APP CON	ELLINGTON TOWER	GND CON
135.575 269.9	134.45 284.0	126.05 253.5	121.6 275.8



ELEV 33	D	TDZE 28

HIRL Rwys 4-22 and 17R-35L
TDZ/CL Rwys 17R, 22 and 35L

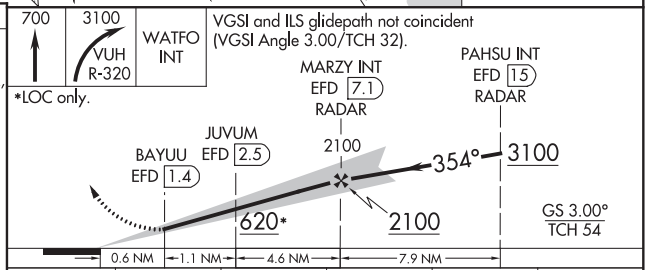


FAF to MAP 5.7 NM					
Knots	60	90	120	150	180
Min:Sec	5:42	3:48	2:51	2:17	1:54

700	3100	WATFO INT
	VUH R-320	

*LOC only.

VGSI and ILS glidepath not coincident (VGSI Angle 3.00/TCH 32).



CATEGORY	A	B	C	D	E
S-ILS 35L	228/40 200 (200-¾)				
S-LOC 35L	620/40 592 (600-¾)		620-1⅜ 592 (600-1⅜)		
C CIRCLING	620-1 587 (600-1)		620-1¾ 587 (600-1¾)	640-2 607 (700-2)	700-2¼ 667 (700-2¼)
JUVUM FIX MINIMUMS (DME REQUIRED)					
S-LOC 35L	440/40 412 (500-¾)		440/50 412 (500-1)		
C CIRCLING	500-1 467 (500-1)		580-1½ 547 (600-1½)	640-2 607 (700-2)	700-2¼ 667 (700-2¼)

HOUSTON, TEXAS
Amdt 7 15AUG19

29°36′N-95°10′W

ELLINGTON (EFD)

ILS Z or LOC Z RWY 35L

SC-5, 25 FEB 2021 to 22 APR 2021

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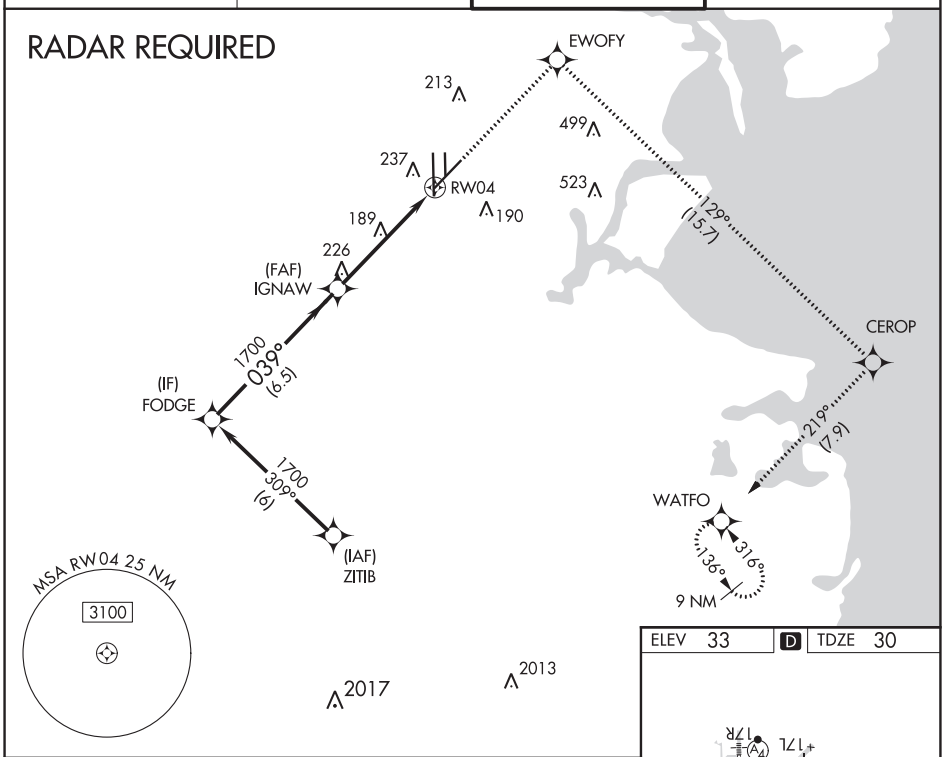
APP CRS	Rwy ldg	8001
039°	TDZE	30
	Apt Elev	33

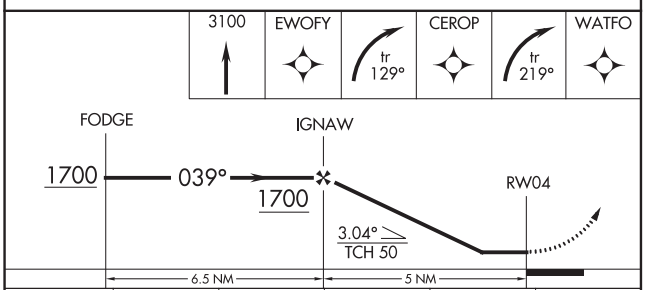
RNAV (GPS) RWY 4
ELLINGTON (EFD)

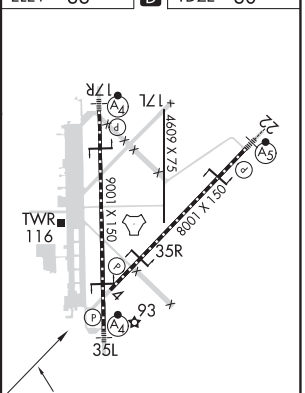
Circling NA west of Rwy 17R-35L.
DME/DME RNP-0.3 NA.
Helicopter visibility reduction below 1 SM NA.

MISSED APPROACH: Climb to 3100 direct EWOFY and right turn on track 129° to CEROP and right turn on track 219° to WATFO and hold.

ATIS	HOUSTON APP CON	ELLINGTON TOWER	GND CON
135.575 269.9	134.45 284.0	126.05 253.5	121.6 275.8







CATEGORY	A	B	C	D	E
LNAV MDA	500-1 470 (500-1)		500-1⅜ 470 (500-1⅜)		
C CIRCLING	500-1 467 (500-1)		580-1½ 547 (600-1½)	640-2 607 (700-2)	700-2¼ 667 (700-2¼)

HIRL Rwys 4-22 and 17R-35L
TDZ/CL Rwys 17R, 22 and 35L

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HOUSTON, TEXAS

AL-197 (FAA)

20282

RNAV (GPS) RWY 17R
ELLINGTON (EFD)

WAAS CH 70625 W17A	APP CRS 174°	Rwy ldg 9001 TDZE 32 Apt Elev 33

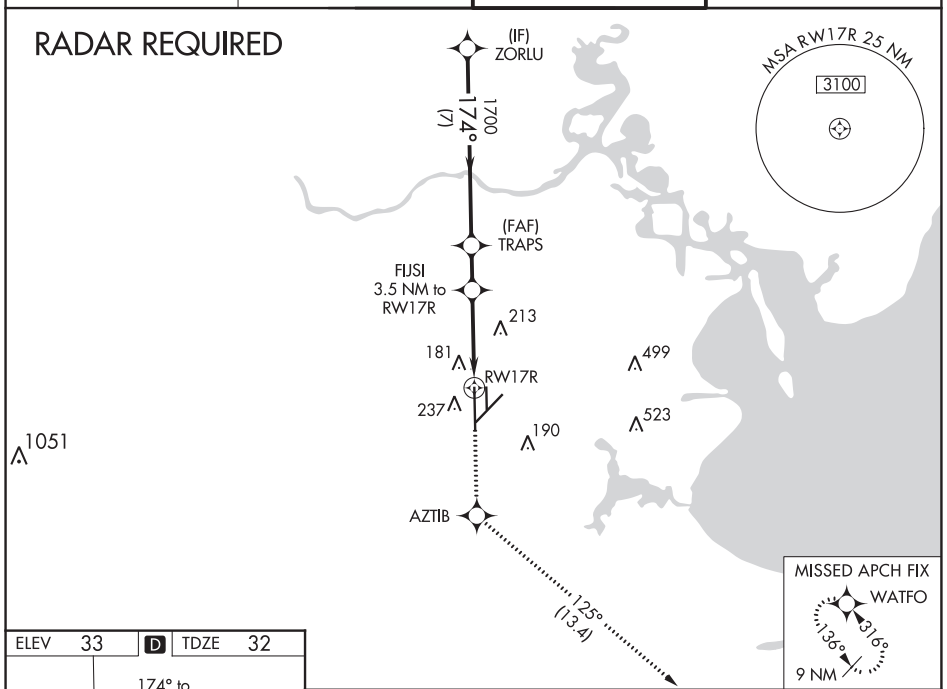
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 43°C (109°F). DME/DME RNP-0.3 NA. Inop table does not apply to LPV DA. For inop MALSF, increase LNAV/VNAV all Cats and LNAV Cats A and B visibility to RVR 5500 and Cats C/D/E visibility to 1⅜ miles. Circling NA west of Rwy 17R-35L.

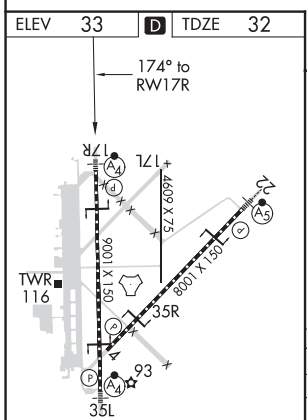
MALSF

MISSED APPROACH: Climb to 3100 direct AZTIB and on track 125° to WATFO and hold.

ATIS	HOUSTON APP CON	ELLINGTON TOWER	GND CON
135.575 269.9	134.45 284.0	126.05 253.5	121.6 275.8

RADAR REQUIRED

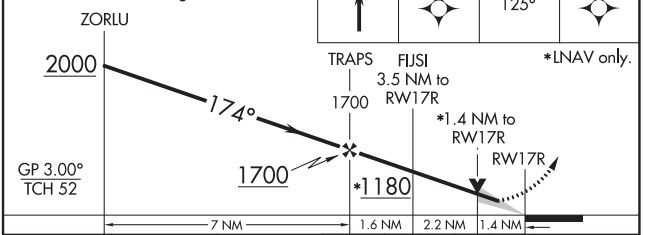




HIRL Rwys 4-22 and 17R-35L
TDZ/CL Rwys 17R, 22 and 35L

VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 48).

3100	AZTIB	tr 125°	WATFO



*LNAV only.

CATEGORY	A	B	C	D	E
LPV DA	232/40 200 (200-¾)				
LNAV/VNAV DA	363/40 331 (400-¾)				
LNAV MDA	500/40 468 (500-¾)		500/60 468 (500-1¼)		
C CIRCLING	500-1 467 (500-1)		580-1½ 547 (600-1½)	640-2 607 (700-2)	700-2¼ 667 (700-2¼)

RNAV (GPS) RWY 22
ELLINGTON (EFD)

WAAS CH 61111 W22A	APP CRS 219°	Rwy ldg 8001 TDZE 31 Apt Elev 33

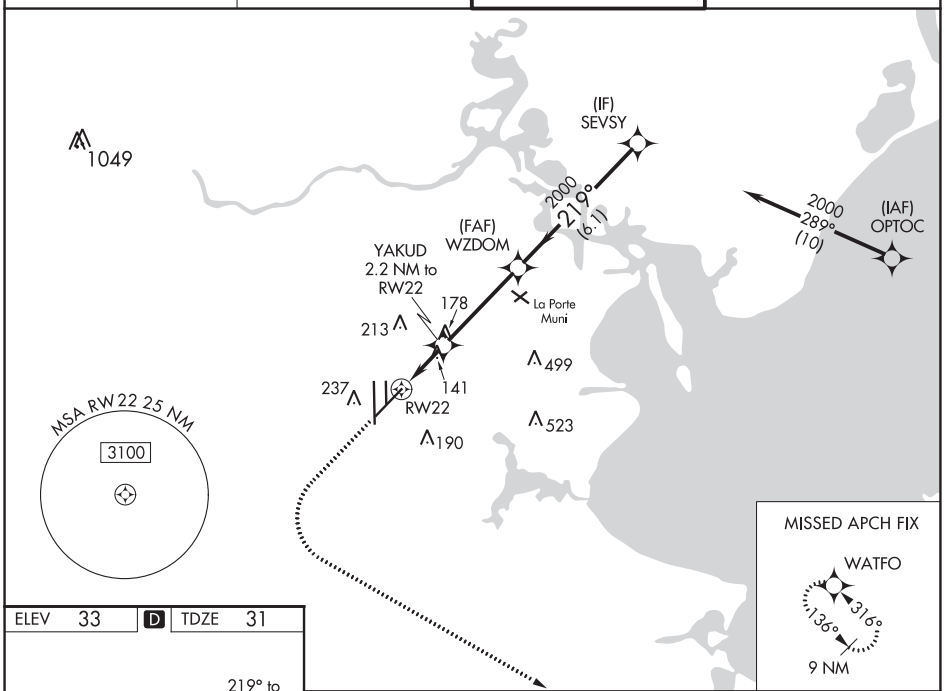
RNP APCH.

Circling NA west of Rwy 17R - 35L. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C or above 54°C. For inop ALS, 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.

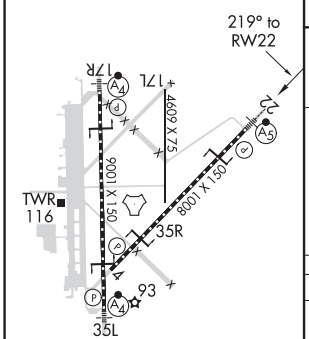
MALSR

MISSED APPROACH: Climb to 500 then climbing left turn to 3100 direct WATFO and hold.

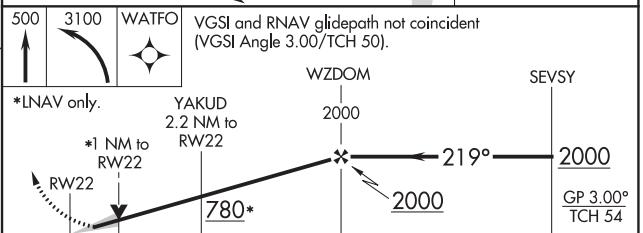
ATIS	HOUSTON APP CON	ELLINGTON TOWER	GND CON
135.575 269.9	134.45 284.0	126.05 253.5	121.6 275.8



ELEV 33 | D | TDZE 31



HIRL Rwys 4-22 and 17R-35L
TDZ/CL Rwys 17R, 22 and 35L



CATEGORY	A	B	C	D	E
LPV DA	231/18 200 (200-½)				
LNAV/VNAV DA	341/24 310 (400-½)				
LNAV MDA	400/24 369 (400-½)		400/35 369 (400-⅝)		
C CIRCLING	500-1 467 (500-1)		580-1½ 547 (600-1½)	640-2 607 (700-2)	700-2¼ 667 (700-2¼)

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RNAV (GPS) RWY 35L
ELLINGTON (EFD)

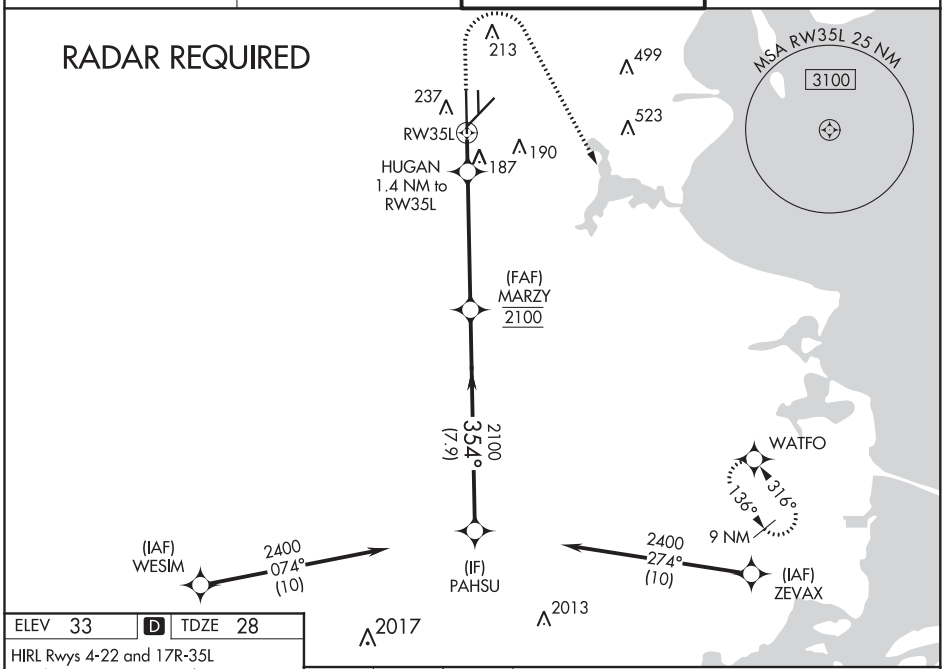
WAAS CH 97629 W35A	APP CRS 354°	Rwy ldg 9001 TDZE 28 Apt Elev 33

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 43°C (109°F). Circling NA west of Rwy 17R-35L. DME/DME RNP-0.3 NA. For inop MALSF, increase LNAV/VNAV all Cats visibility to 1⅝ mile, and LNAV Cats A and B visibility to 1 mile and Cats C, D and E visibility to 1⅛ mile. Inop table does not apply to LPV.

MALSF

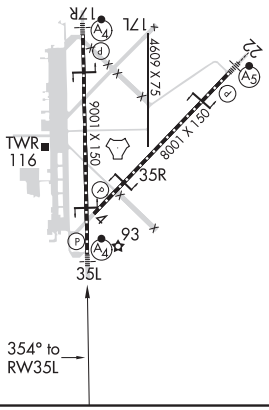
MISSED APPROACH: Climb to 1500 then climbing right turn to 3100 direct WATFO and hold.

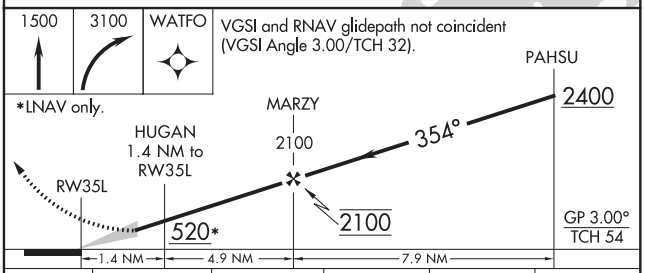
ATIS	HOUSTON APP CON	ELLINGTON TOWER	GND CON
135.575 269.9	134.45 284.0	126.05 253.5	121.6 275.8



ELEV 33 | D | TDZE 28

HIRL Rwys 4-22 and 17R-35L
TDZ/CL Rwys 17R, 22 and 35L





CATEGORY	A	B	C	D	E
LPV DA	228/40 200 (200-¾)				
LNAV/VNAV DA	499/60 471 (500-1¼)				
LNAV MDA	440/40 412 (500-¾)		440/50 412 (500-1)		
C CIRCLING	500-1 468 (500-1)		580-1½ 547 (600-1½)	640-2 607 (700-2)	700-2¼ 667 (700-2¼)

HOUSTON, TEXAS
Amdt 1B 08OCT20

29°36′N-95°10′W

ELLINGTON (EFD)
RNAV (GPS) RWY 35L

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TACAN RWY 4
ELLINGTON (EFD)

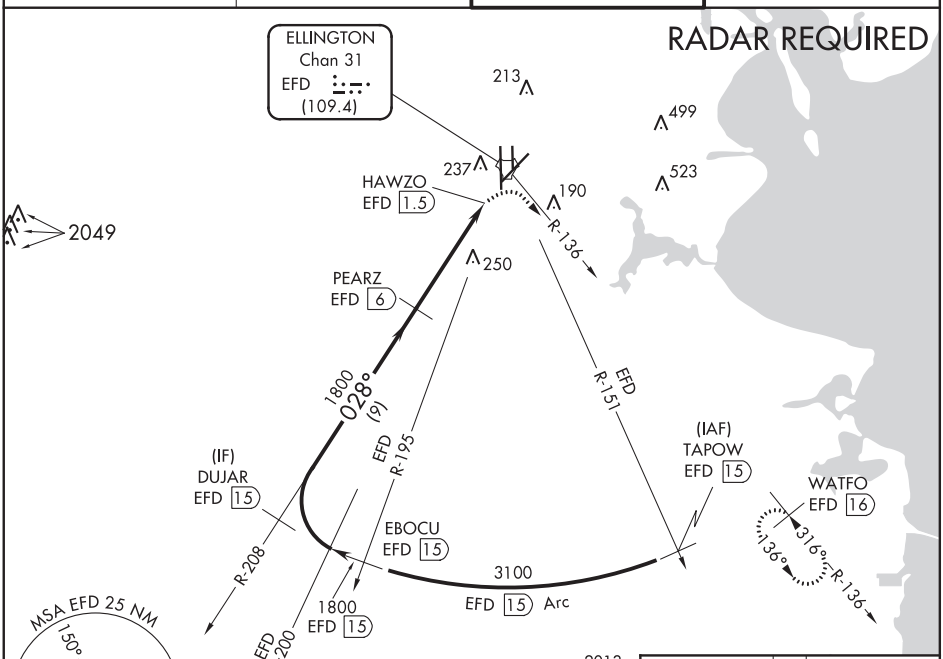
TACAN EFD Chan 31 (109.4)	APP CRS 028°	Rwy ldg 8001 TDZE 30 Apt Elev 33

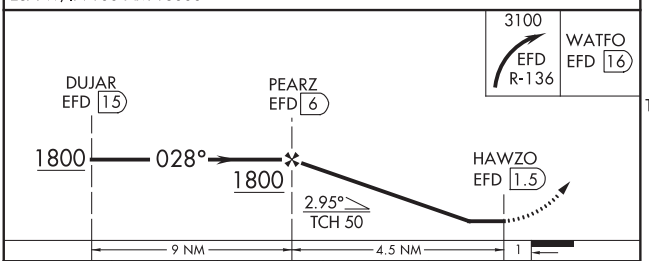
T A NA

Circling NA west of Rwy 17R-35L.
Helicopter visibility reduction below 1 SM NA.

MISSED APPROACH: Climbing right turn to 3100 on EFD TACAN R-136 to WATFO/EFD 16 DME and hold.

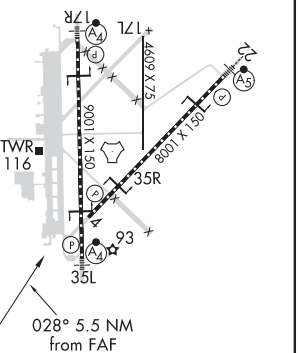
ATIS	HOUSTON APP CON	ELLINGTON TOWER	GND CON
135.575 269.9	134.45 284.0	126.05 253.5	121.6 275.8





CATEGORY	A	B	C	D	E
S-4	520-1¼ 490 (500-1¼)			520-1½ 490 (500-1½)	520-1¾ 490 (500-1¾)
C CIRCLING	520-1¼ 487 (500-1¼)		580-1½ 547 (600-1½)	640-2 607 (700-2)	700-2¼ 667 (700-2¼)

ELEV 33 | D | TDZE 30



HIRL Rwys 4-22 and 17R-35L
TDZ/CL Rwys 17R, 22 and 35L

SC-5, 25 FEB 2021 to 22 APR 2021

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HOUSTON, TEXAS | AL-197 (FAA) | 20282

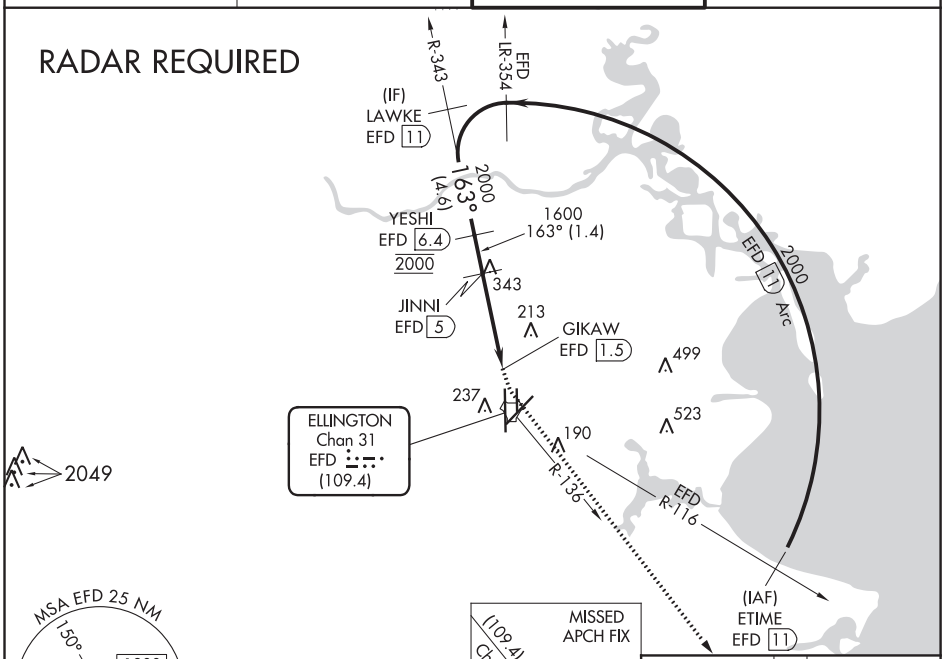
TACAN RWY 17R
ELLINGTON (EFD)

TACAN EFD Chan 31 (109.4)	APP CRS 163°	Rwy ldg 9001 TDZE 32 Apt Elev 33

T A NA — When ALS inop, increase visibility Cat A/B to RVR 5500 and Cat C/D/E visibility to 1⅜ miles. Circling NA west of Rwy 17R-35L.

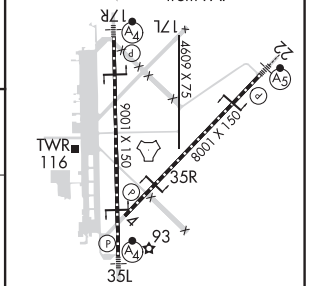
MALSF — MISSED APPROACH: Climbing left turn to 3100 on EFD TACAN R-136 to WATFO/EFD 16 DME and hold.

ATIS	HOUSTON APP CON	ELLINGTON TOWER	GND CON
135.575 269.9	134.45 284.0	126.05 253.5	121.6 275.8



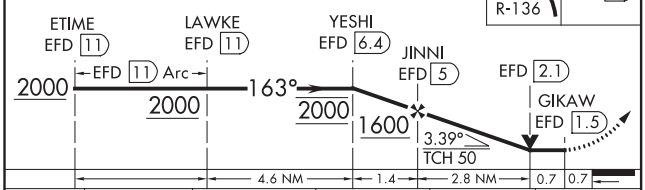
ELEV 33	D	TDZE 32

163° 4.2 NM from FAF



VGSI and descent angles not coincident (VGSI Angle 3.00/TCH 48).

3100 EFD R-136 | WATFO EFD 16



CATEGORY	A	B	C	D	E
S-17R	500/40 468 (500-¾)		500/60 468 (500-1¼)		
C CIRCLING	500-1 467 (500-1)		580-1½ 547 (600-1½)	640-2 607 (700-2)	700-2¼ 667 (700-2¼)

HIRL Rwys 4-22 and 17R-35L
TDZ/CL Rwys 17R, 22 and 35L

HOUSTON, TEXAS
Orig-B 08OCT20

29°36′N-95°10′W

ELLINGTON (EFD)
TACAN RWY 17R

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SC-5, 25 FEB 2021 to 22 APR 2021

TACAN RWY 22
ELLINGTON (EFD)

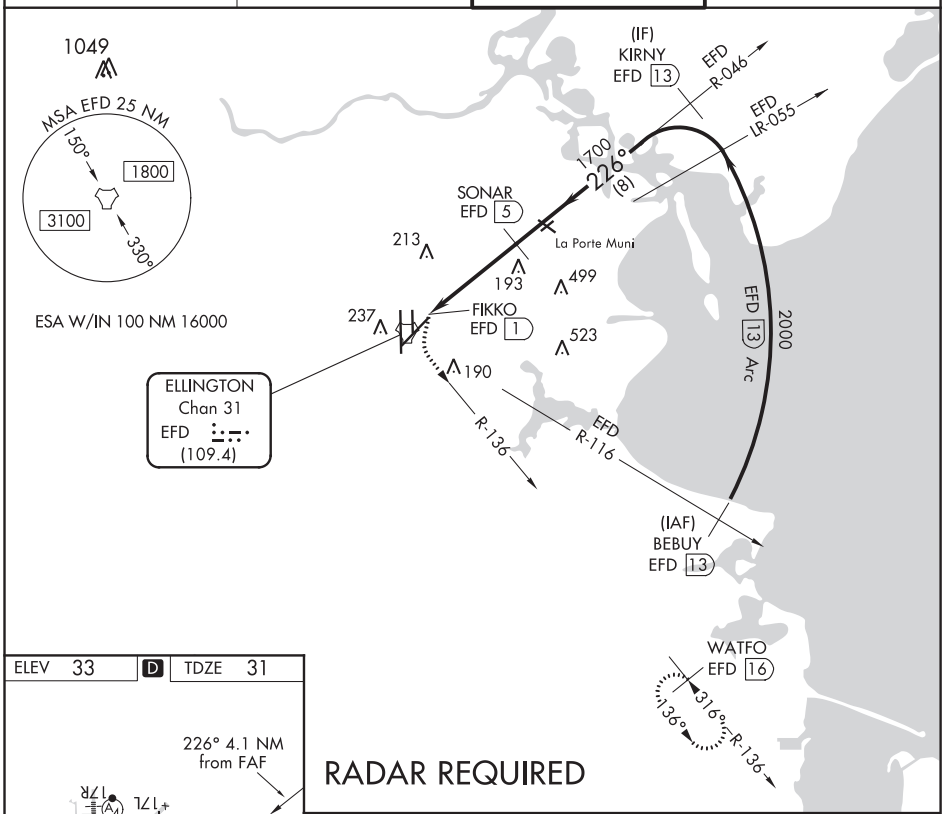
TACAN EFD Chan 31 (109.4)	APP CRS 226°	Rwy ldg 8001 TDZE 31 Apt Elev 33

Circling NA west of Rwy 17R-35L. When ALS inop, increase S-22 Cat A/B visibility to RVR 5500 and Cat C/D/E to 1⅜ miles.

MALSR

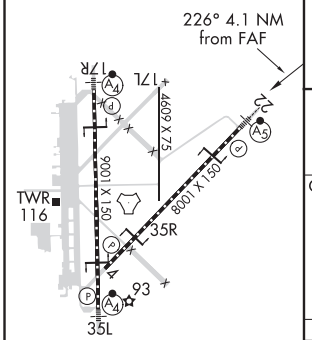
MISSED APPROACH: Climbing left turn to 3100 on EFD TACAN R-136 to WATFO/EFD 16 DME and hold.

ATIS	HOUSTON APP CON	ELLINGTON TOWER	GND CON
135.575 269.9	134.45 284.0	126.05 253.5	121.6 275.8



SC-5, 25 FEB 2021 to 22 APR 2021

ELEV 33 | D | TDZE 31



HIRL Rwys 4-22 and 17R-35L
TDZ/CL Rwys 17R, 22 and 35L

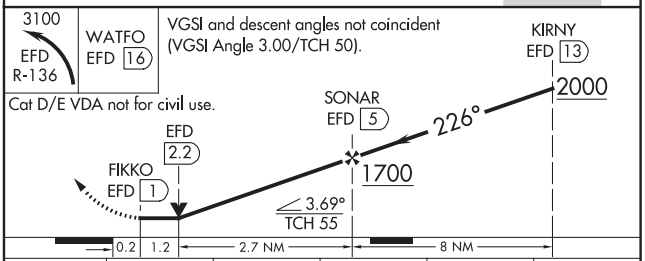
RADAR REQUIRED

3100
EFD
R-136

WATFO
EFD 16

VGSI and descent angles not coincident (VGSI Angle 3.00/TCH 50).

Cat D/E VDA not for civil use.



CATEGORY	A	B	C	D	E
S-22	500/24 469 (500-½)		500/50 469 (500-1)		
C CIRCLING	500-1 467 (500-1)		580-1½ 547 (600-1½)	640-2 607 (700-2)	700-2¼ 667 (700-2¼)

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TACAN RWY 35L
ELLINGTON (EFD)

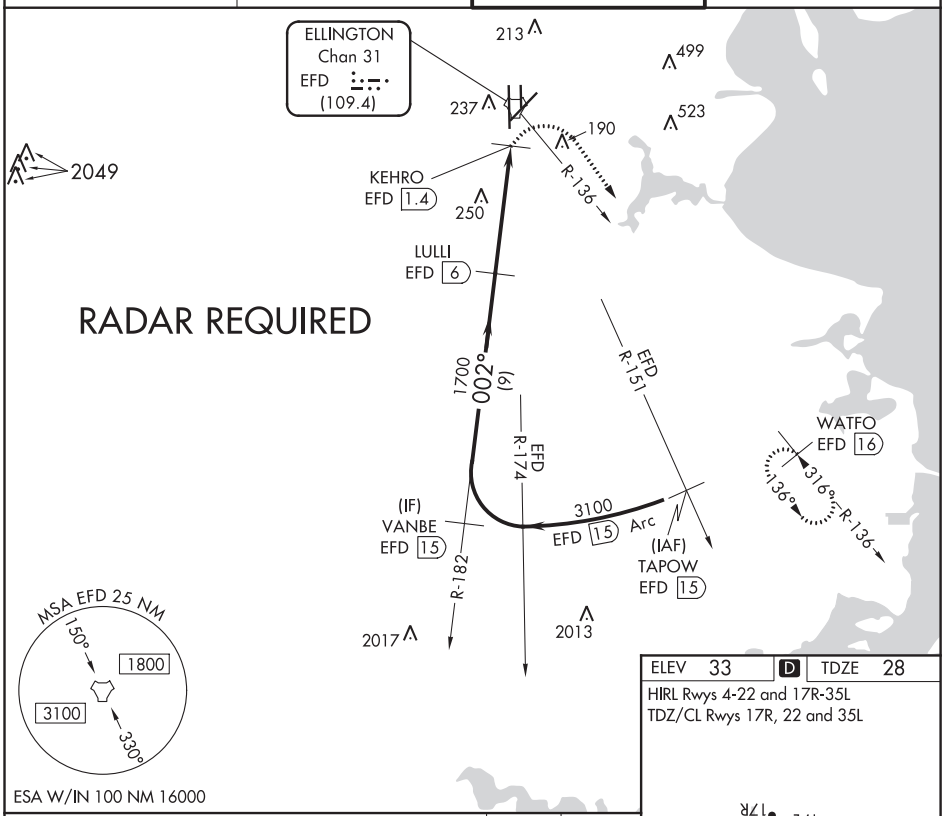
TACAN EFD Chan 31 (109.4)	APP CRS 002°	Rwy ldg 9001 TDZE 28 Apt Elev 33

T A NA — Circling NA west of Rwy 17R-35L. When ALS inop, increase S-35L Cats A/B visibility to RVR 5500 and Cats C/D/E to 1⅜ miles.

MALSF

MISSED APPROACH: Climbing right turn to 3100 on EFD TACAN R-136 to WATFO/EFD 16 DME and hold.

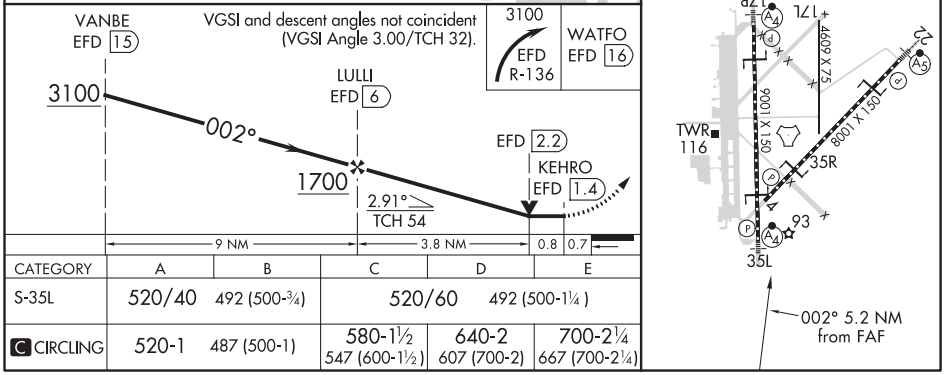
ATIS	HOUSTON APP CON	ELLINGTON TOWER	GND CON
135.575 269.9	134.45 284.0	126.05 253.5	121.6 275.8



ESA W/IN 100 NM 16000

ELEV 33	D	TDZE 28

HIRL Rwys 4-22 and 17R-35L
TDZ/CL Rwys 17R, 22 and 35L



CATEGORY	A	B	C	D	E
S-35L	520/40	492 (500-¾)	520/60	492 (500-1¼)	
C CIRCLING	520-1	487 (500-1)	580-1½ 547 (600-1½)	640-2 607 (700-2)	700-2¼ 667 (700-2¼)

HOUSTON, TEXAS
Orig-B 08OCT20

29°36′N-95°10′W

ELLINGTON (EFD)
TACAN RWY 35L

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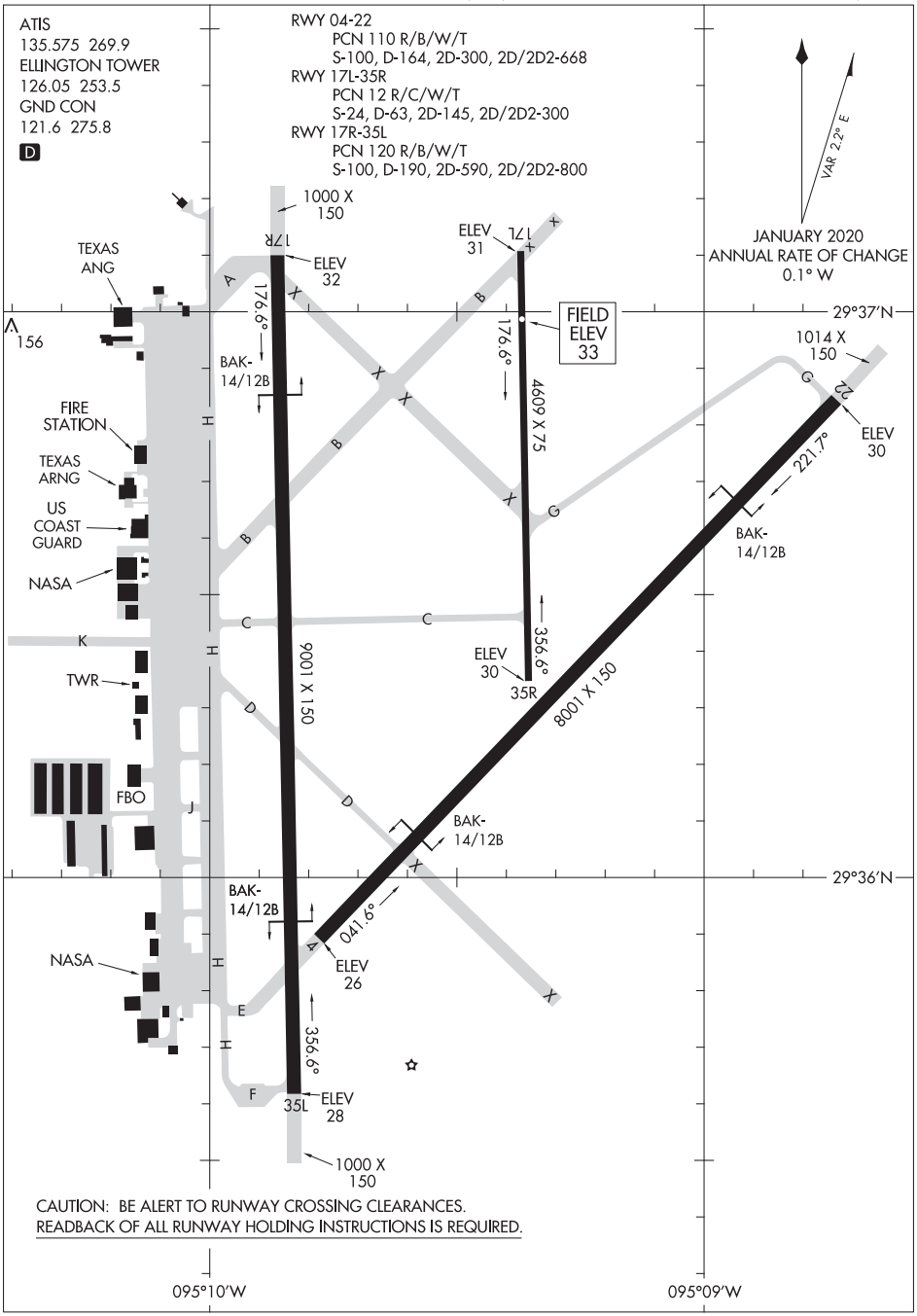
SC-5, 25 FEB 2021 to 22 APR 2021



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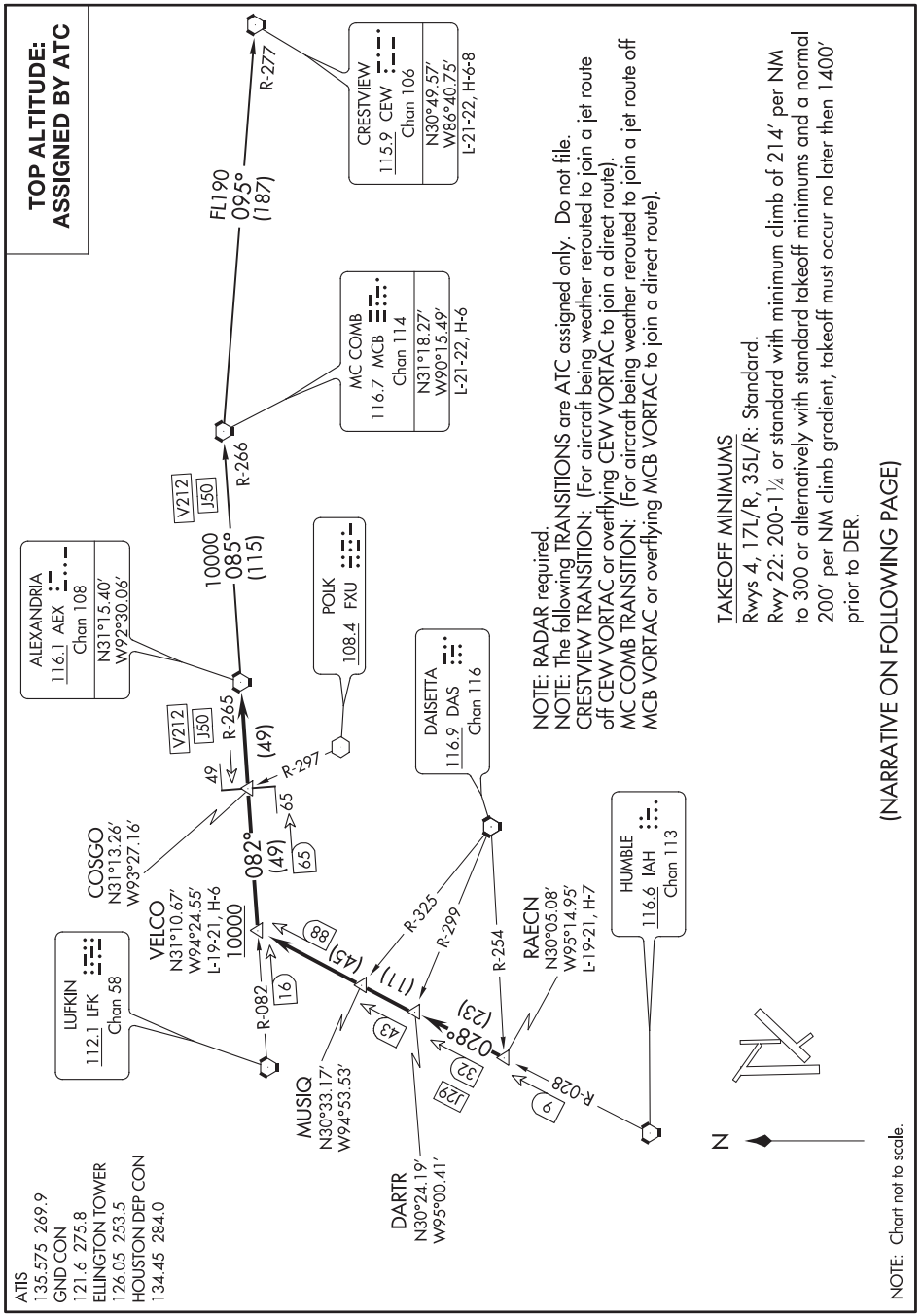
(AEX2.AEX) 19339 AL-197 (FAA)

ALEXANDRIA TWO DEPARTURE

ELLINGTON (EFD)
HOUSTON, TEXAS



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ALEXANDRIA TWO DEPARTURE

(AEX2.AEX) 05DEC19

HOUSTON, TEXAS
ELLINGTON (EFD)

DEPARTURE ROUTE DESCRIPTION

TAKEOFF ALL RWYS: Climb on assigned heading for RADAR vectors to RAECN INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .

. . . .on IAH R-028 to VELCO INT, cross VELCO INT at or above 10000, then right turn on LFK R-082 and AEX R-265 to AEX VORTAC.

CRESTVIEW TRANSITION (AEX2.CEW): From over AEX VORTAC on AEX R-085 and MCB R-266 to MCB VORTAC, then on MCB R-095 and CEW R-277 to CEW VORTAC.

MC COMB TRANSITION (AEX2.MCB): From over AEX VORTAC on AEX R-085 and MCB R-266 to MCB VORTAC.

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(BLTWY6.BLTWY) 19115

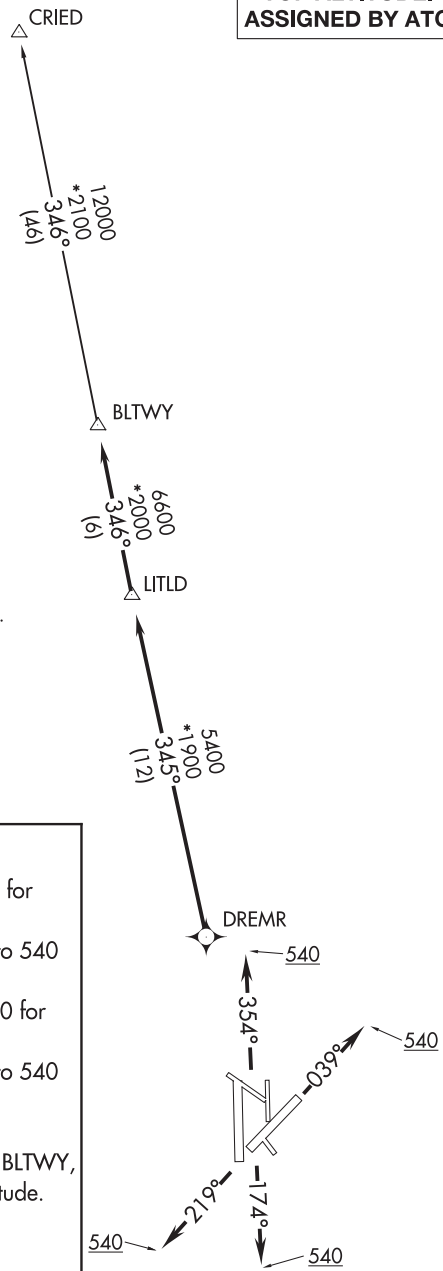
AL-197 (FAA)

BLTWY SIX DEPARTURE (RNAV)

ELLINGTON (EFD)
HOUSTON, TEXAS

ATIS
135.575 269.9
GND CON
121.6 275.8
ELLINGTON TOWER
126.05 253.5
HOUSTON DEP CON
134.45 284.0

TOP ALTITUDE: ASSIGNED BY ATC



NOTE: RADAR required.

NOTE: DME/DME/IRU or GPS required.

NOTE: RNAV 1.

TAKEOFF MINIMUMS
Rwys 4, 17L/R, 22, 35L/R:
Standard with minimum climb of 500′ per NM to 540.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 4: Climb heading 039° to 540 for RADAR vectors to DREMR, thence . . . .
TAKEOFF RWYS 17L/R: Climb heading 174° to 540 for RADAR vectors to DREMR, thence . . . .
TAKEOFF RWY 22: Climb heading 219° to 540 for RADAR vectors to DREMR, thence . . . .
TAKEOFF RWYS 35L/R: Climb heading 354° to 540 for RADAR vectors to DREMR, thence . . . .

...on track 345° to LITLD, then on track 346° to BLTWY, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

CRIED TRANSITION (BLTWY6.CRIED)

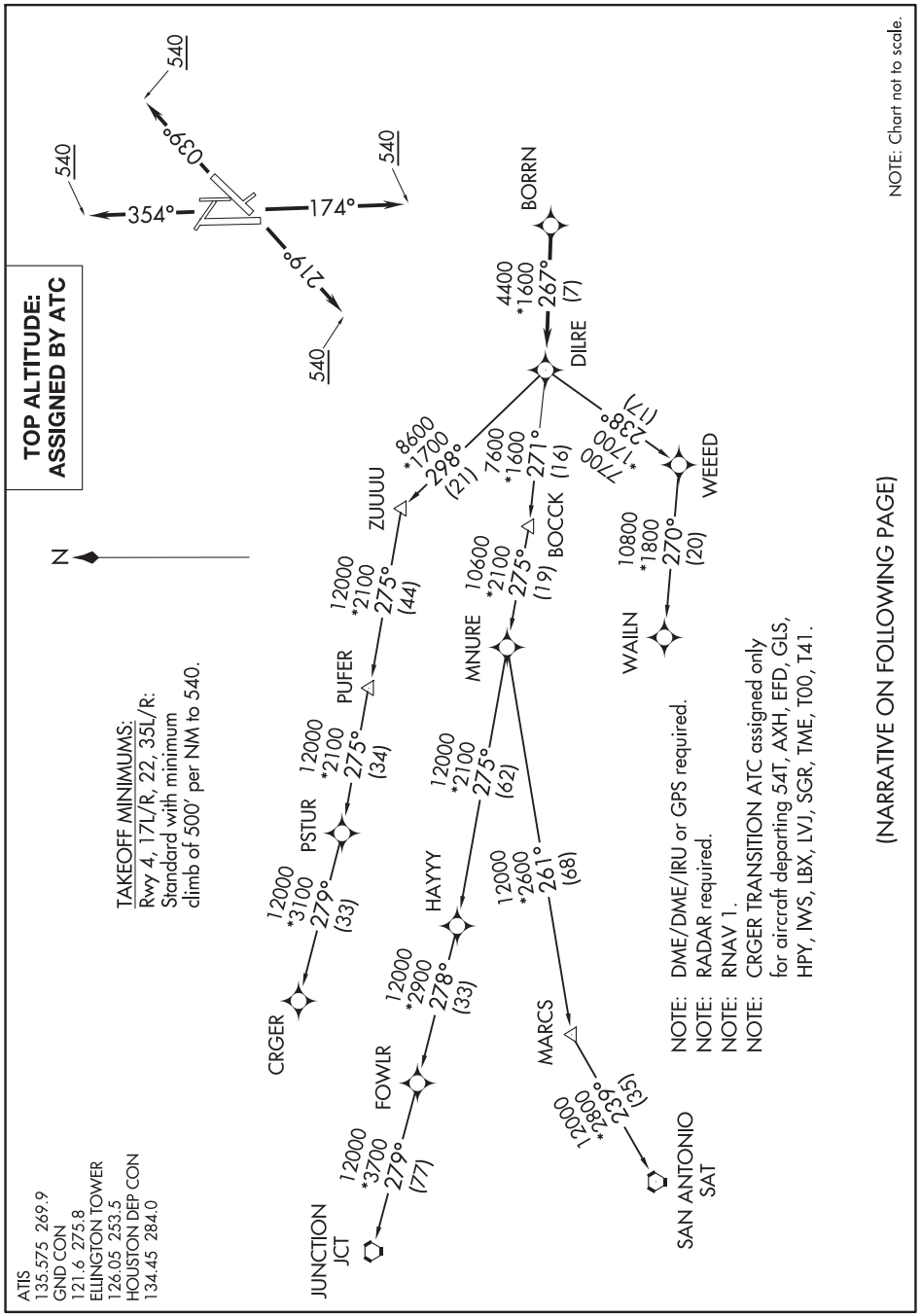
NOTE: Chart not to scale.

SC-5, 25 FEB 2021 to 22 APR 2021

BLTWY SIX DEPARTURE (RNAV)
(BLTWY6.BLTWY) 25APR19

HOUSTON, TEXAS
ELLINGTON (EFD)

BORRN FOUR DEPARTURE (RNAV)



SC-5, 25 FEB 2021 to 22 APR 2021

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 4: Climb on heading 039° to 540, for RADAR vectors to BORRN, thence. . . .
TAKEOFF RWYS 17L/R: Climb on heading 174° to 540, for RADAR vectors to BORRN, thence. . . .
TAKEOFF RWY 22: Climb on heading 219° to 540, for RADAR vectors to BORRN, thence. . . .
TAKEOFF RWYS 35L/R: Climb on heading 354° to 540, for RADAR vectors to BORRN, thence. . . .

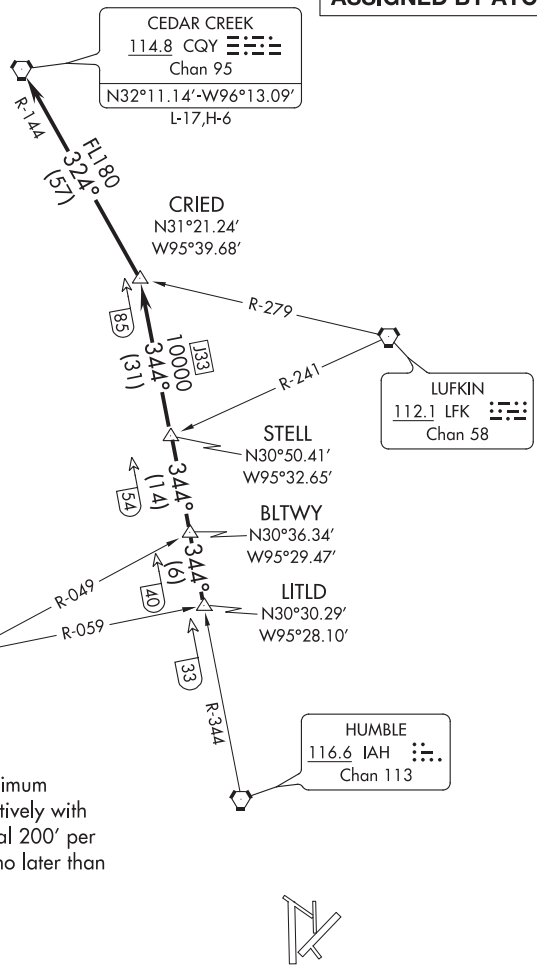
. . . .on track 267° to DILRE, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

CRGER TRANSITION (BORRN4.CRGER)
JUNCTION TRANSITION (BORRN4.JCT)
MNURE TRANSITION (BORRN4.MNURE)
SAN ANTONIO TRANSITION (BORRN4.SAT)
WAILN TRANSITION (BORRN4.WAILN)

SC-5, 25 FEB 2021 to 22 APR 2021

ATIS
135.575 269.9
GND CON
121.6 275.8
ELLINGTON TOWER
126.05 253.5
HOUSTON DEP CON
134.45 284.0

TOP ALTITUDE: ASSIGNED BY ATC



NOTE: RADAR required.

TAKEOFF MINIMUMS
Rwys 4, 17L/R, 35L/R: Standard.
Rwy 22: 200-1¼ or Standard with minimum climb of 214′ per NM to 300 or alternatively with standard takeoff minimums and a normal 200′ per NM climb gradient, takeoff must occur no later than 1400′ prior to DER.

T

DEPARTURE ROUTE DESCRIPTION

TAKEOFF ALL RUNWAYS: Climb on assigned heading for RADAR vectors to LITLD INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence . . . .

. . . . on IAH R-344 to STELL INT, then on IAH R-344 to CRIED INT then left turn on CQY R-144 to CQY VORTAC.

SC-5, 25 FEB 2021 to 22 APR 2021
SC-5, 25 FEB 2021 to 22 APR 2021

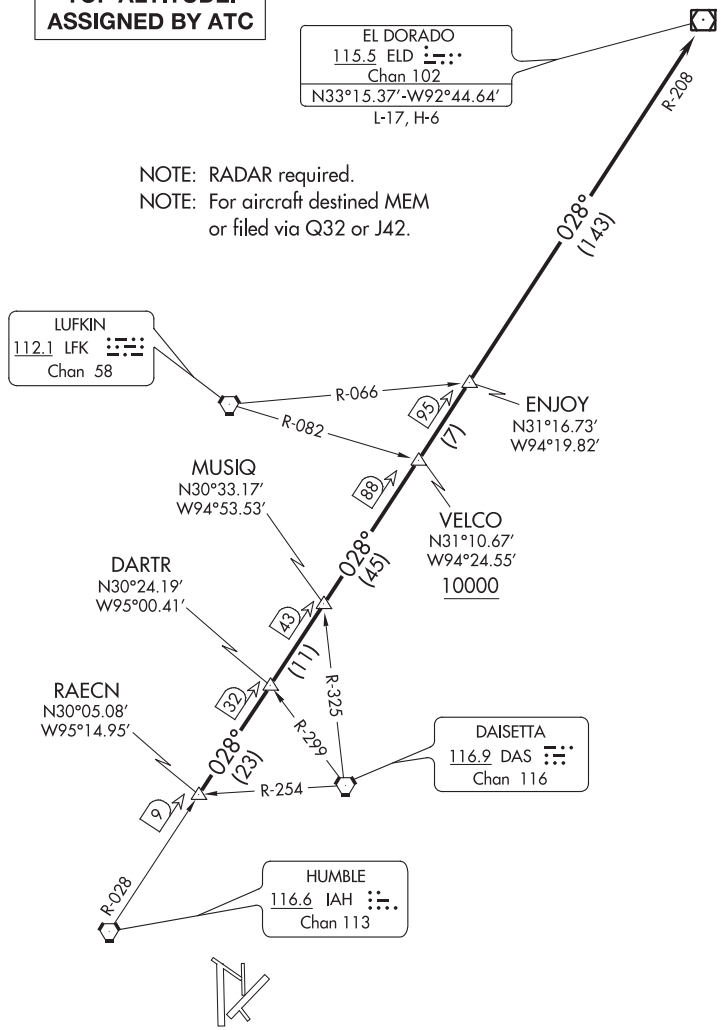
(ELD9.ELD) 18032 AL-197 (FAA)

EL DORADO NINE DEPARTURE

ELLINGTON (EFD)
HOUSTON, TEXAS

ATIS
135.575 269.9
GND CON
121.6 275.8
ELLINGTON TOWER
126.05 253.5
HOUSTON DEP CON
134.45 284.0

TOP ALTITUDE: ASSIGNED BY ATC



NOTE: RADAR required.
NOTE: For aircraft destined MEM or filed via Q32 or J42.

TAKEOFF MINIMUMS
Rwys 4, 17L/R, 35L/R: Standard.
Rwy 22: 200-1¼ or standard with minimum climb of 214′ per NM to 300 or alternatively with standard takeoff minimums and a normal 200′ per NM climb gradient, takeoff must occur no later than 1400′ prior to DER.

NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

SC-5, 25 FEB 2021 to 22 APR 2021

DEPARTURE ROUTE DESCRIPTION

TAKEOFF ALL RWYS: Climb on assigned heading for RADAR vectors to RAECN INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .

. . . .on IAH R-028 and the ELD R-208 to ELD VOR/DME, cross VELCO INT at or above 10000.

SC-5, 25 FEB 2021 to 22 APR 2021

SC-5, 25 FEB 2021 to 22 APR 2021

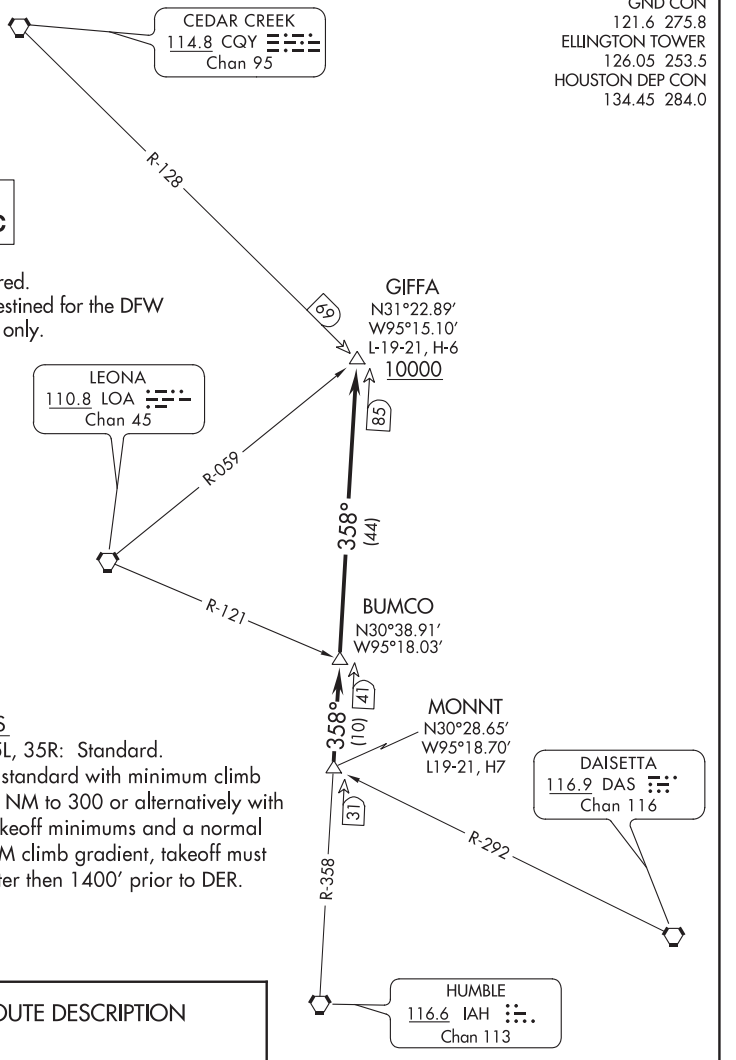
(GIFFA9.GIFFA) 18032

GIFFA NINE DEPARTURE

AL-197 (FAA)

ELLINGTON (EFD)
HOUSTON, TEXAS

ATIS
135.575 269.9
GND CON
121.6 275.8
ELLINGTON TOWER
126.05 253.5
HOUSTON DEP CON
134.45 284.0



TOP ALTITUDE: ASSIGNED BY ATC

NOTE: RADAR required.
NOTE: For aircraft destined for the DFW terminal area only.

TAKEOFF MINIMUMS
Rwys 4, 17L, 17R, 35L, 35R: Standard.
Rwy 22: 200-1¼ or standard with minimum climb of 214′ per NM to 300 or alternatively with standard takeoff minimums and a normal 200′ per NM climb gradient, takeoff must occur no later then 1400′ prior to DER.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF ALL RUNWAYS: Climb on assigned heading for RADAR vectors to MONNT INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence . . . .

. . . . on IAH R-358 to cross GIFFA INT at or above 10000.

NOTE: Chart not to scale.

SC-5, 25 FEB 2021 to 22 APR 2021

SC-5, 25 FEB 2021 to 22 APR 2021

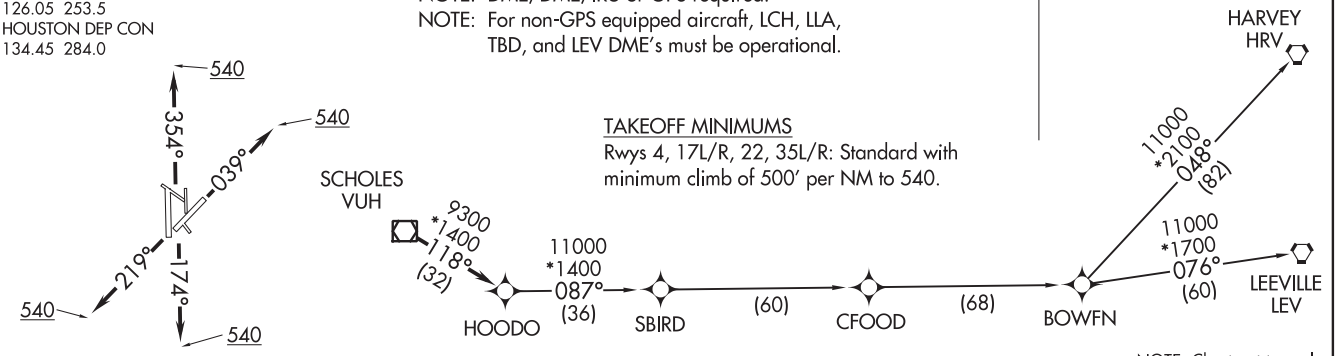
HOODO SIX DEPARTURE (RNAV)
(HOODO6.HOODO) 25APR19

ATIS
135.575 269.9
GND CON
121.6 275.8
ELLINGTON TOWER
126.05 253.5
HOUSTON DEP CON
134.45 284.0

NOTE: RNAV 1.
NOTE: RADAR required.
NOTE: ATC assigned only.
NOTE: DME/DME/IRU or GPS required.
NOTE: For non-GPS equipped aircraft, LCH, LLA, TBD, and LEV DME's must be operational.

TOP ALTITUDE: ASSIGNED BY ATC

TAKEOFF MINIMUMS
Rwys 4, 17L/R, 22, 35L/R: Standard with minimum climb of 500' per NM to 540.



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 4: Climb heading 039° to 540, for RADAR vectors to VUH VOR/DME, thence . . . .
TAKEOFF RWYS 17L/R: Climb heading 174° to 540, for RADAR vectors to VUH VOR/DME, thence . . . .
TAKEOFF RWY 22: Climb heading 219° to 540, for RADAR vectors to VUH VOR/DME, thence . . . .
TAKEOFF RWYS 35L/R: Climb heading 354° to 540, for RADAR vectors to VUH VOR/DME, thence . . . .

. . . . on track 118° to HOODO, then on (transition). Maintain ATC assigned altitude.
Expect filed altitude 10 minutes after departure.

BOWFN TRANSITION (HOODO6.BOWFN)
CFOOD TRANSITION (HOODO6.CFOOD)
HARVEY TRANSITION (HOODO6.HRV)
LEEVILLE TRANSITION (HOODO6.LEV)
SBIRD TRANSITION (HOODO6.SBIRD)

(HOODO6.HOODO) 19115
HOODO SIX DEPARTURE (RNAV)
AL-197 (FAA)
ELLINGTON (EFD)
HOUSTON, TEXAS

HOUSTON, TEXAS
ELLINGTON (EFD)

(INDIE7.INDIE) 19115

AL-197 (FAA)

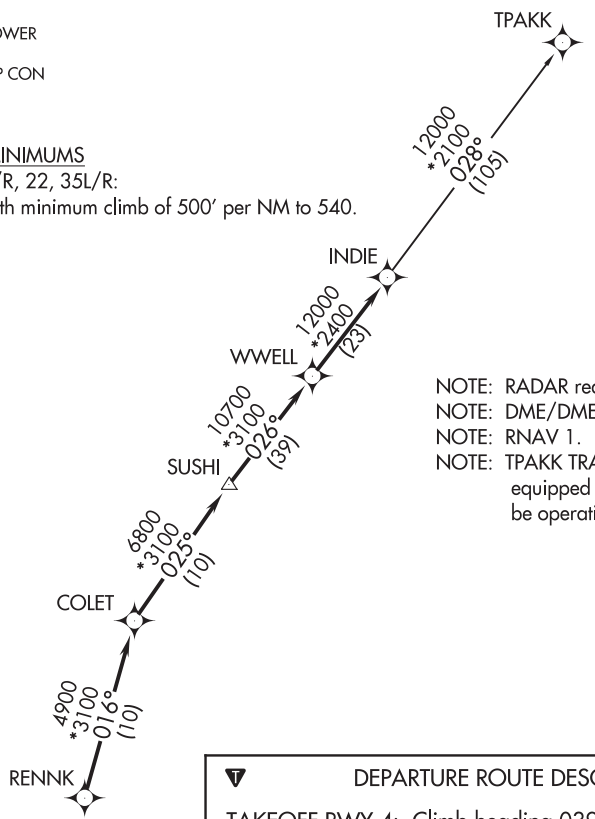
INDIE SEVEN DEPARTURE(RNAV)

ELLINGTON (EFD)
HOUSTON, TEXAS

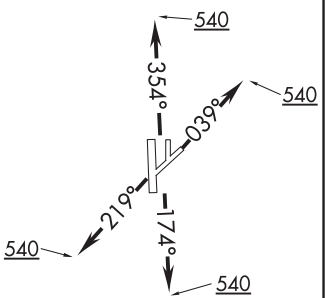
TOP ALTITUDE: ASSIGNED BY ATC

ATIS
135.575 269.9
GND CON
121.6 275.8
ELLINGTON TOWER
126.05 253.5
HOUSTON DEP CON
134.45 284.0

TAKEOFF MINIMUMS
Rwy 4, 17L/R, 22, 35L/R:
Standard with minimum climb of 500′ per NM to 540.



NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV 1.
NOTE: TPAKK TRANSITION: For non GPS equipped aircraft TNV DME must be operational.



NOTE: Chart not to scale.

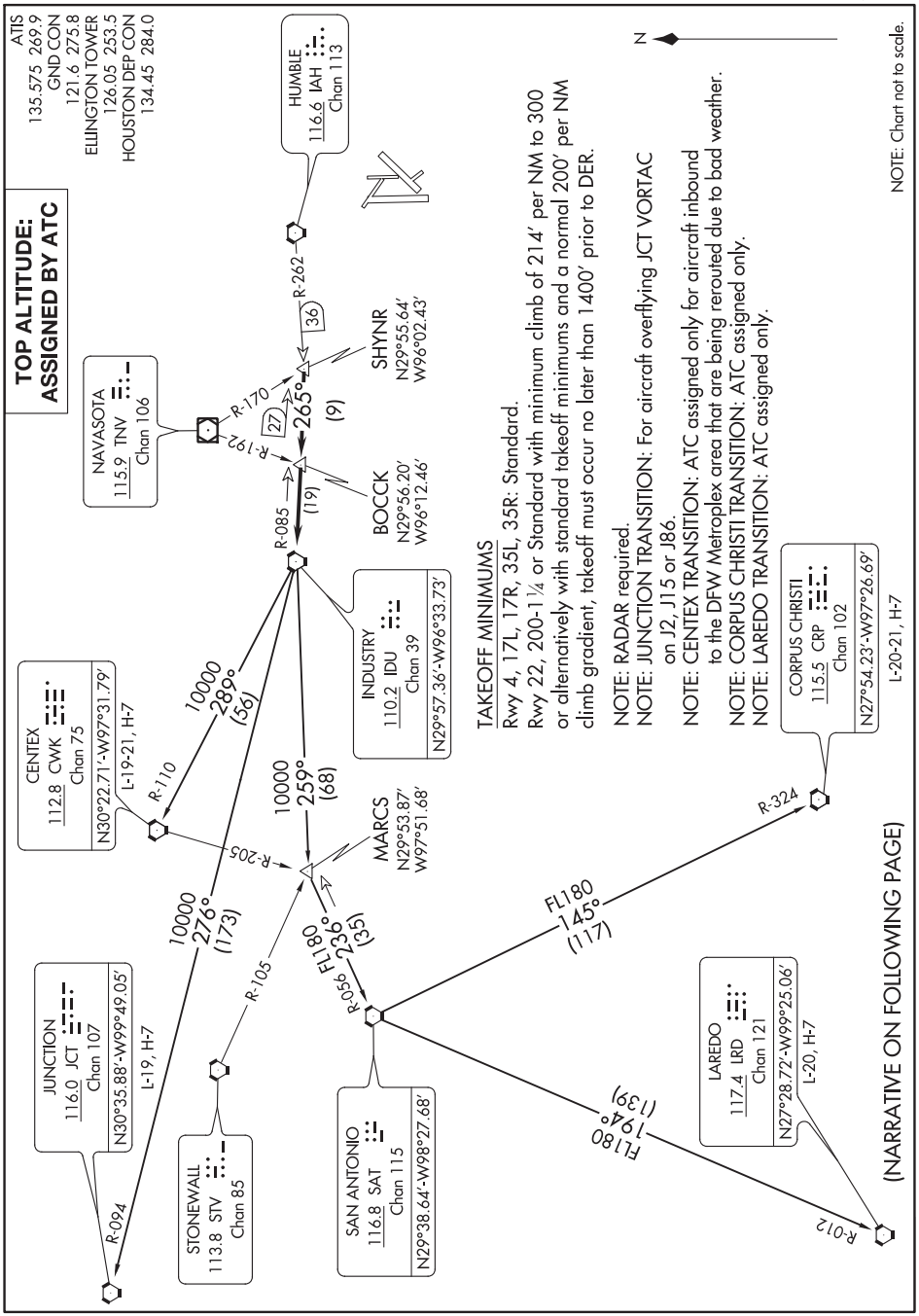
DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 4: Climb heading 039° to 540 for RADAR vectors to RENNK, thence . . . .
TAKEOFF RWYS 17L/R: Climb heading 174° to 540 for RADAR vectors to RENNK, thence . . . .
TAKEOFF RWY 22: Climb heading 219° to 540 for RADAR vectors to RENNK, thence . . . .
TAKEOFF RWYS 35L/R: Climb heading 354° to 540 for RADAR vectors to RENNK, thence . . . .

. . . . on track 016° to COLET, then on track 025° to SUSHI, then on track 026° to WWELL, then on track 026° to INDIE, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

TPAKK TRANSITION (INDIE7.TPAKK)

SC-5, 25 FEB 2021 to 22 APR 2021


ATIS 135.575 269.9
GND CON 121.6 275.8
ELLINGTON TOWER 126.05 253.5
HOUSTON DEP CON 134.45 284.0
TOP ALTITUDE: ASSIGNED BY ATC
HUMBLE 116.6 IAH Chan 113
R-262
36
SHYNR N29°55.64' W96°02.43'
265°
(9)
R-170
27
R-192
NAVASOTA 115.9 TNV Chan 106
BOCCK N29°56.20' W96°12.46'
(19)
R-085
INDUSTRY 110.2 IDU Chan 39
N29°57.36'-W96°33.73'
10000 289° (56)
CENTEX 112.8 CWK Chan 75
L-19-21, H-7
N30°22.71'-W97°31.79'
R-110
10000 259° (68)
MARCS N29°53.87' W97°51.68'
R-205
10000 276° (173)
R-105
FL180 236° (35)
R-056
JUNCTION 116.0 JCT Chan 107
N30°35.88'-W99°49.05'
L-19, H-7
R-094
STONEWALL 113.8 STV Chan 85
SAN ANTONIO 116.8 SAT Chan 115
N29°38.64'-W98°27.68'
TAKEOFF MINIMUMS
Rwy 4, 17L, 17R, 35L, 35R: Standard.
Rwy 22, 200-1¼ or Standard with minimum climb of 214' per NM to 300 or alternatively with standard takeoff minimums and a normal 200' per NM climb gradient, takeoff must occur no later than 1400' prior to DER.
NOTE: RADAR required.
NOTE: JUNCTION TRANSITION: For aircraft overflying JCT VORTAC on J2, J15 or J86.
NOTE: CENTEX TRANSITION: ATC assigned only for aircraft inbound to the DFW Metroplex area that are being rerouted due to bad weather.
NOTE: CORPUS CHRISTI TRANSITION: ATC assigned only.
NOTE: LAREDO TRANSITION: ATC assigned only.
N
NOTE: Chart not to scale.
CORPUS CHRISTI 115.5 CRP Chan 102
N27°54.23'-W97°26.69'
L-20-21, H-7
R-324
FL180 145° (117)
LAREDO 117.4 LRD Chan 121
N27°28.72'-W99°25.06'
L-20, H-7
FL180 194° (139)
R-012
(NARRATIVE ON FOLLOWING PAGE)

DEPARTURE ROUTE DESCRIPTION

TAKEOFF ALL RWYS: Climb on assigned heading for RADAR vectors to SHYNR INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence . . . .

. . . . on IDU R-085 to BOCCK INT, then on IDU R-085 to IDU VORTAC.

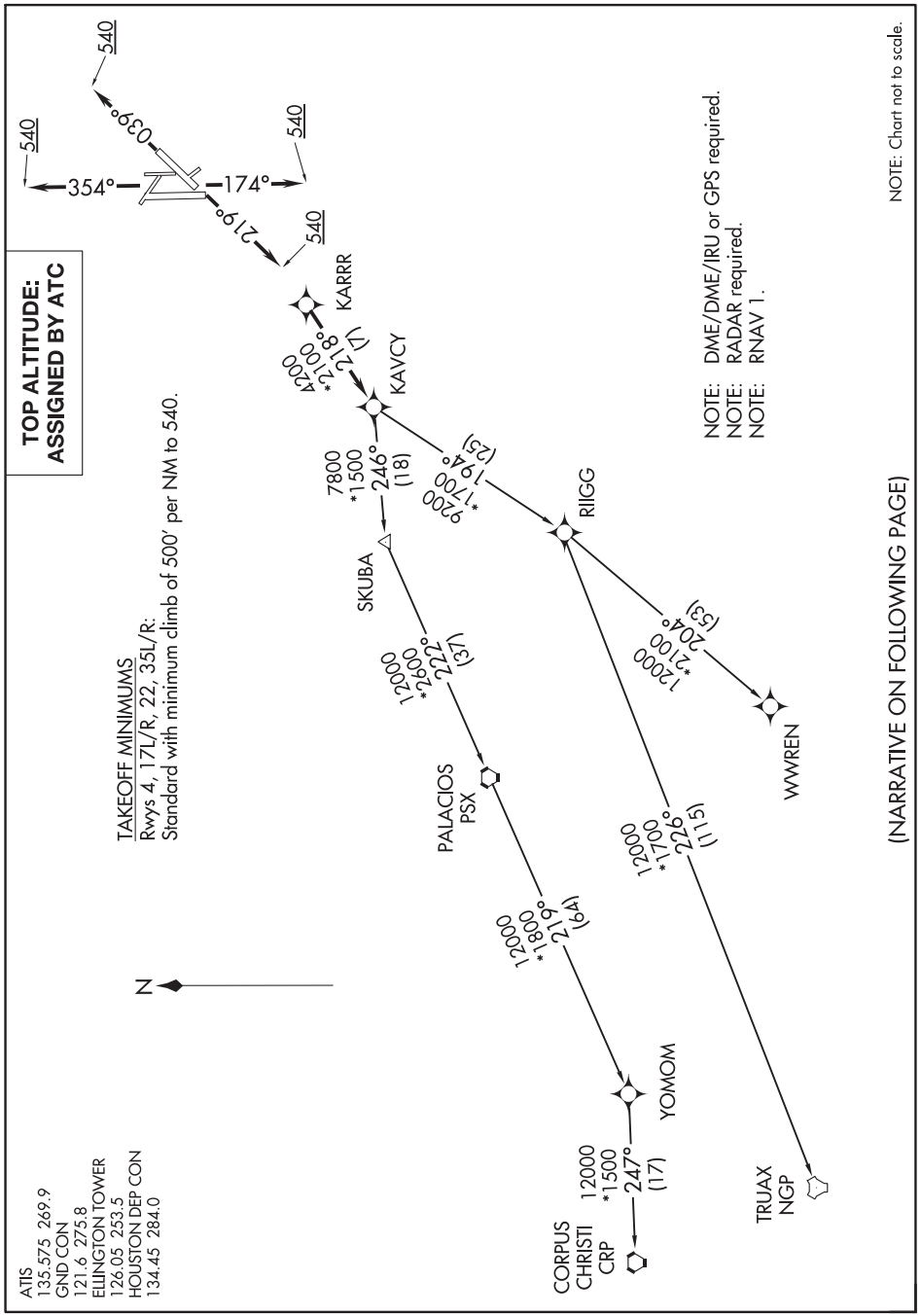
CENTEX TRANSITION (IDU9.CWK): From over IDU VORTAC on IDU R-289 and CWK R-110 to CWK VORTAC.

CORPUS CHRISTI TRANSITION (IDU9.CRP): From over IDU VORTAC on IDU R-259 to MARCS INT, then on SAT R-056 to SAT VORTAC, then on SAT R-145 and CRP R-324 to CRP VORTAC.

JUNCTION TRANSITION (IDU9.JCT): From over IDU VORTAC on IDU R-276 and JCT R-094 to JCT VORTAC.

LAREDO TRANSITION (IDU9.LRD): From over IDU VORTAC on IDU R-259 to MARCS INT, then on SAT R-056 to SAT VORTAC, then on SAT R-194 and LRD R-012 to LRD VORTAC.

SC-5, 25 FEB 2021 to 22 APR 2021


TOP ALTITUDE:
ASSIGNED BY ATC
TAKEOFF MINIMUMS
Rwys 4, 17L/R, 22, 35L/R:
Standard with minimum climb of 500' per NM to 540.
540
354°
039°
174°
219°
540
540
540
KARRR
4200
*2100
218°
(1)
KAVCY
7800
*1500
246°
(18)
SKUBA
9200
*1700
194°
(25)
RIIGG
12000
*2600
222°
(37)
PALACIOS
PSX
12000
*1800
219°
(49)
YOMOM
12000
*1500
247°
(17)
CORPUS
CHRISTI
CRP
12000
*1100
226°
(51)
TRUAX
NGP
12000
*2100
204°
(53)
WWREN
N
ATIS
135.575 269.9
GND CON
121.6 275.8
ELLINGTON TOWER
126.05 253.5
HOUSTON DEP CON
134.45 284.0
NOTE: DME/DME/IRU or GPS required.
NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: Chart not to scale.
(NARRATIVE ON FOLLOWING PAGE)

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 4: Climb on heading 039° to 540, for RADAR vectors to KARRR, thence. . . .
TAKEOFF RWYS 17L/R: Climb on heading 174° to 540, for RADAR vectors to KARRR, thence. . . .
TAKEOFF RWY 22: Climb on heading 219° to 540, for RADAR vectors to KARRR, thence. . . .
TAKEOFF RWYS 35L/R: Climb on heading 354° to 540, for RADAR vectors to KARRR, thence. . . .

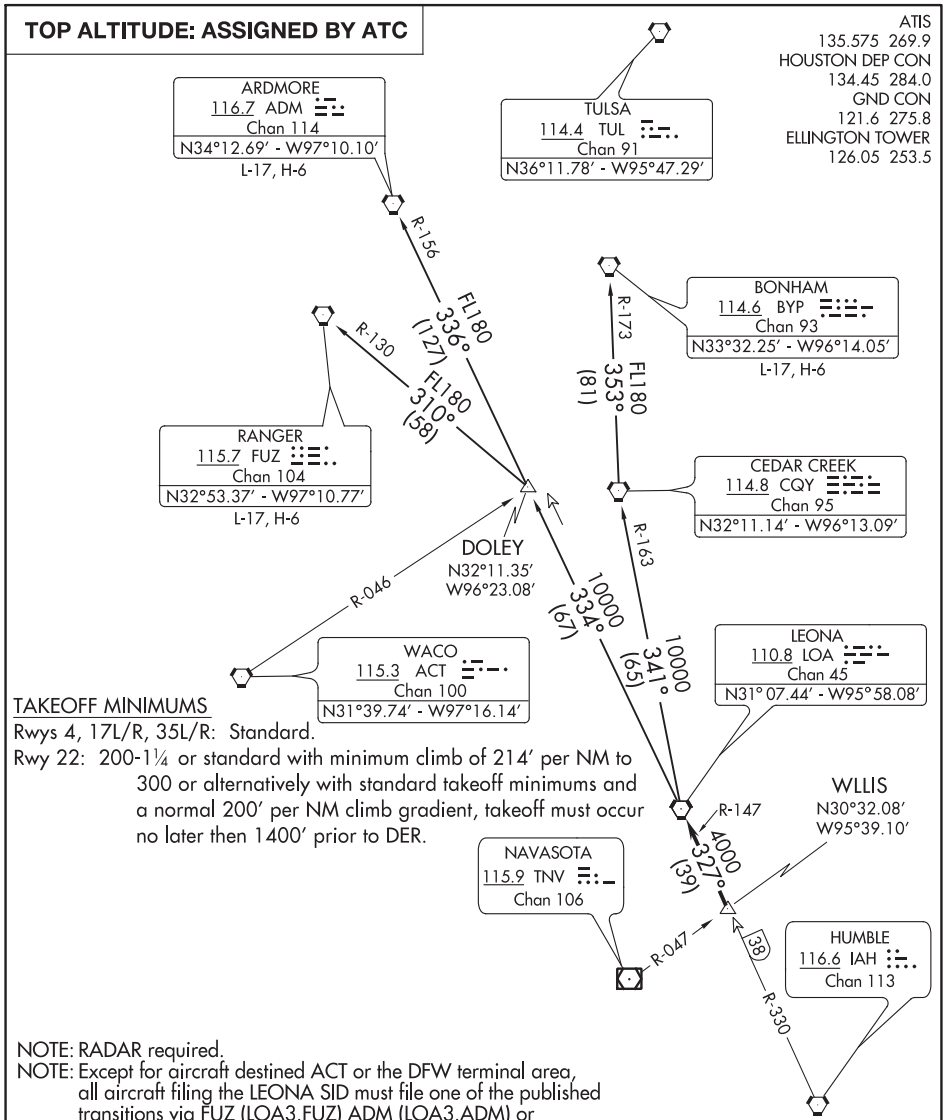
. . . .on track 218° to KAVCY, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

CORPUS CHRISTI TRANSITION (KARRR6.CRP)
PALACIOS TRANSITION (KARRR6.PSX)
TRUAX TRANSITION (KARRR6.NGP)
WWREN TRANSITION (KARRR6.WWREN)
YOMOM TRANSITION (KARRR6.YOMOM)

SC-5, 25 FEB 2021 to 22 APR 2021

TOP ALTITUDE: ASSIGNED BY ATC

ATIS
135.575 269.9
HOUSTON DEP CON
134.45 284.0
GND CON
121.6 275.8
ELLINGTON TOWER
126.05 253.5



TAKEOFF MINIMUMS

Rwys 4, 17L/R, 35L/R: Standard.

Rwy 22: 200-1¼ or standard with minimum climb of 214′ per NM to 300 or alternatively with standard takeoff minimums and a normal 200′ per NM climb gradient, takeoff must occur no later then 1400′ prior to DER.

NOTE: RADAR required.

NOTE: Except for aircraft destined ACT or the DFW terminal area, all aircraft filing the LEONA SID must file one of the published transitions via FUZ (LOA3.FUZ) ADM (LOA3.ADM) or BYP (LOA3.BYP).

NOTE: RANGER TRANSITION: For aircraft overflying west/northwest of the DFW terminal area FL240 and above.

NOTE: ARDMORE TRANSITION: For aircraft overflying north/northwest of the DFW terminal area FL240 and above.

NOTE: BONHAM TRANSITION: For aircraft overflying/landing TUL VORTAC FL240 and above.

NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

SC-5, 25 FEB 2021 to 22 APR 2021
SC-5, 25 FEB 2021 to 22 APR 2021

DEPARTURE ROUTE DESCRIPTION

TAKEOFF ALL RUNWAYS: Climb on assigned heading for RADAR vectors to WLLIS INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence . . . .

. . . . on LOA R-147 to LOA VORTAC.

ARDMORE TRANSITION (LOA3.ADM): From over LOA VORTAC on LOA R-334 to DOLEY INT, then on ADM R-156 to ADM VORTAC.

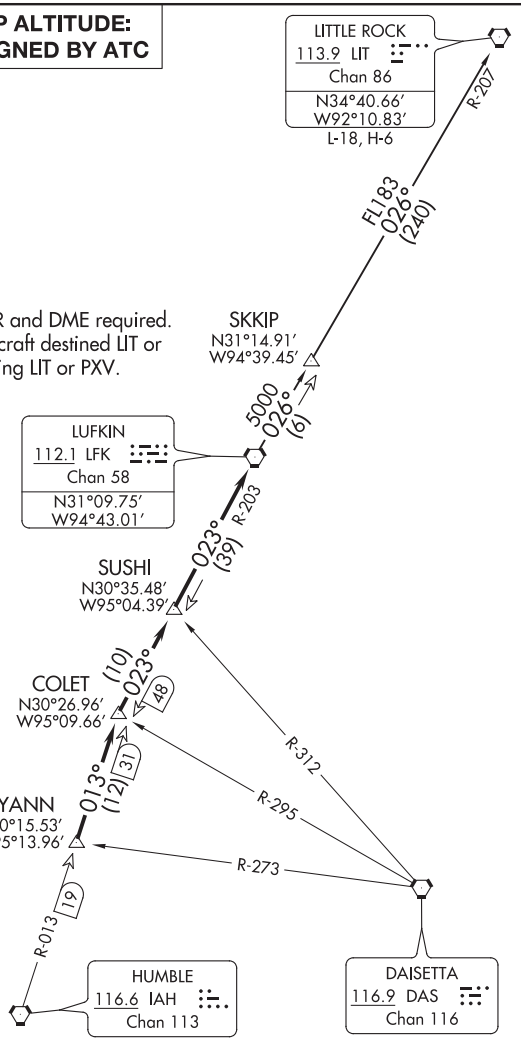
BONHAM TRANSITION (LOA3.BYP): From over LOA VORTAC on LOA R-341 and CQY R-163 to CQY VORTAC, then on BYP R-173 to BYP VORTAC.

RANGER TRANSITION (LOA3.FUZ): From over LOA VORTAC on LOA R-334 to DOLEY INT, then on FUZ R-130 to FUZ VORTAC.

LUFKIN TWO DEPARTURE

ATIS
135.575 269.9
GND CON
121.6 275.8
ELLINGTON TOWER
126.05 253.5
HOUSTON DEP CON
134.45 284.0

TOP ALTITUDE: ASSIGNED BY ATC



NOTE: RADAR and DME required.
NOTE: For aircraft destined LIT or overflying LIT or PXV.

TAKEOFF MINIMUMS

Rwys 4, 17L/R, 35L/R: Standard.

Rwy 22: 200-1¼ or standard with minimum climb of 214′ per NM to 300 or alternatively with standard takeoff minimums and a normal 200′ per NM climb gradient, takeoff must occur no later then 1400′ prior to DER.

NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

SC-5, 25 FEB 2021 to 22 APR 2021
SC-5, 25 FEB 2021 to 22 APR 2021

LUFKIN TWO DEPARTURE

DEPARTURE ROUTE DESCRIPTION

Climb on assigned heading for RADAR vectors to KYANN INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .

. . . .on IAH R-013 to COLET INT, then right turn on LFK R-203 to LFK VORTAC.

LITTLE ROCK TRANSITION (LFK2.LIT): From over LFK VORTAC on LFK R-026 to SKKIP INT, then on LFK R-026 and LIT R-207 to LIT VORTAC.

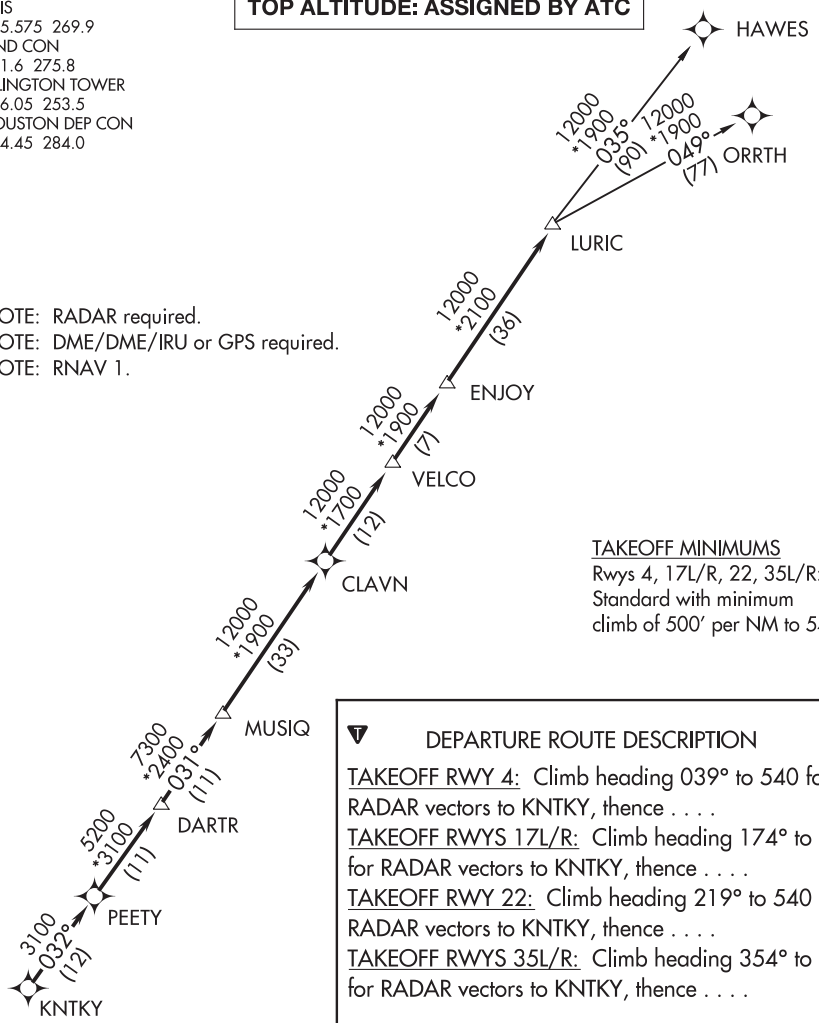
LURIC SEVEN DEPARTURE (RNAV)

HOUSTON, TEXAS

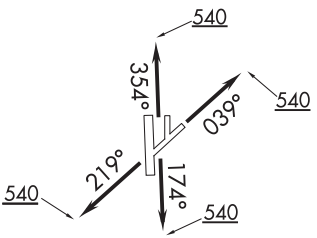
TOP ALTITUDE: ASSIGNED BY ATC

ATIS
135.575 269.9
GND CON
121.6 275.8
ELLINGTON TOWER
126.05 253.5
HOUSTON DEP CON
134.45 284.0

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



TAKEOFF MINIMUMS
Rwys 4, 17L/R, 22, 35L/R:
Standard with minimum climb of 500′ per NM to 540.



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 4: Climb heading 039° to 540 for RADAR vectors to KNTKY, thence . . . .
TAKEOFF RWYS 17L/R: Climb heading 174° to 540 for RADAR vectors to KNTKY, thence . . . .
TAKEOFF RWY 22: Climb heading 219° to 540 for RADAR vectors to KNTKY, thence . . . .
TAKEOFF RWYS 35L/R: Climb heading 354° to 540 for RADAR vectors to KNTKY, thence . . . .

. . . . on track 032° to PEETY, then on track 032° to DARTR, then on track 031° to MUSIQ, then on track 031° to CLAVN, then on track 031° to VELCO, then on track 031° to ENJOY, then on track 031° to LURIC, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

HAWES TRANSITION (LURIC7.HAWES)
ORRTH TRANSITION (LURIC7.ORRTH)

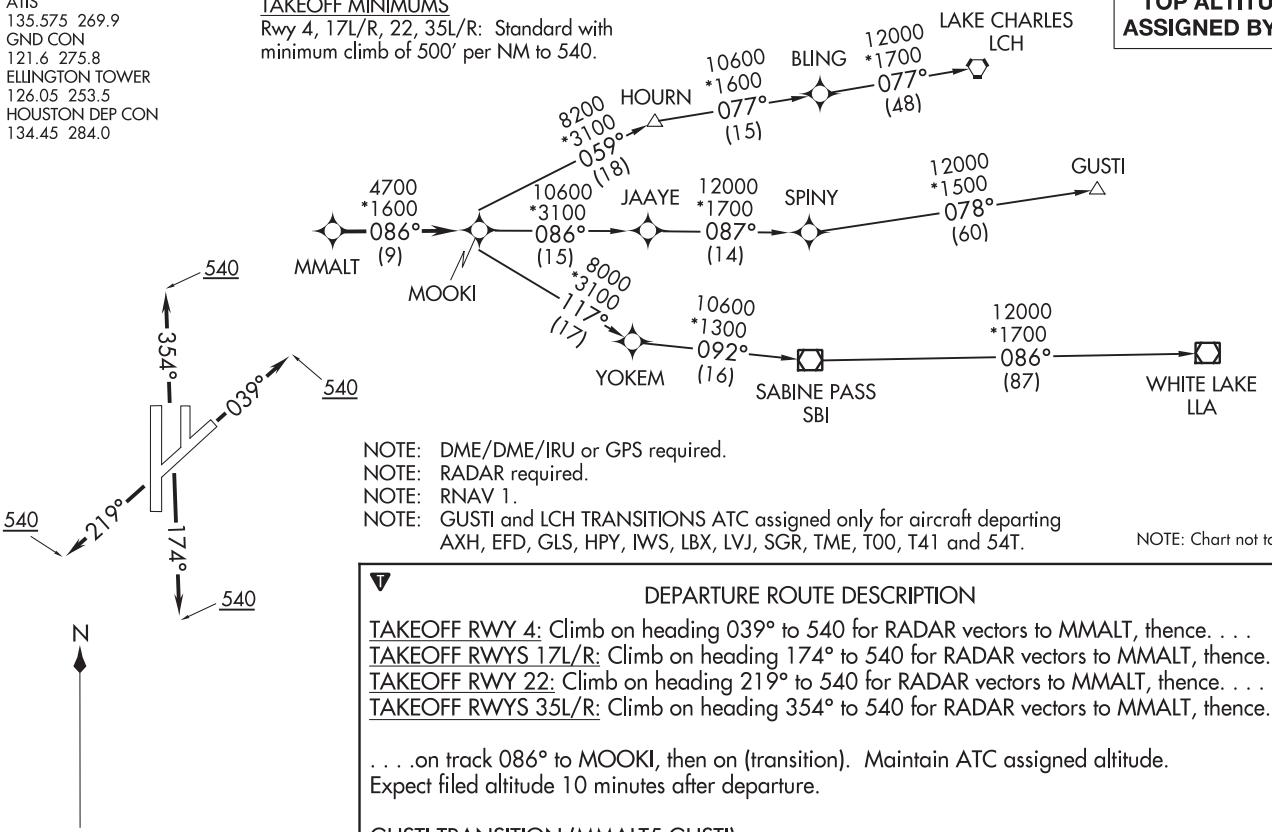
SC-5, 25 FEB 2021 to 22 APR 2021

SC-5, 25 FEB 2021 to 22 APR 2021

ATIS
135.575 269.9
GND CON
121.6 275.8
ELLINGTON TOWER
126.05 253.5
HOUSTON DEP CON
134.45 284.0

TAKEOFF MINIMUMS
Rwy 4, 17L/R, 22, 35L/R: Standard with minimum climb of 500′ per NM to 540.

TOP ALTITUDE: ASSIGNED BY ATC



NOTE: DME/DME/IRU or GPS required.
NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: GUSTI and LCH TRANSITIONS ATC assigned only for aircraft departing AXH, EFD, GLS, HPY, IWS, LBX, LVJ, SGR, TME, T00, T41 and 54T.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 4: Climb on heading 039° to 540 for RADAR vectors to MMALT, thence. . . .
TAKEOFF RWYS 17L/R: Climb on heading 174° to 540 for RADAR vectors to MMALT, thence. . . .
TAKEOFF RWY 22: Climb on heading 219° to 540 for RADAR vectors to MMALT, thence. . . .
TAKEOFF RWYS 35L/R: Climb on heading 354° to 540 for RADAR vectors to MMALT, thence. . . .

. . . .on track 086° to MOOKI, then on (transition). Maintain ATC assigned altitude.
Expect filed altitude 10 minutes after departure.

GUSTI TRANSITION (MMALT5.GUSTI)
LAKE CHARLES TRANSITION (MMALT5.LCH)
WHITE LAKE TRANSITION (MMALT5.LLA)

(PSX1.PSX) 20254
PALACIOS ONE DEPARTURE
AL-197 (FAA)
ELLINGTON (EFD)
HOUSTON, TEXAS

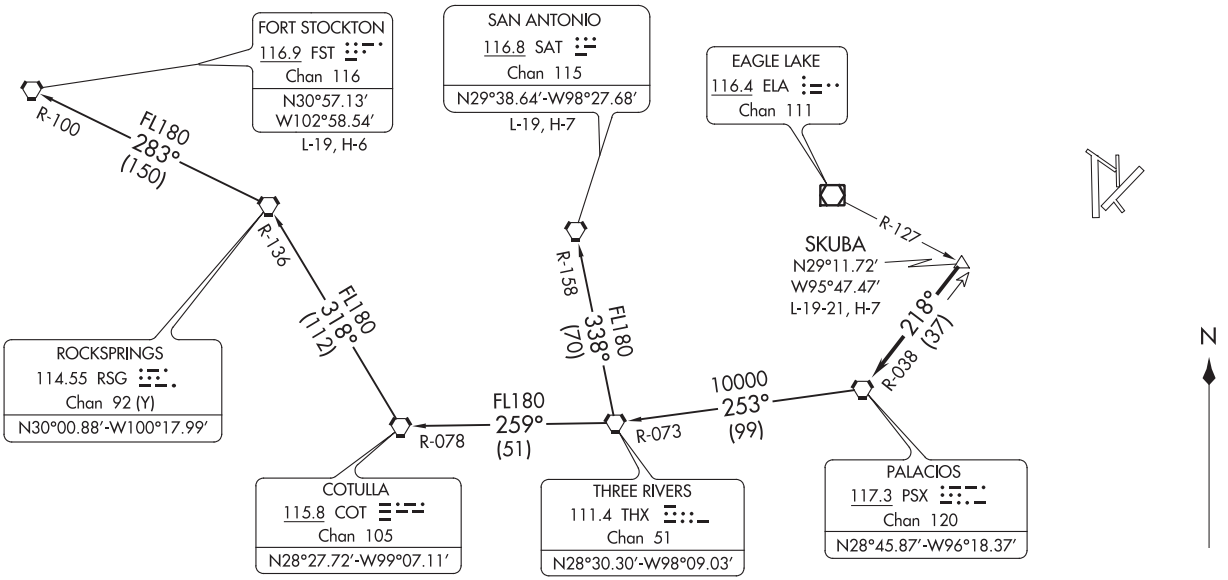
TOP ALTITUDE: ASSIGNED BY ATC

ATIS
135.575 269.9
GND CON
121.6 275.8
ELLINGTON TOWER
126.05 253.5
HOUSTON DEP CON
134.45 284.0

TAKEOFF MINIMUMS

Rwys 4, 17L/R, 35L/R: Standard.

Rwy 22: 200-1¼ or standard with minimum climb of 214′ per NM to 300 or alternatively with standard takeoff minimums and a normal 200′ per NM climb gradient, takeoff must occur no later than 1400′ prior to DER.



NOTE: RADAR required.

NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

(PSX1.PSX) 19171

PALACIOS ONE DEPARTURE

AL-197 (FAA)

ELLINGTON (EFD)
HOUSTON, TEXAS

DEPARTURE ROUTE DESCRIPTION

TAKEOFF ALL RUNWAYS: Climb on assigned heading for RADAR vectors to SKUBA INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .

. . . .on PSX R-038 to PSX VORTAC.

FORT STOCKTON TRANSITION (PSX1.FST): From over PSX VORTAC on PSX R-253 and THX R-073 to THX VORTAC, then on THX R-259 and COT R-078 to COT VORTAC, then on COT R-318 and RSG R-136 to RSG VORTAC, then on RSG R-283 and FST R-100 to FST VORTAC.

SAN ANTONIO TRANSITION (PSX1.SAT): From over PSX VORTAC on PSX R-253 and THX R-073 to THX VORTAC, then on SAT R-158 to SAT VORTAC.

SC-5, 25 FEB 2021 to 22 APR 2021

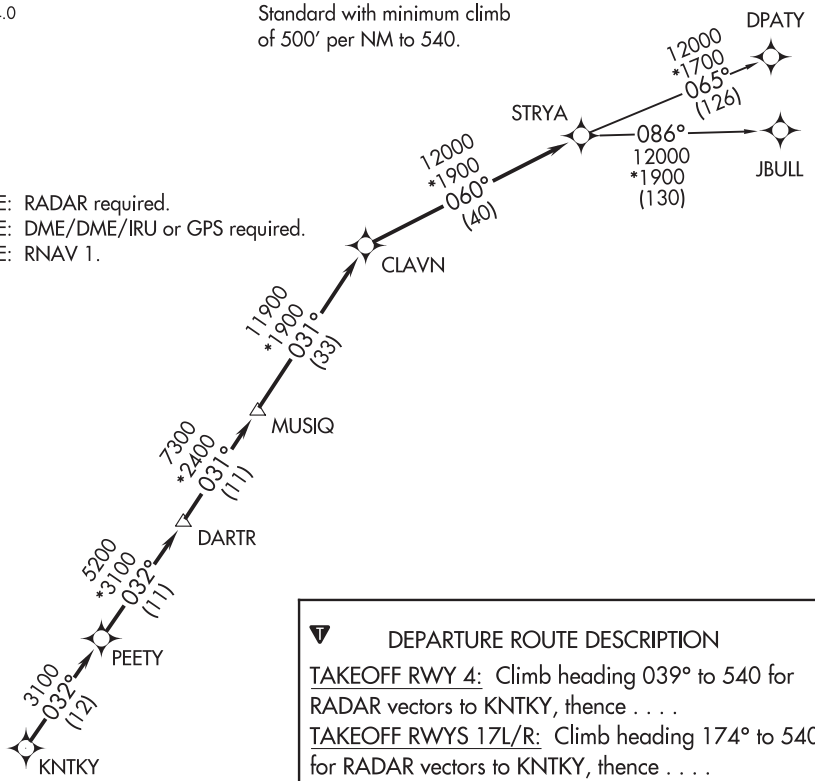
STRYA SEVEN DEPARTURE (RNAV)

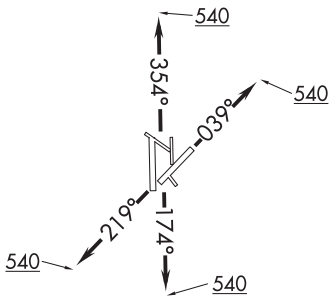
TOP ALTITUDE: ASSIGNED BY ATC

ATIS
135.575 269.9
GND CON
121.6 275.8
ELLINGTON TOWER
126.05 253.5
HOUSTON DEP CON
134.45 284.0

TAKEOFF MINIMUMS
Rwys 4, 17L/R, 22, 35L/R:
Standard with minimum climb of 500′ per NM to 540.

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





NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 4: Climb heading 039° to 540 for RADAR vectors to KNTKY, thence . . . .
TAKEOFF RWYS 17L/R: Climb heading 174° to 540 for RADAR vectors to KNTKY, thence . . . .
TAKEOFF RWY 22: Climb heading 219° to 540 for RADAR vectors to KNTKY, thence . . . .
TAKEOFF RWYS 35L/R: Climb heading 354° to 540 for RADAR vectors to KNTKY, thence . . . .

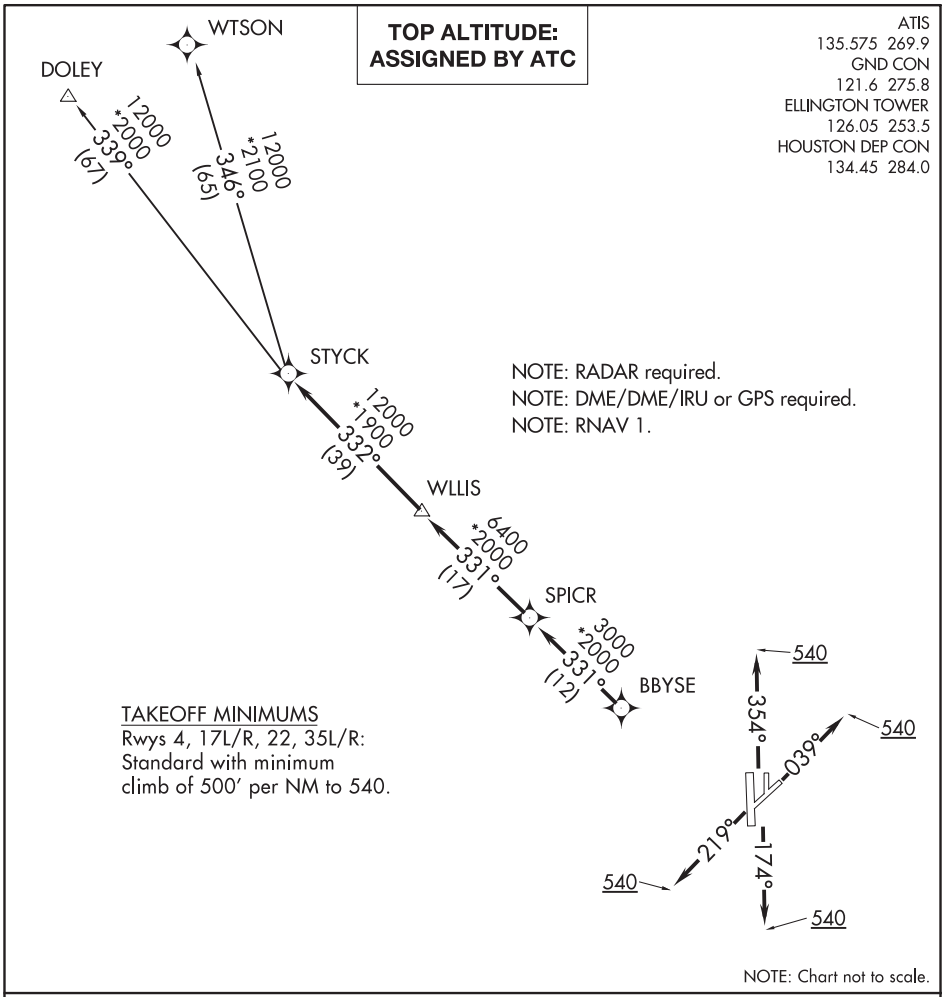
. . . . on track 032° to PEETY, then on track 032° to DARTR, then on track 031° to MUSIQ, then on track 031° to CLAVN, then on track 060° to STRYA, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

DPATY TRANSITION (STRYA7.DPATY)
JBULL TRANSITION (STRYA7.JBULL)

(STYCK7.STYCK) 19115 AL-197 (FAA)

STYCK SEVEN DEPARTURE (RNAV)

ELLINGTON (EFD)
HOUSTON, TEXAS



SC-5, 25 FEB 2021 to 22 APR 2021

SC-5, 25 FEB 2021 to 22 APR 2021

DEPARTURE ROUTE DESCRIPTION

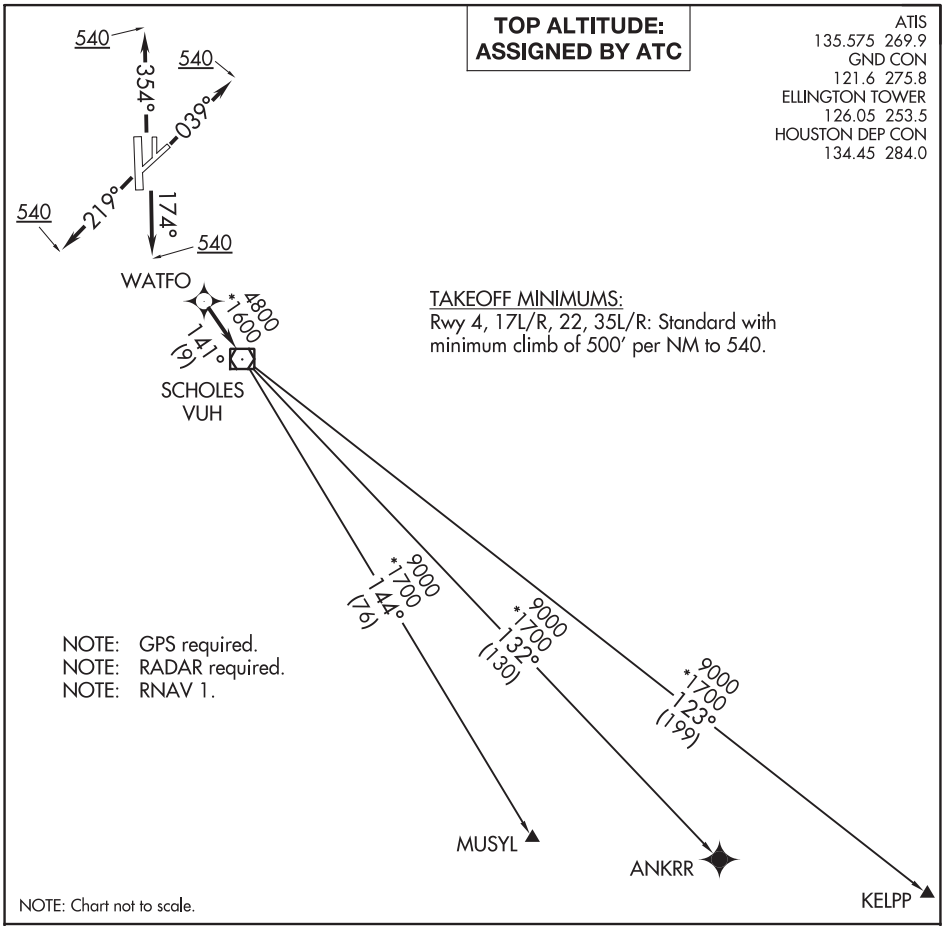
TAKEOFF RWY 4: Climb heading 039° to 540 for RADAR vectors to BBYSE, thence. . . .
TAKEOFF RWYS 17L/R: Climb heading 174° to 540 for RADAR vectors to BBYSE, thence. . . .
TAKEOFF RWY 22: Climb heading 219° to 540 for RADAR vectors to BBYSE, thence. . . .
TAKEOFF RWYS 35L/R: Climb heading 354° to 540 for RADAR vectors to BBYSE, thence. . . .

. . . .on track 331° to SPICR, then on track 331° to WLLIS, then on track 332° to STYCK, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

DOLEY TRANSITION (STYCK7.DOLEY)
WTSON TRANSITION (STYCK7.WTSON)

WATFO FIVE DEPARTURE (RNAV)

ELLINGTON (EFD)
HOUSTON, TEXAS



SC-5, 25 FEB 2021 to 22 APR 2021

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DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 4: Climb on heading 039° to 540, for RADAR vectors to WATFO, thence. . . .
TAKEOFF RWYS 17L/R: Climb on heading 174° to 540, for RADAR vectors to WATFO, thence. . . .
TAKEOFF RWY 22: Climb on heading 219° to 540, for RADAR vectors to WATFO, thence. . . .
TAKEOFF RWYS 35L/R: Climb on heading 354° to 540, for RADAR vectors to WATFO, thence. . . .

. . . .on track 141° to VUH VOR/DME, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

ANKRR TRANSITION (WATFO5.ANKRR)
KELPP TRANSITION (WATFO5.KELPP)
MUSYL TRANSITION (WATFO5.MUSYL)

(WYLSN7.WYLSN) 19115 AL-197 (FAA)

ELLINGTON (EFD)

WYLSN SEVEN DEPARTURE (RNAV)

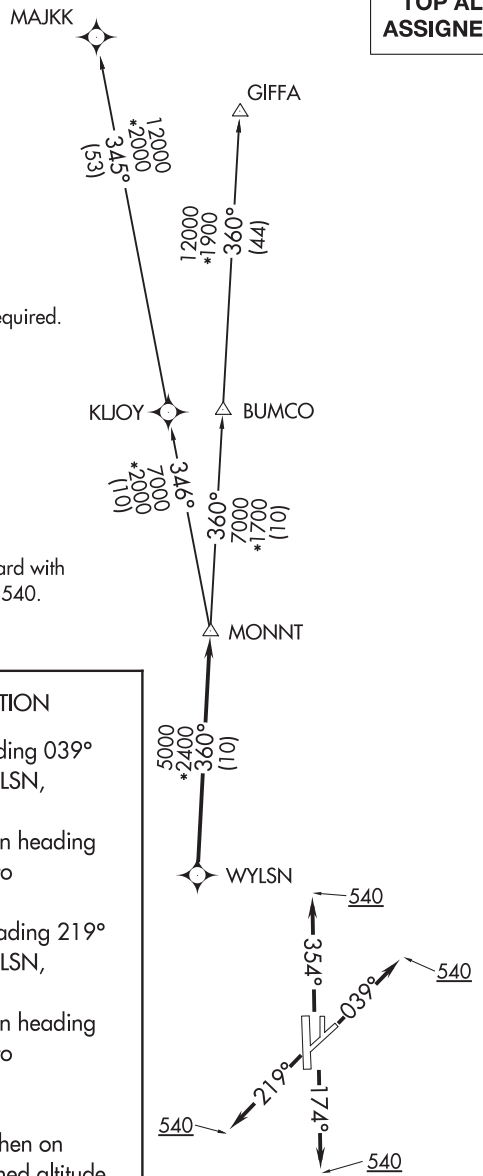
HOUSTON, TEXAS

ATIS
135.575 269.9
GND CON
121.6 275.8
ELLINGTON TOWER
126.05 253.5
HOUSTON DEP CON
134.45 284.0

TOP ALTITUDE: ASSIGNED BY ATC

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

TAKEOFF MINIMUMS
Rwys 4, 17L/R, 22, 35L/R: Standard with minimum climb of 500′ per NM to 540.



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 4: Climb on heading 039° to 540 for RADAR vectors to WYLSN, thence. . . .
TAKEOFF RWYS 17L/R: Climb on heading 174° to 540 for RADAR vectors to WYLSN, thence. . . .
TAKEOFF RWY 22: Climb on heading 219° to 540 for RADAR vectors to WYLSN, thence. . . .
TAKEOFF RWYS 35L/R: Climb on heading 354° to 540 for RADAR vectors to WYLSN, thence. . . .

. . . .on track 360° to MONNT, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

GIFFA TRANSITION (WYLSN7.GIFFA)
MAJKK TRANSITION (WYLSN7.MAJKK)

NOTE: Chart not to scale.

SC-5, 25 FEB 2021 to 22 APR 2021

WYLSN SEVEN DEPARTURE (RNAV)
HOUSTON, TEXAS
(WYLSN7.WYLSN) 25APR19
ELLINGTON (EFD)

ILS or LOC RWY 8L

GEORGE BUSH INTERCONTINENTAL/HOUSTON (IAH)

LOC/DME I-BZU	APP CRS	Rwy ldg	9000
111.55	087°	TDZE	94
Chan 52 (Y)		Apt Elev	96

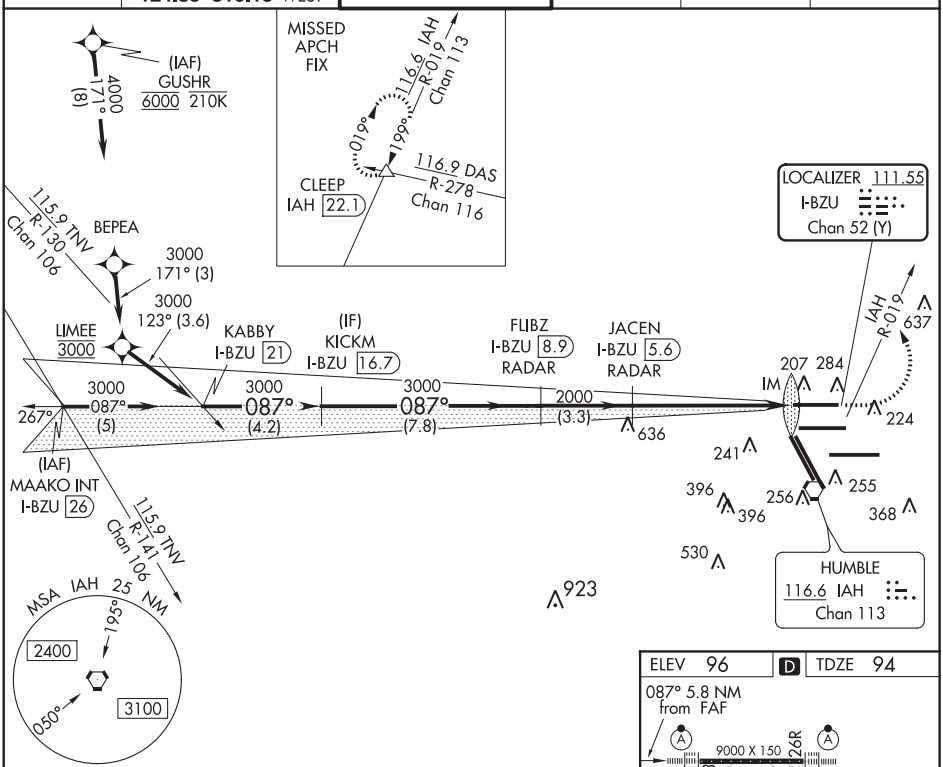
DME required. From GUSHR: RNAV 1-GPS required.

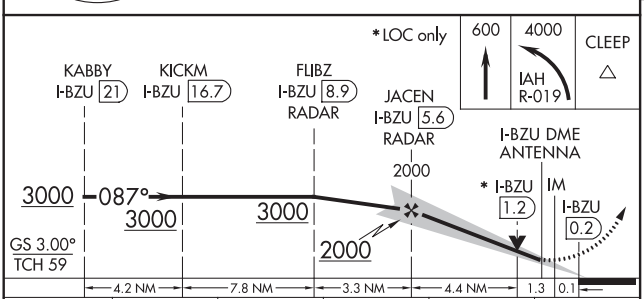
Simultaneous approach authorized with Rwy 8R and Rwy 9.

ALSF-2

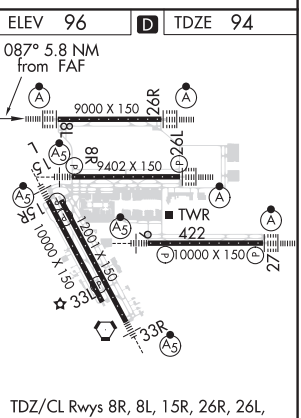
MISSED APPROACH: Climb to 600 then climbing left turn to 4000 on IAH VORTAC R-019 to CLEEP INT/IAH 22.1 DME and hold.

ATIS	HOUSTON APP CON	HOUSTON TOWER	GND CON	CLNC DEL	CPDLC
124.05	120.05 379.1 EAST 124.35 316.15 WEST	120.725 290.2	118.575	128.1	





CATEGORY	A	B	C	D	E
S-ILS 8L	294/18 200 (200-½)				
S-LOC 8L	600/24 506 (600-½)		600/55 506 (600-1)		



TDZ/CL Rwys 8R, 8L, 15R, 26R, 26L, 27 and 33L
HIRL all Rwys

FAF to MAP 5.8 NM					
Knots	60	90	120	150	180
Min:Sec	5:48	3:52	2:54	2:19	1:56

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HOUSTON, TEXAS

AL-5461 (FAA)

20142

ILS or LOC RWY 8R

GEORGE BUSH INTERCONTINENTAL/HOUSTON (IAH)

LOC/DME I-IAH	APP CRS	Rwy ldg	9402
109.7	087°	TDZE	95
Chan 34		Apt Elev	96

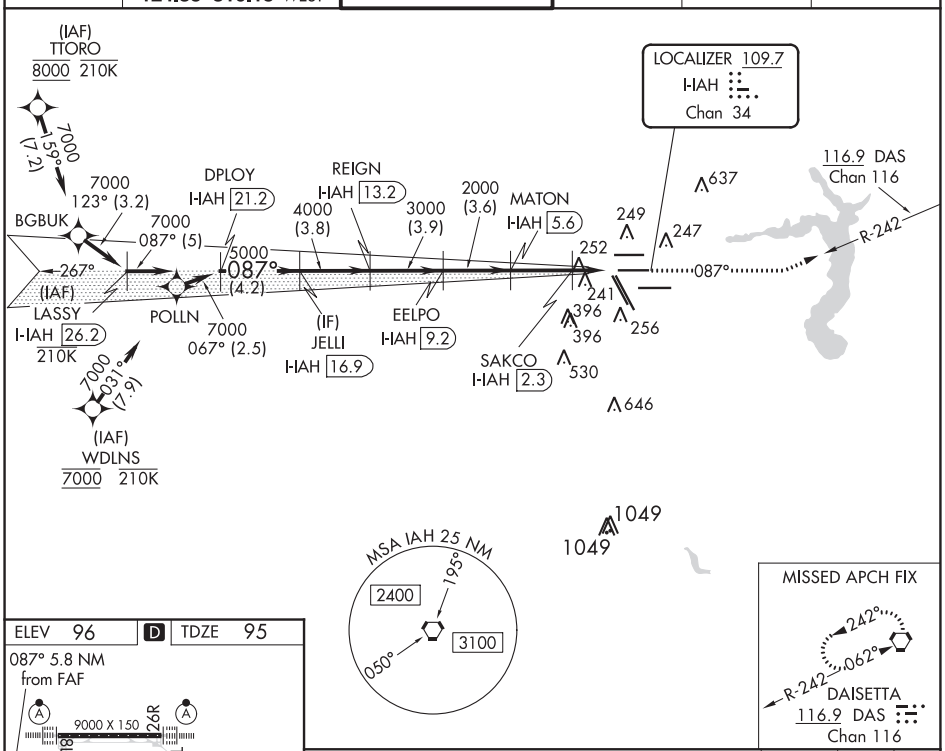
RNAV 1-GPS or RADAR required for procedure entry, DME.

Simultaneous approach authorized. For inop ALS, increase S-LOC 8R Cat C/D/E visibility to 1⅜ SM. For inop ALS, increase S-ILS 8R Cat E visibility to RVR 4000.

MALSR

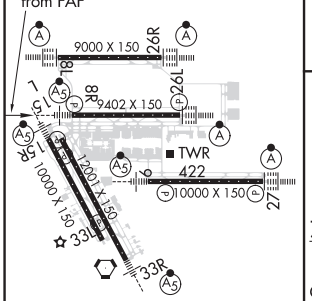
MISSED APPROACH: Climb to 3000 on heading 087° and on DAS VORTAC R-242 to DAS VORTAC and hold.

D-ATIS	HOUSTON APP CON	HOUSTON TOWER	GND CON	CLNC DEL	CPDLC
124.05	120.05 379.1 EAST 124.35 316.15 WEST	125.35 290.2	118.575	128.1	



ELEV 96 | D | TDZE 95

087° 5.8 NM from FAF

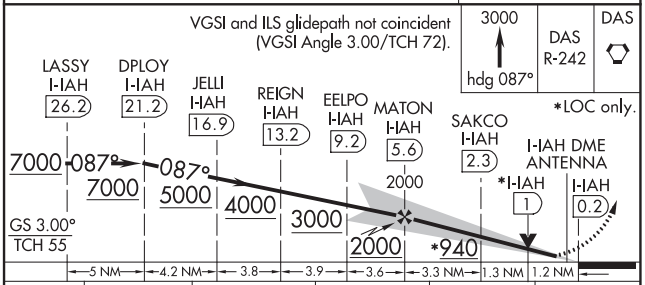


TDZ/CL Rwys 8R, 8L, 15R, 26R, 26L, 27 and 33L
HIRL all Rwys

VGSI and ILS glidepath not coincident (VGSI Angle 3.00/TCH 72).

3000	DAS	DAS
hdg 087°	R-242	

*LOC only.



CATEGORY	A	B	C	D	E
S-ILS 8R	295/18 200 (200-½)				
S-LOC 8R	560/24 465 (500-½)		560/50 465 (500-1)		

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ILS or LOC RWY 9
GEORGE BUSH INTERCONTINENTAL/HOUSTON (IAH)

LOC/DME I-UYO	APP CRS	Rwy ldg 10000
110.9	087°	TDZE 90
Chan 46		Apt Elev 96

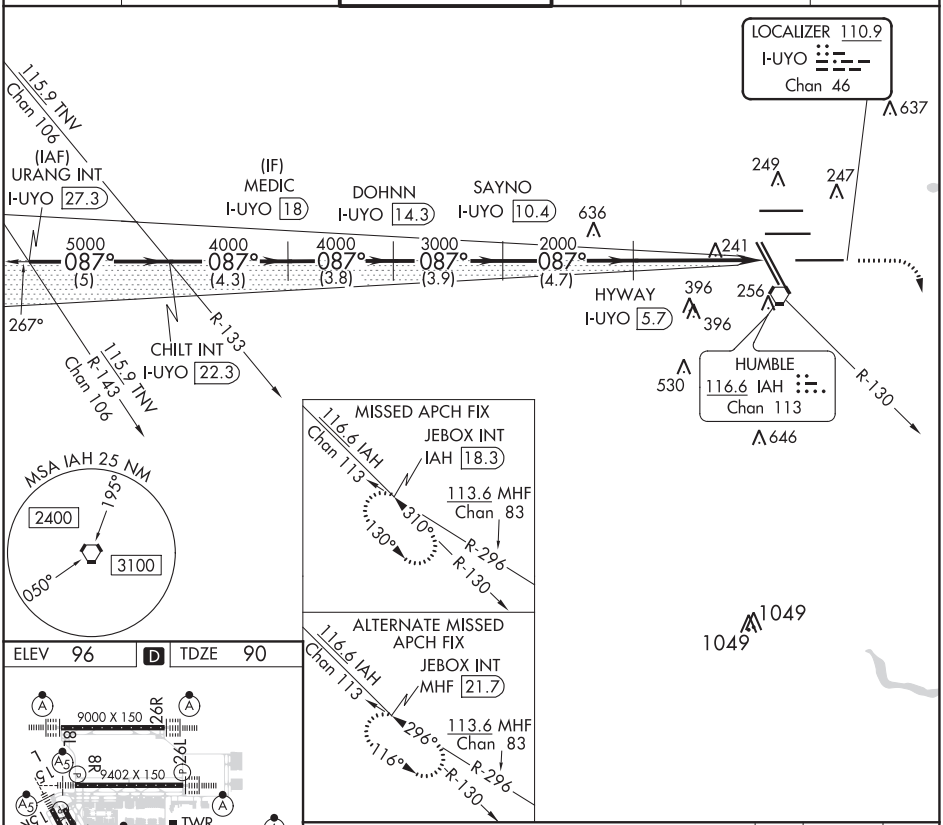
DME required. RADAR required for procedure entry.

Simultaneous approach authorized with Rwy 8L/R.
RVR 1800 authorized with the use of FD or AP or HUD to DA.

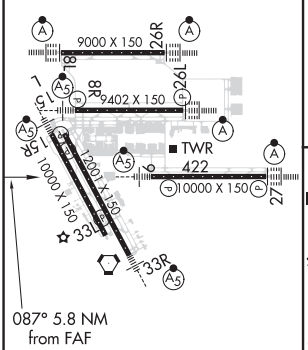
MALSR

MISSED APPROACH: Climb to 580 then climbing right turn to 3000 on IAH VORTAC R-130 to JEBOX/IAH 18.3 DME and hold.

D-ATIS	HOUSTON APP CON	HOUSTON TOWER	GND CON	CLNC DEL	CPDLC
124.05	120.05 379.1 EAST 124.35 316.15 WEST	135.15 290.2	118.575	128.1	

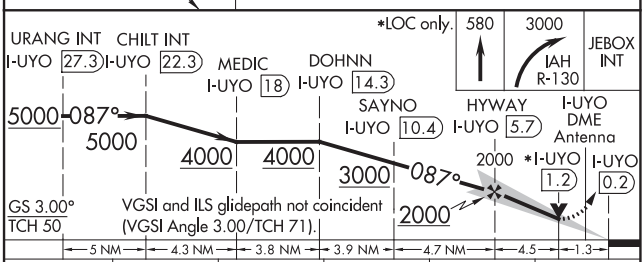


ELEV 96 | D | TDZE 90



087° 5.8 NM
from FAF

TDZ/CL Rwys 8R, 8L, 15R, 26R, 26L, 27 and 33L
HIRL all Rwys



CATEGORY	A	B	C	D	E
S-ILS 9 #	290/24 200 (200-½)				
S-LOC 9	580/24 490 (500-½)		580/50 490 (500-1)		

FAF to MAP 5.8 NM					
Knots	60	90	120	150	180
Min:Sec	5:48	3:52	2:54	2:19	1:56

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HOUSTON, TEXAS

AL-5461 (FAA)

20142

ILS or LOC RWY 15R

GEORGE BUSH INTERCONTINENTAL/HOUSTON (IAH)

LOC I-LKM	APP CRS	Rwy ldg	9999
111.15	149°	TDZE	95
		Apt Elev	96

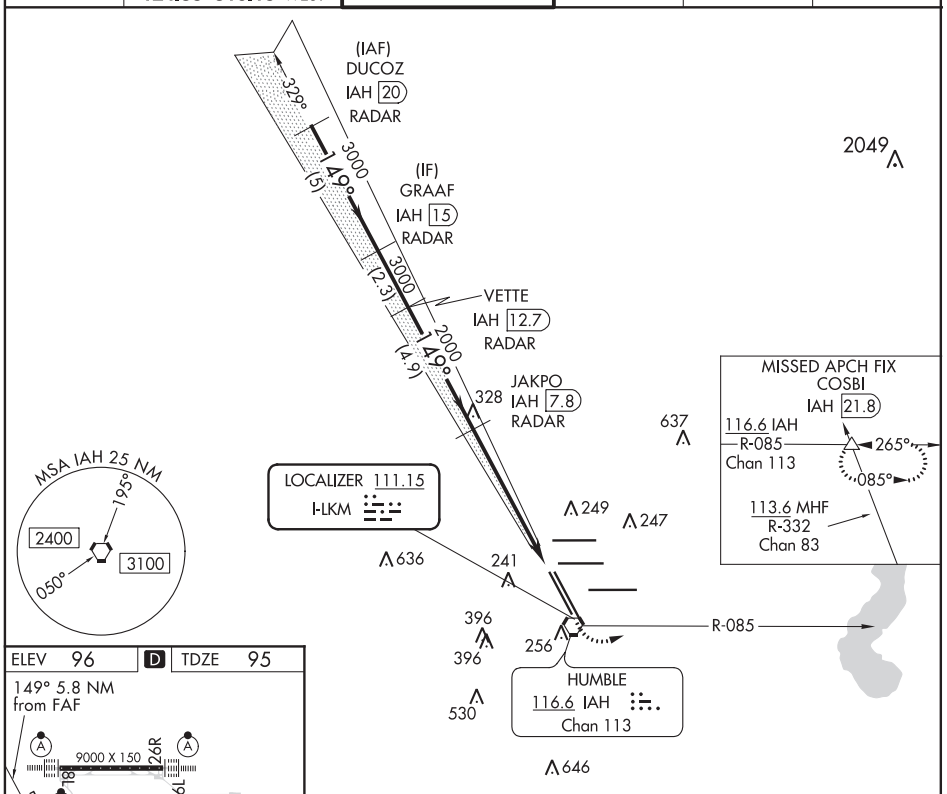
RADAR required for procedure entry. DME or RADAR required.

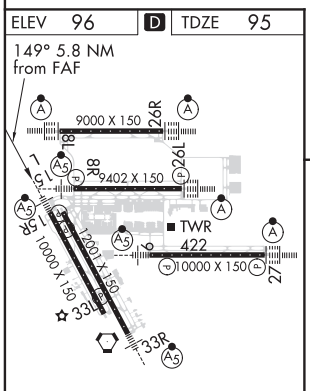
DME from IAH VORTAC. Simultaneous reception of I-LKM and IAH DME required. For inop ALS, increase S-ILS 15R Cat E visibility to RVR 4000, and S-LOC 15R Cat C/D/E visibility to 1⅜ SM.

MALSR

MISSED APPROACH: Climb to 1000 then climbing left turn to 2000 on IAH VORTAC R-085 to COSBI INT/IAH 21.8 DME and hold.

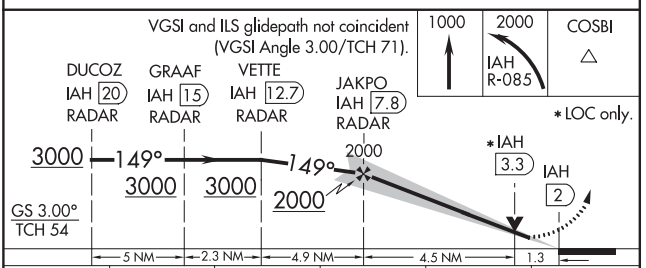
D-ATIS	HOUSTON APP CON	HOUSTON TOWER	GND CON	CLNC DEL	CPDLC
124.05	120.05 379.1 EAST 124.35 316.15 WEST	127.3 288.25	121.7	128.1	





TDZ/CL Rwys 8R, 8L, 15R, 26R, 26L, 27 and 33L
HIRL all Rwys

FAF to MAP 5.8 NM					
Knots	60	90	120	150	180
Min:Sec	5:48	3:52	2:54	2:19	1:56



CATEGORY	A	B	C	D	E
S-ILS 15R	295/18 200 (200-½)				
S-LOC 15R	580/24 485 (500-½)		580/50 485 (500-1)		

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ILS or LOC RWY 26L
GEORGE BUSH INTERCONTINENTAL/HOUSTON (IAH)

LOC/DME I-JYV	APP CRS	Rwy ldg	9402
109.7	267°	TDZE	95
Chan 34		Apt Elev	96

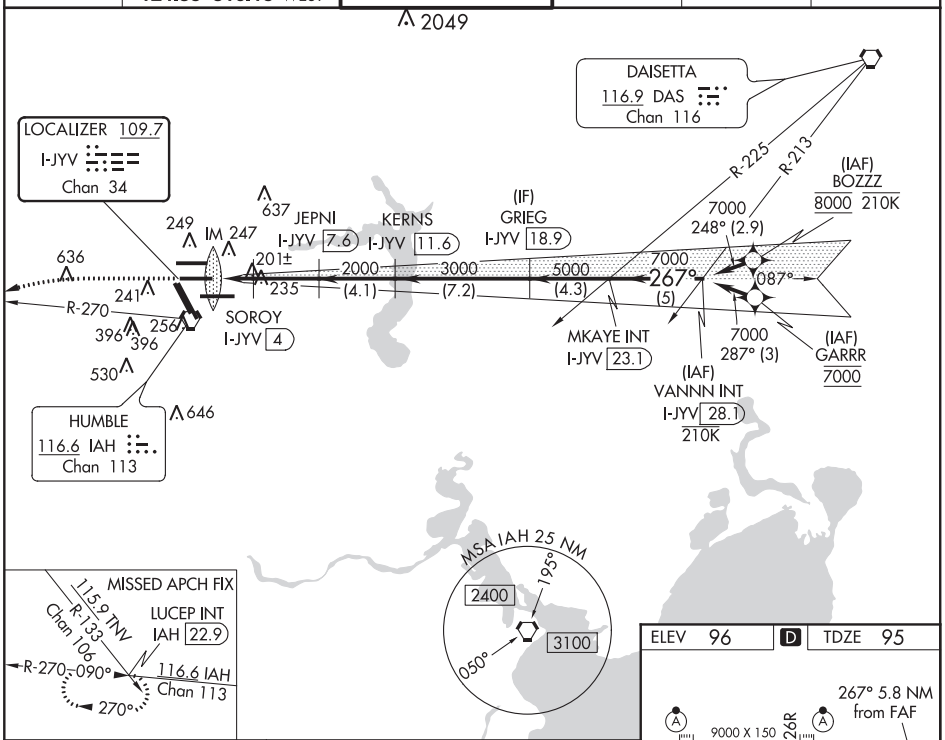
DME required. From BOZZZ, GARRR: RNAV 1-GPS required.

Simultaneous approach authorized with Rwy 26R and Rwy 27. For inop ALS, increase S-ILS 26L Cat E visibility to RVR 4000, S-LOC 26L Cat C/D/E visibility to RVR 5000.

ALSF-2

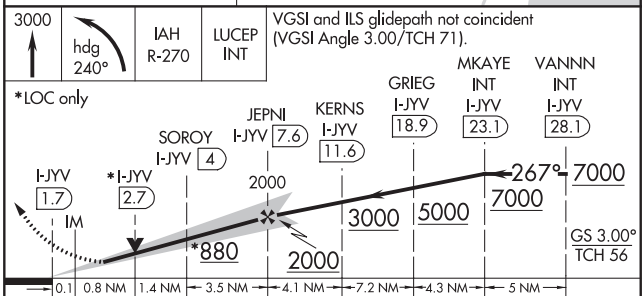
MISSED APPROACH: Climb to 3000 then left turn heading 240° and IAH VORTAC R-270 to LUCEP INT/IAH 22.9 DME and hold.

D-ATIS	HOUSTON APP CON	HOUSTON TOWER	GND CON	CLNC DEL	CPDLC
124.05	120.05 379.1 EAST 124.35 316.15 WEST	125.35 290.2	118.575	128.1	



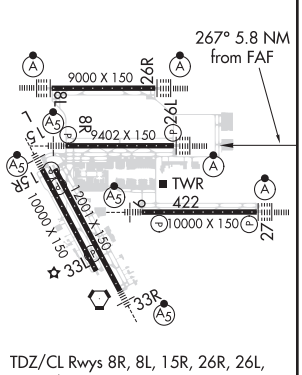
3000	hdg 240°	IAH R-270	LUCEP INT

VGSI and ILS glidepath not coincident (VGSI Angle 3.00/TCH 71).



CATEGORY	A	B	C	D	E
S-ILS 26L	295/18 200 (200-½)				
S-LOC 26L	460/24 365 (400-½)		460/35 365 (400-⅝)		

ELEV 96	D	TDZE 95



TDZ/CL Rwys 8R, 8L, 15R, 26R, 26L, 27 and 33L
HIRL all Rwys

FAF to MAP 5.8 NM					
Knots	60	90	120	150	180
Min:Sec	5:48	3:52	2:54	2:19	1:56

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HOUSTON, TEXAS

AL-5461 (FAA)

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ILS or LOC RWY 26R
GEORGE BUSH INTERCONTINENTAL/HOUSTON (IAH)

LOC/DME I-OND	APP CRS	Rwy ldg	9000
111.55	267°	TDZE	95
Chan 52 (Y)		Apt Elev	96

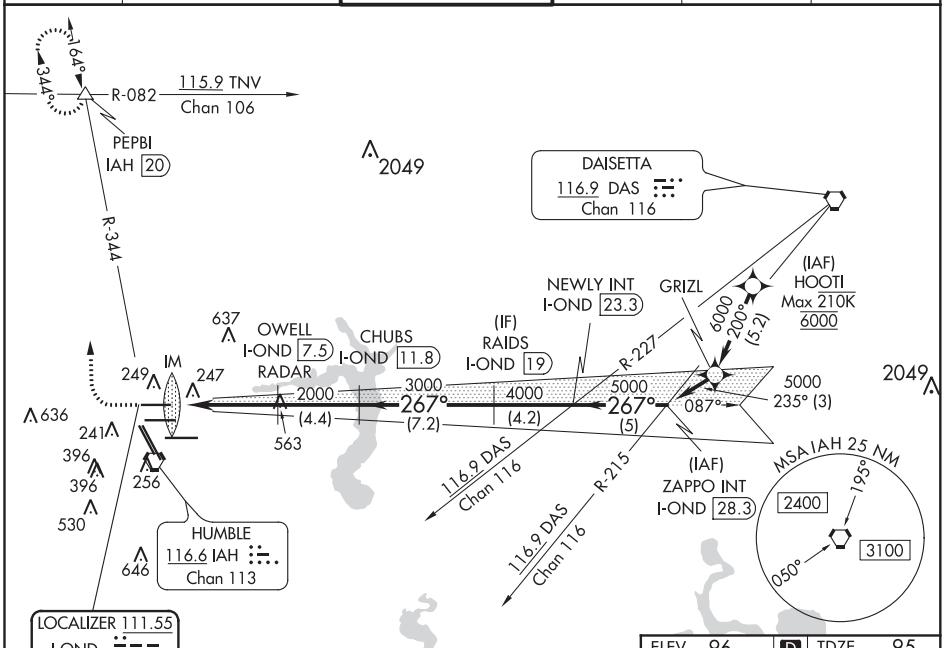
DME required. From HOOTI: RNAV 1-GPS required.

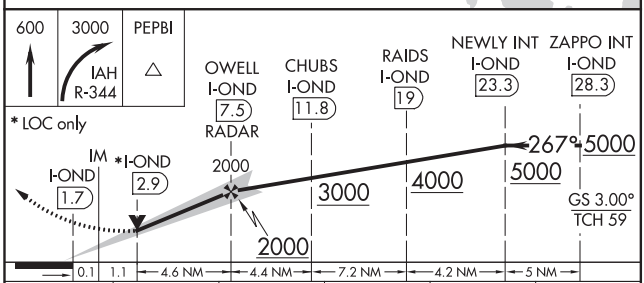
Simultaneous approach authorized with Rwy 26L and Rwy 27. For inop ALS, increase S-ILS 26R Cat E visibility to RVR 4000, and S-LOC 26R Cat C/D/E visibility to 1⅜ SM.

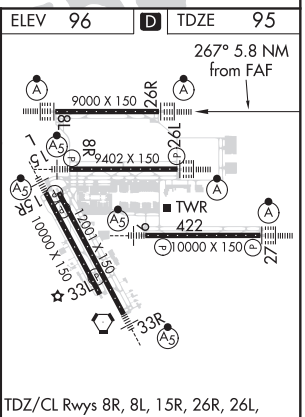
ALSF-2

MISSED APPROACH: Climb to 600 then climbing right turn to 3000 on IAH VORTAC R-344 to PEPBI INT/ IAH 20 DME and hold.

D-ATIS	HOUSTON APP CON	HOUSTON TOWER	GND CON	CLNC DEL	CPDLC
124.05	120.05 379.1 EAST 124.35 316.15 WEST	120.725 290.2	118.575	128.1	







TDZ/CL Rwys 8R, 8L, 15R, 26R, 26L, 27 and 33L
HIRL all Rwys

CATEGORY	A	B	C	D	E
S-ILS 26R	295/18 200 (200-½)				
S-LOC 26R	580/24 485 (500-½)		580/50 485 (500-1)		

FAF to MAP 5.8 NM					
Knots	60	90	120	150	180
Min:Sec	5:48	3:52	2:54	1:19	1:56

HOUSTON, TEXAS
Amdt 4B 25APR19

GEORGE BUSH INTERCONTINENTAL/HOUSTON (IAH)
29°59′N-95°20′W

ILS or LOC RWY 26R

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LOC/DME I-GHI 110.9 Chan 46	APP CRS 267°	Rwy ldg 10000 TDZE 86 Apt Elev 96

ILS or LOC RWY 27

GEORGE BUSH INTERCONTINENTAL/HOUSTON (IAH)

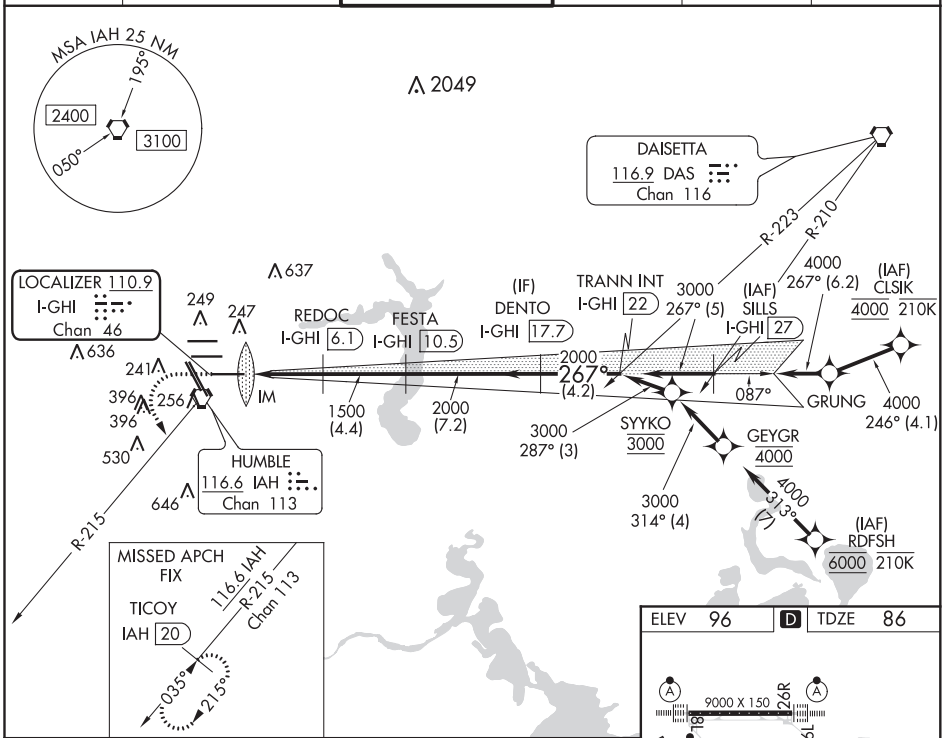
DME required for LOC only. From CLSIK, RDFSH: RNAV 1-GPS required. RNAV 1-GPS and RADAR required for procedure entry.

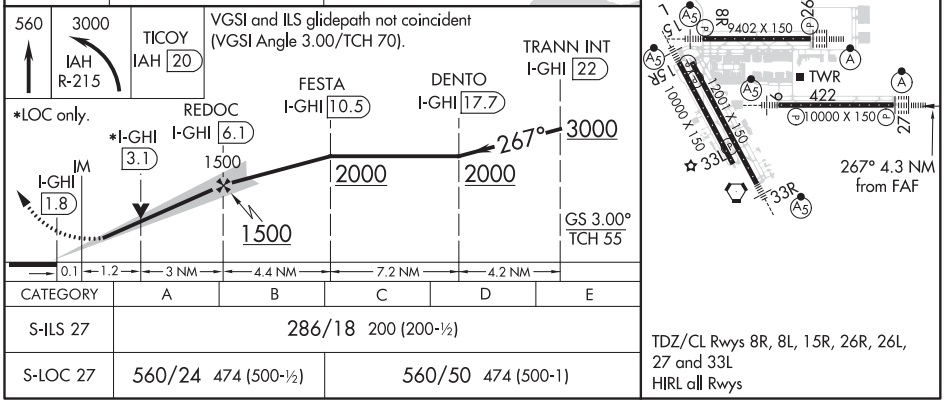
Simultaneous approach authorized. For inop ALS, increase S-ILS 27 Cat E visibility to RVR 4000 and S-LOC 27 Cat C-E visibility to 1⅜SM.

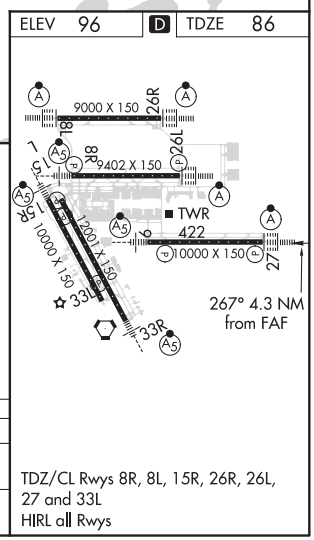
ALSF-2

MISSED APPROACH: Climb to 560 then climbing left turn to 3000 on IAH VORTAC R-215 to TICOY/IAH 20 DME and hold.

D-ATIS	HOUSTON APP CON	HOUSTON TOWER	GND CON	CLNC DEL	CPDLC
124.05	120.05 379.1 EAST 124.35 316.15 WEST	135.15 290.2	118.575	128.1	







CATEGORY	A	B	C	D	E
S-ILS 27	286/18 200 (200-½)				
S-LOC 27	560/24 474 (500-½)		560/50 474 (500-1)		

TDZ/CL Rwys 8R, 8L, 15R, 26R, 26L, 27 and 33L
HIRL all Rwys

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HOUSTON, TEXAS

AL-5461 (FAA)

20142

ILS or LOC RWY 33R

GEORGE BUSH INTERCONTINENTAL/HOUSTON (IAH)

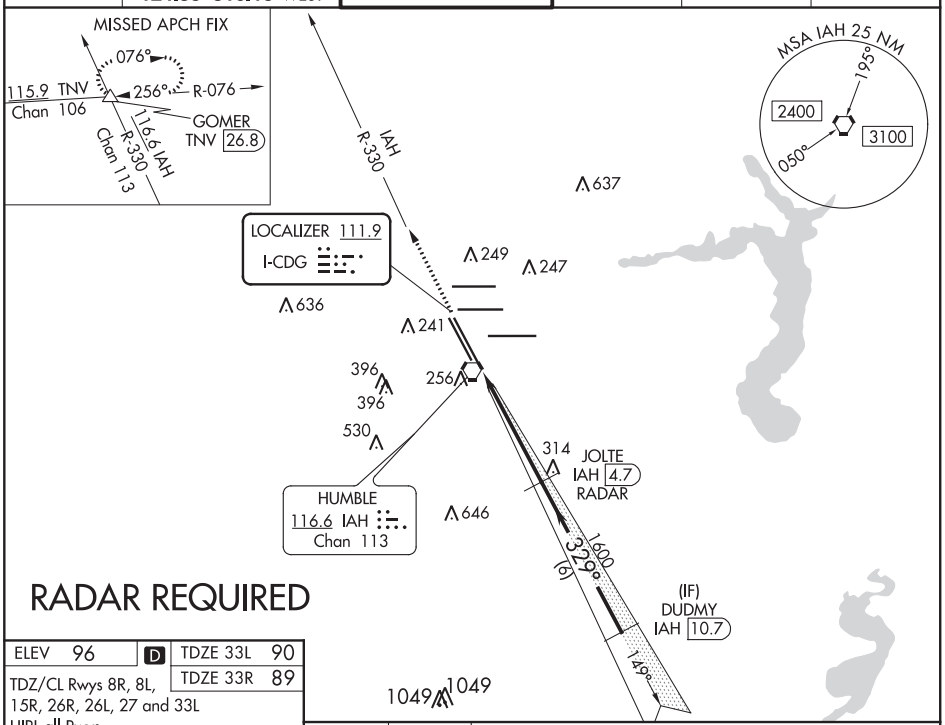
LOC I-CDG	APP CRS	Rwy 33R ldg	12001	Rwy 33L ldg	10000
111.9	329°	TDZE	89	TDZE	90
		Apt Elev	96	Apt Elev	96

DME from IAH VORTAC. Simultaneous reception of I-CDG and IAH DME Required. For inop MALSR, increase S-ILS 33R Cat E visibility to RVR 4000 and S-LOC 33R Cat E visibility to 1⅜. DME or RADAR Required. #RVR 1800 authorized with the use of FD or AP or HUD to DA.

MALSR

MISSED APPROACH: Climb to 2000 on IAH VORTAC R-330 to GOMER INT/TNV 26.8 DME and hold.

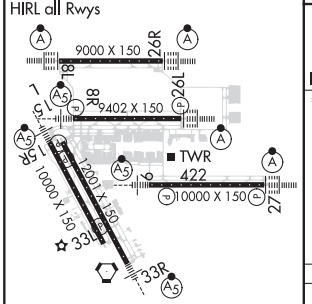
D-ATIS	HOUSTON APP CON	HOUSTON TOWER	GND CON	CLNC DEL	CPDLC
124.05	120.05 379.1 EAST 124.35 316.15 WEST	127.3 288.25	121.7	128.1	



RADAR REQUIRED

ELEV 96	D	TDZE 33L 90
		TDZE 33R 89

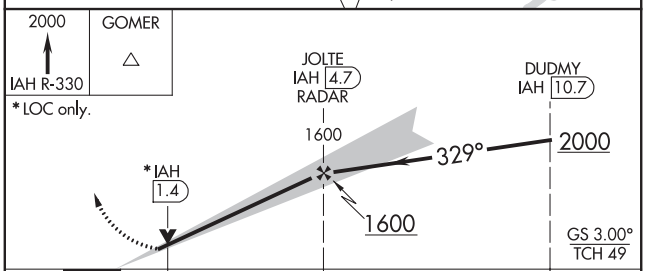
TDZ/CL Rwys 8R, 8L, 15R, 26R, 26L, 27 and 33L
HIRL all Rwys



329° 4.6 NM from FAF

FAF to MAP 4.6 NM

Knots	60	90	120	150	180
Min:Sec	4:36	3:04	2:18	1:50	1:32



CATEGORY	A	B	C	D	E
S-ILS 33R	# 289/24 200 (200-½)				
S-LOC 33R	540/24 451 (500-½)		540/45 451 (500-⅞)		
SIDESTEP Rwy 33L	540-1 450 (500-1)		540-1½ 450 (500-1½)	540-2 450 (500-2)	NA

HOUSTON, TEXAS
Amdt 13A 23JUN16

GEORGE BUSH INTERCONTINENTAL/HOUSTON (IAH)
29°59'N-95°20'W

ILS or LOC RWY 33R

SC-5, 25 FEB 2021 to 22 APR 2021

SC-5, 25 FEB 2021 to 22 APR 2021

ILS RWY 8L (SA CAT I)
GEORGE BUSH INTERCONTINENTAL/HOUSTON (IAH)

LOC/DME I-BZU	APP CRS	Rwy ldg	9000
111.55	087°	TDZE	94
Chan 52 (Y)		Apt Elev	96

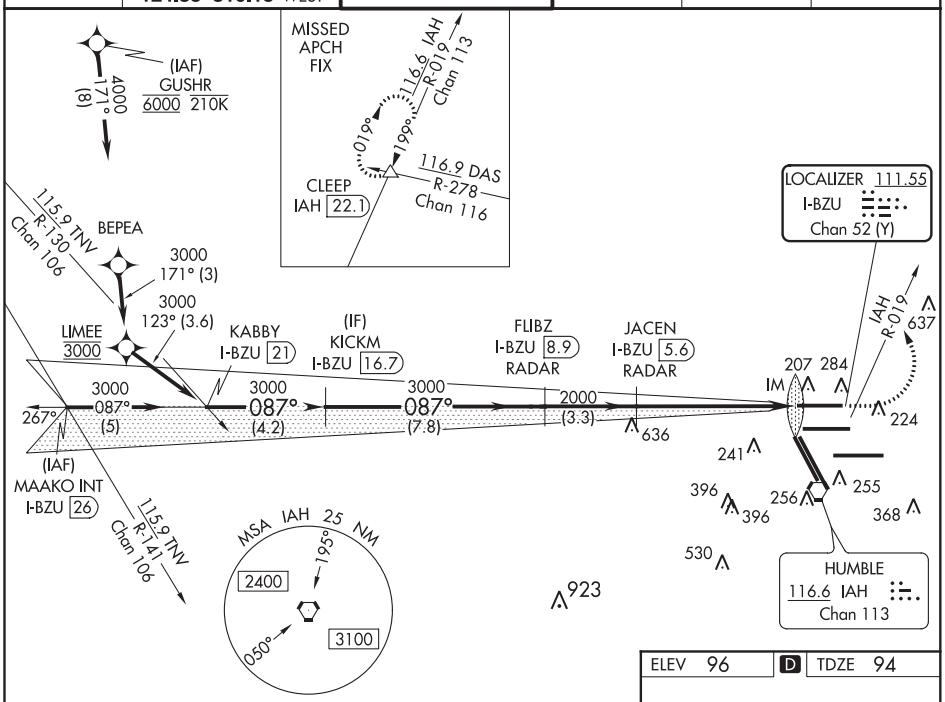
DME required. From GUSHR: RNAV 1-GPS required.

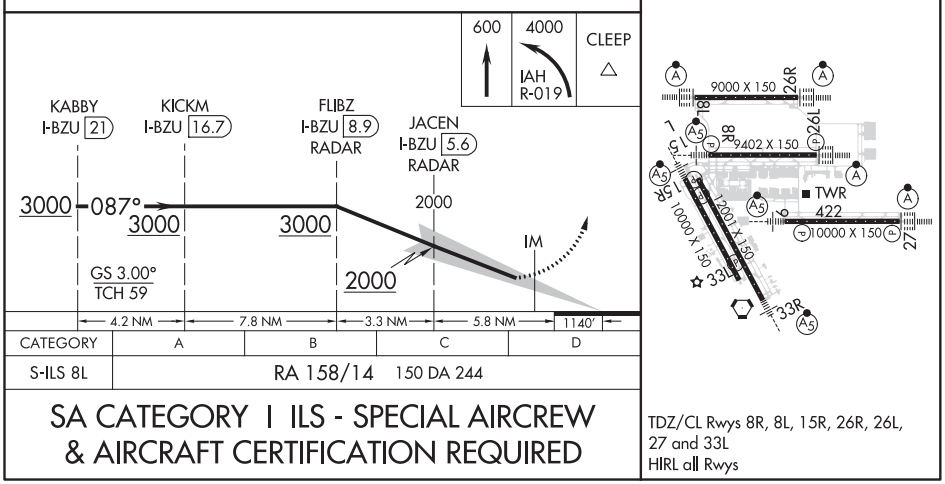
Simultaneous approach authorized with Rwy 8R and Rwy 9. Requires specific OPSPEC, MSPEC, or LOA approval and use of HUD to DH.

ALSF-2

MISSED APPROACH: Climb to 600 then climbing left turn to 4000 on IAH VORTAC R-019 to CLEEP INT/IAH 22.1 DME and hold.

ATIS	HOUSTON APP CON	HOUSTON TOWER	GND CON	CLNC DEL	CPDLC
124.05	120.05 379.1 EAST 124.35 316.15 WEST	120.725 290.2	118.575	128.1	





CATEGORY	A	B	C	D
S-ILS 8L	RA 158/14 150 DA 244			

SA CATEGORY I ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

TDZ/CL Rwys 8R, 8L, 15R, 26R, 26L, 27 and 33L
HIRL all Rwys

SC-5, 25 FEB 2021 to 22 APR 2021

SC-5, 25 FEB 2021 to 22 APR 2021

HOUSTON, TEXAS | AL-5461 (FAA) | 20142

ILS RWY 26L (SA CAT I)

GEORGE BUSH INTERCONTINENTAL/HOUSTON (IAH)

LOC/DME I-JYV	APP CRS	Rwy ldg	9402
109.7	267°	TDZE	95
Chan 34		Apt Elev	96

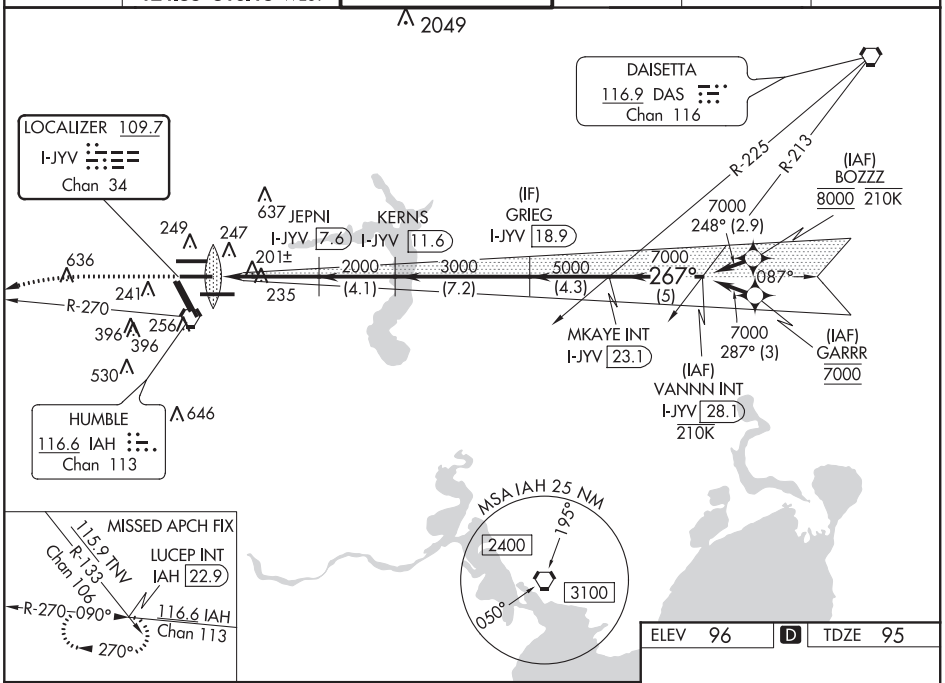
DME required. From BOZZZ, GARRR: RNAV 1-GPS required.

Simultaneous approach authorized with Rwy 26R and Rwy 27. Requires specific OPSPEC, MSPEC, or LOA approval and use of HUD to DH.

ALSF-2

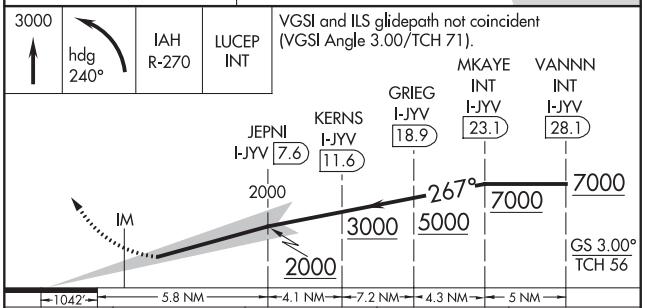
MISSED APPROACH: Climb to 3000 then left turn heading 240° and IAH VORTAC R-270 to LUCEP INT/IAH 22.9 DME and hold.

D-ATIS	HOUSTON APP CON	HOUSTON TOWER	GND CON	CLNC DEL	CPDLC
124.05	120.05 379.1 EAST 124.35 316.15 WEST	125.35 290.2	118.575	128.1	



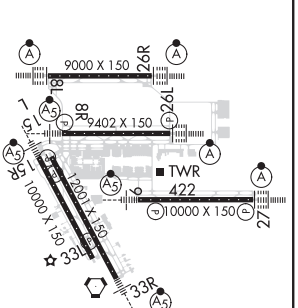
3000	hdg 240°	IAH R-270	LUCEP INT

VGSI and ILS glidepath not coincident (VGSI Angle 3.00/TCH 71).



CATEGORY	A	B	C	D
S-ILS 26L	RA 152/14 150 DA 245			

ELEV 96 | D | TDZE 95



TDZ/CL Rwys 8R, 8L, 15R, 26R, 26L, 27 and 33L
HIRL all Rwys

SA CATEGORY I ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

SC-5, 25 FEB 2021 to 22 APR 2021

SC-5, 25 FEB 2021 to 22 APR 2021

LOC/DME I-OND	APP CRS	Rwy ldg	9000
111.55	267°	TDZE	95
Chan 52 (Y)		Apt Elev	96

ILS RWY 26R (SA CAT I)
GEORGE BUSH INTERCONTINENTAL/HOUSTON (IAH)

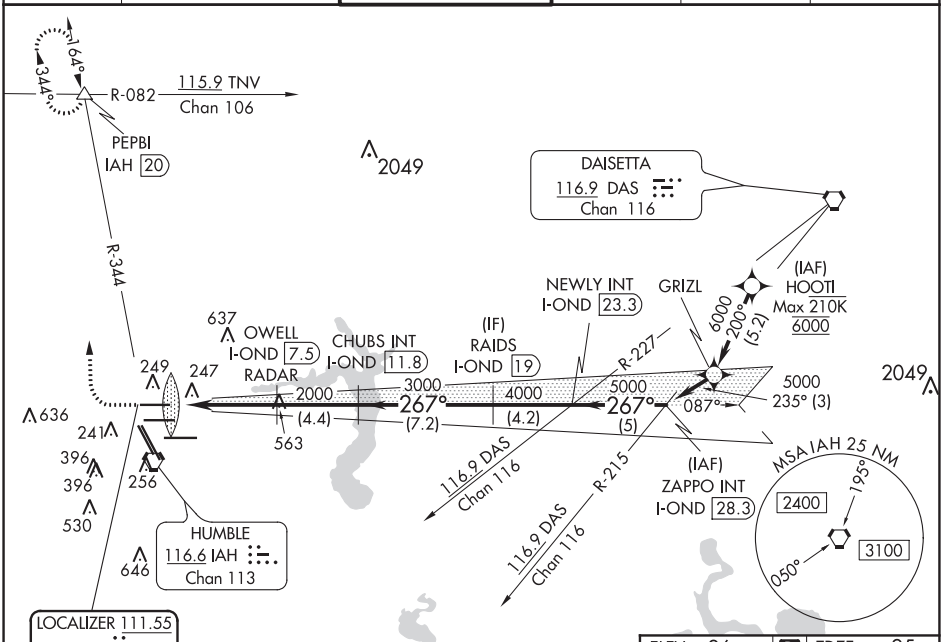
DME required. From HOOTI: RNAV 1-GPS required.

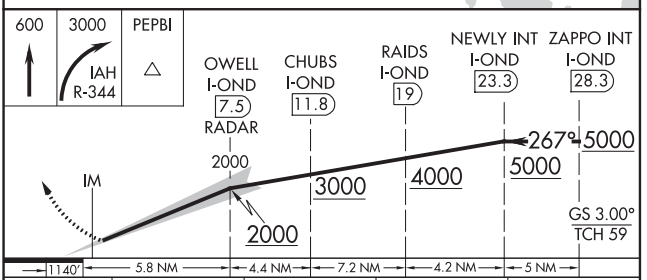
Simultaneous approach authorized with Rwy 26L and Rwy 27. Requires specific OPSPEC, MSPEC or LOA approval and use of HUD to DH.

ALSF-2

MISSED APPROACH: Climb to 600 then climbing right turn to 3000 on IAH VORTAC R-344 to PEPBI INT/ IAH 20 DME and hold.

D-ATIS	HOUSTON APP CON	HOUSTON TOWER	GND CON	CLNC DEL	CPDLC
124.05	120.05 379.1 EAST 124.35 316.15 WEST	120.725 290.2	118.575	128.1	

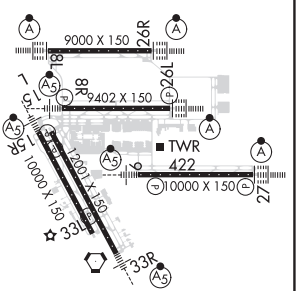




CATEGORY	A	B	C	D
S-ILS-26R	RA 157/14 150 DA 245			

SA CATEGORY I ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

ELEV 96 | D | TDZE 95



TDZ/CL Rwys 8R, 8L, 15R, 26R, 26L, 27 and 33L
HIRL all Rwys

SC-5, 25 FEB 2021 to 22 APR 2021

SC-5, 25 FEB 2021 to 22 APR 2021

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ILS RWY 27 (SA CAT I)
GEORGE BUSH INTERCONTINENTAL/HOUSTON (IAH)

LOC/DME I-GHI	APP CRS	Rwy ldg	10000
110.9	267°	TDZE	86
Chan 46		Apt Elev	96

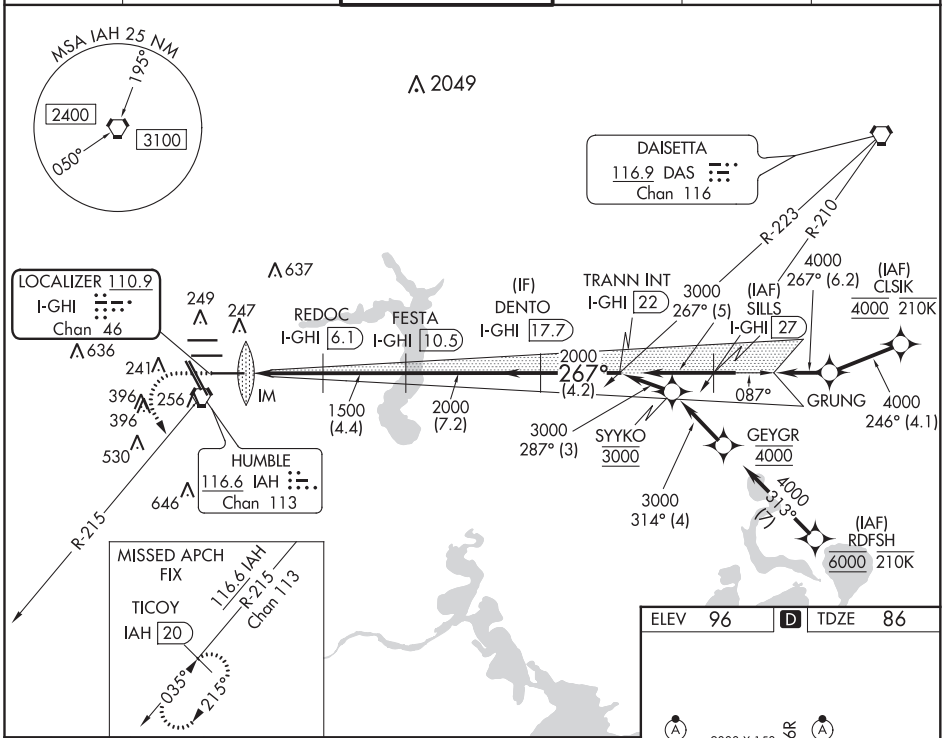
From CLSIK, RDFSH: RNAV 1-GPS required.
RNAV 1-GPS and RADAR required for procedure entry.

Simultaneous approach authorized. Requires specific OPSPEC, MSPEC, or LOA approval and use of HUD to DH.

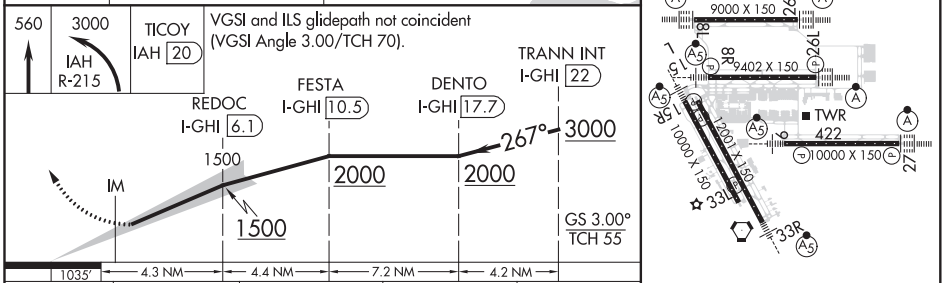
ALSF-2

MISSED APPROACH: Climb to 560 then climbing left turn to 3000 on IAH VORTAC R-215 to TICOY/IAH 20 DME and hold.

D-ATIS	HOUSTON APP CON	HOUSTON TOWER	GND CON	CLNC DEL	CPDLC
124.05	120.05 379.1 EAST 124.35 316.15 WEST	135.15 290.2	118.575	128.1	



ELEV	96	D	TDZE	86



CATEGORY	A	B	C	D
S-ILS 27	RA 104/14 150 DA 236			

SA CATEGORY I ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

TDZ/CL Rwys 8R, 8L, 15R, 26R, 26L, 27 and 33L
HIRL all Rwys

SC-5, 25 FEB 2021 to 22 APR 2021

SC-5, 25 FEB 2021 to 22 APR 2021

ILS RWY 8R (SA CAT I & II)

GEORGE BUSH INTERCONTINENTAL/HOUSTON (IAH)

LOC/DME I-IAH	APP CRS	Rwy ldg	9402
109.7	087°	TDZE	95
Chan 34		Apt Elev	96

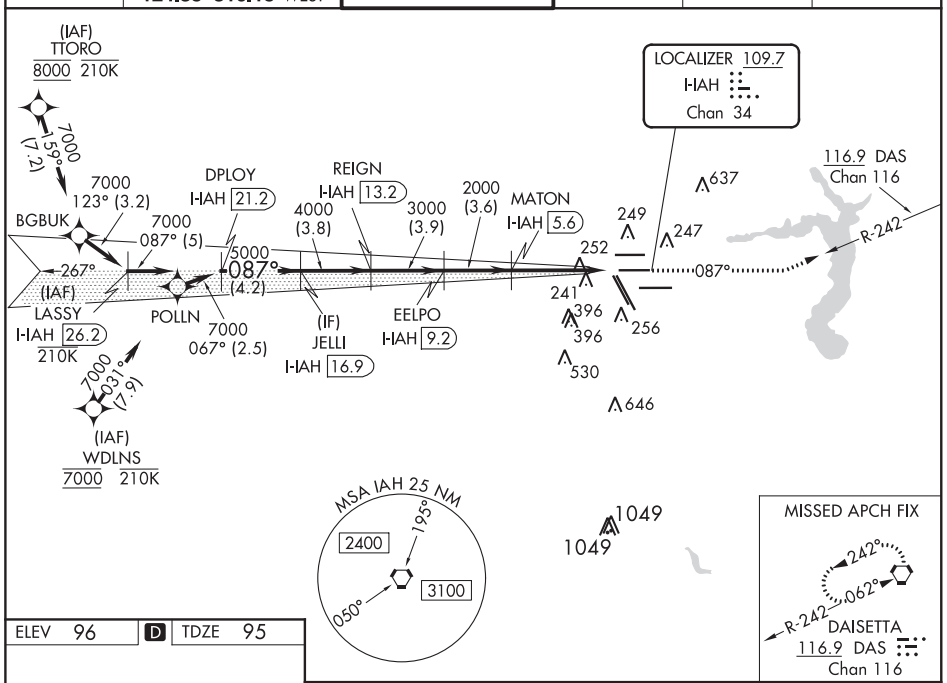
RNAV 1-GPS or RADAR required for procedure entry, DME.

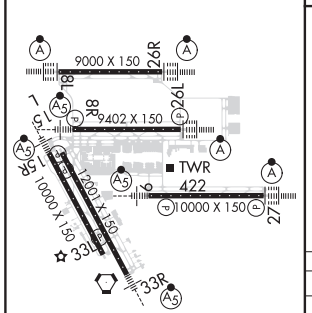
Simultaneous approach authorized. SA CAT I: Requires specific OPSPEC, MSPEC, or LOA approaval and use of HUD to DH. SA CAT II: Reduced lighting: requires specific OPSPEC, MSPEC, or LOA approval and use of autoland or HUD to touchdown.

MALSR

MISSED APPROACH: Climb to 3000 on heading 087° and on DAS VORTAC R-242 to DAS VORTAC and hold.

D-ATIS	HOUSTON APP CON	HOUSTON TOWER	GND CON	CLNC DEL	CPDLC
124.05	120.05 379.1 EAST 124.35 316.15 WEST	125.35 290.2	118.575	128.1	



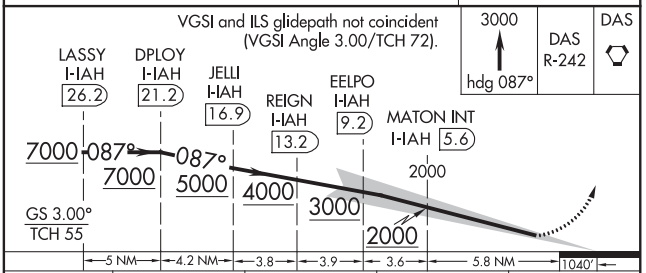


MISSED APCH FIX

ELEV 96 | D | TDZE 95

TDZ/CL Rwys 8R, 8L, 15R, 26R, 26L, 27 and 33L
HIRL all Rwys

VGSI and ILS glidepath not coincident (VGSI Angle 3.00/TCH 72).



CATEGORY	A	B	C	D
S-ILS 8R	SA CAT I RA 152/14	150 DA 245		
S-ILS 8R	SA CAT II RA 102/12	100 DA 195		

SA CATEGORY I and II ILS SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

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HOUSTON, TEXAS

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ILS RWY 9 (SA CAT I & II)

GEORGE BUSH INTERCONTINENTAL/HOUSTON (IAH)

LOC/DME I-UYO	APP CRS	Rwy ldg	10000
110.9	087°	TDZE	90
Chan 46		Apt Elev	96

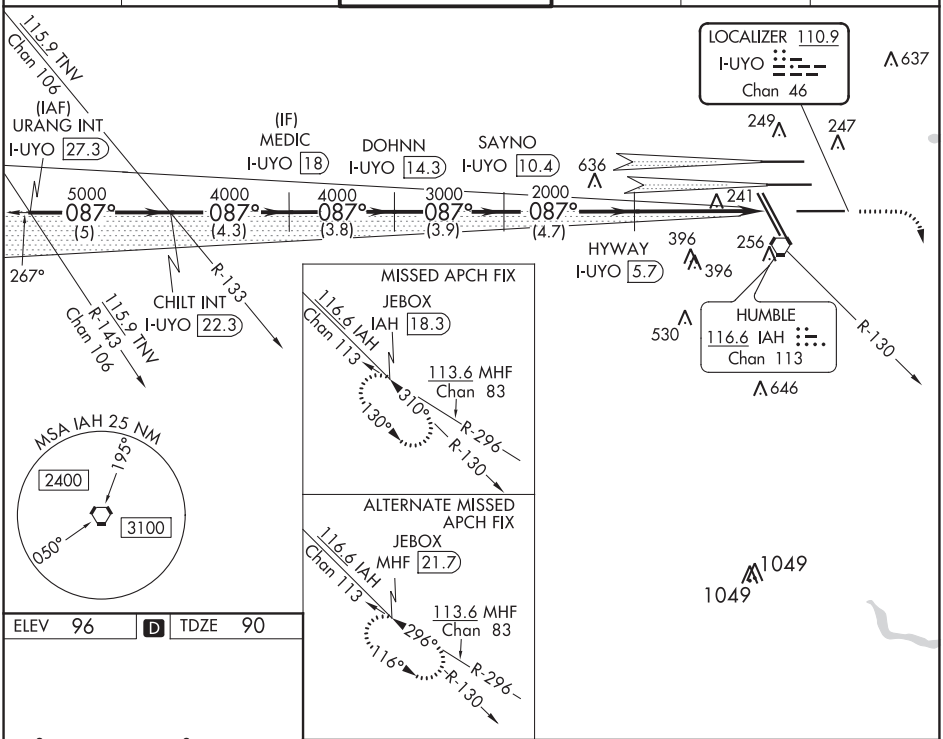
DME required. RADAR required for procedure entry.

Simultaneous approach authorized with Rwy 8L/R. SA CAT I: Requires specific OPSPEC, MSPEC, or LOA approval and use of AUTOLAND or HUD to touchdown. SA CAT II: Reduced lighting: requires specific OPSPEC, MSPEC, or LOA approval and use of AUTOLAND or HUD to touchdown.

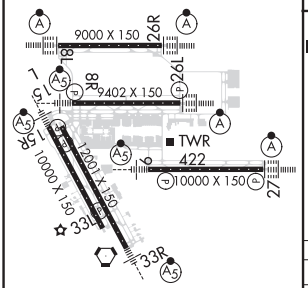
MALSR

MISSED APPROACH: Climb to 580 then climbing right turn to 3000 on IAH VORTAC R-130 to JEBOX/IAH 18.3 DME and hold.

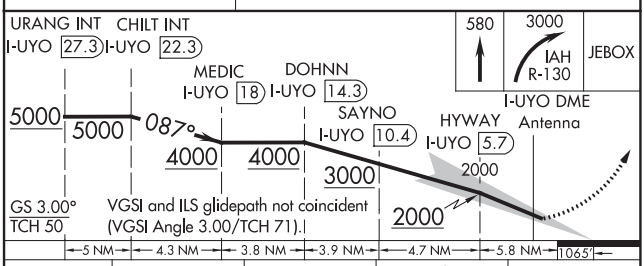
D-ATIS	HOUSTON APP CON	HOUSTON TOWER	GND CON	CLNC DEL	CPDLC
124.05	120.05 379.1 EAST 124.35 316.15 WEST	135.15 290.2	118.575	128.1	



ELEV 96 | D | TDZE 90



TDZ/CL Rwys 8R, 8L, 15R, 26R, 26L, 27 and 33L
HIRL all Rwys



CATEGORY	A	B	C	D
S-ILS 9	SA CAT I RA 148/14	150	DA 240	
S-ILS 9	SA CAT II RA 98/12	100	DA 190	

SA CATEGORY I and II ILS SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

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LOC/DME I-BZU	APP CRS	Rwy ldg	9000
111.55	087°	TDZE	94
Chan 52 (Y)		Apt Elev	96

ILS RWY 8L (CAT II & III)
GEORGE BUSH INTERCONTINENTAL/HOUSTON (IAH)

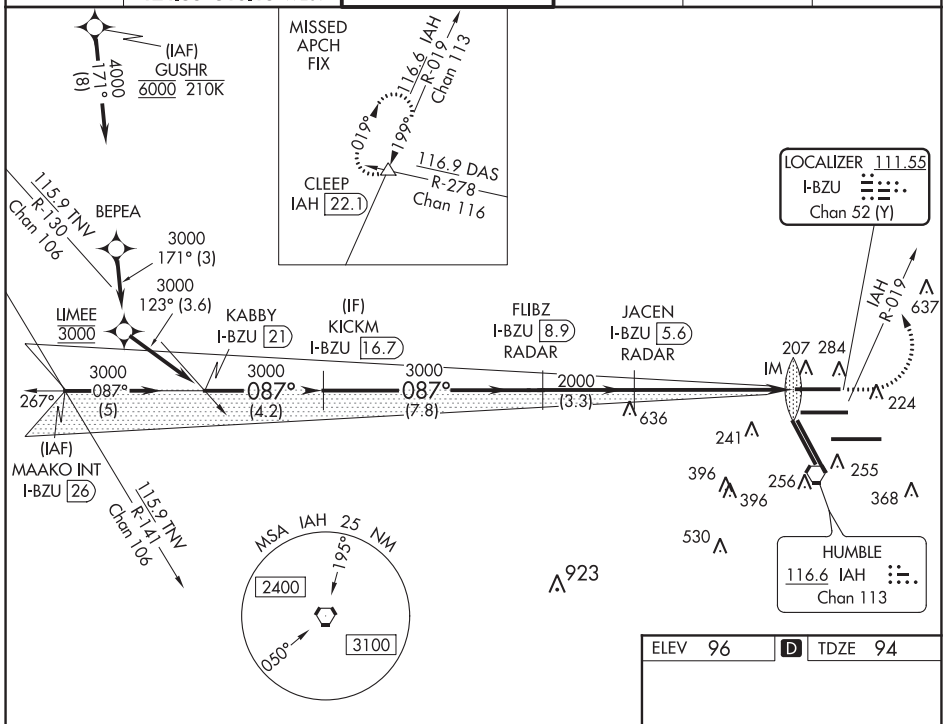
DME required. From GUSHR: RNAV 1-GPS required.

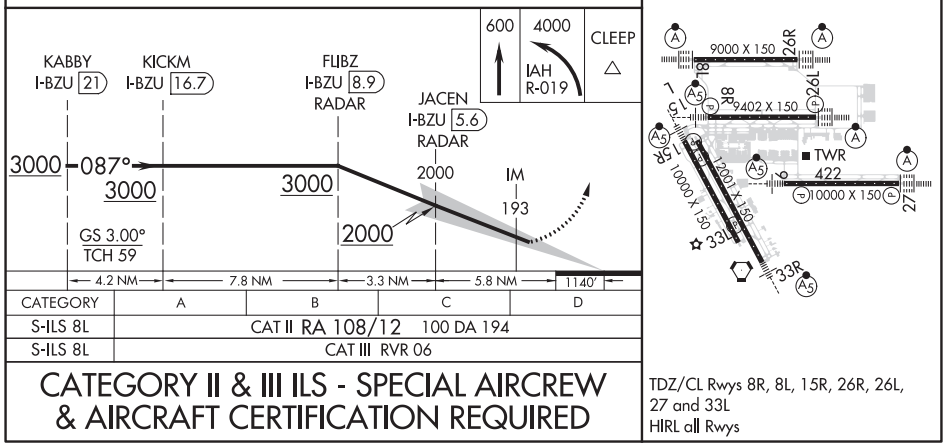
Simultaneous approach authorized with Rwy 8R and Rwy 9. CAT II: RVR 1000 authorized with specific OPSPEC, MSPEC, or LOA approval and use of autoland or HUD to touchdown.

ALSF-2

MISSED APPROACH: Climb to 600 then climbing left turn to 4000 on IAH VORTAC R-019 to CLEEP INT/IAH 22.1 DME and hold.

ATIS	HOUSTON APP CON	HOUSTON TOWER	GND CON	CLNC DEL	CPDLC
124.05	120.05 379.1 EAST 124.35 316.15 WEST	120.725 290.2	118.575	128.1	





CATEGORY	A	B	C	D
S-ILS 8L	CAT II RA 108/12 100 DA 194			
S-ILS 8L	CAT III RVR 06			

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

TDZ/CL Rwys 8R, 8L, 15R, 26R, 26L, 27 and 33L
HIRL all Rwys

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ILS RWY 26L (CAT II & III)
GEORGE BUSH INTERCONTINENTAL/HOUSTON (IAH)

LOC/DME I-JYV	APP CRS	Rwy ldg	9402
109.7	267°	TDZE	95
Chan 34		Apt Elev	96

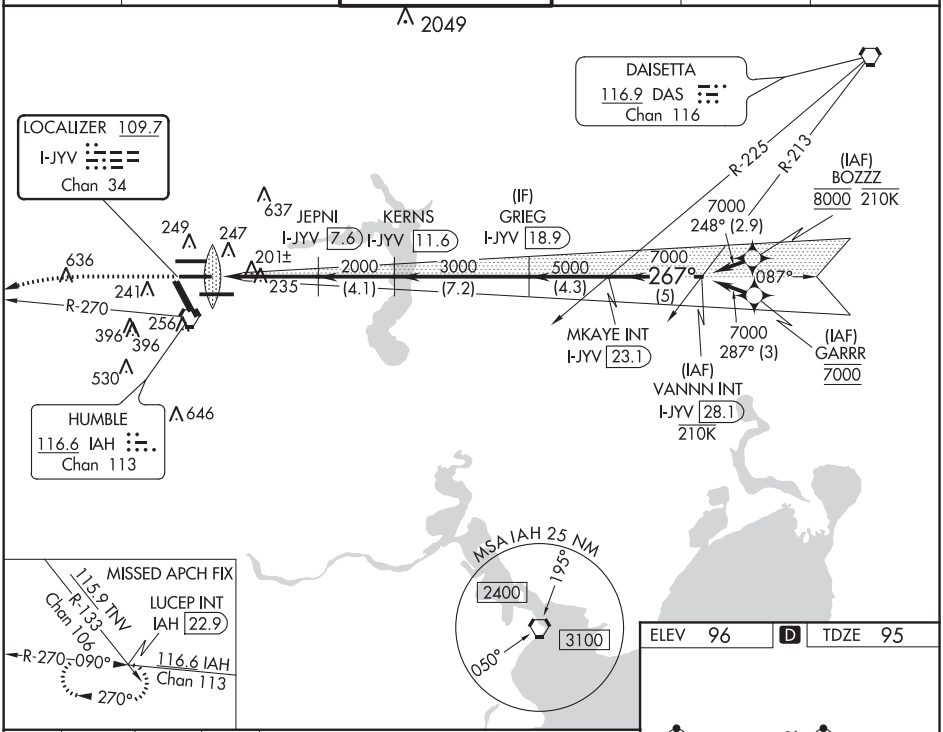
DME required. From BOZZZ, GARRR: RNAV 1-GPS required.

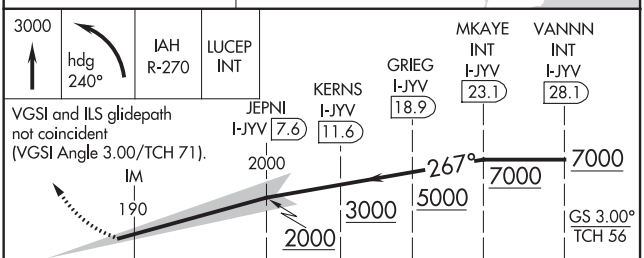
Simultaneous approach authorized with Rwy 26R and Rwy 27. Cat II: RVR 1000 authorized with specific OPSPEC, MSPEC, or LOA approval and use of autoland or HUD to touchdown.

ALSF-2

MISSED APPROACH: Climb to 3000 then left turn heading 240° and IAH VORTAC R-270 to LUCEP INT/IAH 22.9 DME and hold.

D-ATIS	HOUSTON APP CON	HOUSTON TOWER	GND CON	CLNC DEL	CPDLC
124.05	120.05 379.1 EAST 124.35 316.15 WEST	125.35 290.2	118.575	128.1	

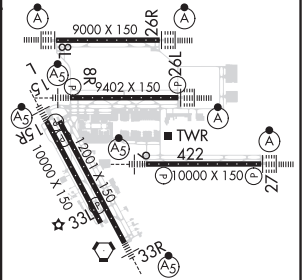




CATEGORY	A	B	C	D
S-ILS 26L	CAT II RA 100/12 100 DA 195			
S-ILS 26L	CAT III RVR 06			

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

ELEV 96 | D | TDZE 95



TDZ/CL Rwys 8R, 8L, 15R, 26R, 26L, 27 and 33L
HIRL all Rwys

SC-5, 25 FEB 2021 to 22 APR 2021
SC-5, 25 FEB 2021 to 22 APR 2021

LOC/DME I-OND	APP CRS	Rwy ldg	9000
111.55	267°	TDZE	95
Chan 52 (Y)		Apt Elev	96

ILS RWY 26R (CAT II & III)

GEORGE BUSH INTERCONTINENTAL/HOUSTON (IAH)

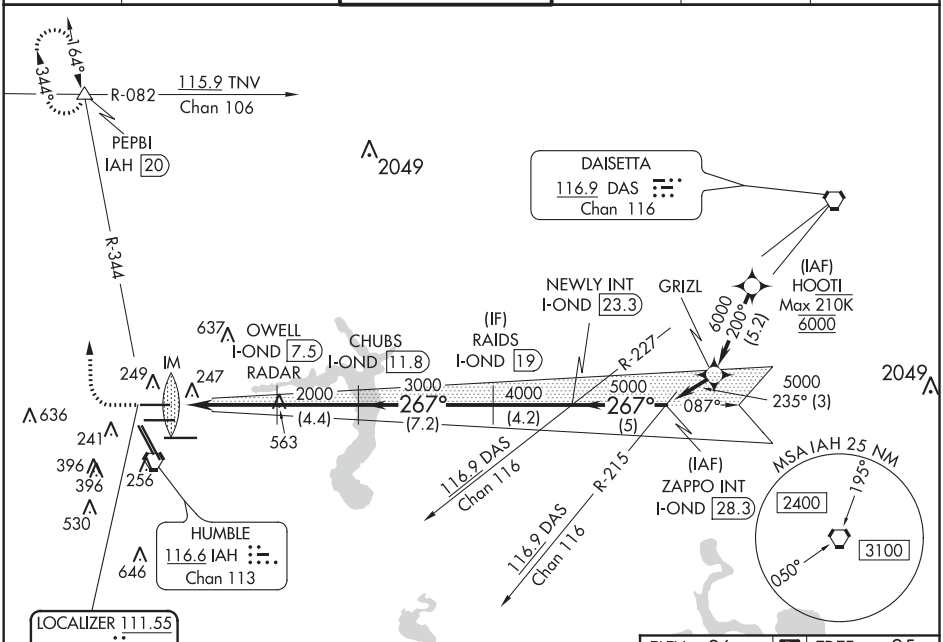
DME required. From HOOTI: RNAV 1-GPS required.

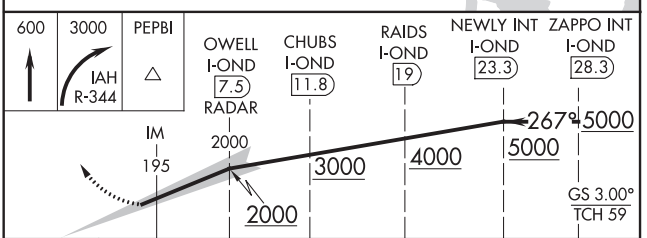
Simultaneous approach authorized with Rwy 26L and Rwy 27. Cat II: RVR 1000 authorized with specific OPSPEC, MSPEC or LOA approval and use of autoland or HUD to touchdown.

ALSF-2

MISSED APPROACH: Climb to 600 then climbing right turn to 3000 on IAH VORTAC R-344 to PEPBI INT/ IAH 20 DME and hold.

D-ATIS	HOUSTON APP CON	HOUSTON TOWER	GND CON	CLNC DEL	CPDLC
124.05	120.05 379.1 EAST 124.35 316.15 WEST	120.725 290.2	118.575	128.1	

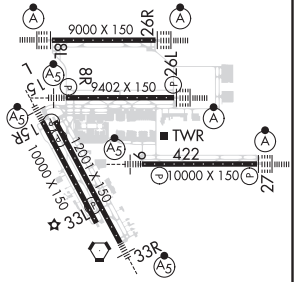




CATEGORY	A	B	C	D
S-ILS-26R	CAT II RA 99/12 100 DA 195			
S-ILS-26R	CAT III RVR 06			

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

ELEV 96 | D | TDZE 95



TDZ/CL Rwys 8R, 8L, 15R, 26R, 26L, 27 and 33L
HIRL all Rwys

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ILS RWY 27 (CAT II & III)
GEORGE BUSH INTERCONTINENTAL/HOUSTON (IAH)

LOC/DME I-GHI	APP CRS	Rwy ldg	10000
110.9	267°	TDZE	86
Chan 46		Apt Elev	96

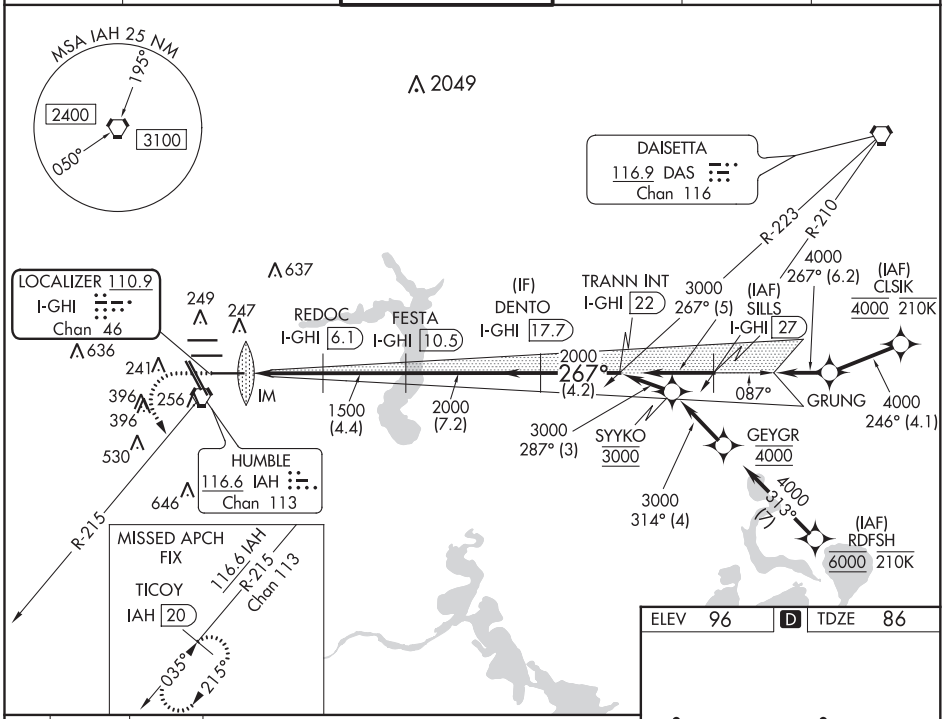
From CLSIK, RDFSH: RNAV 1-GPS required.
RNAV 1-GPS and RADAR required for procedure entry.

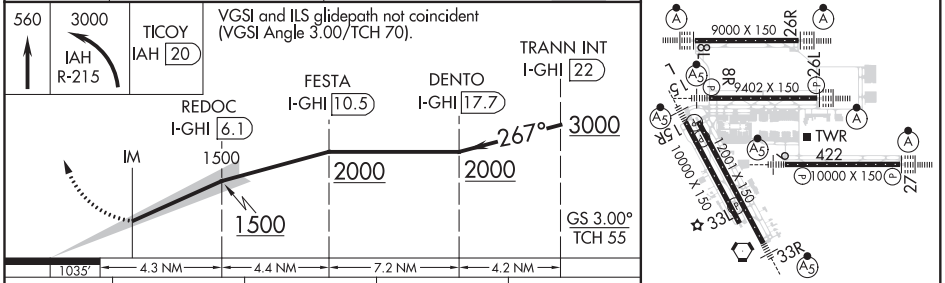
Simultaneous approach authorized. Cat II: RVR 1000 authorized with specific OPSPEC, MSPEC, or LOA approval and use of autoland or HUD to touchdown.

ALSF-2

MISSED APPROACH: Climb to 560 then climbing left turn to 3000 on IAH VORTAC R-215 to TICOY/IAH 20 DME and hold.

D-ATIS	HOUSTON APP CON	HOUSTON TOWER	GND CON	CLNC DEL	CPDLC
124.05	120.05 379.1 EAST 124.35 316.15 WEST	135.15 290.2	118.575	128.1	





CATEGORY	A	B	C	D
S-ILS 27	CAT II RA 101/12 100 DA 186			
S-ILS 27	CAT III RVR 06			

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

ELEV 96 | D | TDZE 86

TDZ/CL Rwys 8R, 8L, 15R, 26R, 26L, 27 and 33L
HIRL all Rwys

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LAAS	APP CRS	Rwy ldg	9000
CH 21073	087°	TDZE	95
RPI GBZU		Apt Elev	96

GLS RWY 8L
GEORGE BUSH INTERCONTINENTAL/HOUSTON (IAH)

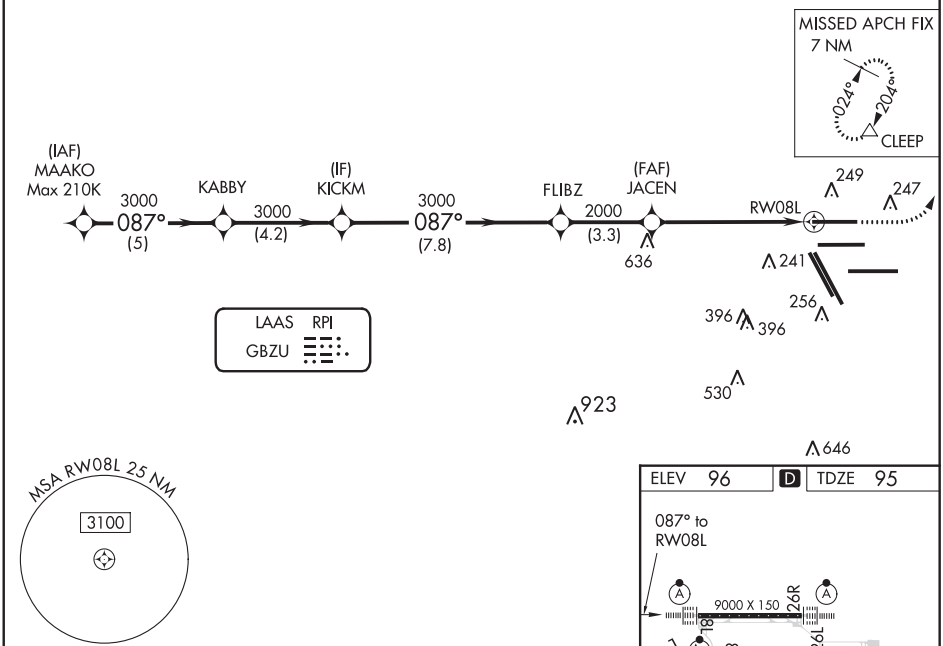
T A NA — For inop ALSF, increase GLS all Cats visibility to RVR 4000. Simultaneous approach authorized with Rwy 8R and Rwy 9. DME/DME RNP-0.3 NA. GPS Required. Autoland approach NA. Use of FD or AP providing RNAV track guidance required during simultaneous operations.

ALSF-2

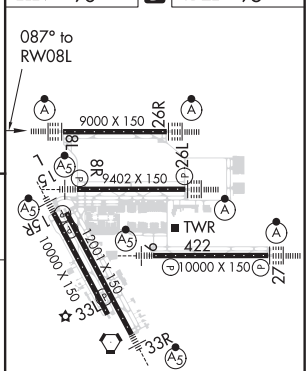
MISSED APPROACH: Climb to 580 then climbing left turn to 4000 direct CLEEP and hold.

D-ATIS	HOUSTON APP CON	HOUSTON TOWER	GND CON	CLNC DEL	CPDLC
124.05	120.05 379.1 EAST 124.35 316.15 WEST	120.72 290.2	121.7	128.1	

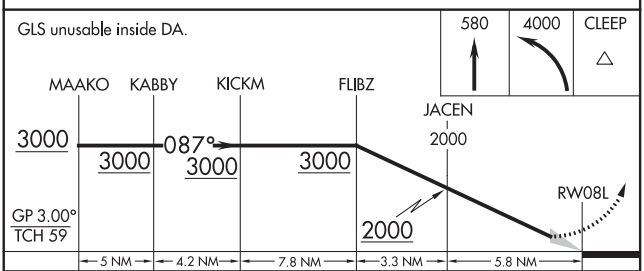
RADAR REQUIRED



ELEV 96	D	TDZE 95



GLS unusable inside DA.



CATEGORY	A	B	C	D	E
GLS DA	295/18 200 (200-½)				

TDZ/CL Rwys 8R, 8L, 15R, 26R, 26L, 27 and 33L
HIRL all Rwys

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GLS RWY 8R

GEORGE BUSH INTERCONTINENTAL/HOUSTON (IAH)

LAAS	APP CRS	Rwy ldg	9402
CH 20251	087°	TDZE	96
RPI GIAH		Apt Elev	96

T A NA

For inop MALSR, increase GLS all Cats visibility to RVR 4000. Simultaneous approach authorized with Rwy 8L and Rwy 9. DME/DME RNP-0.3 NA. GPS required. Use of FD or AP providing RNAV track guidance required during simultaneous operations. Autoland approach NA.

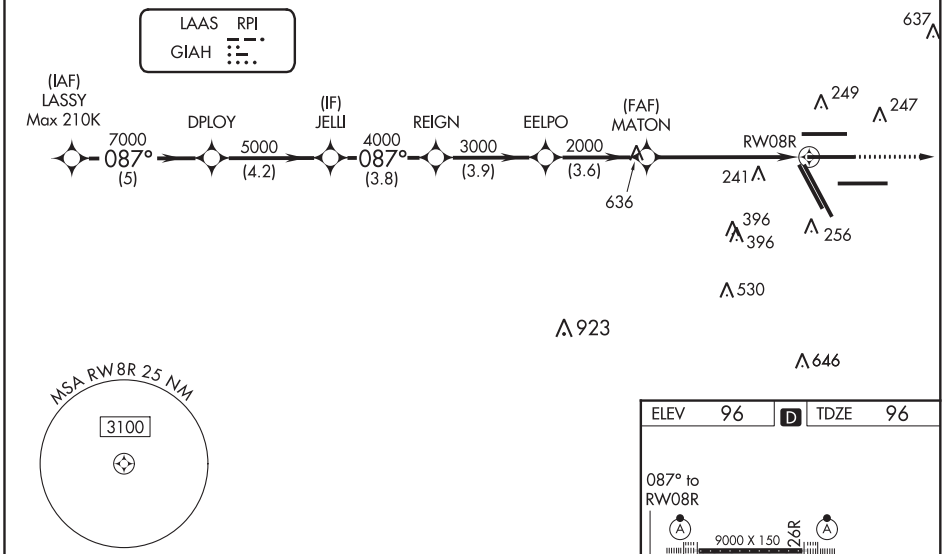
MALSR A5

MISSED APPROACH: Climb to 3000 direct MKAYE and hold.

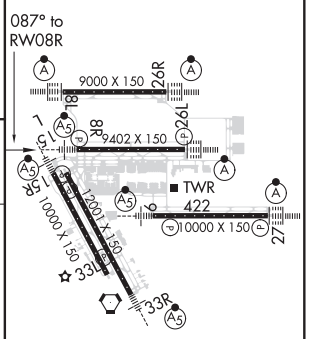
D-ATIS	HOUSTON APP CON	HOUSTON TOWER	GND CON	CLNC DEL	CPDLC
124.05	120.05 379.1 EAST 124.35 316.15 WEST	125.35 290.2	118.575	128.1	

RADAR REQUIRED

MISSED APCH FIX
4 NM
087°
267°
MKAYE



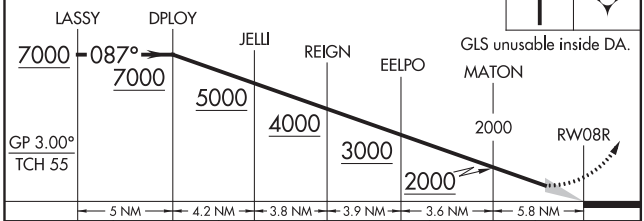
ELEV	96	D	TDZE	96



VGSI and GLS glidepath not coincident (VGSI Angle 3.00/TCH 72).

3000 MKAYE

GLS unusable inside DA.



CATEGORY	A	B	C	D	E
GLS DA	296/18 200 (200-½)				

HIRL all Rwys
TDZ/CL Rwys 8L/R, 15R, 26L/26R, 27 and 33L

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GLS RWY 9

GEORGE BUSH INTERCONTINENTAL/HOUSTON (IAH)

LAAS	APP CRS	Rwy ldg	10000
CH 21895	087°	TDZE	91
RPI GUYO		Apt Elev	96

For inop MALSR, increase GLS all Cats visibility to RVR 4000. Simultaneous approach authorized with Rwys 8L/R. DME/DME RNP-0.3 NA. Use of FD or AP providing RNAV track guidance required during simultaneous operations. GPS required. Autoland approach NA. **RVR 1800 authorized with use of FD or AP or HUD to DA.

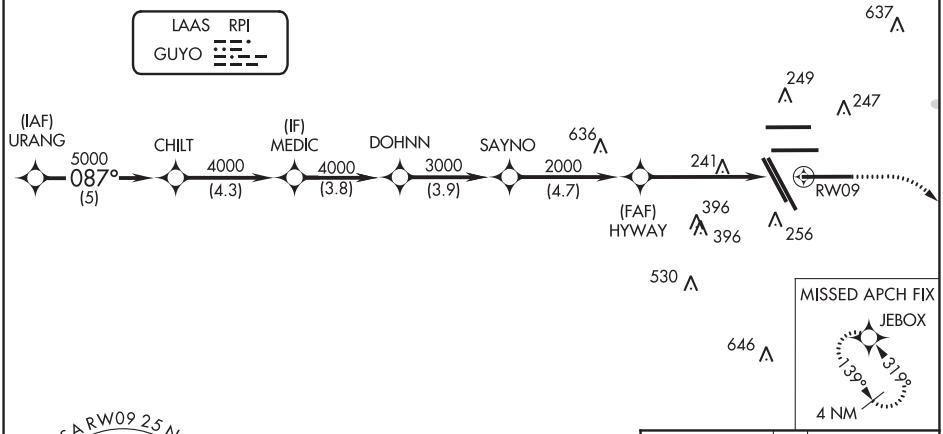
NA

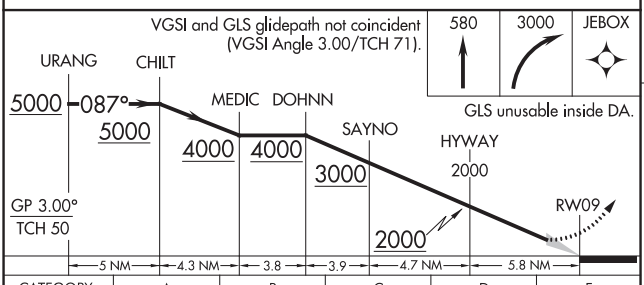
MALSR

MISSED APPROACH: Climb to 580 then climbing right turn to 3000 direct JEBOX and hold.

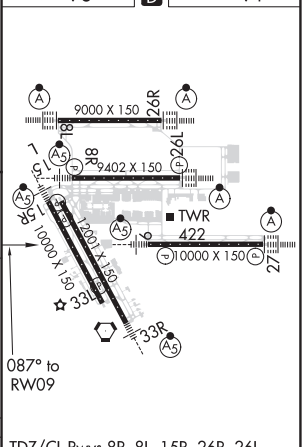
D-ATIS	HOUSTON APP CON	HOUSTON TOWER	GND CON	CLNC DEL	CPDLC
124.05	120.05 379.1 EAST 124.35 316.15 WEST	135.15 290.2	118.575	128.1	

RADAR REQUIRED





CATEGORY	A	B	C	D	E
GLS DA**	291/24 200 (200-½)				



TDZ/CL Rwys 8R, 8L, 15R, 26R, 26L, 27 and 33L
HIRL all Rwys

SC-5, 25 FEB 2021 to 22 APR 2021

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GLS RWY 26L

GEORGE BUSH INTERCONTINENTAL/HOUSTON (IAH)

LAAS	APP CRS	Rwy ldg	9402
CH 20662	267°	TDZE	95
RPI GJYV		Apt Elev	96

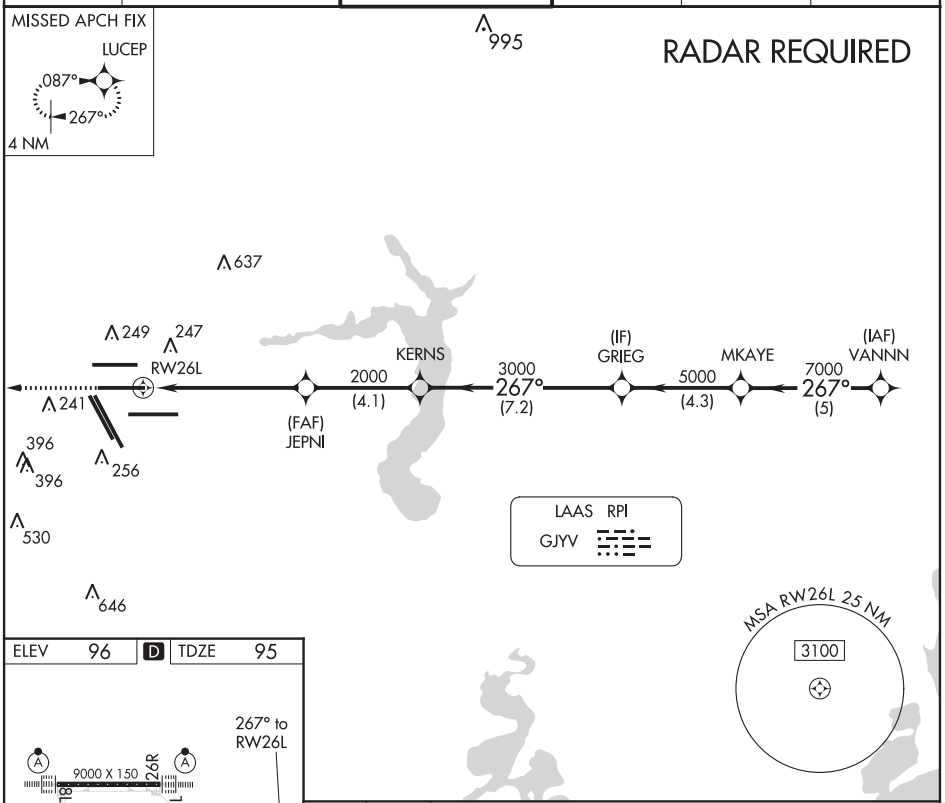
For inop ALSF, increase GLS all Cats visibility to RVR 4000. Simultaneous approach authorized with Rwy 26R and Rwy 27. DME/DME RNP-0.3 NA. GPS required. Use of FD or AP providing RNAV track guidance required during simultaneous operations. Autoland approach NA.

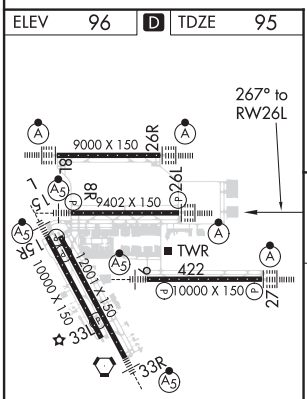
NA

ALSF-2

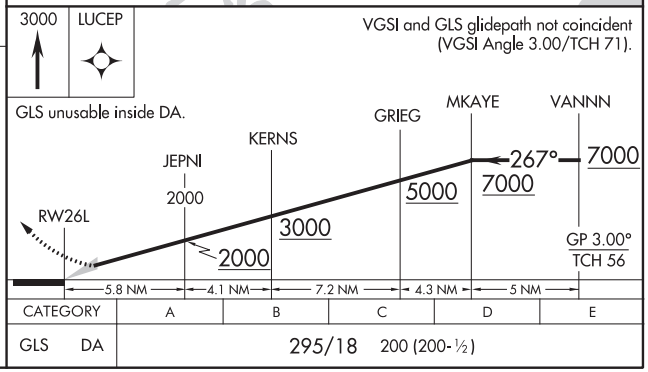
MISSED APPROACH: Climb to 3000 direct LUCEP and hold.

D-ATIS	HOUSTON APP CON	HOUSTON TOWER	GND CON	CLNC DEL	CPDLC
124.05	120.05 379.1 EAST 124.35 316.15 WEST	125.35 290.2	118.575	128.1	





TDZ/CL Rwys 8R, 8L, 15R, 26R, 26L, 27 and 33L
HIRL all Rwys



CATEGORY	A	B	C	D	E
GLS DA	295/18 200 (200-½)				

HOUSTON, TEXAS
Amdt 1B 07DEC17

GEORGE BUSH INTERCONTINENTAL/HOUSTON (IAH)
29°59′N-95°20′W
GLS RWY 26L

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GLS RWY 26R
GEORGE BUSH INTERCONTINENTAL/HOUSTON (IAH)

LAAS	APP CRS	Rwy ldg	9000
CH 21484	267°	TDZE	96
RPI GOND		Apt Elev	96

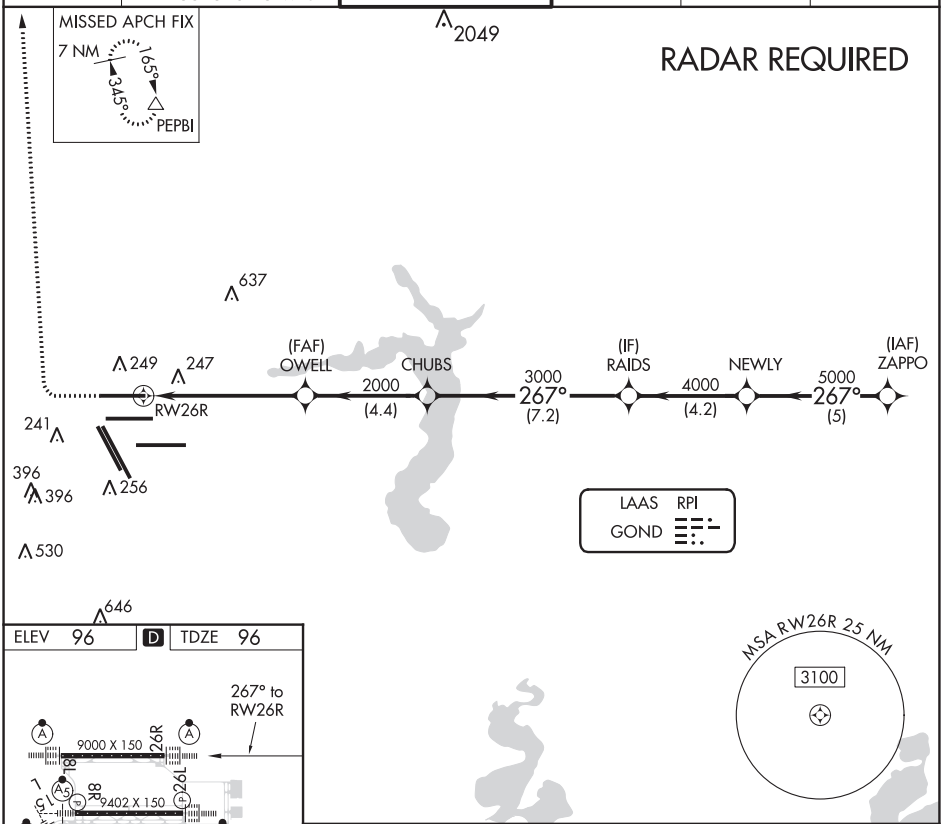
For inop ALSF, increase GLS all Cats visibility to RVR 4000. DME/DME RNP-0.3 NA. GPS required. Simultaneous approach authorized with Rwy 26L and Rwy 27. Use of FD or AP providing RNAV track guidance required during simultaneous operations. Autoland approach NA.

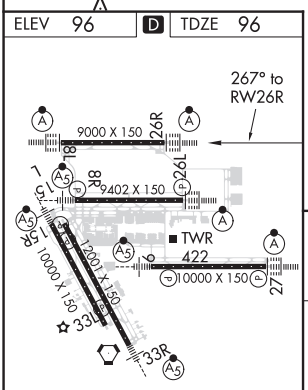
NA

ALSF-2

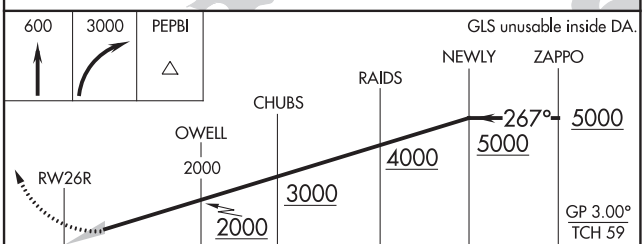
MISSED APPROACH: Climb to 600 then climbing right turn to 3000 direct PEPBI and hold.

D-ATIS	HOUSTON APP CON	HOUSTON TOWER	GND CON	CLNC DEL	CPDLC
124.05	120.05 379.1 EAST 124.35 316.15 WEST	120.72 290.2	121.7	128.1	





TDZ/CL Rwys 8R, 8L, 15R, 26R, 26L, 27 and 33L
HIRL all Rwys



CATEGORY	A	B	C	D	E
GLS DA	296/18 200 (200-½)				

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HOUSTON, TEXAS

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20142

GLS RWY 27

GEORGE BUSH INTERCONTINENTAL/HOUSTON (IAH)

LAAS	APP CRS	Rwy ldg	10000
CH 22306	267°	TDZE	87
RPI GGHI		Apt Elev	96

For inop ALSF, increase GLS all Cats visibility to RVR 4000. Simultaneous approach authorized with Rwy 26L and Rwy 26R. DME/DME RNP-0.3 NA. GPS required. Use of FD or AP providing RNAV track guidance required during simultaneous operations. Autoland approach NA.

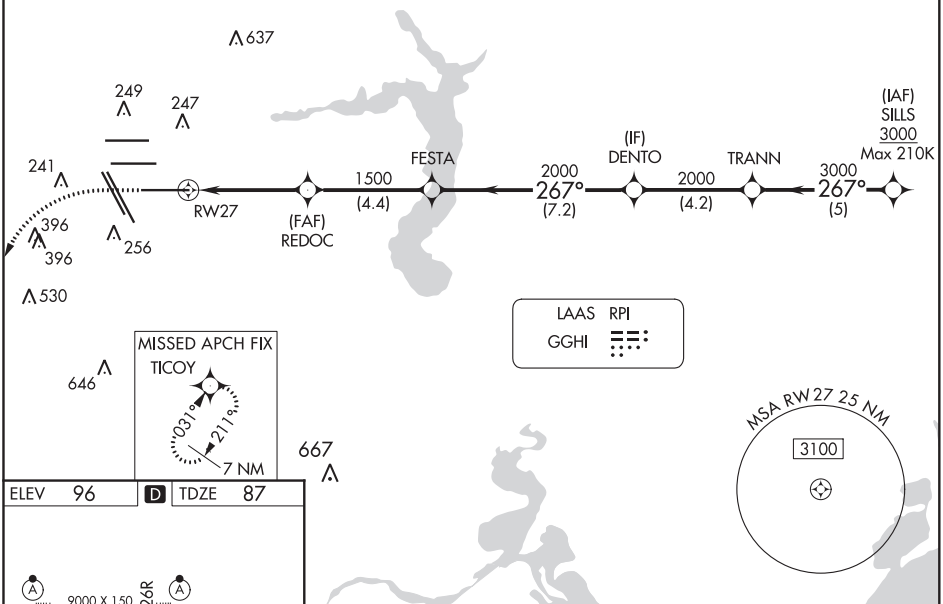
NA

ALSF-2

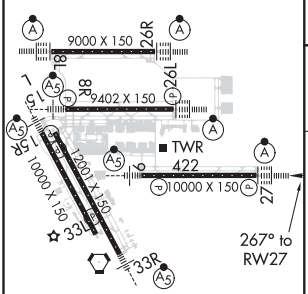
MISSED APPROACH: Climb to 560 then climbing left turn to 3100 direct TICOY and hold.

D-ATIS	HOUSTON APP CON	HOUSTON TOWER	GND CON	CLNC DEL	CPDLC
124.05	120.05 379.1 EAST 124.35 316.15 WEST	135.15 290.2	118.575	128.1	

RADAR REQUIRED



ELEV 96 | D | TDZE 87

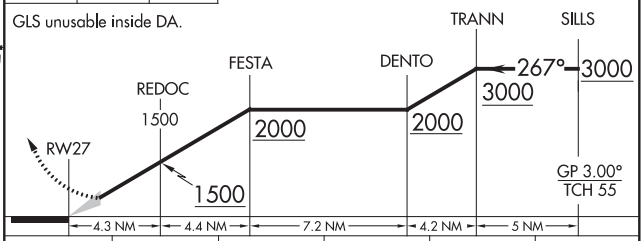


TDZ/CL Rwys 8R, 8L, 15R, 26R, 26L, 27 and 33L
HIRL all Rwys

560	3100	TICOY

VGSI and GLS glidepath not coincident (VGSI Angle 3.00/TCH 70).

GLS unusable inside DA.



CATEGORY	A	B	C	D	E
GLS DA	287/18 200 (200-½)				

HOUSTON, TEXAS
Amdt 1B 07DEC17

GEORGE BUSH INTERCONTINENTAL/HOUSTON (IAH)
29°59′N-95°20′W

GLS RWY 27

SC-5, 25 FEB 2021 to 22 APR 2021

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APP CRS	Rwy ldg	9000
087°	TDZE	95
	Apt Elev	96

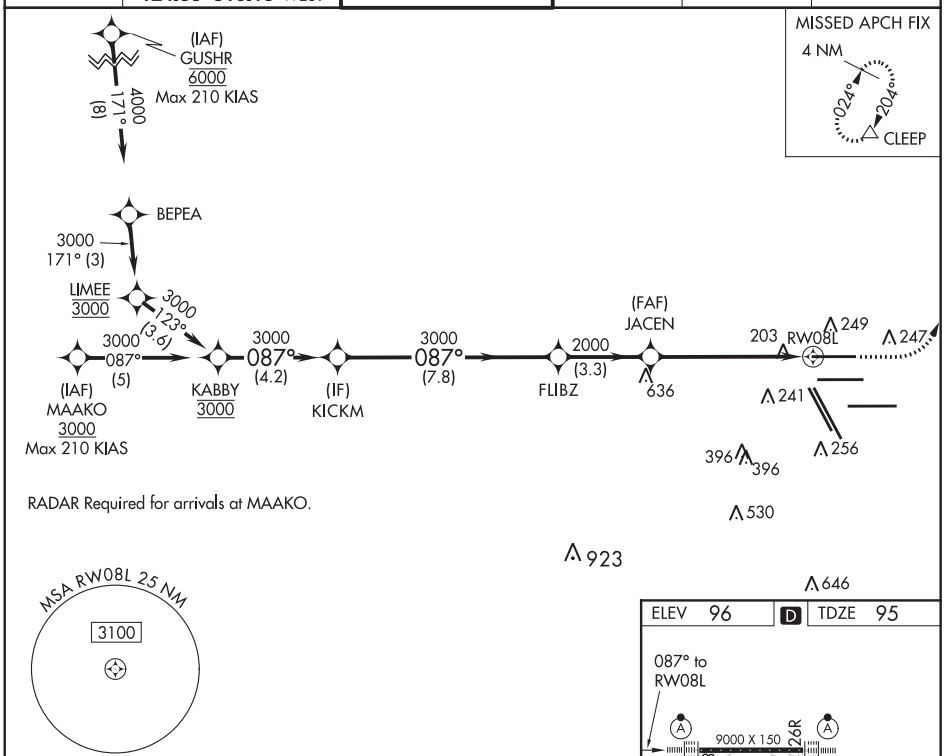
RNAV (RNP) Y RWY 8L
GEORGE BUSH INTERCONTINENTAL/HOUSTON (IAH)

GPS Required. For uncompensated Baro-VNAV systems, procedure NA below -3°C (27°F) or above 54°C (130°F). For inop ALSF-2, increase RNP 0.30 all Cats visibility to 1⅜ mile. Simultaneous approach authorized. Use of FD or AP providing RNAV track guidance required during simultaneous operations.

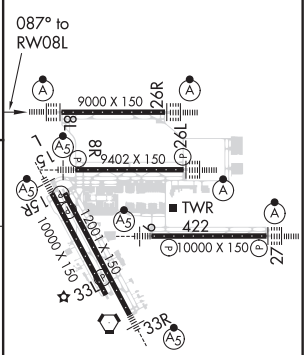
ALSF-2

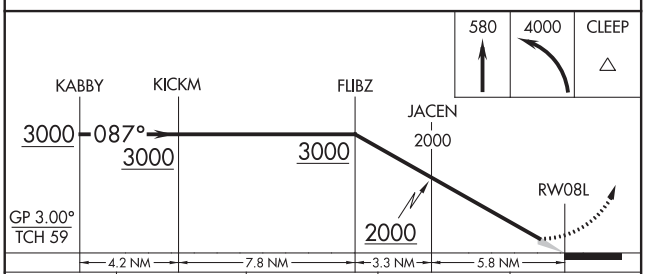
MISSED APPROACH: Climb to 580 then climbing left turn to 4000 direct CLEEP and hold.

D-ATIS	HOUSTON APP CON	HOUSTON TOWER	GND CON	CLNC DEL	CPDLC
124.05	120.05 379.1 EAST 124.35 316.15 WEST	120.72 290.2	121.7	128.1	



ELEV	96	D	TDZE	95





CATEGORY	A	B	C	D
RNP 0.30 DA	510/45	415 (500-⅞)		

AUTHORIZATION REQUIRED

TDZ/CL Rwys 8R, 8L, 15R, 26R, 26L, 27 and 33L
HIRL all Rwys

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RNAV (RNP) Y RWY 8R

GEORGE BUSH INTERCONTINENTAL/HOUSTON (IAH)

APP CRS	Rwy ldg	9402
087°	TDZE	95
	Apt Elev	96

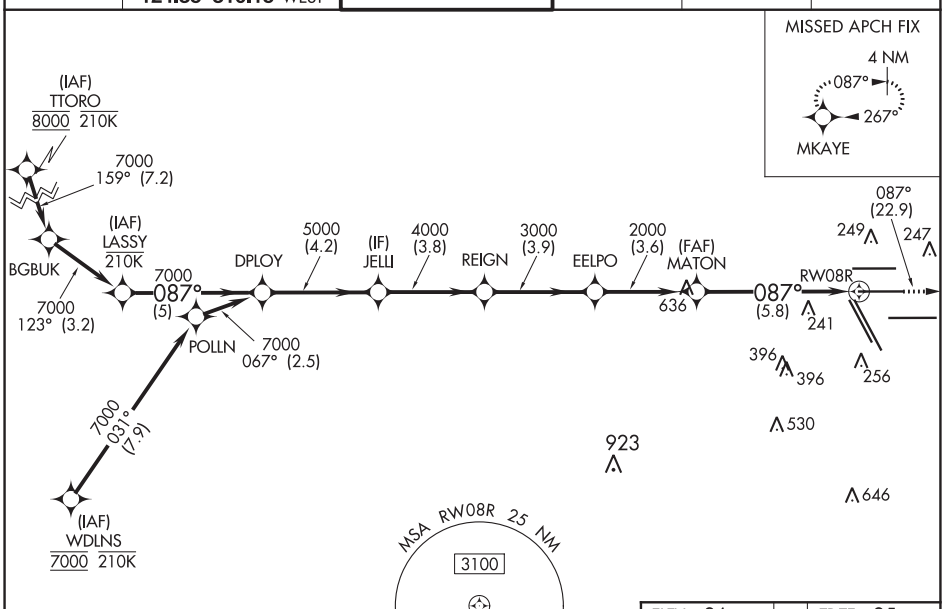
RNP AR APCH.

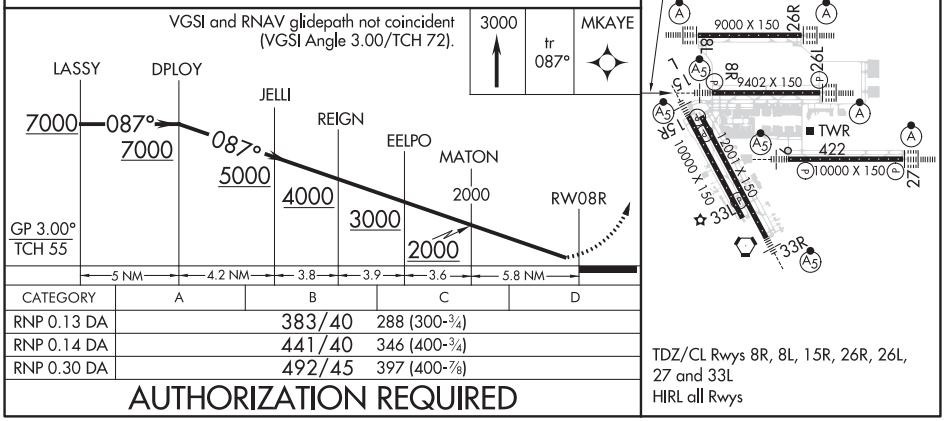
For uncompensated Baro-VNAV systems, procedure NA below -3°C or above 54°C. For inop ALS increase RNP 0.13 all Cats visibility to RVR 4500, RNP 0.14 all Cats visibility to RVR 5600, RNP 0.30 all Cats visibility to 1¼ SM. Simultaneous approach authorized.

MALSR

MISSED APPROACH: Climb to 3000 on track 087° to MKAYE and hold.

D-ATIS	HOUSTON APP CON	HOUSTON TOWER	GND CON	CLNC DEL	CPDLC
124.05	120.05 379.1 EAST 124.35 316.15 WEST	125.35 290.2	118.575	128.1	





CATEGORY	A	B	C	D
RNP 0.13 DA	383/40	288 (300-¾)		
RNP 0.14 DA	441/40	346 (400-¾)		
RNP 0.30 DA	492/45	397 (400-⅞)		

AUTHORIZATION REQUIRED

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SC-5, 25 FEB 2021 to 22 APR 2021

APP CRS	Rwy ldg	10000
087°	TDZE	91
	Apt Elev	96

RNAV (RNP) Y RWY 9

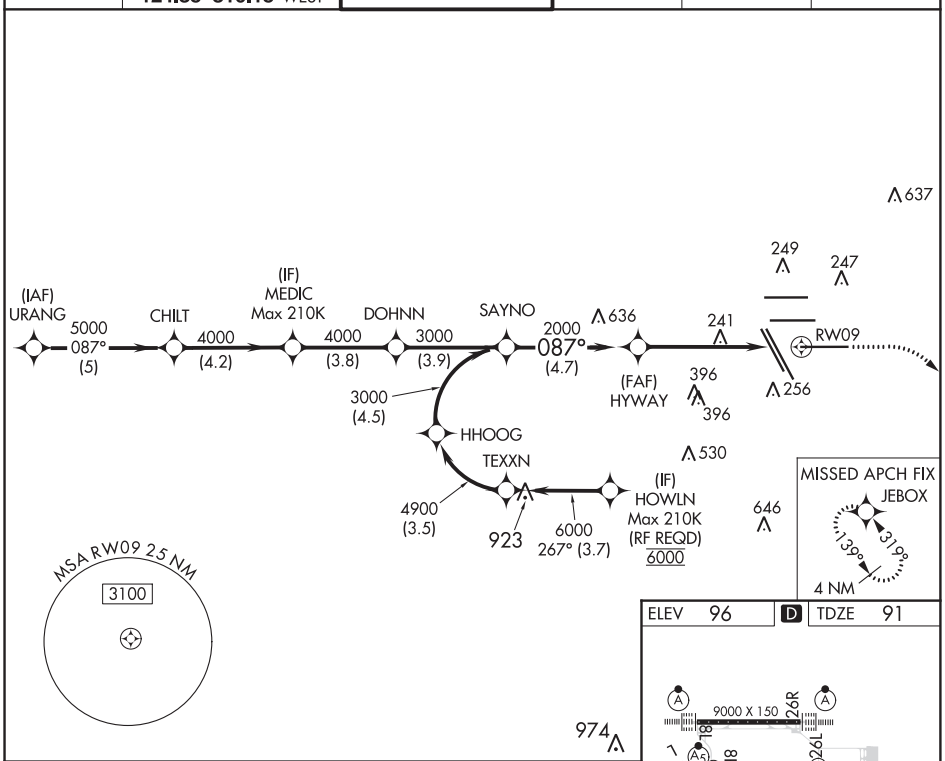
GEORGE BUSH INTERCONTINENTAL/HOUSTON (IAH)

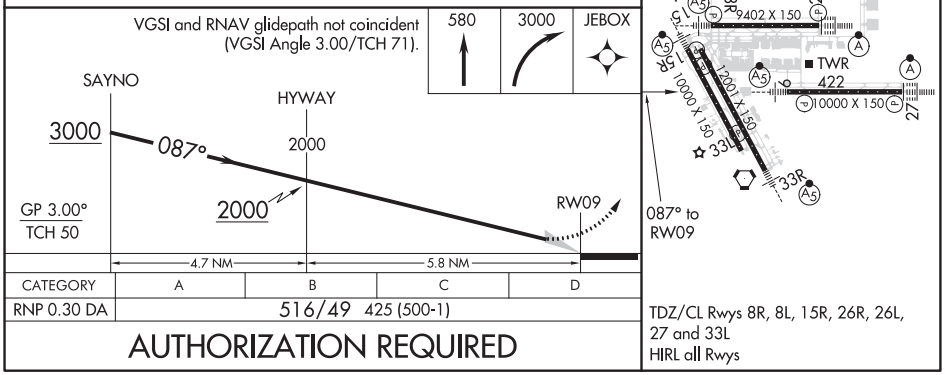
For uncompensated Baro-VNAV systems, procedure NA below -3°C (27°F) or above 54°C (130°F). GPS required. For inop MALSR, increase all Cats visibility to 1⅜ mile. Simultaneous approach authorized. Use of FD or AP providing RNAV track guidance required during simultaneous operations.

MALSR

MISSED APPROACH: Climb to 580 then climbing right turn to 3000 direct JEBOX and hold.

D-ATIS	HOUSTON APP CON	HOUSTON TOWER	GND CON	CLNC DEL	CPDLC
124.05	120.05 379.1 EAST 124.35 316.15 WEST	135.15 290.2	118.575	128.1	





CATEGORY	A	B	C	D
RNP 0.30 DA	516/49 425 (500-1)			

AUTHORIZATION REQUIRED

TDZ/CL Rwys 8R, 8L, 15R, 26R, 26L, 27 and 33L
HIRL all Rwys

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HOUSTON, TEXAS | AL-5461 (FAA) | 20142

APP CRS	Rwy ldg	9402
267°	TDZE	95
	Apt Elev	96

RNAV (RNP) Y RWY 26L
GEORGE BUSH INTERCONTINENTAL/HOUSTON (IAH)

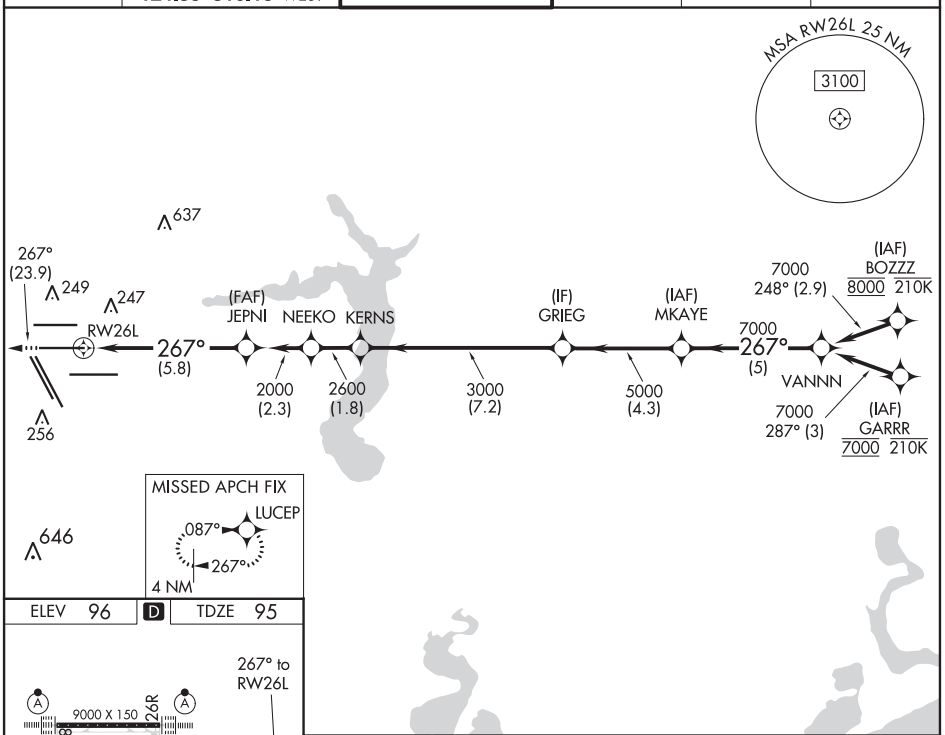
RNP AR APCH.

For uncompensated Baro-VNAV systems, procedure NA below -3°C or above 54°C. Simultaneous approach authorized. For inop ALS, increase RNP 0.13 all Cats visibility to RVR 5100, and RNP 0.30 all Cats visibility to 1½ SM.

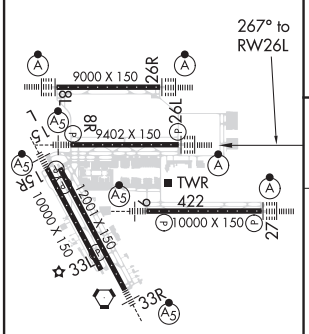
ALSF-2

MISSED APPROACH: Climb to 3000 on track 267° to LUCEP and hold.

D-ATIS	HOUSTON APP CON	HOUSTON TOWER	GND CON	CLNC DEL	CPDLC
124.05	120.05 379.1 EAST 124.35 316.15 WEST	125.35 290.2	118.575	128.1	



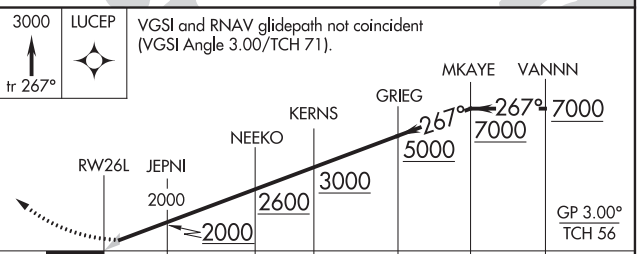
ELEV 96 | D | TDZE 95



TDZ/CL Rwys 8R, 8L, 15R, 26R, 26L, 27 and 33L
HIRL all Rwys

3000 | LUCEP | tr 267°

VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 71).



CATEGORY	A	B	C	D
RNP 0.13 DA	414/40	319 (400-¾)		
RNP 0.30 DA	549/55	454 (500-1)		

AUTHORIZATION REQUIRED

HOUSTON, TEXAS
Orig-D 30JAN20

GEORGE BUSH INTERCONTINENTAL/HOUSTON (IAH)
29°59′N-95°20′ W
RNAV (RNP) Y RWY 26L

SC-5, 25 FEB 2021 to 22 APR 2021

SC-5, 25 FEB 2021 to 22 APR 2021

APP CRS	Rwy ldg	9000
267°	TDZE	96
	Apt Elev	96

RNAV (RNP) Y RWY 26R
GEORGE BUSH INTERCONTINENTAL/HOUSTON (IAH)

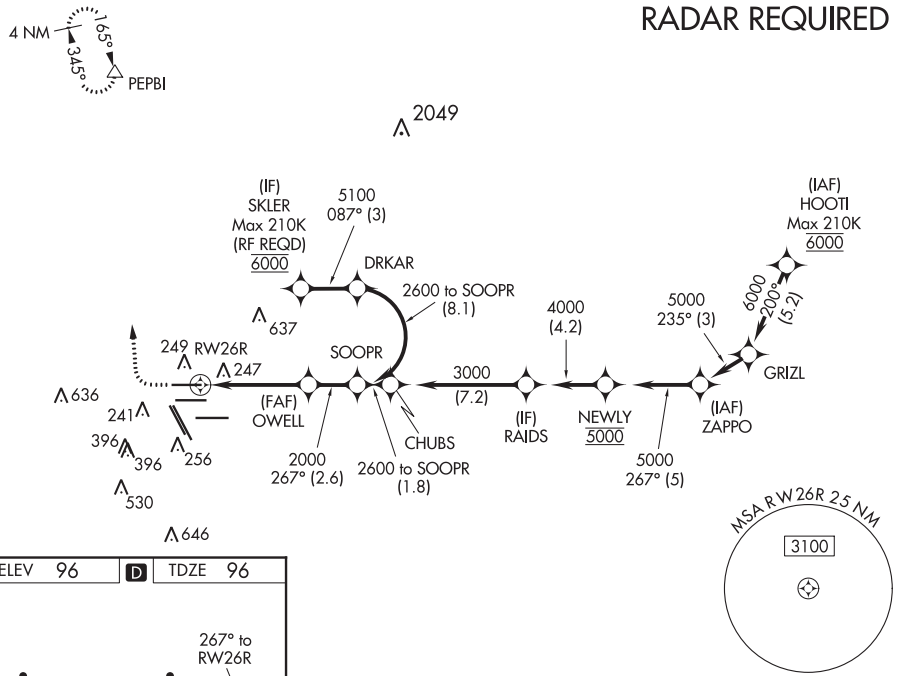
For uncompensated Baro-VNAV systems, procedure NA below -3°C (27°F) or above 54°C (130°F). GPS required. Simultaneous approach authorized. For inop ALS, increase RNP 0.11 all Cats visibility to RVR 5000 and increase RNP 0.15 all Cats visibility to 1¼ SM. Use of FD or AP providing RNAV track guidance required during simultaneous operations.

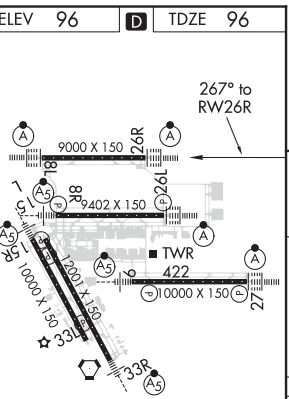
ALSF-2

MISSED APPROACH: Climb to 600 then climbing right turn to 3000 direct PEPBI and hold.

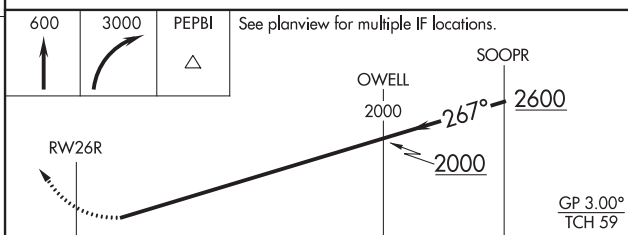
D-ATIS	HOUSTON APP CON	HOUSTON TOWER	GND CON	CLNC DEL	CPDLC
124.05	120.05 379.1 EAST 124.35 316.15 WEST	120.72 290.2	121.7	128.1	

RADAR REQUIRED





TDZ/CL Rwys 8R, 8L, 15R, 26R, 26L, 27 and 33L
HIRL all Rwys



CATEGORY	A	B	C	D
RNP 0.11 DA		429/40	333 (400-¾)	
RNP 0.15 DA		496/45	400 (400-⅞)	
RNP 0.30 DA		554/50	458 (500-1¼)	

AUTHORIZATION REQUIRED

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APP CRS	Rwy ldg	10000
267°	TDZE	87
	Apt Elev	96

RNAV (RNP) Y RWY 27

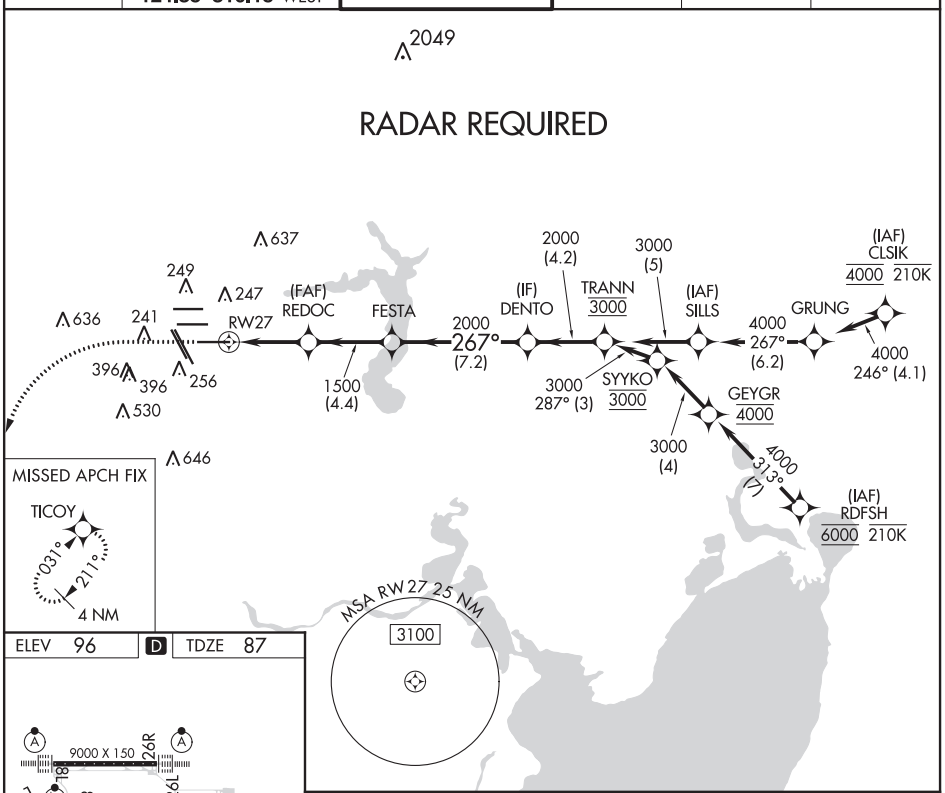
GEORGE BUSH INTERCONTINENTAL/HOUSTON (IAH)

For uncompensated Baro-VNAV systems, procedure NA below -2°C (29°F) or above 54°C (130°F). GPS required. Simultaneous approach authorized. Use of FD or AP providing RNAV track guidance required during simultaneous operations.

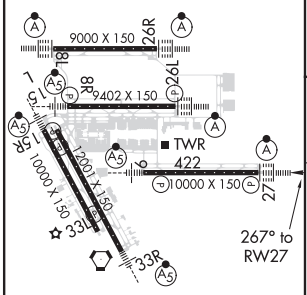
ALSF-2

MISSED APPROACH: Climb to 560 then climbing left turn to 3000 direct TICOY and hold.

D-ATIS	HOUSTON APP CON	HOUSTON TOWER	GND CON	CLNC DEL	CPDLC
124.05	120.05 379.1 EAST 124.35 316.15 WEST	135.15 290.2	118.575	128.1	



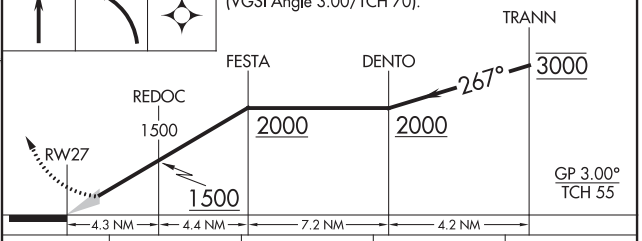
ELEV 96 | D | TDZE 87



TDZ/CL Rwys 8R, 8L, 15R, 26R, 26L, 27 and 33L
HIRL all Rwys

560	3000	TICOY

VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 70).



CATEGORY	A	B	C	D
RNP 0.30 DA	389/24 302 (300-½)			

AUTHORIZATION REQUIRED

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WAAS CH 97599 W15A	APP CRS 149°	Rwy ldg 9999 TDZE 95 Apt Elev 96

RNAV (GPS) RWY 15R

GEORGE BUSH INTERCONTINENTAL/HOUSTON (IAH)

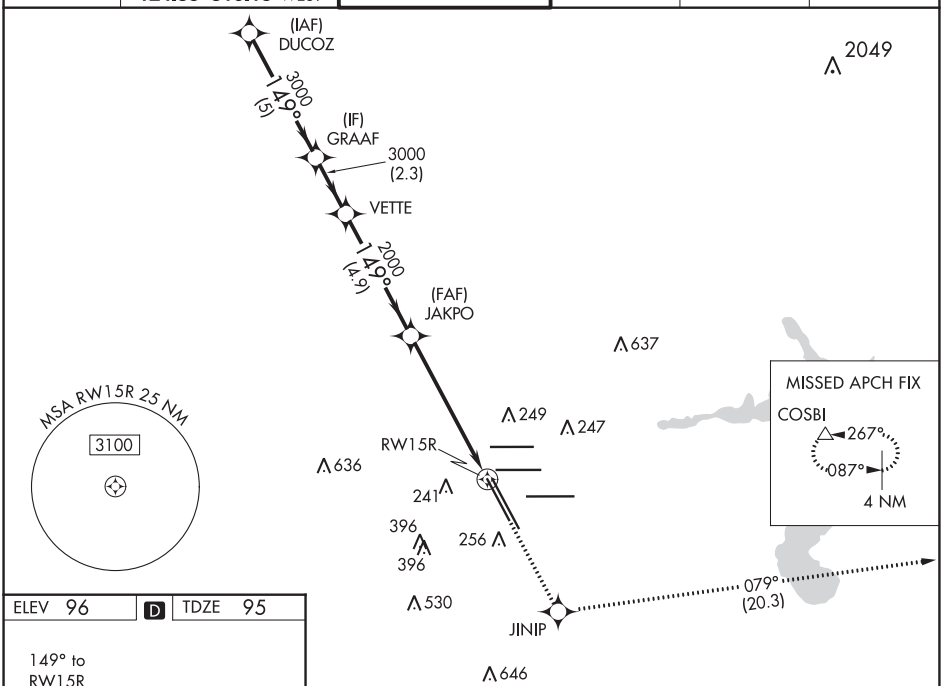
RADAR required for procedure entry.
RNP APCH.

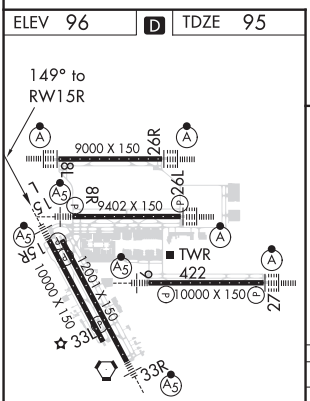
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -3°C or above 54°C. For inop ALS, increase LPV Cat E visibility to RVR 4000, LNAV/VNAV all Cats visibility to RVR 5500, and LNAV Cat C/D/E visibility to 1⅜ SM.

MALSR

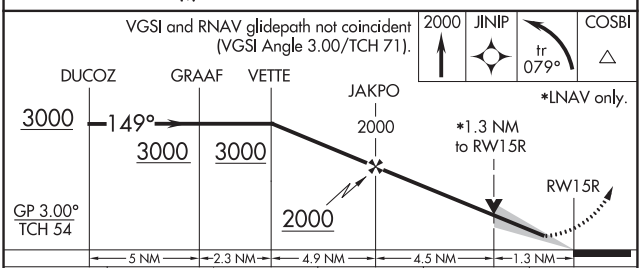
MISSED APPROACH: Climb to 2000 direct JINIP and left turn on track 079° to COSBI and hold.

D-ATIS	HOUSTON APP CON	HOUSTON TOWER	GND CON	CLNC DEL	CPDLC
124.05	120.05 379.1 EAST 124.35 316.15 WEST	127.3 288.25	121.7	128.1	





TDZ/CL Rwys 8R, 8L, 15R, 26R, 26L, 27 and 33L
HIRL all Rwys



CATEGORY	A	B	C	D	E
LPV DA	295/18 200 (200-½)				
LNAV/VNAV DA	460/35 365 (400-⅝)				
LNAV MDA	580/24 485 (500-½)		580/50 485 (500-1)		

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RNAV (GPS) RWY 33R

GEORGE BUSH INTERCONTINENTAL/HOUSTON (IAH)

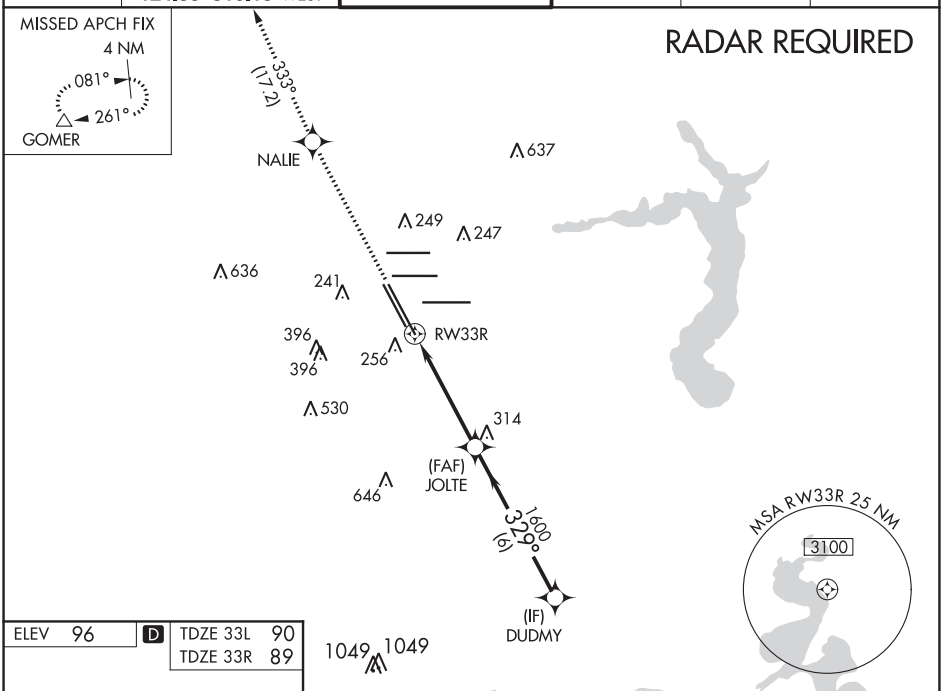
WAAS CH 57902 W33A	APP CRS 329°	Rwy 33R Rwy ldg 12001 TDZE 89 Apt Elev 96	Rwy 33L Rwy ldg 10000 TDZE 90 Apt Elev 96

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -3°C (27°F) or above 54°C (130°F). For inop MALSR, increase LPV Cat E visibility to RVR 4000, LNAV/VNAV Cat E visibility to 1⅜ , and LNAV Cat E visibility to 1⅜ . DME/DME RNP-0.3 NA. ** RVR 1800 authorized with use of FD or AP or HUD to DA.

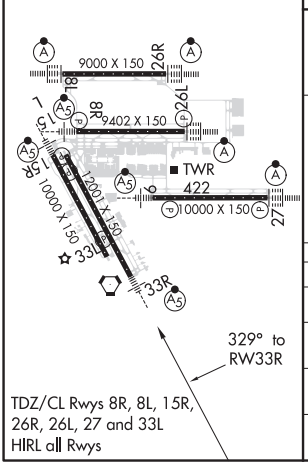
MALSR

MISSED APPROACH: Climb to 2000 direct NALIE and on track 333° to GOMER and hold.

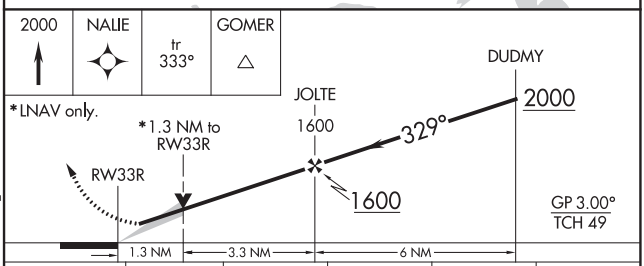
D-ATIS	HOUSTON APP CON	HOUSTON TOWER	GND CON	CLNC DEL	CPDLC
124.05	120.05 379.1 EAST 124.35 316.15 WEST	127.3 288.25	121.7	128.1	



ELEV 96 D TDZE 33L 90 TDZE 33R 89



TDZ/CL Rwys 8R, 8L, 15R, 26R, 26L, 27 and 33L
HIRL all Rwys



CATEGORY	A	B	C	D	E
LPV DA**	289/24 200 (200-½)				
LNAV/VNAV DA	490/45 401 (400-⅞)				
LNAV MDA	540/24 451 (500-½)		540/45 451 (500-⅞)		
SIDESTEP 33L	540-1 450 (500-1)		540-1½ 450 (500-1½)	540-2 450 (500-2)	NA

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WAAS CH 77826 W08A	APP CRS 087°	Rwy ldg 9000 TDZE 95 Apt Elev 96

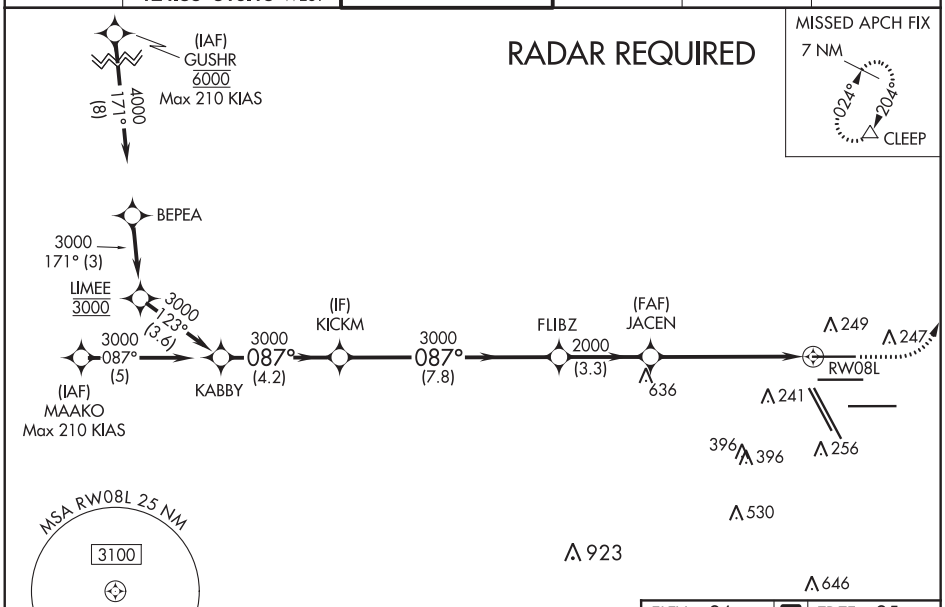
RNAV (GPS) Z RWY 8L
GEORGE BUSH INTERCONTINENTAL/HOUSTON (IAH)

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -3°C (27°F) or above 54°C (130°F). For inop ALSF, increase LPV Cat E visibility to RVR 4000, LNAV/VNAV Cat E visibility to 1¼, and LNAV Cat C/D/E visibility to 1⅜. Simultaneous approach authorized with Rwy 8R and Rwy 9. DME/DME RNP-0.3 NA. Use of FD or AP providing RNAV track guidance required during simultaneous operations. LNAV procedure NA during simultaneous operations.

ALSF-2

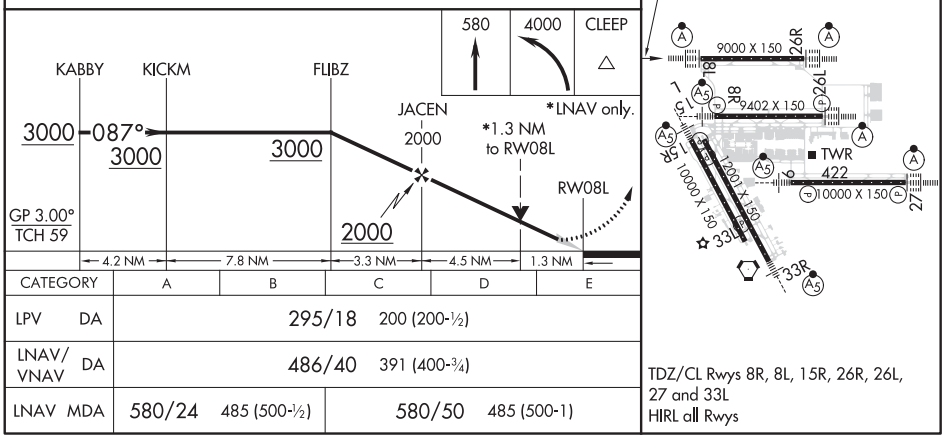
MISSED APPROACH: Climb to 580 then climbing left turn to 4000 direct CLEEP and hold.

D-ATIS	HOUSTON APP CON	HOUSTON TOWER	GND CON	CLNC DEL	CPDLC
124.05	120.05 379.1 EAST 124.35 316.15 WEST	120.72 290.2	121.7	128.1	



ELEV 96	D	TDZE 95

087° to RW08L



CATEGORY	A	B	C	D	E
LPV DA	295/18 200 (200-½)				
LNAV/VNAV DA	486/40 391 (400-¾)				
LNAV MDA	580/24 485 (500-½)		580/50 485 (500-1)		

TDZ/CL Rwys 8R, 8L, 15R, 26R, 26L, 27 and 33L
HIRL all Rwys

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RNAV (GPS) Z RWY 8R

GEORGE BUSH INTERCONTINENTAL/HOUSTON (IAH)

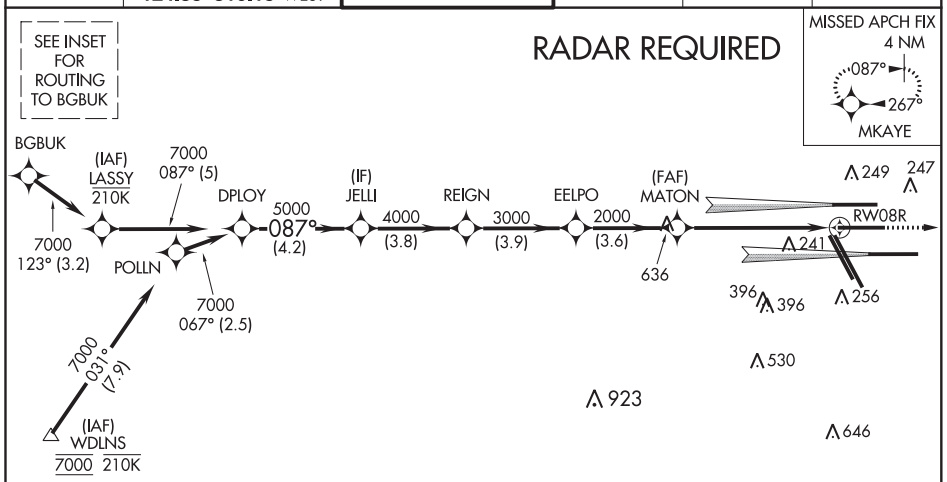
WAAS CH 53626 W08B	APP CRS 087°	Rwy ldg 9402 TDZE 96 Apt Elev 96

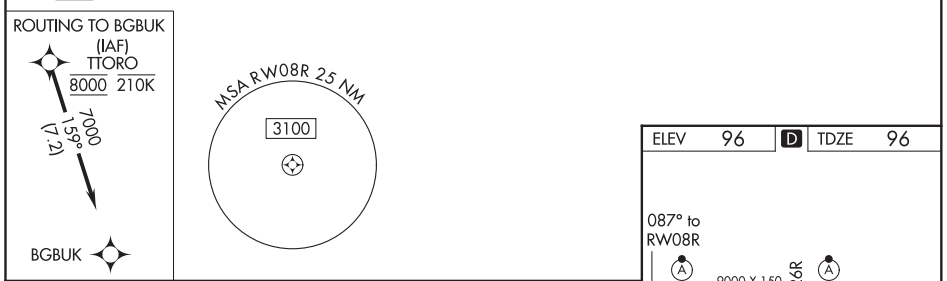
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -3°C (27°F) or above 54°C (130°F). For inop MALSR, increase LPV Cat E visibility to RVR 4000, LNAV/VNAV all Cats visibility to RVR 6000, and LNAV Cat C/D/E visibility to 1⅜. Simultaneous approach authorized with Rwy 8L and Rwy 9. DME/DME RNP-0.3 NA. Use of FD or AP providing RNAV track guidance required during simultaneous operations. LNAV procedure NA during simultaneous operations.

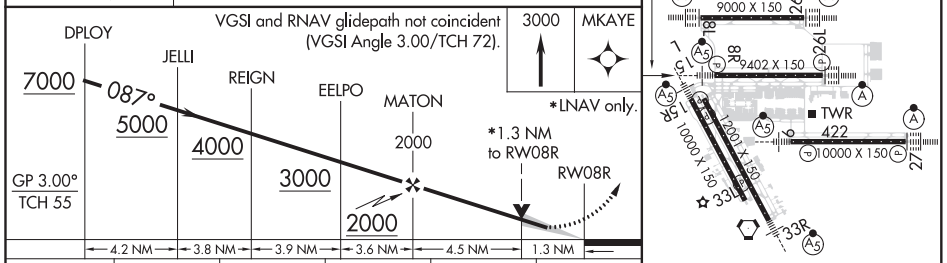
MALSR

MISSED APPROACH: Climb to 3000 direct MKAYE and hold.

D-ATIS	HOUSTON APP CON	HOUSTON TOWER	GND CON	CLNC DEL	CPDLC
124.05	120.05 379.1 EAST 124.35 316.15 WEST	125.35 290.2	118.575	128.1	







CATEGORY	A	B	C	D	E
LPV DA	296/18 200 (200-½)				
LNAV/VNAV DA	421/32 325 (400-⅝)				
LNAV MDA	580/24 484 (500-½)		580/50 484 (500-1)		

HIRL all Rwys
TDZ/CL Rwys 8L/R, 15R, 26L/26R, 27 and 33L

HOUSTON, TEXAS
Amdt 4C 17AUG17

GEORGE BUSH INTERCONTINENTAL/HOUSTON (IAH)
29°59′N-95°20′W
RNAV (GPS) Z RWY 8R

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WAAS CH 72926 W09A	APP CRS 087°	Rwy ldg 10000 TDZE 91 Apt Elev 96

RNAV (GPS) Z RWY 9

GEORGE BUSH INTERCONTINENTAL/HOUSTON (IAH)

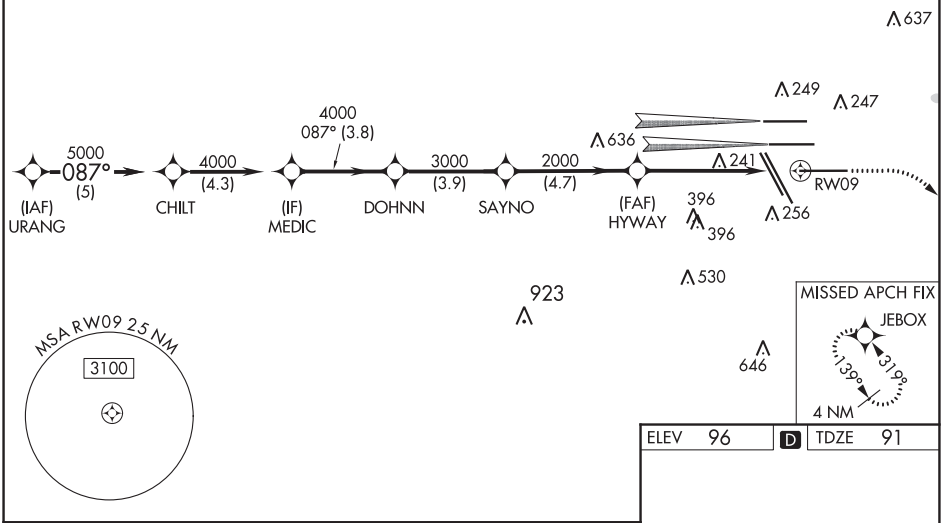
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -3°C (27°F) or above 54°C (130°F). For inop MALSR, increase LPV Cat E visibility to RVR 4000, LNAV/VNAV Cat E visibility to 1½ mile, and LNAV Cat C/D/E visibility to 1⅜ mile. Simultaneous approach authorized with Rwys 8L/R. DME/DME RNP-0.3 NA. LNAV procedure NA during simultaneous operations. Use of FD or AP providing RNAV track guidance required during simultaneous operations.
** RVR 1800 authorized with use of FD or AP or HUD to DA.

MALSR

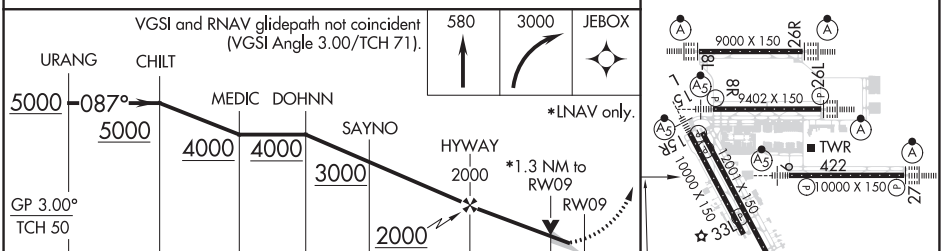
MISSED APPROACH: Climb to 580 then climbing right turn to 3000 direct JEBOX and hold.

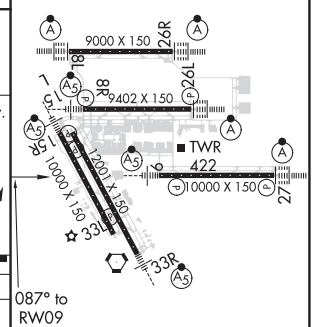
D-ATIS	HOUSTON APP CON	HOUSTON TOWER	GND CON	CLNC DEL	CPDLC
124.05	120.05 379.1 EAST 124.35 316.15 WEST	135.15 290.2	118.575	128.1	

RADAR REQUIRED



ELEV 96	D	TDZE 91





TDZ/CL Rwys 8R, 8L, 15R, 26R, 26L, 27 and 33L
HIRL all Rwys

CATEGORY	A	B	C	D	E
LPV DA**	291/24 200 (200-½)				
LNAV/VNAV DA	525/50 434 (500-1)				
LNAV MDA	580/24 489 (500-½)		580/50 489 (500-1)		

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RNAV (GPS) Z RWY 26L
GEORGE BUSH INTERCONTINENTAL/HOUSTON (IAH)

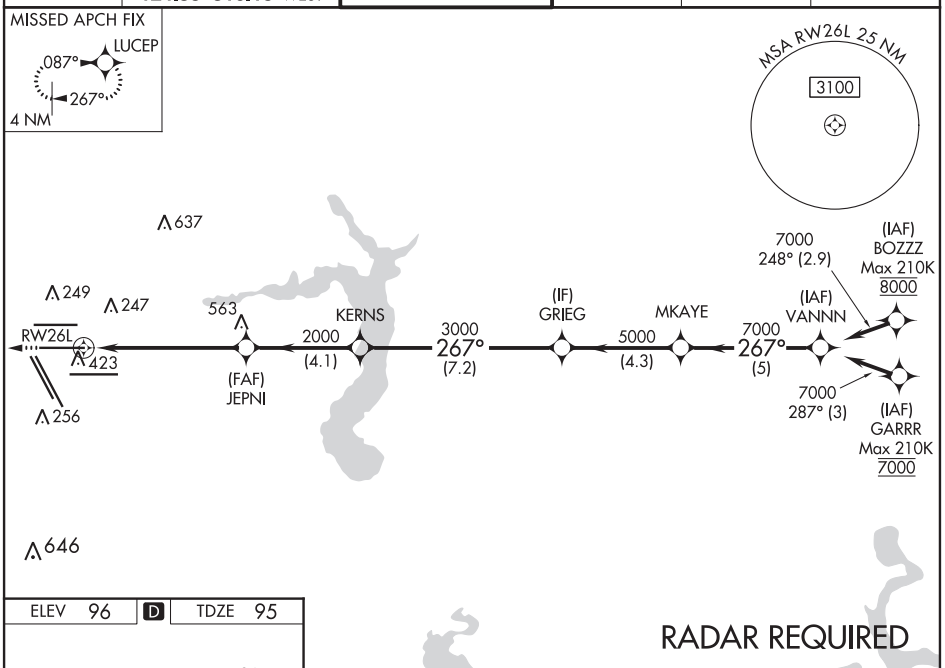
WAAS CH 49226 W26D	APP CRS 267°	Rwy ldg 9402 TDZE 95 Apt Elev 96

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -3°C (27°F) or above 54°C (130°F). For inop ALSF, increase LPV Cat E visibility to RVR 4000, LNAV/VNAV Cat E visibility to 1⅝, and LNAV Cat E visibility to 1¾. DME/DME RNP-0.3 NA. Simultaneous approach authorized with Rwy 26R and Rwy 27. LNAV procedure NA during simultaneous operations. Use of FD or AP providing RNAV track guidance required during simultaneous operations.

ALSF-2

MISSED APPROACH: Climb to 3000 direct LUCEP and hold.

D-ATIS	HOUSTON APP CON	HOUSTON TOWER	GND CON	CLNC DEL	CPDLC
124.05	120.05 379.1 EAST 124.35 316.15 WEST	125.35 290.2	118.575	128.1	



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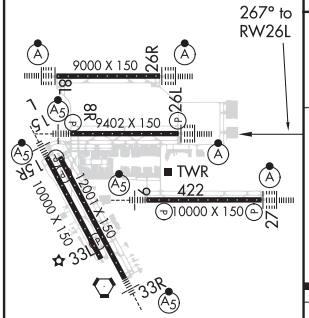
ELEV 96 | D | TDZE 95



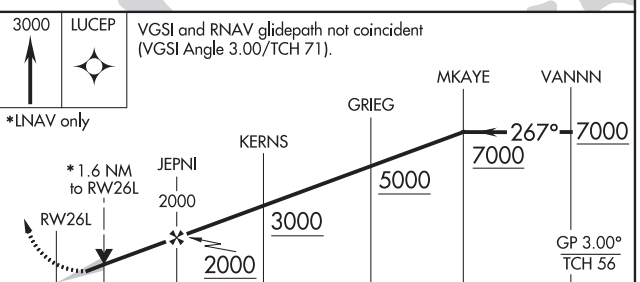
TDZ/CL Rwys 8R, 8L, 15R, 26R, 26L, 27 and 33L
HIRL all Rwys

RADAR REQUIRED

3000 | LUCEP

VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 71).

*LNAV only



CATEGORY	A	B	C	D	E
LPV DA	295/18 200 (200-½)				
LNAV/VNAV DA	586/60 491 (500-1¼)				
LNAV MDA	680/24 585 (600-½)		680-1¼ 585 (600-1¼)		

WAAS CH 97726 W26A	APP CRS 267°	Rwy ldg 9000 TDZE 96 Apt Elev 96

RNAV (GPS) Z RWY 26R
GEORGE BUSH INTERCONTINENTAL/HOUSTON (IAH)

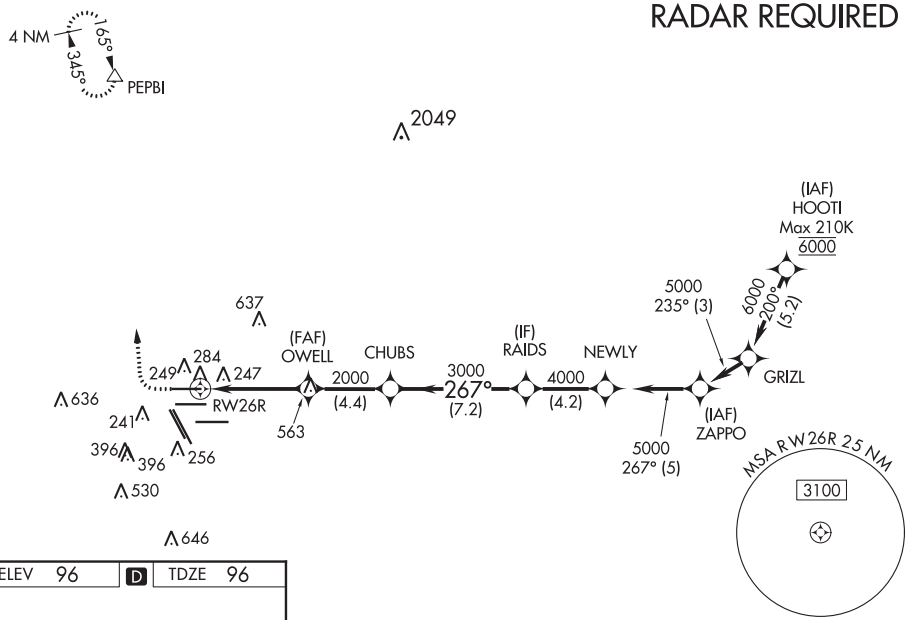
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -3°C (27°F) or above 54°C (130°F). For inop ALSF, increase LPV Cat E visibility to RVR 4000, LNAV/VNAV all Cats visibility to 1¼, and LNAV Cat C/D/E visibility to 1⅜. DME/DME RNP-0.3 NA. Simultaneous approach authorized with Rwy 26L and Rwy 27. LNAV procedure NA during simultaneous operations. Use of FD or AP providing RNAV track guidance required during simultaneous operations.

ALSF-2

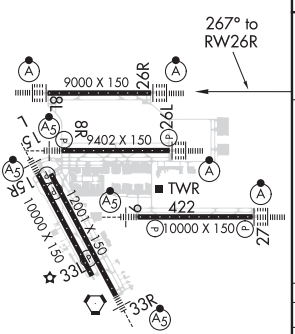
MISSED APPROACH: Climb to 600 then climbing right turn to 3000 direct PEPBI and hold.

D-ATIS	HOUSTON APP CON	HOUSTON TOWER	GND CON	CLNC DEL	CPDLC
124.05	120.05 379.1 EAST 124.35 316.15 WEST	120.72 290.2	121.7	128.1	

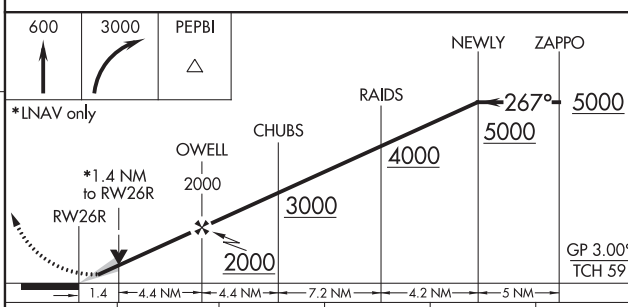
RADAR REQUIRED



ELEV 96	D	TDZE 96



TDZ/CL Rwys 8R, 8L, 15R, 26R, 26L, 27 and 33L
HIRL all Rwys



CATEGORY		A	B	C	D	E
LPV	DA	296/18 200 (200-½)				
LNAV/VNAV	DA	496/42 400 (400-⅞)				
LNAV	MDA	600/24 504 (600-½)		600/55 504 (600-1)		

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WAAS CH 69626 W27A	APP CRS 267°	Rwy ldg 10000 TDZE 87 Apt Elev 96

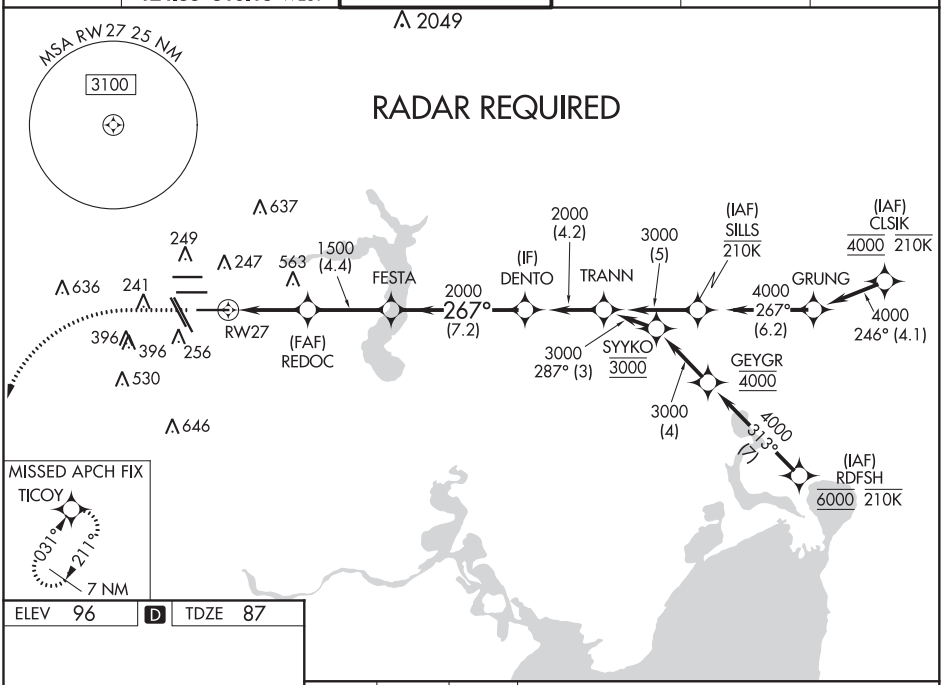
RNAV (GPS) Z RWY 27
GEORGE BUSH INTERCONTINENTAL/HOUSTON (IAH)

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -2°C (29°F) or above 54°C (130°F). Simultaneous approach authorized with Rwy 26L and Rwy 26R. DME/DME RNP-0.3 NA. For inop ALSF, increase LPV Cat E visibility to RVR 4000, LNAV/VNAV all Cats visibility to 1¼, and LNAV Cat C/D/E visibility to 1⅜. LNAV procedure NA during simultaneous operations. Use of FD or AP providing RNAV track guidance required during simultaneous operations.

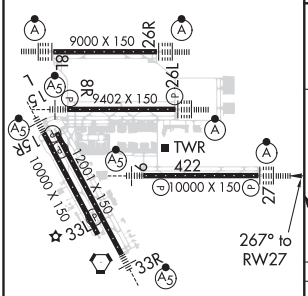
ALSF-2

MISSED APPROACH: Climb to 560 then climbing left turn to 3100 direct TICOY and hold.

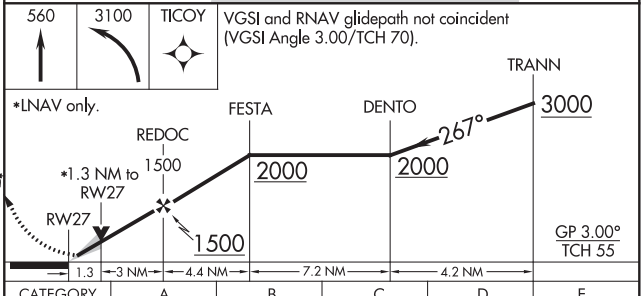
D-ATIS	HOUSTON APP CON	HOUSTON TOWER	GND CON	CLNC DEL	CPDLC
124.05	120.05 379.1 EAST 124.35 316.15 WEST	135.15 290.2	118.575	128.1	



ELEV 96 | D | TDZE 87



TDZ/CL Rwys 8R, 8L, 15R, 26R, 26L, 27 and 33L
HIRL all Rwys



CATEGORY		A	B	C	D	E
LPV	DA	287/18 200 (200-½)				
LNAV/VNAV	DA	477/45 390 (400-⅞)				
LNAV	MDA	560/24 473 (500-½)		560/50 473 (500-1)		

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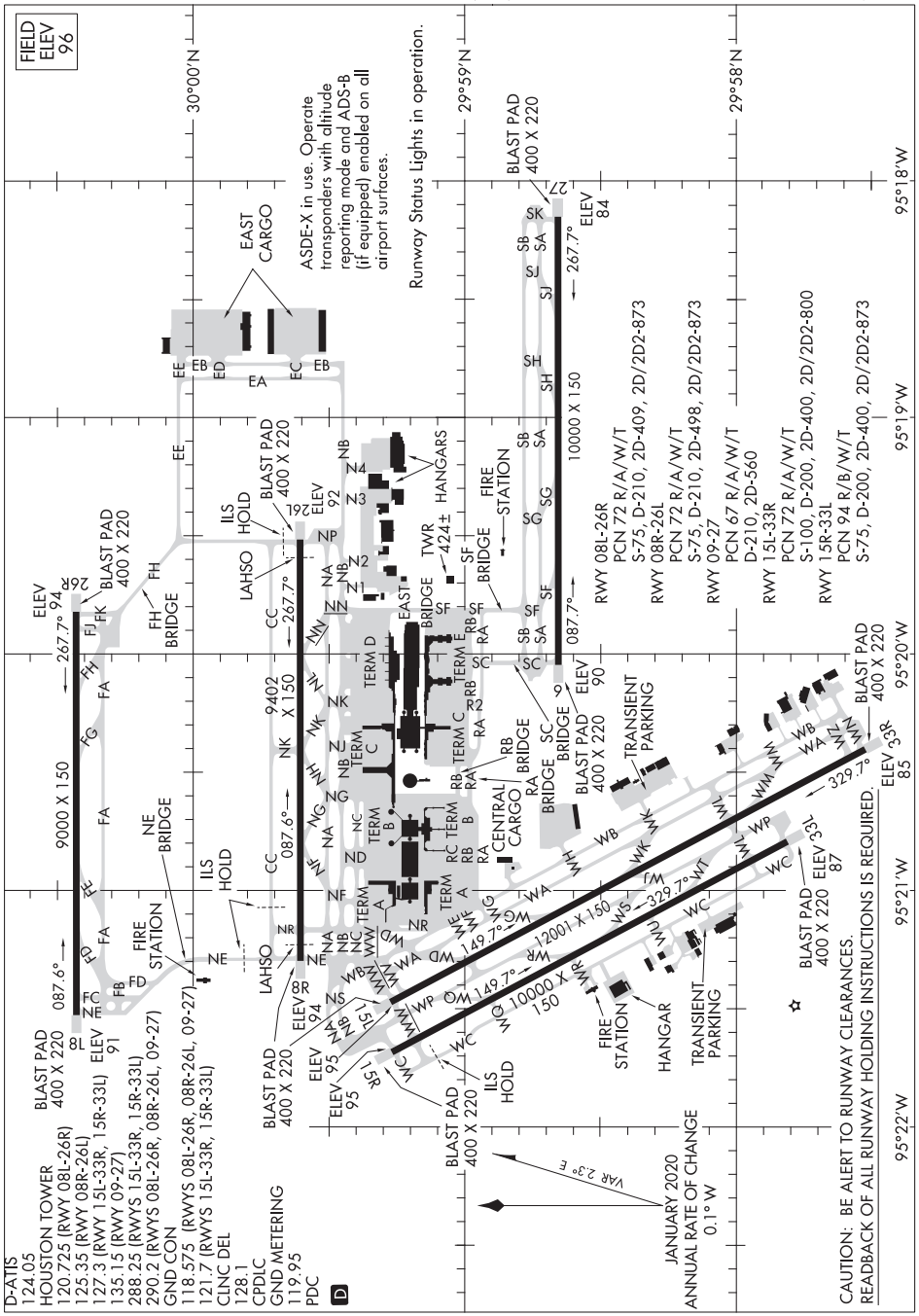
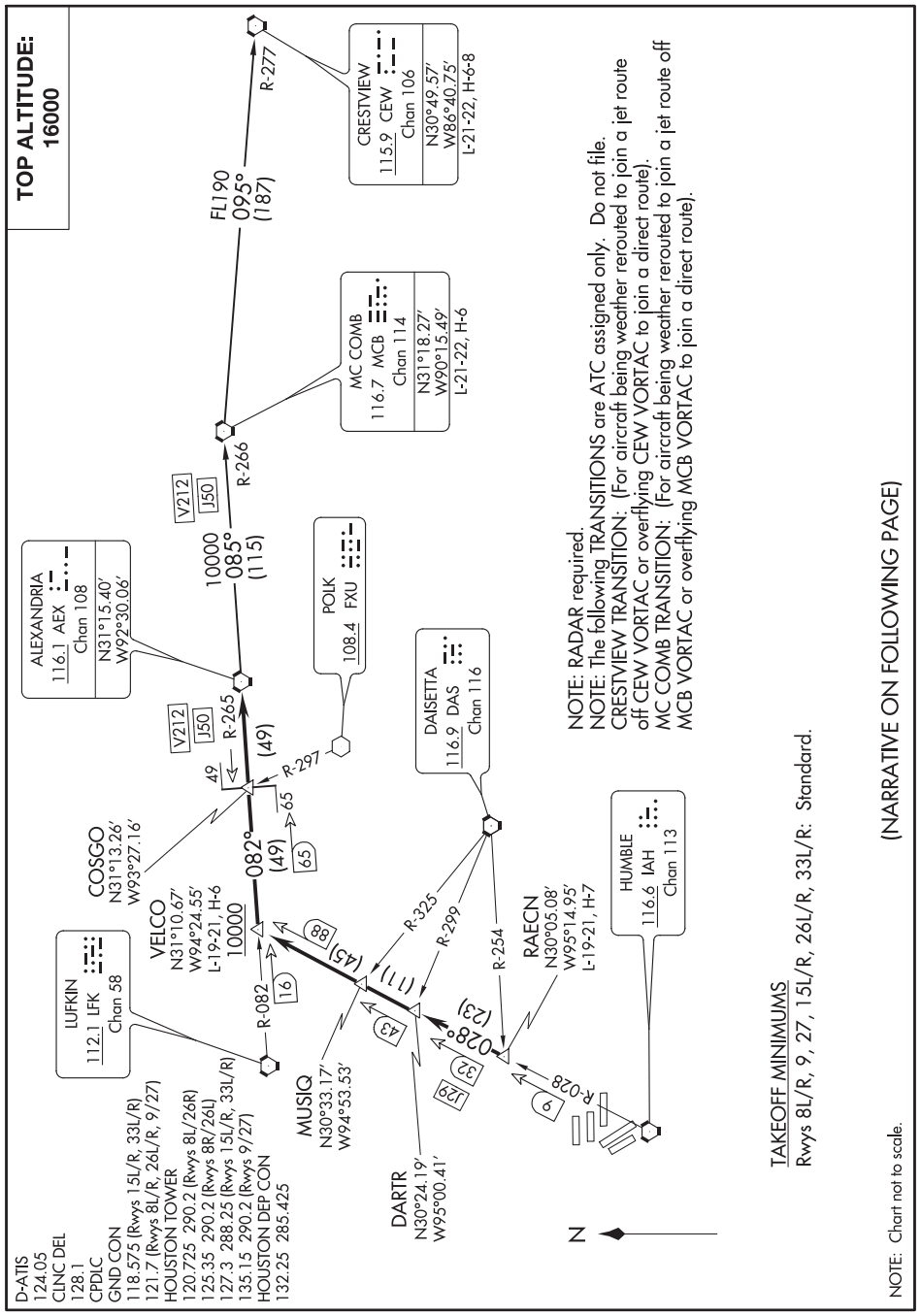

FIELD ELEV 96
30°00'N
29°59'N
29°58'N
95°18'W
95°19'W
95°20'W
95°21'W
95°22'W
ASDE-X in use. Operate transponders with altitude reporting mode and ADS-B (if equipped) enabled on all airport surfaces.
Runway Status Lights in operation.
EAST CARGO
BLAST PAD 400 X 220
ELEV 84
ELEV 92
ELEV 90
ELEV 91
ELEV 94
ELEV 95
ELEV 87
ELEV 85
10000 X 150
9000 X 150
9402 X 150
12001 X 150
10000 X 150
267.7°
087.6°
329.7°
149.7°
RWY 08L-26R
PCN 72 R/A/W/T
S-75, D-210, 2D-409, 2D/2D2-873
RWY 08R-26L
PCN 72 R/A/W/T
S-75, D-210, 2D-498, 2D/2D2-873
RWY 09-27
PCN 67 R/A/W/T
D-210, 2D-560
RWY 15L-33R
PCN 72 R/A/W/T
S-100, D-200, 2D-400, 2D/2D2-800
RWY 15R-33L
PCN 94 R/B/W/T
S-75, D-200, 2D-400, 2D/2D2-873
TWR 424±
HANGARS
FIRE STATION
ILS HOLD
LAHSO
BRIDGE
TERM A
TERM B
TERM C
TERM D
TERM E
CENTRAL CARGO
TRANSIENT PARKING
HANGAR
VAR 2.3° E
JANUARY 2020
ANNUAL RATE OF CHANGE
0.1° W
CAUTION: BE ALERT TO RUNWAY CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.
D-ATIS
124.05
HOUSTON TOWER
120.725 (RWY 08L-26R)
125.35 (RWY 08R-26L)
127.3 (RWY 15L-33R, 15R-33L)
135.15 (RWY 09-27)
288.25 (RWYS 15L-33R, 15R-33L)
290.2 (RWYS 08L-26R, 08R-26L, 09-27)
GND CON
118.575 (RWYS 08L-26R, 08R-26L, 09-27)
121.7 (RWYS 15L-33R, 15R-33L)
CLNC DEL
128.1
CPDLC
GND METERING
119.95
PDC
D


TOP ALTITUDE: 16000
ALEXANDRIA
116.1 AEX
Chan 108
N31°15.40′
W92°30.06′
CRESTVIEW
115.9 CEW
Chan 106
N30°49.57′
W86°40.75′
L-21-22, H-6-8
MC COMB
116.7 MCB
Chan 114
N31°18.27′
W90°15.49′
L-21-22, H-6
POLK
108.4 FXU
DAISETTA
116.9 DAS
Chan 116
HUMBLE
116.6 IAH
Chan 113
LUFKIN
112.1 LFK
Chan 58
COSGO
N31°13.26′
W93°27.16′
VELCO
N31°10.67′
W94°24.55′
L-19-21, H-6
MUSIQ
N30°33.17′
W94°53.53′
DARTR
N30°24.19′
W95°00.41′
RAECN
N30°05.08′
W95°14.95′
L-19-21, H-7
FL190
095°
(187)
10000
085°
(115)
082°
(49)
028°
(23)
V212
J50
R-265
R-266
R-277
R-297
R-082
R-325
R-299
R-254
R-028
NOTE: RADAR required.
NOTE: The following TRANSITIONS are ATC assigned only. Do not file.
CRESTVIEW TRANSITION: (For aircraft being weather rerouted to join a jet route off CEW VORTAC or overflying CEW VORTAC to join a direct route).
MC COMB TRANSITION: (For aircraft being weather rerouted to join a jet route off MCB VORTAC or overflying MCB VORTAC to join a direct route).
TAKEOFF MINIMUMS
Rwys 8L/R, 9, 27, 15L/R, 26L/R, 33L/R: Standard.
(NARRATIVE ON FOLLOWING PAGE)
NOTE: Chart not to scale.
N
D-ATIS 124.05
CLNC DEL 128.1
CPDLC
GND CON 118.575 (Rwys 15L/R, 33L/R) 121.7 (Rwys 8L/R, 26L/R, 9/27)
HOUSTON TOWER 120.725 290.2 (Rwys 8L/26R) 125.35 290.2 (Rwys 8R/26L) 127.3 288.25 (Rwys 15L/R, 33L/R) 135.15 290.2 (Rwys 9/27)
HOUSTON DEP CON 132.25 285.425

DEPARTURE ROUTE DESCRIPTION

TAKEOFF ALL RWYS: Climb on assigned heading for RADAR vectors to RAECN INT, maintain 16000. Expect filed altitude 10 minutes after departure, thence. . . .

. . . .on IAH R-028 to VELCO INT, cross VELCO INT at or above 10000, then right turn on LFK R-082 and AEX R-265 to AEX VORTAC.

CRESTVIEW TRANSITION (AEX2.CEW): From over AEX VORTAC on AEX R-085 and MCB R-266 to MCB VORTAC, then on MCB R-095 and CEW R-277 to CEW VORTAC.

MC COMB TRANSITION (AEX2.MCB): From over AEX VORTAC on AEX R-085 and MCB R-266 to MCB VORTAC.

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(BLTWY6.BLTWY) 19115

BLTWY SIX DEPARTURE (RNAV)

GEORGE BUSH INTERCONTINENTAL/HOUSTON (IAH)
AL-5461 (FAA)
HOUSTON, TEXAS

TOP ALTITUDE: 16000

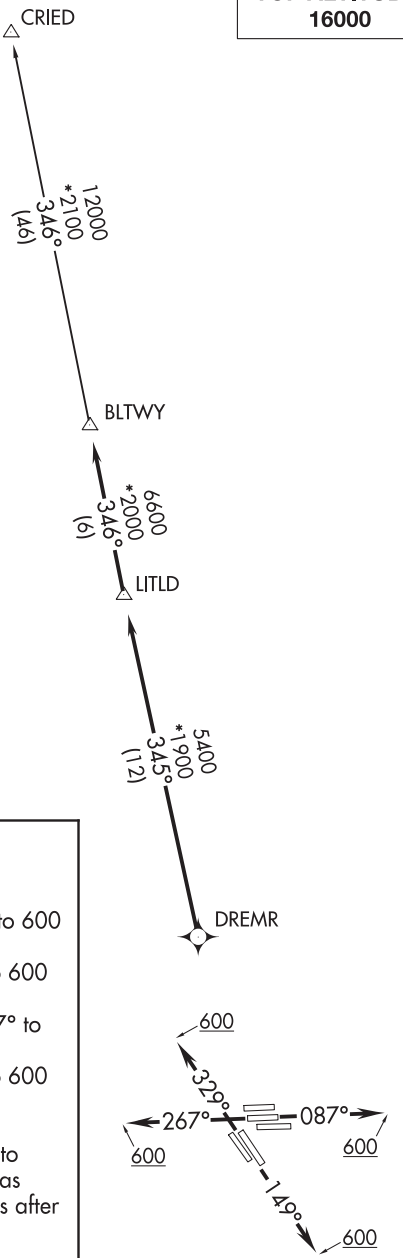
D-ATIS
124.05
CLNC DEL
128.1
CPDLC
GND CON
118.575 (Rwys 8L/R, 26L/R, 9/27)
121.7 (Rwys 15L/R, 33L/R)
HOUSTON TOWER
120.725 290.2 (Rwys 8L/26R)
125.35 290.2 (Rwys 8R/26L)
127.3 288.25 (Rwys 15L/R, 33L/R)
135.15 290.2 (Rwys 9/27)
HOUSTON DEP CON
132.25 285.425

NOTE: RADAR required.

NOTE: DME/DME/IRU or GPS required.

NOTE: RNAV 1.

TAKEOFF MINIMUMS
Rwys 8L/R, 9, 15L/R, 26L/R, 27, 33L/R:
Standard with minimum climb of 500′ per NM to 600.



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWYS 8L/R, 9: Climb heading 087° to 600 for RADAR vectors to DREMR, thence . . . .
TAKEOFF RWYS 15L/R: Climb heading 149° to 600 for RADAR vectors to DREMR, thence . . . .
TAKEOFF RWYS 26L/R, 27: Climb heading 267° to 600 for RADAR vectors to DREMR, thence . . . .
TAKEOFF RWYS 33L/R: Climb heading 329° to 600 for RADAR vectors to DREMR, thence . . . .

. . . . on track 345° to LITLD, then on track 346° to BLTWY, then on (transition). Maintain 16000 or as assigned by ATC. Expect filed altitude 10 minutes after departure.

CRIED TRANSITION (BLTWY6.CRIED)

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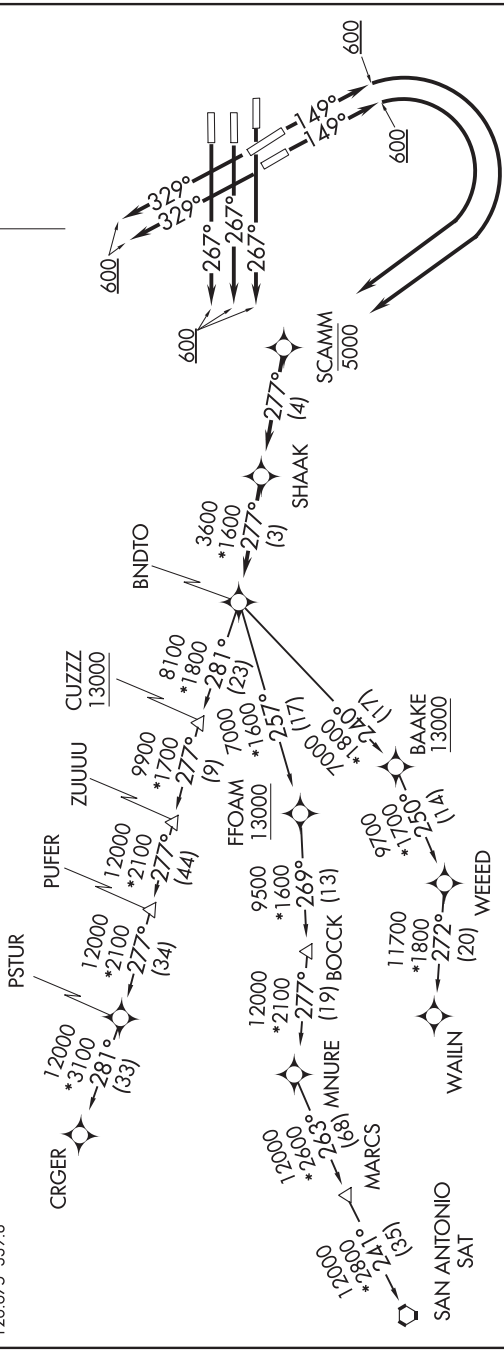
BLTWY SIX DEPARTURE (RNAV)
HOUSTON, TEXAS
(BLTWY6.BLTWY) 25APR19
GEORGE BUSH INTERCONTINENTAL/HOUSTON (IAH)

TOP ALTITUDE: 16000

TAKEOFF MINIMUMS
Rwys 15L/R, 26L/R, 27 , 33L/R: Standard with minimum climb of 500' per NM to 1200.

NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV 1.
NOTE: For use during west flow at IAH, for east flow file the PITZZ DEPARTURE.

D-ATIS
124.05
CLNC DEL
128.1
CPDLC
GND CON
118.575 (Rwys 8L/R, 26L/R, 9, 27)
121.7 (Rwys 15L/R, 33L/R)
HOUSTON TOWER
120.725 290.2 (Rwys 8L, 26R)
125.35 290.2 (Rwys 8R, 26L)
127.3 288.25 (Rwys 15L/R, 33L/R)
135.15 290.2 (Rwys 9, 27)
HOUSTON DEP CON
126.675 339.8



NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

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DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 15L/R: Climb heading 149° to 600, then right turn direct to cross SCAMM at or below 5000, then on track 277° to SHAAK, thence . . . .
TAKEOFF RUNWAYS 26L/R, 27: Climb heading 267° to 600, expect RADAR vectors to SHAAK, thence . . . .
TAKEOFF RUNWAYS 33L/R: Climb heading 329° to 600, expect RADAR vectors to SHAAK, thence . . . .

. . . . on track 277° to BNDTO, then on (transition). Maintain 16000.
Expect filed altitude 10 minutes after departure.

CRGER TRANSITION (BNDTO5.CRGER)
MNURE TRANSITION (BNDTO5.MNURE)
SAN ANTONIO TRANSITION (BNDTO5.SAT)
WAILN TRANSITION (BNDTO5.WAILN)

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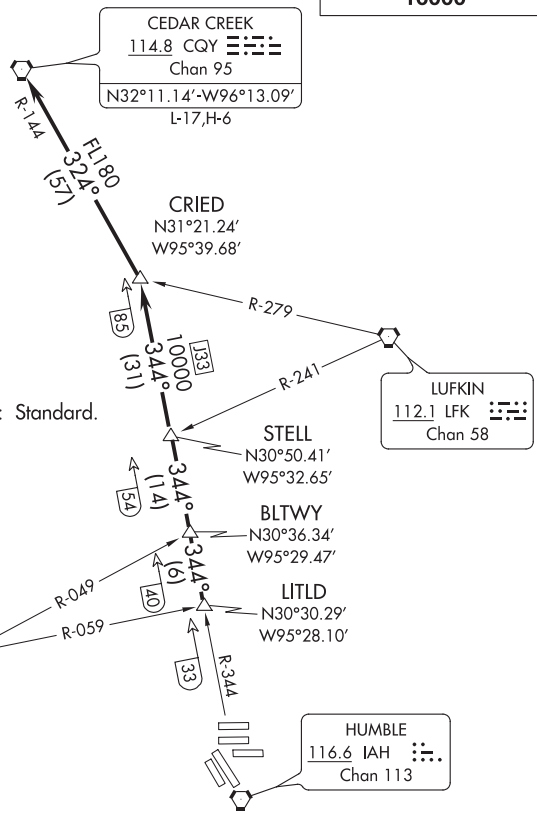
CRIED NINE DEPARTURE

D-ATIS
124.05
CLNC DEL
128.1
CPDLC
GND CON
118.575 (Rwys 8L/R, 26L/R, 9/27)
121.7 (Rwys 15L/R, 33L/R)
HOUSTON TOWER
120.725 290.2 (Rwys 8L/26R)
125.35 290.2 (Rwys 8R/26L)
127.3 288.25 (Rwys 15L/R, 33L/R)
135.15 290.2 (Rwys 9/27)
HOUSTON DEP CON
132.25 285.425

TOP ALTITUDE: 16000



TAKEOFF MINIMUMS
Rwys 8L/R, 9, 15L/R, 26L/R, 27, 33L/R: Standard.

NOTE: RADAR required.

NOTE: Chart not to scale.

T

DEPARTURE ROUTE DESCRIPTION

TAKEOFF ALL RUNWAYS: Climb on assigned heading for RADAR vectors to LITLD INT, maintain 16000. Expect filed altitude 10 minutes after departure, thence . . . .

. . . . on IAH R-344 to STELL INT, then on IAH R-344 to CRIED INT then left turn on CQY R-144 to CQY VORTAC.

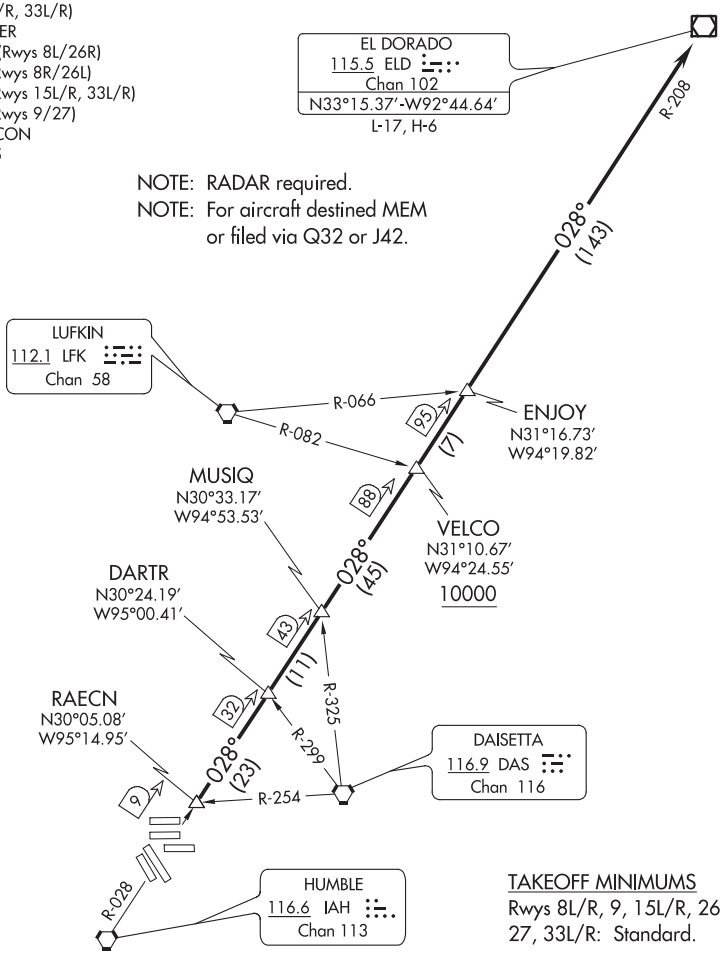
(ELD9.ELD) 18032

EL DORADO NINE DEPARTURE

GEORGE BUSH INTERCONTINENTAL/HOUSTON (IAH)
AL-5461 (FAA)
HOUSTON, TEXAS

D-ATIS
124.05
CLNC DEL
128.1
CPDLC
GND CON
118.575 (Rwys 8L/R, 26L/R, 9/27)
121.7 (Rwys 15L/R, 33L/R)
HOUSTON TOWER
120.725 290.2 (Rwys 8L/26R)
125.35 290.2 (Rwys 8R/26L)
127.3 288.25 (Rwys 15L/R, 33L/R)
135.15 290.2 (Rwys 9/27)
HOUSTON DEP CON
132.25 285.425

TOP ALTITUDE: 16000



NOTE: RADAR required.
NOTE: For aircraft destined MEM or filed via Q32 or J42.

TAKEOFF MINIMUMS
Rwys 8L/R, 9, 15L/R, 26L/R, 27, 33L/R: Standard.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF ALL RWYS: Climb on assigned heading for RADAR vectors to RAECN INT, maintain 16000. Expect filed altitude 10 minutes after departure, thence. . . .

. . . .on IAH R-028 and the ELD R-208 to ELD VOR/DME, cross VELCO INT at or above 10000.

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FLYZA FIVE DEPARTURE (RNAV)

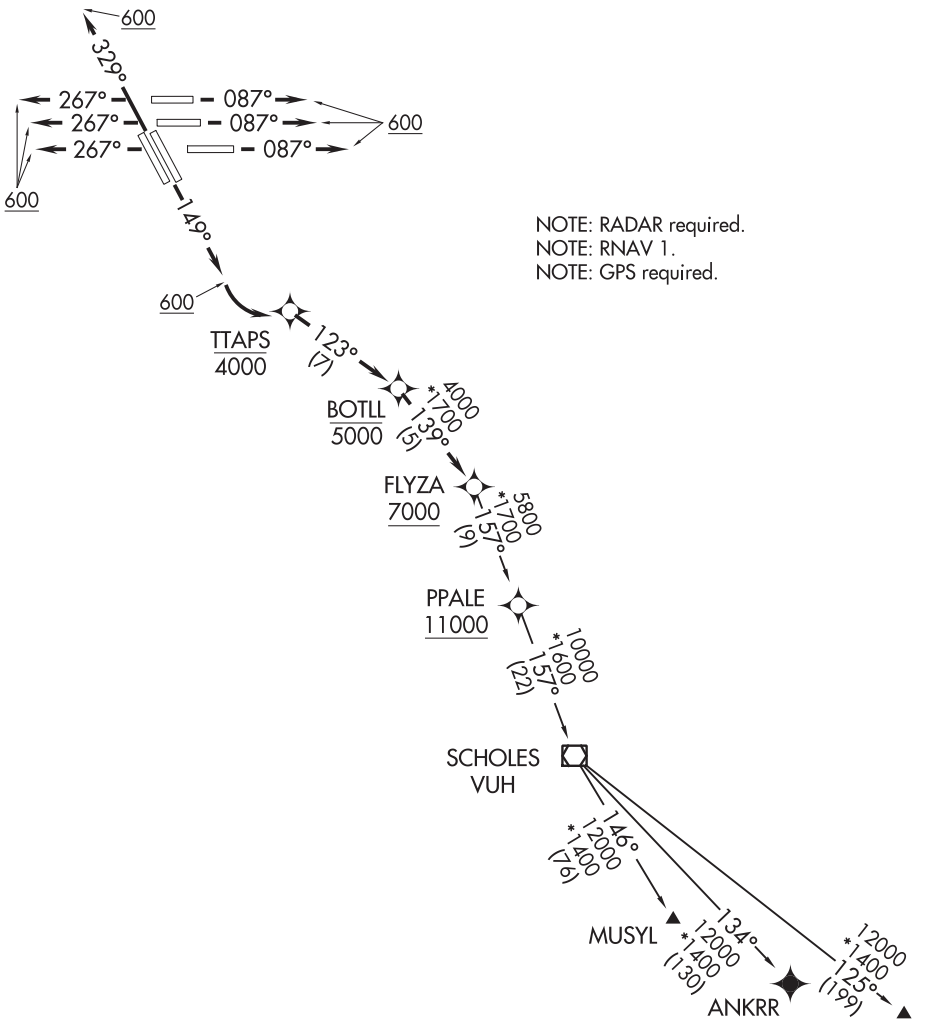
AL-5461 (FAA)

HOUSTON, TEXAS

D-ATIS
124.05
CLNC DEL
128.1
CPDLC
GND CON
118.575 (Rwys 8L/R, 26L/R, 9, 27)
121.7 (Rwys 15L/R, 33L/R)
HOUSTON TOWER
120.725 290.2 (Rwys 8L, 26R)
125.35 290.2 (Rwys 8R, 26L)
127.3 288.25 (Rwys 15L/R, 33L/R)
135.15 290.2 (Rwys 9, 27)
HOUSTON DEP CON
127.125 269.075

TOP ALTITUDE: 16000

TAKEOFF MINIMUMS
Rwys 8L/R, 9, 15L/R, 26L/R, 27, 33L/R:
Standard with minimum climb of 500′ per NM to 800.



NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: GPS required.

NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

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DEPATURE ROUTE DESCRIPTION

TAKEOFF RWYS 8L/R, 9: Climb heading 087° to 600, expect RADAR vectors to cross BOTLL at or below 5000, thence . . . .
TAKEOFF RWYS 15L/R: Climb heading 149° to 600, then left turn direct to cross TTAPS at or below 4000, then on track 123° to cross BOTLL at or below 5000, thence . . . .
TAKEOFF RWYS 26L/R, 27: Climb heading 267° to 600, expect RADAR vectors to cross BOTLL at or below 5000, thence . . . .
TAKEOFF RWYS 33L/R: Climb heading 329° to 600, expect RADAR vectors to cross BOTLL at or below 5000, thence . . . .

. . . . on track 139° to cross FLYZA at or above 7000, then on (transition). Maintain 16000. Expect filed altitude 10 minutes after departure.

ANKRR TRANSITION (FLYZA5.ANKRR)
KELPP TRANSITION (FLYZA5.KELPP)
MUSYL TRANSITION (FLYZA5.MUSYL)

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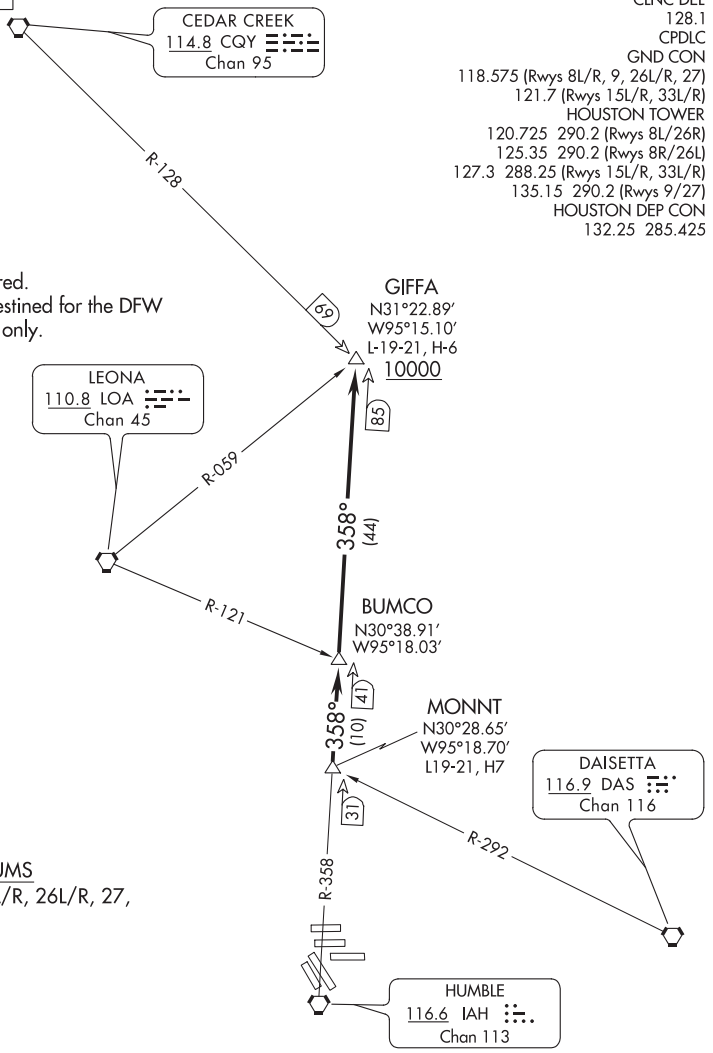
GIFFA NINE DEPARTURE

AL-5461 (FAA)

TOP ALTITUDE: 16000

D-ATIS
124.05
CLNC DEL
128.1
CPDLC
GND CON
118.575 (Rwys 8L/R, 9, 26L/R, 27)
121.7 (Rwys 15L/R, 33L/R)
HOUSTON TOWER
120.725 290.2 (Rwys 8L/R, 26R)
125.35 290.2 (Rwys 8R/26L)
127.3 288.25 (Rwys 15L/R, 33L/R)
135.15 290.2 (Rwys 9/27)
HOUSTON DEP CON
132.25 285.425

NOTE: RADAR required.
NOTE: For aircraft destined for the DFW terminal area only.



TAKEOFF MINIMUMS
Rwys 8L/R, 9, 15L/R, 26L/R, 27, 33L/R: Standard.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

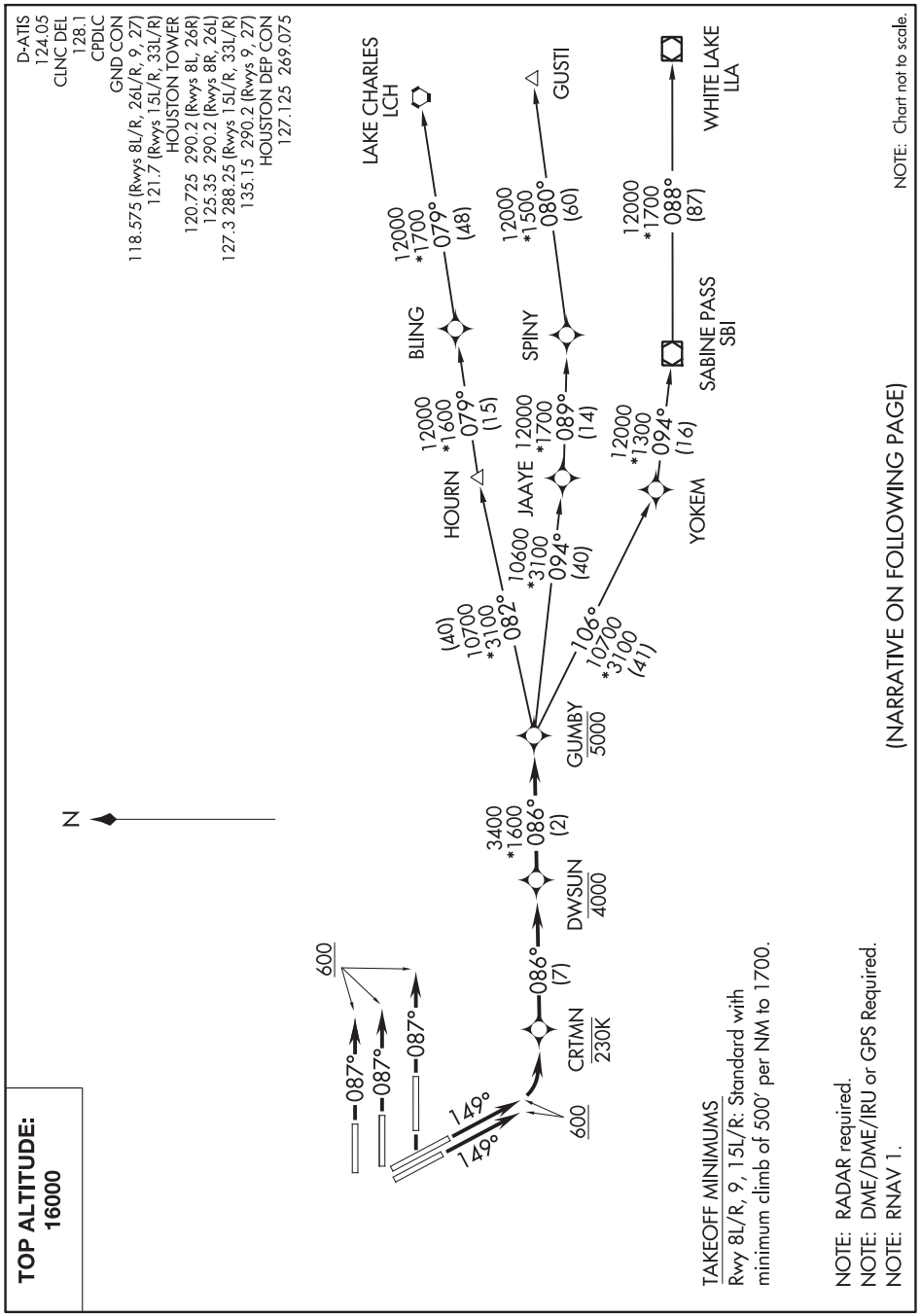
TAKEOFF ALL RWYS: Climb on assigned heading for RADAR vectors to MONNT INT, maintain 16000. Expect filed altitude 10 minutes after departure, thence . . . .

. . . . on IAH R-358 to cross GIFFA INT at or above 10000.

(GUMBY3.GUMBY) 19227 GEORGE BUSH INTERCONTINENTAL/HOUSTON (IAH)

GUMBY THREE DEPARTURE (RNAV) AL-5461(FAA)

HOUSTON, TEXAS



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GUMBY THREE DEPARTURE (RNAV) HOUSTON, TEXAS

(GUMBY3.GUMBY) 10DEC15 GEORGE BUSH INTERCONTINENTAL/HOUSTON (IAH)

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 8L/R, 9: Climb heading 087° to 600, expect RADAR vectors to cross DWSUN at or below 4000, thence. . . .
TAKEOFF RUNWAYS 15L/R: Climb heading 149° to 600, then left turn direct CRTMN, then on track 086° to cross DWSUN at or below 4000, thence. . . .

. . . .on track 086° to cross GUMBY at or below 5000, then on (transition). Maintain 16000. Expect filed altitude 10 minutes after departure.

GUSTI TRANSITION (GUMBY3.GUSTI)
LAKE CHARLES TRANSITION (GUMBY3.LCH)
WHITE LAKE TRANSITION (GUMBY3.LLA)

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HOODO SIX DEPARTURE (RNAV)

(HOODO6.HOODO) 25APR19

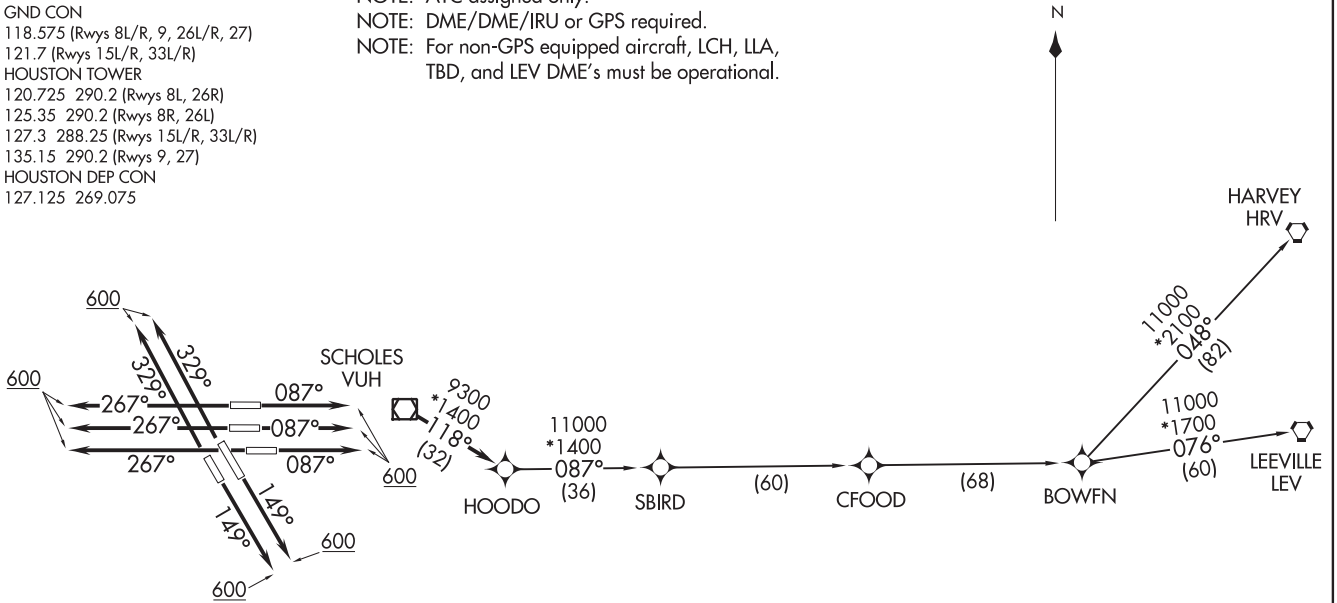
GEORGE BUSH INTERCONTINENTAL/HOUSTON (IAH)

HOUSTON, TEXAS

D-ATIS
124.05
CLNC DEL
128.1
CPDLC
GND CON
118.575 (Rwys 8L/R, 9, 26L/R, 27)
121.7 (Rwys 15L/R, 33L/R)
HOUSTON TOWER
120.725 290.2 (Rwys 8L, 26R)
125.35 290.2 (Rwys 8R, 26L)
127.3 288.25 (Rwys 15L/R, 33L/R)
135.15 290.2 (Rwys 9, 27)
HOUSTON DEP CON
127.125 269.075

NOTE: RNAV 1.
NOTE: RADAR required.
NOTE: ATC assigned only.
NOTE: DME/DME/IRU or GPS required.
NOTE: For non-GPS equipped aircraft, LCH, LLA, TBD, and LEV DME's must be operational.

TOP ALTITUDE: 16000



TAKEOFF MINIMUMS
Rwys 8L/R, 9, 15L/R, 26L/R, 27, 33L/R:
Standard with minimum climb of 500' per NM to 600.

NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

(HOODO6.HOODO) 19115
HOODO SIX DEPARTURE (RNAV)
GEORGE BUSH INTERCONTINENTAL/HOUSTON (IAH)
AL-5461 (FAA)
HOUSTON, TEXAS

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 8L/R, 9: Climb heading 087° to 600, for RADAR vectors to VUH VOR/DME, thence . . . .
TAKEOFF RUNWAYS 15L/R: Climb heading 149° to 600, for RADAR vectors to VUH VOR/DME, thence . . . .
TAKEOFF RUNWAYS 26L/R, 27: Climb heading 267° to 600, for RADAR vectors to VUH VOR/DME, thence . . . .
TAKEOFF RUNWAYS 33L/R: Climb heading 329° to 600, for RADAR vectors to VUH VOR/DME, thence . . . .

. . . . on track 118° to HOODO, then on (transition). Maintain 16000.
Expect filed altitude 10 minutes after departure.

BOWFN TRANSITION (HOODO6.BOWFN)
CFOOD TRANSITION (HOODO6.CFOOD)
HARVEY TRANSITION (HOODO6.HRV)
LEEVILLE TRANSITION (HOODO6.LEV)
SBIRD TRANSITION (HOODO6.SBIRD)

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(INDIE7.INDIE) 19115

GEORGE BUSH INTERCONTINENTAL/HOUSTON (IAH)

INDIE SEVEN DEPARTURE (RNAV)

HOUSTON, TEXAS

D-ATIS
124.05
CLNC DEL
128.1
CPDLC
GND CON
118.575 (Rwys 8L/R, 26L/R, 9/27)
121.7 (Rwys 15L/R, 33L/R)
HOUSTON TOWER
120.725 290.2 (Rwys 8L/26R)
125.35 290.2 (Rwys 8R/26L)
127.3 288.25 (Rwys 15L/R, 33L/R)
135.15 290.2 (Rwys 9/27)
HOUSTON DEP CON
132.25 285.425

TOP ALTITUDE: 16000

TPAKK

12000 *2100 028° (105)

INDIE

12000 *2400 (23)

WWELL

10700 *3100 026° (39)

SUSHI

6800 *3100 025° (10)

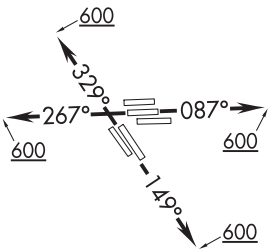
COLET

4900 *3100 016° (10)

RENNK

NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV 1.
NOTE: TPAKK TRANSITION: For non GPS equipped aircraft TNV DME must be operational.

TAKEOFF MINIMUMS
Rwys 8L/R, 9, 15L/R, 26L/R, 27, 33L/R:
Standard with minimum climb of 500′ per NM to 600.



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

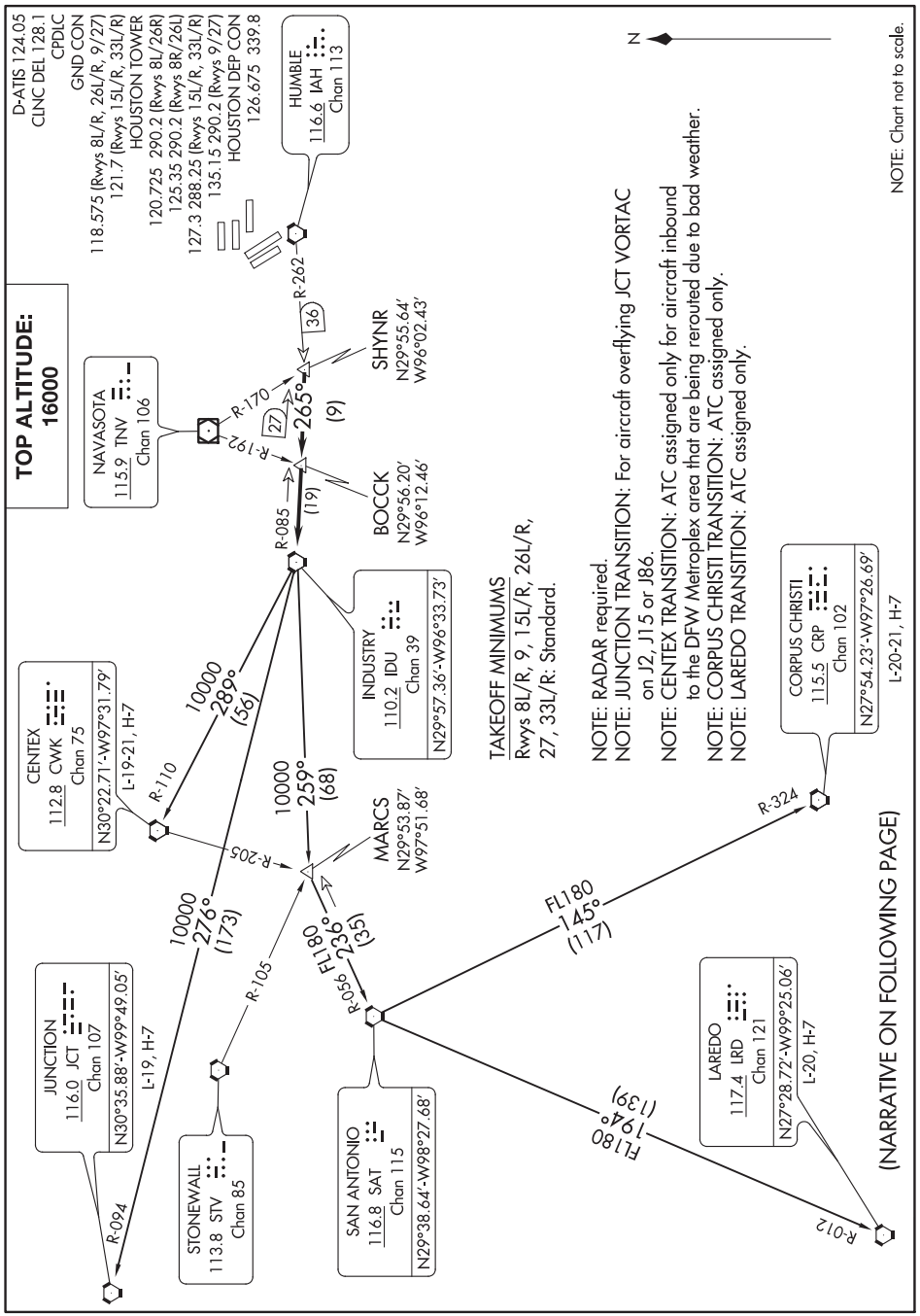
TAKEOFF RWYS 8L/R, 9: Climb heading 087° to 600 for RADAR vectors to RENNK, thence . . . .
TAKEOFF RWYS 15L/R: Climb heading 149° to 600 for RADAR vectors to RENNK, thence . . . .
TAKEOFF RWYS 26L/R, 27: Climb heading 267° to 600 for RADAR vectors to RENNK, thence . . . .
TAKEOFF RWYS 33L/R: Climb heading 329° to 600 for RADAR vectors to RENNK, thence . . . .

. . . . on track 016° to COLET, then on track 025° to SUSHI, then on track 026° to WWELL, then on track 026° to INDIE, then on (transition). Maintain 16000 or as assigned by ATC. Expect filed altitude 10 minutes after departure.

TPAKK TRANSITION (INDIE7.TPAKK)

SC-5, 25 FEB 2021 to 22 APR 2021

INDIE SEVEN DEPARTURE (RNAV)
HOUSTON, TEXAS
(INDIE7.INDIE) 25APR19
GEORGE BUSH INTERCONTINENTAL/HOUSTON (IAH)


D-ATIS 124.05
CLNC DEL 128.1
CPDLC
GND CON
118.575 (Rwys 8L/R, 26L/R, 9/27)
121.7 (Rwys 15L/R, 33L/R)
HOUSTON TOWER
120.725 290.2 (Rwys 8L/26R)
125.35 290.2 (Rwys 8R/26L)
127.3 288.25 (Rwys 15L/R, 33L/R)
135.15 290.2 (Rwys 9/27)
HOUSTON DEP CON
126.675 339.8
TOP ALTITUDE: 16000
HUMBLE
116.6 IAH
Chan 113
R-262
36
SHYNR
N29°55.64'
W96°02.43'
NAVASOTA
115.9 TNV
Chan 106
R-170
R-192
27
265°
(9)
BOCCK
N29°56.20'
W96°12.46'
R-085
(19)
INDUSTRY
110.2 IDU
Chan 39
N29°57.36'-W96°33.73'
CENTEX
112.8 CWK
Chan 75
N30°22.71'-W97°31.79'
L-19-21, H-7
R-110
10000
289°
(56)
10000
259°
(68)
MARCS
N29°53.87'
W97°51.68'
R-205
10000
276°
(173)
R-105
FL180
236°
(35)
R-056
JUNCTION
116.0 JCT
Chan 107
N30°35.88'-W99°49.05'
L-19, H-7
R-094
STONEWALL
113.8 STV
Chan 85
SAN ANTONIO
116.8 SAT
Chan 115
N29°38.64'-W98°27.68'
TAKEOFF MINIMUMS
Rwys 8L/R, 9, 15L/R, 26L/R,
27, 33L/R: Standard.
NOTE: RADAR required.
NOTE: JUNCTION TRANSITION: For aircraft overflying JCT VORTAC
on J2, J15 or J86.
NOTE: CENTEX TRANSITION: ATC assigned only for aircraft inbound
to the DFW Metroplex area that are being rerouted due to bad weather.
NOTE: CORPUS CHRISTI TRANSITION: ATC assigned only.
NOTE: LAREDO TRANSITION: ATC assigned only.
CORPUS CHRISTI
115.5 CRP
Chan 102
N27°54.23'-W97°26.69'
L-20-21, H-7
R-324
FL180
145°
(117)
LAREDO
117.4 LRD
Chan 121
N27°28.72'-W99°25.06'
L-20, H-7
FL180
194°
(139)
R-012
(NARRATIVE ON FOLLOWING PAGE)
N
NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF ALL RWYS: Climb on assigned heading for RADAR vectors to SHYNR INT, maintain 16000. Expect filed altitude 10 minutes after departure, thence . . . .

. . . . on IDU R-085 to BOCCK INT, then on IDU R-085 to IDU VORTAC.

CENTEX TRANSITION (IDU9.CWK): From over IDU VORTAC on IDU R-289 and CWK R-110 to CWK VORTAC.

CORPUS CHRISTI TRANSITION (IDU9.CRP): From over IDU VORTAC on IDU R-259 to MARCS INT, then on SAT R-056 to SAT VORTAC, then on SAT R-145 and CRP R-324 to CRP VORTAC.

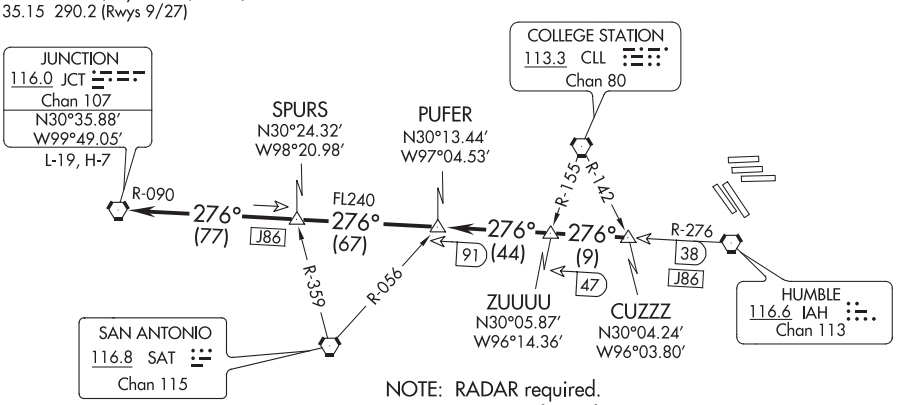
JUNCTION TRANSITION (IDU9.JCT): From over IDU VORTAC on IDU R-276 and JCT R-094 to JCT VORTAC.

LAREDO TRANSITION (IDU9.LRD): From over IDU VORTAC on IDU R-259 to MARCS INT, then on SAT R-056 to SAT VORTAC, then on SAT R-194 and LRD R-012 to LRD VORTAC.

JUNCTION ONE DEPARTURE

D-ATIS 124.05
CLNC DEL 128.1
CPDLC
HOUSTON DEP CON
126.675 339.8
GND CON
118.575 (Rwys 8L/R, 26L/R, 9/27)
121.7 (Rwys 15L/R, 33L/R)
HOUSTON TOWER
120.725 290.2 (Rwys 8L/26R)
125.35 290.2 (Rwys 8R/26L)
127.3 288.25 (Rwys 15L/R, 33L/R)
135.15 290.2 (Rwys 9/27)

TOP ALTITUDE: 16000



NOTE: RADAR required.
NOTE: For aircraft overflying JCT VORTAC on J86 filing FL240 or above.

TAKEOFF MINIMUMS
Rwys 8L/R, 9, 15L/R, 26L/R, 27, 33L/R: Standard.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF ALL RUNWAYS: Climb on assigned heading for RADAR vectors to CUZZZ INT. Maintain 16000. Expect filed altitude 10 minutes after departure. Thence . . . .

. . . . on IAH R-276 and JCT R-090 to JCT VORTAC.

SC-5, 25 FEB 2021 to 22 APR 2021
SC-5, 25 FEB 2021 to 22 APR 2021

(LCH5.LCH) 19227

GEORGE BUSH INTERCONTINENTAL/HOUSTON (IAH)

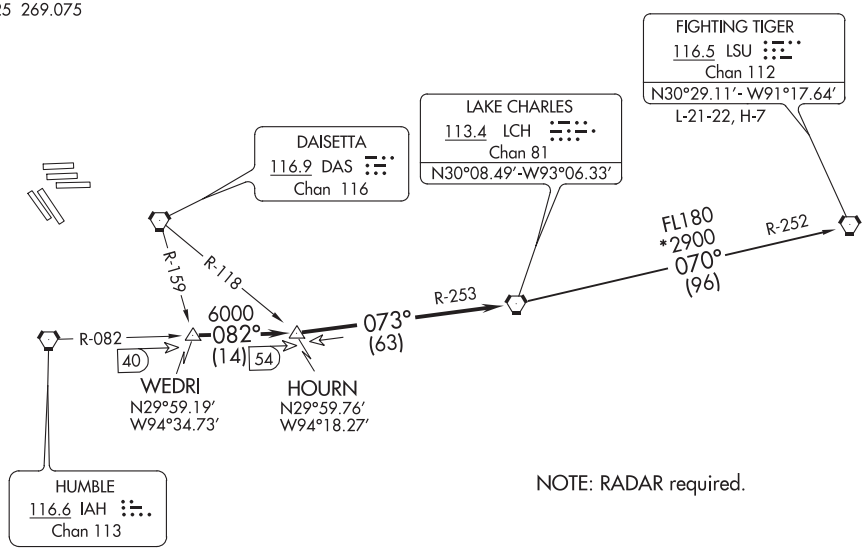
LAKE CHARLES FIVE DEPARTURE

AL-5461 (FAA)

HOUSTON, TEXAS

D-ATIS 124.05
CLNC DEL 128.1
CPDLC
GND CON
118.575 (Rwys 8L/R, 26L/R, 9/27)
121.7 (Rwys 15L/R, 33L/R)
HOUSTON TOWER
120.725 290.2 (Rwys 8L/26R)
125.35 290.2 (Rwys 8R/26L)
127.3 288.25 (Rwys 15L/R, 33L/R)
135.15 290.2 (Rwys 9/27)
HOUSTON DEP CON
127.125 269.075

TOP ALTITUDE: 16000



NOTE: RADAR required.

TAKEOFF MINIMUMS
Rwys 8L/R, 9, 15L/R, 26L/R, 27, 33L/R Standard.

NOTE: Chart not to scale.

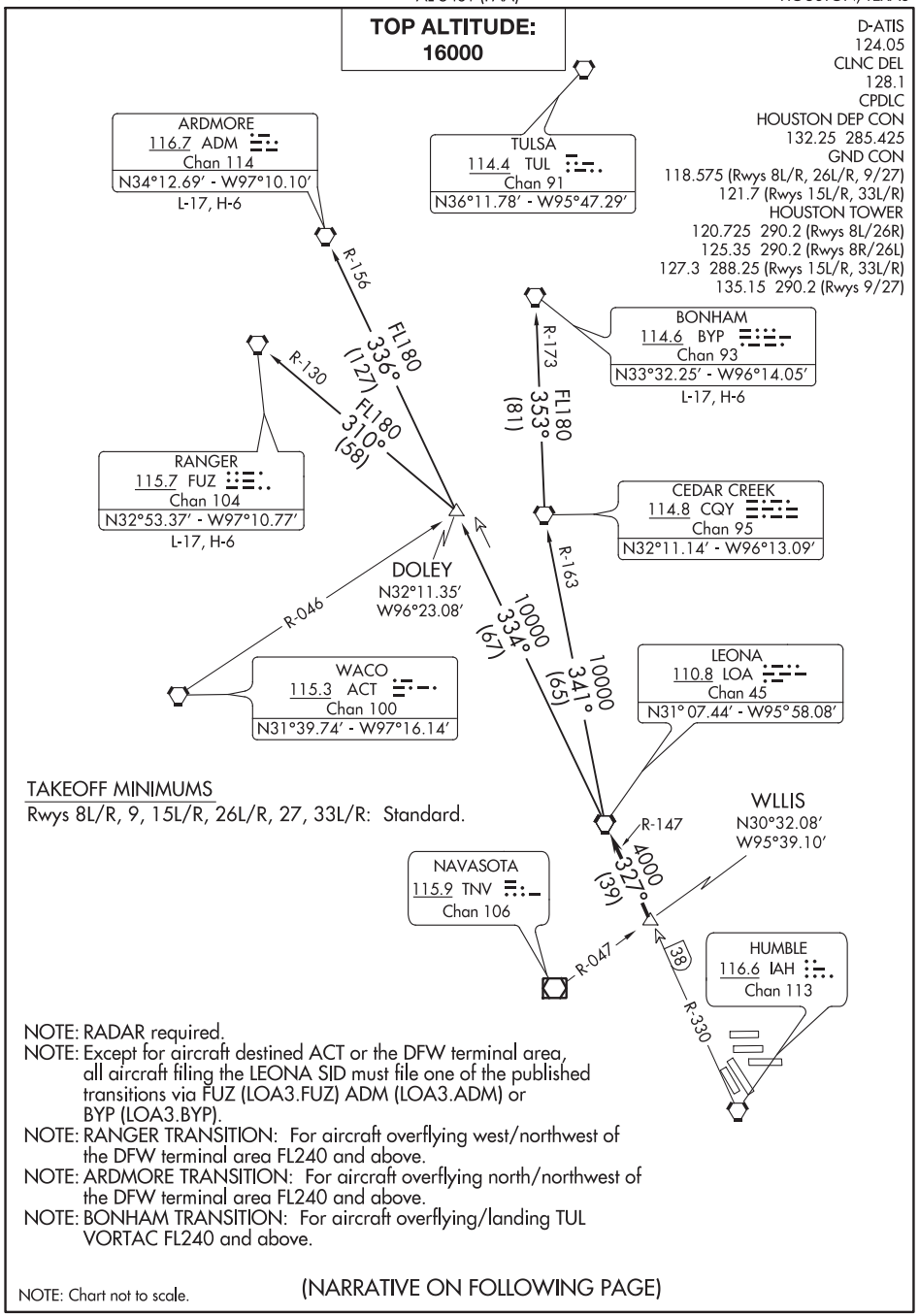
DEPARTURE ROUTE DESCRIPTION

Climb on assigned heading for RADAR vectors to WEDRI INT, maintain 16000. Expect filed altitude 10 minutes after departure, thence. . . .

. . . .on IAH R-082 to HOURN INT, then on LCH R-253 to LCH VORTAC.

FIGHTING TIGERS TRANSITION (LCH5.LSU): From over LCH VORTAC on LCH R-070 and LSU R-252 to LSU VORTAC.

SC-5, 25 FEB 2021 to 22 APR 2021



TAKEOFF MINIMUMS

Rwys 8L/R, 9, 15L/R, 26L/R, 27, 33L/R: Standard.

NOTE: RADAR required.

NOTE: Except for aircraft destined ACT or the DFW terminal area, all aircraft filing the LEONA SID must file one of the published transitions via FUZ (LOA3.FUZ) ADM (LOA3.ADM) or BYP (LOA3.BYP).

NOTE: RANGER TRANSITION: For aircraft overflying west/northwest of the DFW terminal area FL240 and above.

NOTE: ARDMORE TRANSITION: For aircraft overflying north/northwest of the DFW terminal area FL240 and above.

NOTE: BONHAM TRANSITION: For aircraft overflying/landing TUL VORTAC FL240 and above.

NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

SC-5, 25 FEB 2021 to 22 APR 2021
SC-5, 25 FEB 2021 to 22 APR 2021

DEPARTURE ROUTE DESCRIPTION

TAKEOFF ALL RUNWAYS: Climb on assigned heading for RADAR vectors to WLLIS INT, maintain 16000. Expect filed altitude 10 minutes after departure, thence . . . .

. . . . on LOA R-147 to LOA VORTAC.

ARDMORE TRANSITION (LOA3.ADM): From over LOA VORTAC on LOA R-334 to DOLEY INT, then on ADM R-156 to ADM VORTAC.

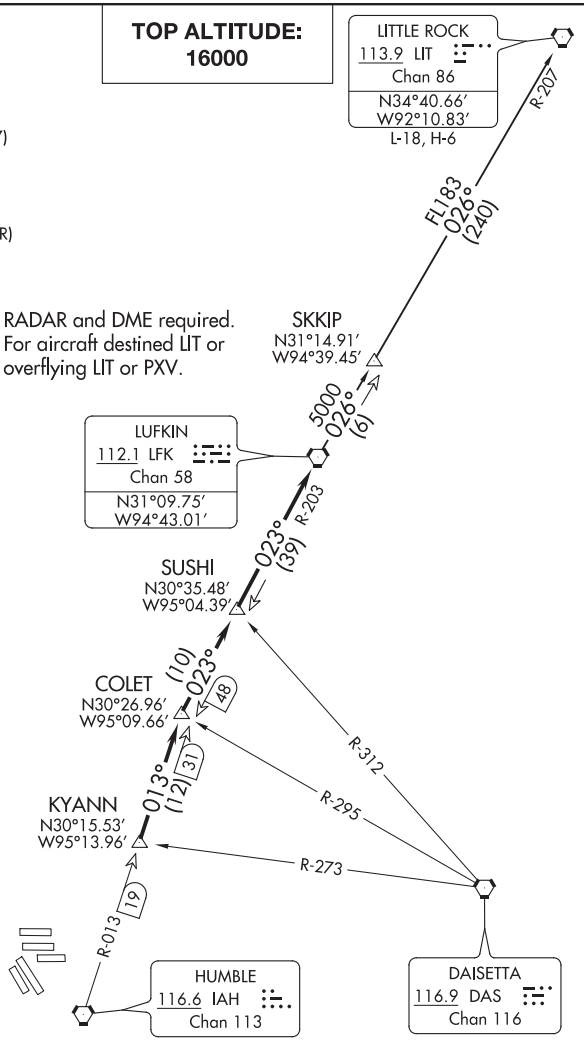
BONHAM TRANSITION (LOA3.BYP): From over LOA VORTAC on LOA R-341 and CQY R-163 to CQY VORTAC, then on BYP R-173 to BYP VORTAC.

RANGER TRANSITION (LOA3.FUZ): From over LOA VORTAC on LOA R-334 to DOLEY INT, then on FUZ R-130 to FUZ VORTAC.

D-ATIS
124.05
CLNC DEL
128.1
CPDLC
GND CON
118.575 (Rwys 8L/R, 26L/R, 9/27)
121.7 (Rwys 15L/R, 33L/R)
HOUSTON TOWER
120.725 290.2 (Rwys 8L/26R)
125.35 290.2 (Rwys 8R/26L)
127.3 288.25 (Rwys 15L/R, 33L/R)
135.15 290.2 (Rwys 9/27)
HOUSTON DEP CON
132.25 285.425

TOP ALTITUDE: 16000

NOTE: RADAR and DME required.
NOTE: For aircraft destined LIT or overflying LIT or PXV.



TAKEOFF MINIMUMS:
Rwys 8L/R, 9, 27, 15L/R, 26L/R, 33L/R: Standard.

NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

SC-5, 25 FEB 2021 to 22 APR 2021
SC-5, 25 FEB 2021 to 22 APR 2021

(LFK2.LFK) 18032

LUFKIN TWO DEPARTURE

GEORGE BUSH INTERCONTINENTAL/HOUSTON (IAH)
HOUSTON, TEXAS

AL-5461 (FAA)

DEPARTURE ROUTE DESCRIPTION

Climb on assigned heading for RADAR vectors to KYANN INT, maintain 16000. Expect filed altitude 10 minutes after departure, thence. . . .

. . . .on IAH R-013 to COLET INT, then right turn on LFK R-203 to LFK VORTAC.

LITTLE ROCK TRANSITION (LFK2.LIT): From over LFK VORTAC on LFK R-026 to SKKIP INT, then on LFK R-026 and LIT R-207 to LIT VORTAC.

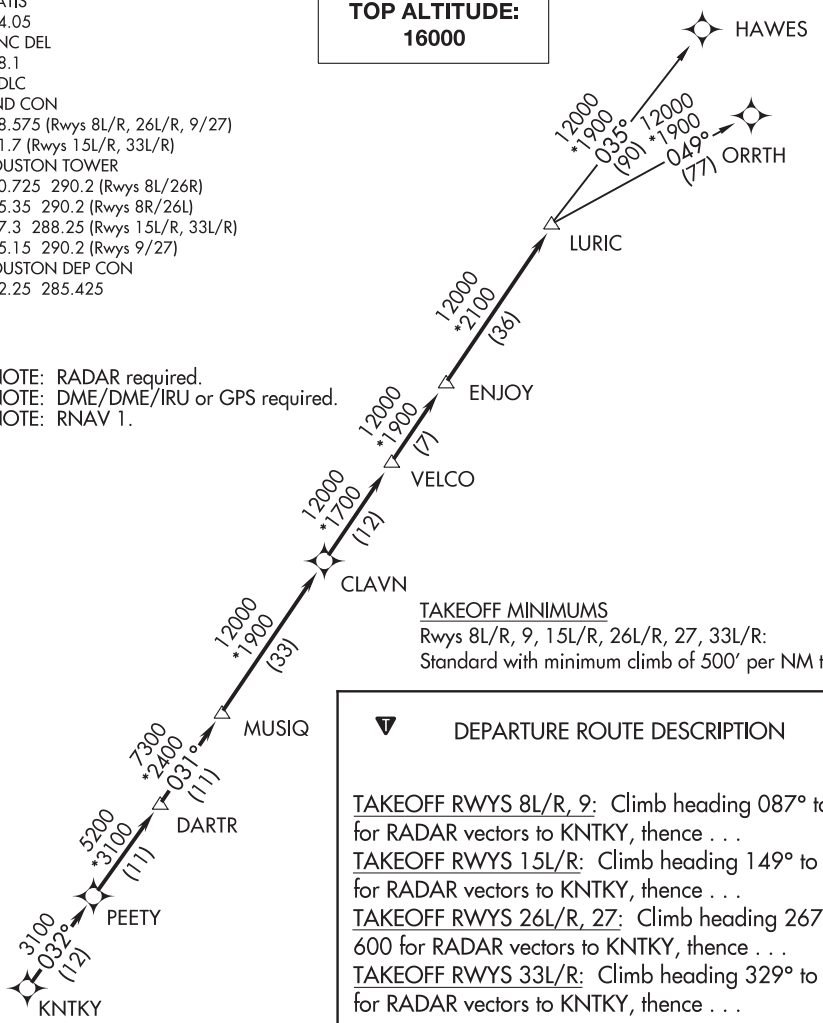
SC-5, 25 FEB 2021 to 22 APR 2021

SC-5, 25 FEB 2021 to 22 APR 2021

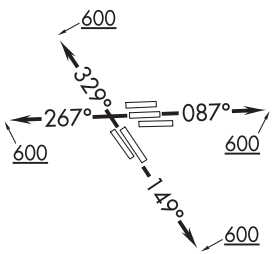
D-ATIS
124.05
CLNC DEL
128.1
CPDLC
GND CON
118.575 (Rwys 8L/R, 26L/R, 9/27)
121.7 (Rwys 15L/R, 33L/R)
HOUSTON TOWER
120.725 290.2 (Rwys 8L/26R)
125.35 290.2 (Rwys 8R/26L)
127.3 288.25 (Rwys 15L/R, 33L/R)
135.15 290.2 (Rwys 9/27)
HOUSTON DEP CON
132.25 285.425

TOP ALTITUDE: 16000

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



TAKEOFF MINIMUMS
Rwys 8L/R, 9, 15L/R, 26L/R, 27, 33L/R:
Standard with minimum climb of 500′ per NM to 600.



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWYS 8L/R, 9: Climb heading 087° to 600 for RADAR vectors to KNTKY, thence . . .
TAKEOFF RWYS 15L/R: Climb heading 149° to 600 for RADAR vectors to KNTKY, thence . . .
TAKEOFF RWYS 26L/R, 27: Climb heading 267° to 600 for RADAR vectors to KNTKY, thence . . .
TAKEOFF RWYS 33L/R: Climb heading 329° to 600 for RADAR vectors to KNTKY, thence . . .

. . . . on track 032° to PEETY, then on track 032° to DARTR, then on track 031° to MUSIQ, then on track 031° to CLAVN, then on track 031° VELCO, then on track 031° to ENJOY, then on track 031° to LURIC, then on (transition). Maintain 16000 or as assigned by ATC. Expect filed altitude 10 minutes after departure.

HAWES TRANSITION (LURIC7.HAWES)
ORRTH TRANSITION (LURIC7.ORRTH)

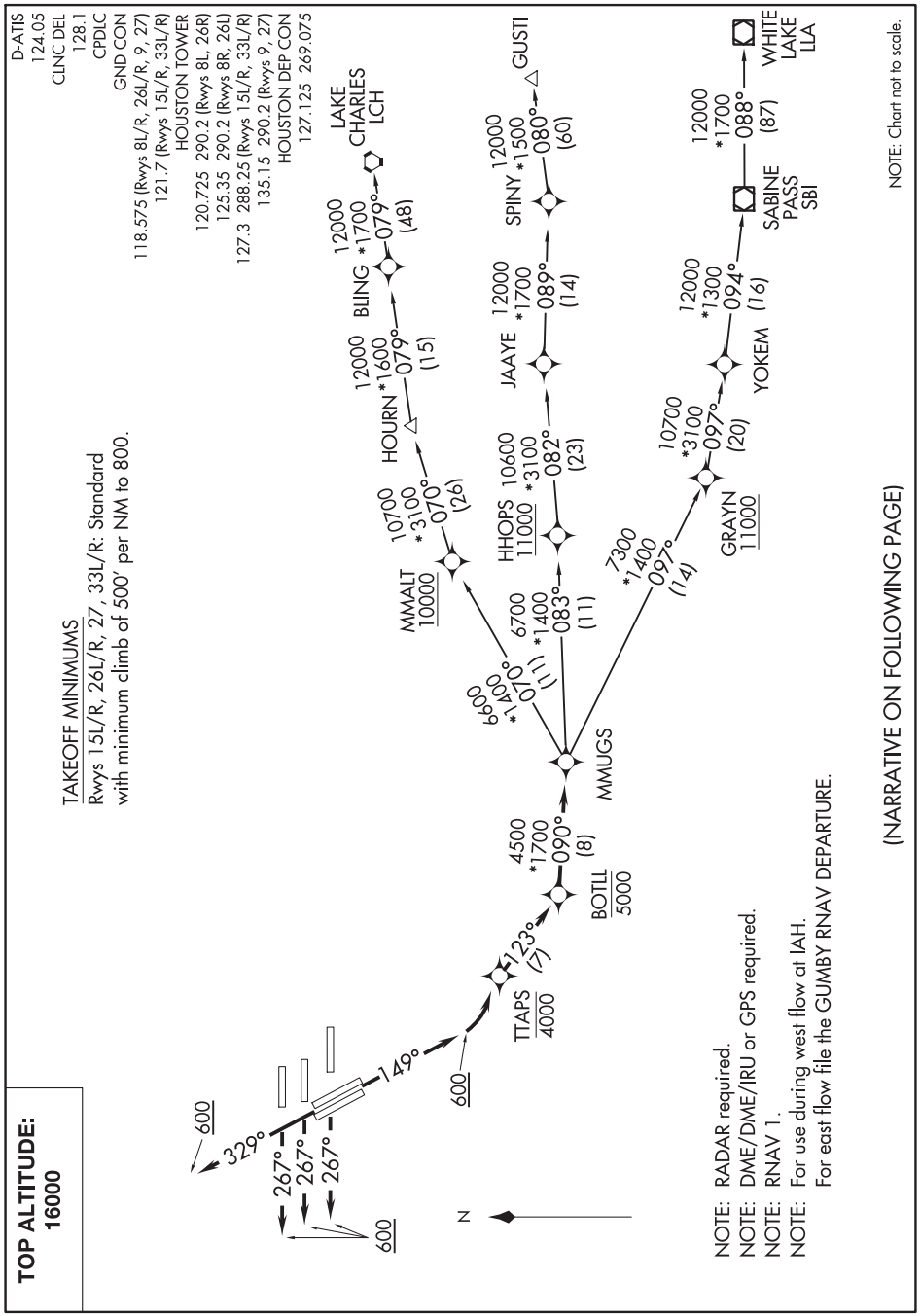
(MMUGS4.MMUGS) 19227

GEORGE BUSH INTERCONTINENTAL/HOUSTON (IAH)

MMUGS FOUR DEPARTURE (RNAV)

AL-5461 (FAA)

HOUSTON, TEXAS



SC-5, 25 FEB 2021 to 22 APR 2021

MMUGS FOUR DEPARTURE (RNAV)

HOUSTON, TEXAS

(MMUGS4.MMUGS) 10DEC15

GEORGE BUSH INTERCONTINENTAL/HOUSTON (IAH)

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 15L/R: Climb heading 149° to 600, then left turn direct to cross TTAPS at or below 4000, then on track 123° to cross BOTLL at or below 5000, thence . . . .
TAKEOFF RUNWAYS 26L/R, 27: Climb heading 267° to 600, expect RADAR vectors to cross BOTLL at or below 5000, thence . . . .
TAKEOFF RUNWAYS 33L/R: Climb heading 329° to 600, expect RADAR vectors to cross BOTLL at or below 5000, thence . . . .

. . . . on track 090° to MMUGS, then on (transition). Maintain 16000. Expect filed altitude 10 minutes after departure.

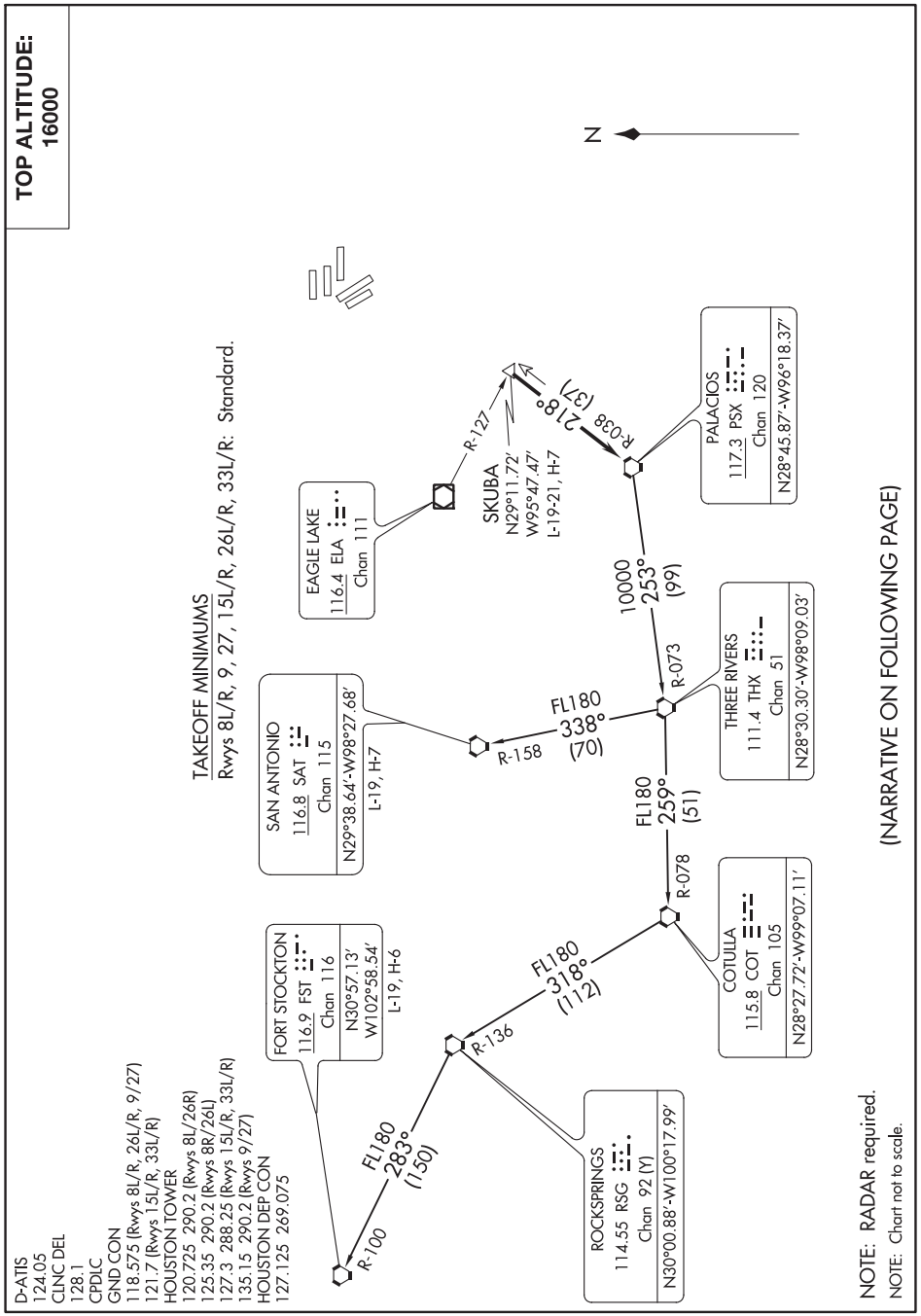
GUSTI TRANSITION (MMUGS4.GUSTI)
LAKE CHARLES TRANSITION (MMUGS4.LCH)
WHITE LAKE TRANSITION (MMUGS4.LLA)

SC-5, 25 FEB 2021 to 22 APR 2021

(PSX1.PSX) 20254

PALACIOS ONE DEPARTURE

GEORGE BUSH INTERCONTINENTAL/HOUSTON (IAH)
AL-5461 (FAA)
HOUSTON, TEXAS



SC-5, 25 FEB 2021 to 22 APR 2021

PALACIOS ONE DEPARTURE

(PSX1.PSX) 20JUN19

HOUSTON, TEXAS
GEORGE BUSH INTERCONTINENTAL/HOUSTON (IAH)

DEPARTURE ROUTE DESCRIPTION

TAKEOFF ALL RUNWAYS: Climb on assigned heading for RADAR vectors to SKUBA INT, maintain 16000.
Expect filed altitude 10 minutes after departure, thence. . . .

. . . .on PSX R-038 to PSX VORTAC.

FORT STOCKTON TRANSITION (PSX1.FST): From over PSX VORTAC on PSX R-253 and THX R-073 to THX VORTAC, then on THX R-259 and COT R-078 to COT VORTAC, then on COT R-318 and RSG R-136 to RSG VORTAC, then on RSG R-283 and FST R-100 to FST VORTAC.

SAN ANTONIO TRANSITION (PSX1.SAT): From over PSX VORTAC on PSX R-253 and THX R-073 to THX VORTAC, then on SAT R-158 to SAT VORTAC.

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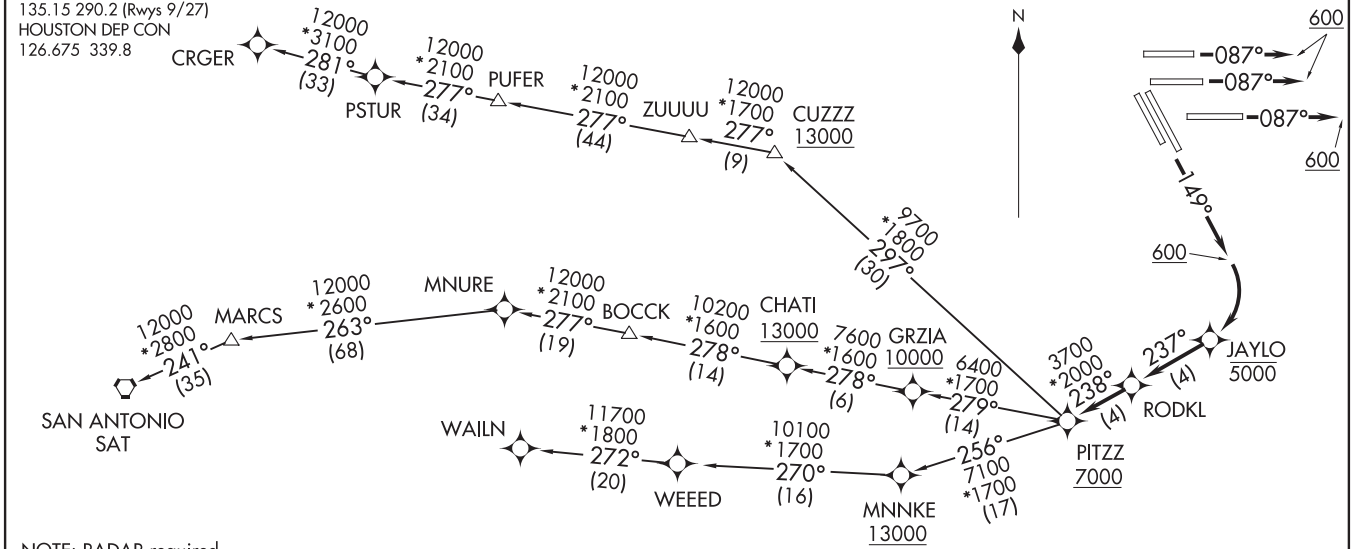
D-ATIS
124.05
CLNC DEL
128.1
CPDLC
GND CON
118.575 (Rwys 8L/R, 26L/R, 9/27)
121.7 (Rwys 15L/R, 33L/R)
HOUSTON TOWER
120.725 290.2 (Rwys 8L/26R)
125.35 290.2 (Rwys 8R/26L)
127.3 288.25 (Rwys 15L/R, 33L/R)
135.15 290.2 (Rwys 9/27)
HOUSTON DEP CON
126.675 339.8

TAKEOFF MINIMUMS
Rwys 8L/R, 9, 15L/R: Standard with minimum climb of 500′ per NM to 1500.



NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV 1.
NOTE: For use during east flow at IAH. For west flow file the BNDTO RNAV departure.

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.

TOP ALTITUDE: 16000

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 8L/R, 9: Climb heading 087° to 600, expect RADAR vectors to RODKL, thence. . . .
TAKEOFF RUNWAYS 15L/R: Climb heading 149° to 600, then right turn direct to cross JAYLO at or below 5000, then on track 237° to RODKL, thence. . . .

. . . .on track 238° to cross PITZZ at or above 7000, then on (transition). Maintain 16000. Expect filed altitude 10 minutes after departure.

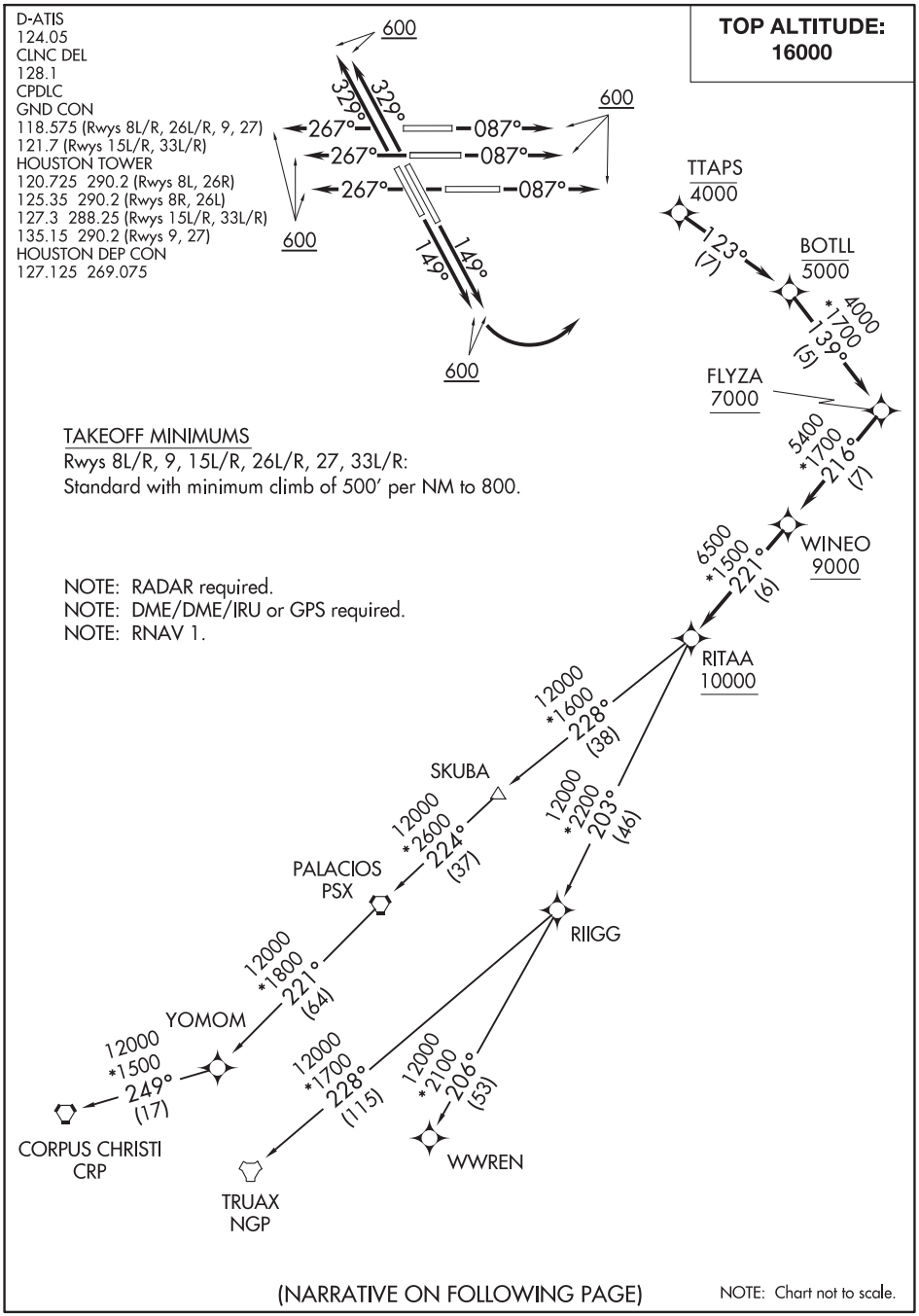
CRGER TRANSITION (PITZZ4.CRGER)
MNURE TRANSITION (PITZZ4.MNURE)
SAN ANTONIO TRANSITION (PITZZ4.SAT)
WAILN TRANSITION (PITZZ4.WALIN)

SC-5, 25 FEB 2021 to 22 APR 2021

(RITAA6.RITAA) 19339 GEORGE BUSH INTERCONTINENTAL/HOUSTON (IAH)

RITAA SIX DEPARTURE (RNAV)

AL-5461 (FAA) HOUSTON, TEXAS



TAKEOFF MINIMUMS

Rwys 8L/R, 9, 15L/R, 26L/R, 27, 33L/R:
Standard with minimum climb of 500′ per NM to 800.

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

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.

SC-5, 25 FEB 2021 to 22 APR 2021

RITAA SIX DEPARTURE (RNAV) HOUSTON, TEXAS
(RITAA6.RITAA) 05DEC19 GEORGE BUSH INTERCONTINENTAL/HOUSTON (IAH)

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 8L/R, 9: Climb on heading 087° to 600, for RADAR vectors to cross BOTLL at or below 5000, thence . . . .
TAKEOFF RUNWAYS 15L/R: Climb on heading 149° to 600, then left turn direct to cross TTAPS at or below 4000, then on track 123° to cross BOTLL at or below 5000, thence . . . .
TAKEOFF RUNWAYS 26L/R, 27: Climb on heading 267° to 600, for RADAR vectors to cross BOTLL at or below 5000, thence . . . .
TAKEOFF RUNWAYS 33L/R: Climb on heading 329° to 600, for RADAR vectors to cross BOTLL at or below 5000, thence . . . .

. . . . on track 139° to cross FLYZA at or above 7000, then on track 216° to cross WINEO at or above 9000, then on track 221° to cross RITAA at or above 10000, then on (transition). Maintain 16000. Expect filed altitude 10 minutes after departure.

CORPUS CHRISTI TRANSITION (RITAA6.CRP)
PALACIOS TRANSITION (RITAA6.PSX)
TRUAX TRANSITION (RITAA6.NGP)
WWREN TRANSITION (RITAA6.WWREN)
YOMOM TRANSITION (RITAA6.YOMOM)

SC-5, 25 FEB 2021 to 22 APR 2021
SC-5, 25 FEB 2021 to 22 APR 2021

(STRYA7.STRYA) 19115

GEORGE BUSH INTERCONTINENTAL/HOUSTON (IAH)

STRYA SEVEN DEPARTURE (RNAV)

AL-5461 (FAA)

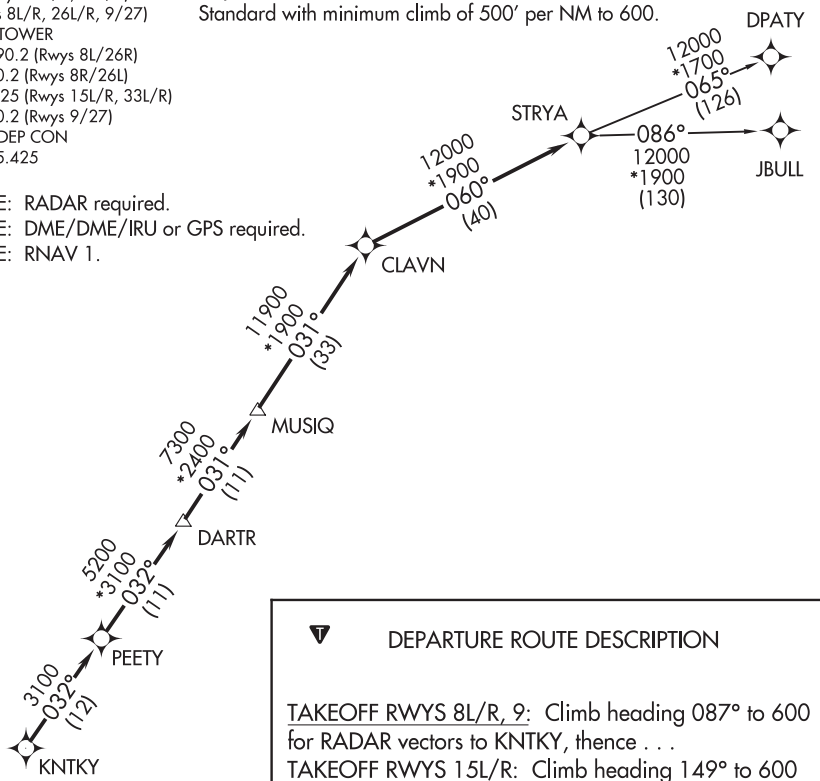
HOUSTON, TEXAS

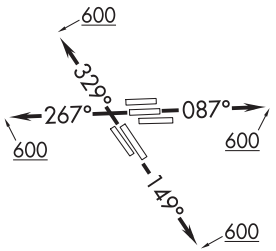
D-ATIS
124.05
CLNC DEL
128.1
CPDLC
GND CON
118.575 (Rwys 15L/R, 33L/R)
121.7 (Rwys 8L/R, 26L/R, 9/27)
HOUSTON TOWER
120.725 290.2 (Rwys 8L/26R)
125.35 290.2 (Rwys 8R/26L)
127.3 288.25 (Rwys 15L/R, 33L/R)
135.15 290.2 (Rwys 9/27)
HOUSTON DEP CON
132.25 285.425

TOP ALTITUDE: 16000

TAKEOFF MINIMUMS
Rwys 8L/R, 9, 15L/R, 26L/R, 27, 33L/R:
Standard with minimum climb of 500′ per NM to 600.

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





NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWYS 8L/R, 9: Climb heading 087° to 600 for RADAR vectors to KNTKY, thence . . .
TAKEOFF RWYS 15L/R: Climb heading 149° to 600 for RADAR vectors to KNTKY, thence . . .
TAKEOFF RWYS 26L/R, 27: Climb heading 267° to 600 for RADAR vectors to KNTKY, thence . . .
TAKEOFF RWYS 33L/R: Climb heading 329° to 600 for RADAR vectors to KNTKY, thence . . .

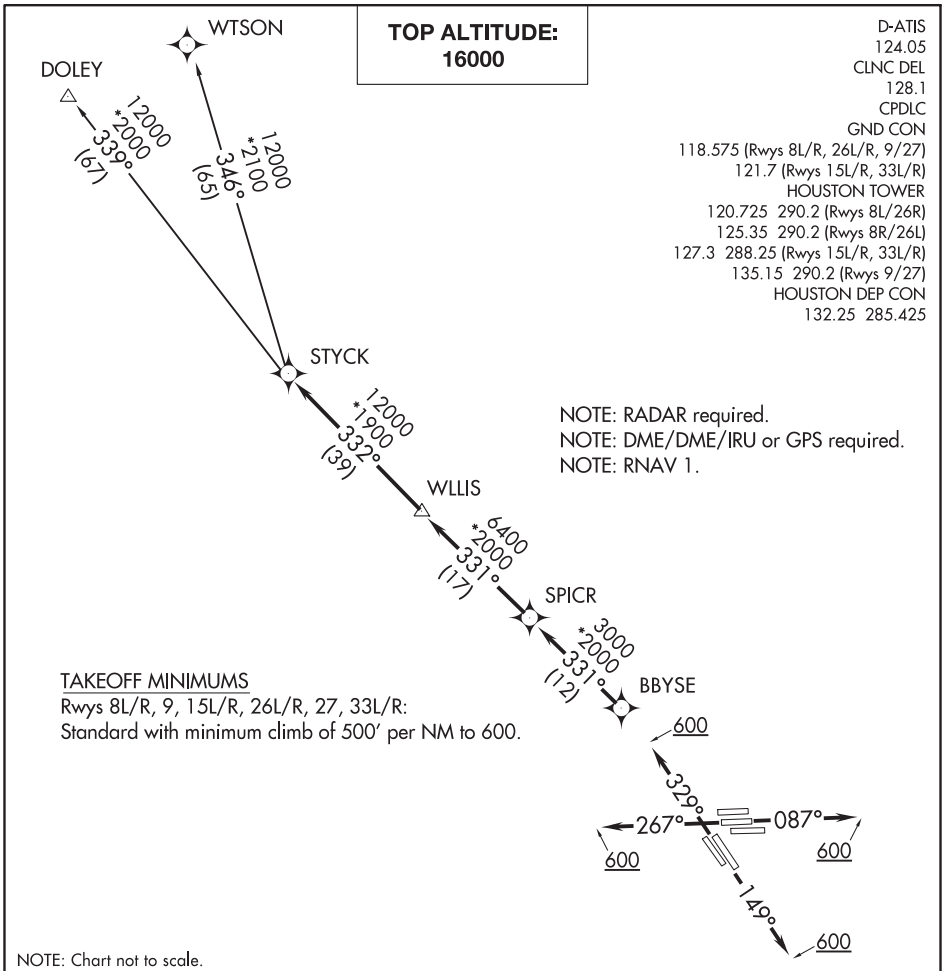
. . . . on track 032° to PEETY, then on track 032° to DARTR, then on track 031° to MUSIQ, then on track 031° to CLAVN, then on track 060° to STRYA, then on (transition). Maintain 16000 or as assigned by ATC. Expect filed altitude 10 minutes after departure.

DPATY TRANSITION (STRYA7.DPATY)
JBULL TRANSITION (STRYA7.JBULL)

SC-5, 25 FEB 2021 to 22 APR 2021
SC-5, 25 FEB 2021 to 22 APR 2021

STYCK SEVEN DEPARTURE (RNAV)

AL-5461 (FAA)



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWYS 8L/R, 9: Climb heading 087° to 600 for RADAR vectors to BBYSE, thence. . . .
TAKEOFF RWYS 15L/R: Climb heading 149° to 600 for RADAR vectors to BBYSE, thence. . . .
TAKEOFF RWYS 26L/R, 27: Climb heading 267° to 600 for RADAR vectors to BBYSE, thence. . . .
TAKEOFF RWYS 33L/R: Climb heading 329° to 600 for RADAR vectors to BBYSE, thence. . . .

. . . .on track 331° to SPICR, then on track 331° to WLLIS, then on track 332° to STYCK, then on (transition). Maintain 16000 or as assigned by ATC. Expect filed altitude 10 minutes after departure.

DOLEY TRANSITION (STYCK7.DOLEY)
WTSON TRANSITION (STYCK7.WTSON)

SC-5, 25 FEB 2021 to 22 APR 2021
SC-5, 25 FEB 2021 to 22 APR 2021

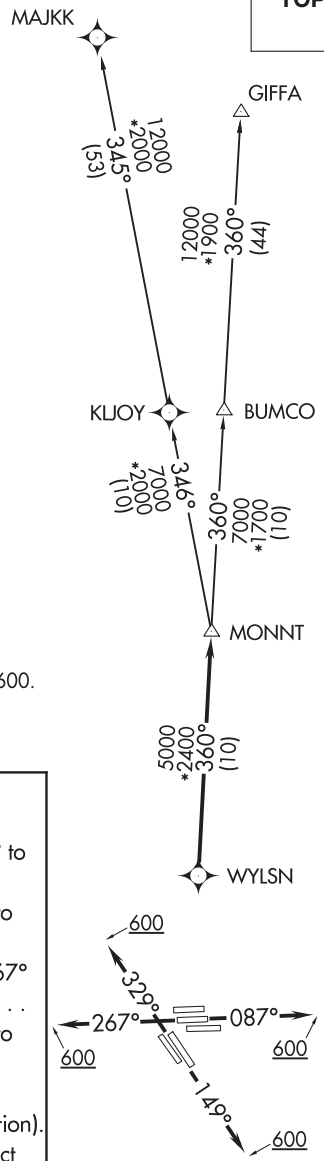
(WYLSN7.WYLSN) 19115 GEORGE BUSH INTERCONTINENTAL/HOUSTON (IAH)

WYLSN SEVEN DEPARTURE (RNAV) AL-5461 (FAA)

HOUSTON, TEXAS

D-ATIS
124.05
CLNC DEL
128.1
CPDLC
GND CON
118.575 (Rwys 8L/R, 26L/R, 9/27)
121.7 (Rwys 15L/R, 33L/R)
HOUSTON TOWER
120.725 290.2 (Rwys 8L/R/26R)
125.35 290.2 (Rwys 8R/26L)
127.3 288.25 (Rwys 15L/R, 33L/R)
135.15 290.2 (Rwys 9/27)
HOUSTON DEP CON
132.25 285.425

TOP ALTITUDE: 16000



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

TAKEOFF MINIMUMS
Rwys 8L/R, 9, 15L/R, 26L/R, 27, 33L/R:
Standard with minimum climb of 500′ per NM to 600.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWYS 8L/R, 9: Climb heading 087° to 600 for RADAR vectors to WYLSN, thence. . . .
TAKEOFF RWYS 15L/R: Climb heading 149° to 600 for RADAR vectors to WYLSN, thence. . . .
TAKEOFF RWYS 26L/R, 27: Climb heading 267° to 600 for RADAR vectors to WYLSN, thence. . . .
TAKEOFF RWYS 33L/R: Climb heading 329° to 600 for RADAR vectors to WYLSN, thence. . . .

. . . .on track 360° to MONNT, then on (transition). Maintain 16000 or as assigned by ATC. Expect filed altitude 10 minutes after departure.

GIFFA TRANSITION (WYLSN7.GIFFA)
MAJKK TRANSITION (WYLSN7.MAJKK)

NOTE: Chart not to scale.

SC-5, 25 FEB 2021 to 22 APR 2021

WAAS CH 49004 W18A	APP CRS 175°	Rwy ldg 6610 TDZE 166 Apt Elev 166

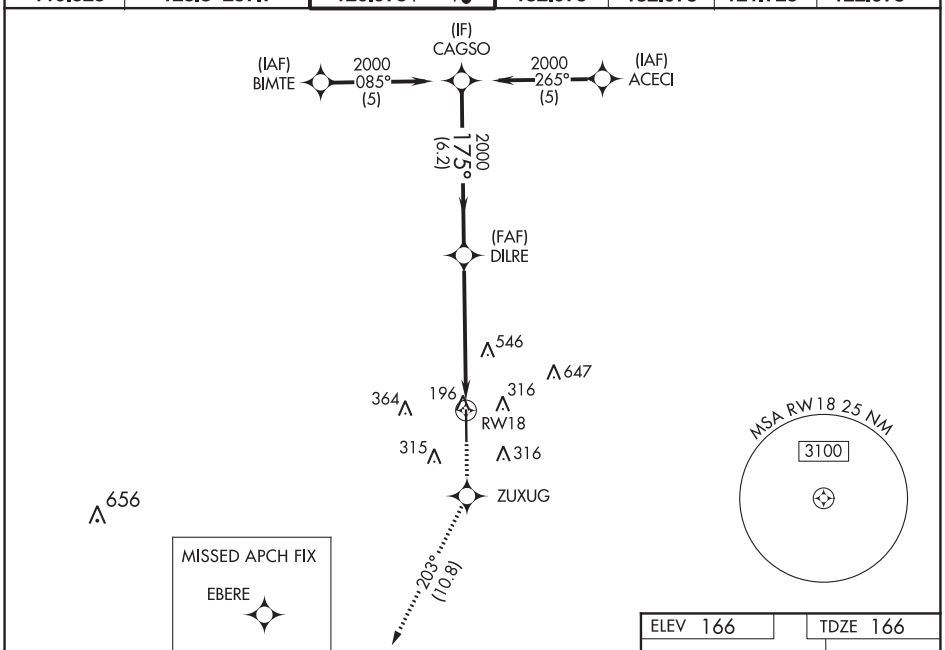
RNAV (GPS) RWY 18
HOUSTON EXECUTIVE (TME)

Baro-VNAV NA when using David Wayne Hooks Memorial altimeter setting. 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. VDP NA when using David Wayne Hooks Memorial altimeter setting. Helicopter visibility reduction below ¾ SM NA. When local altimeter setting not received, use David Wayne Hooks Memorial altimeter setting and increase all DA 57 feet and all MDA 60 feet; increase LNAV/VNAV all Cats and LNAV Cat C/D visibility ⅛ mile, and Circling Cat C/D visibility ¼ mile.

NA

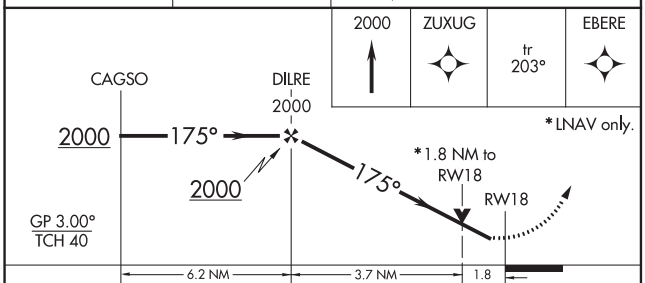
MISSED APPROACH: Climb to 2000 direct ZUXUG and on track 203° to EBERE and hold.

ATIS	HOUSTON APP CON	EXECUTIVE TOWER ★	GND CON	CLNC DEL	GCO	UNICOM
119.525	123.8 257.7	126.975 (CTAF) L	132.075	132.075	121.725	122.975



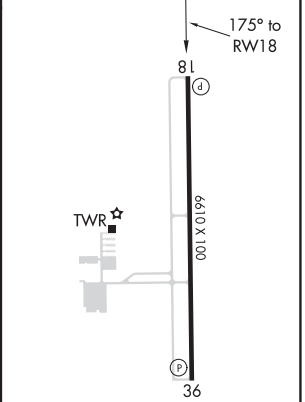
2000	ZUXUG	tr 203°	EBERE

* LNAV only.



CATEGORY	A	B	C	D
LPV DA	416-1 250 (300-1)			
LNAV/VNAV DA	708-2 542 (600-2)			
LNAV MDA	780-1 614 (700-1)		780-1¾ 614 (700-1¾)	
CIRCLING	820-1 654 (700-1)		820-1¾ 654 (700-1¾)	860-2¼ 694 (700-2¼)

ELEV 166 TDZE 166



REIL Rwys 18-36 L
MIRL Rwy 18-36 L

SC-5, 25 FEB 2021 to 22 APR 2021

SC-5, 25 FEB 2021 to 22 APR 2021

HOUSTON, TEXAS | AL-10328 (FAA) | 19115

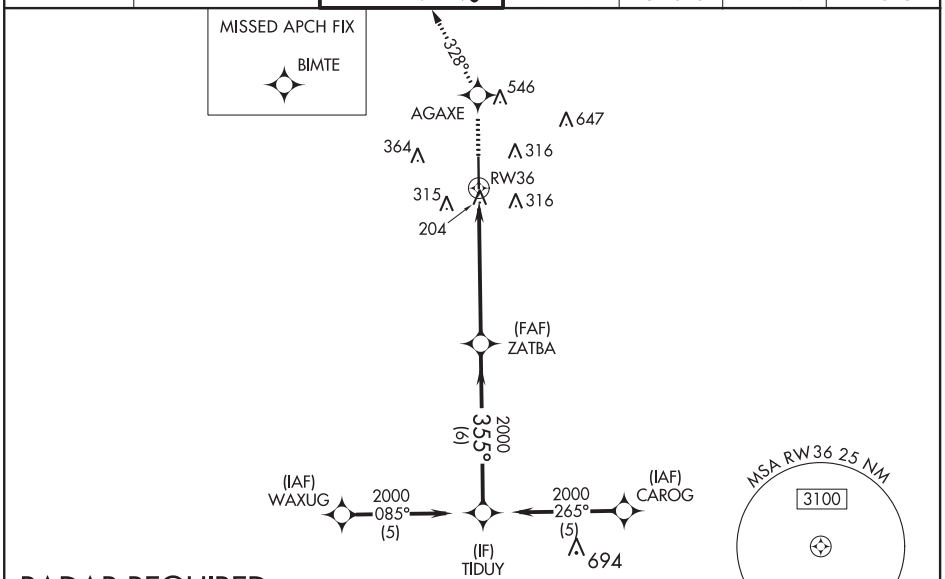
RNAV (GPS) RWY 36
HOUSTON EXECUTIVE (TME)

WAAS CH 97504 W36A	APP CRS 355°	Rwy ldg 6610 TDZE 164 Apt Elev 166

Baro-VNAV NA when using David Wayne Hooks Memorial altimeter setting.
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. VDP NA when using David Wayne Hooks Memorial altimeter setting. When local altimeter setting not received, use David Wayne Hooks Memorial altimeter setting and increase LPV DA to 471 feet, LNAV/VNAV DA to 719 feet; increase all MDA 60 feet. Increase LNAV/VNAV visibility ¼ mile all Cats and LNAV and circling Cat C/D ¼ mile.

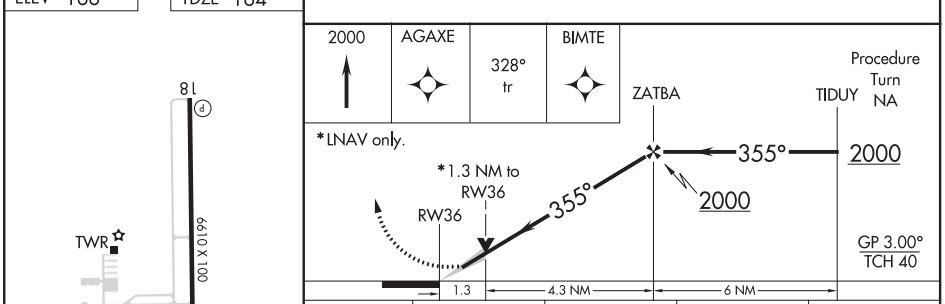
MISSED APPROACH: Climb to 2000 direct AGAXE and via 328° track to BIMTE and hold.

ATIS	HOUSTON APP CON	EXECUTIVE TOWER ★	GND CON	CLNC DEL	GCO	UNICOM
119.525	123.8 257.7	126.975 (CTAF) L	132.075	132.075	121.725	122.975



RADAR REQUIRED

ELEV 166	TDZE 164

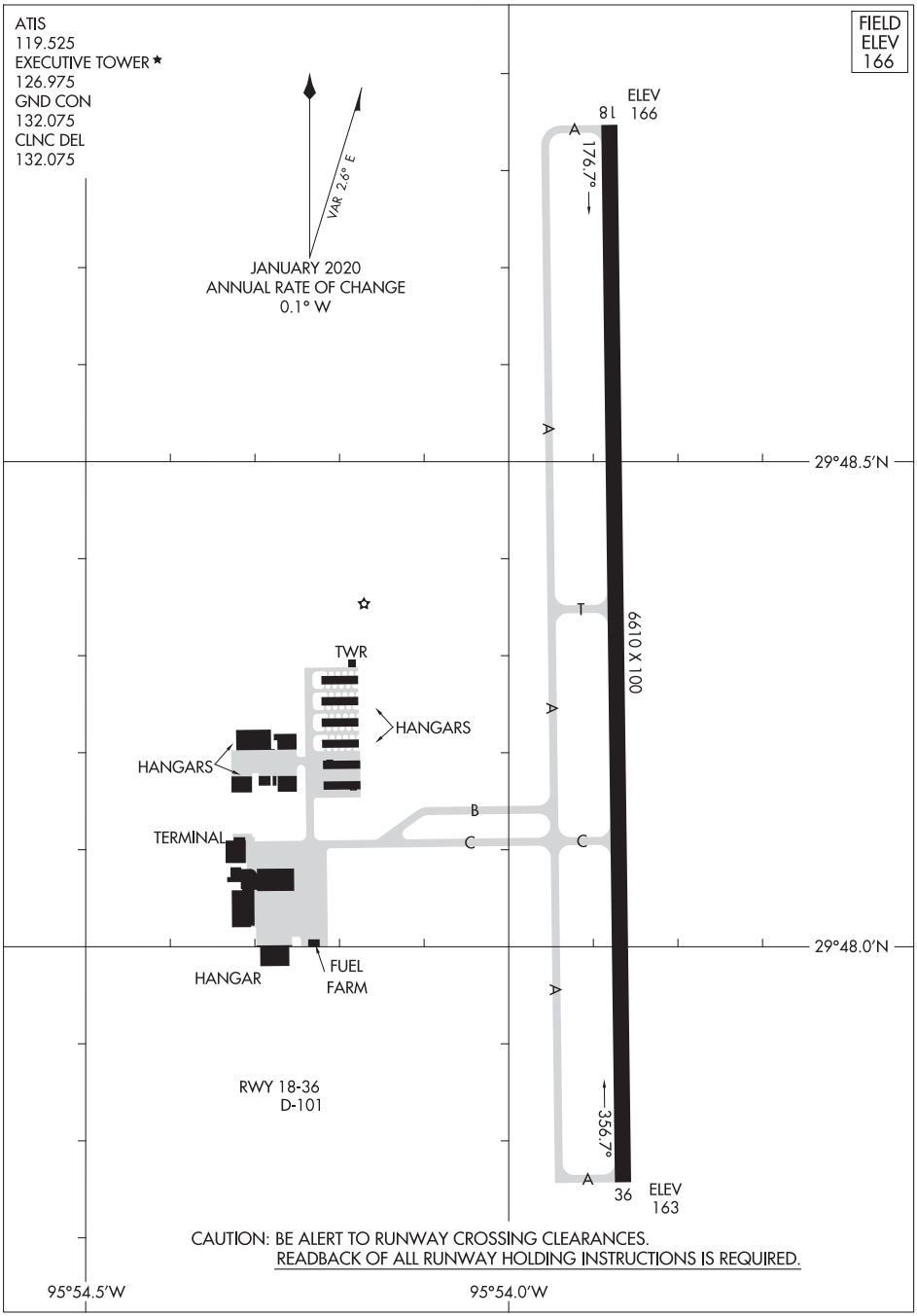


REIL Rwys 18-36 L
MIRL Rwy 18-36 L

CATEGORY	A	B	C	D
LPV DA	414-1 250 (300-1)			
LNAV/VNAV DA	662-1¾ 498 (500-1¾)			
LNAV MDA	620-1 456 (500-1)		620-1¼ 456 (500-1¼)	620-1½ 456 (500-1½)
CIRCLING	820-1 654 (700-1)		820-1¾ 654 (700-1¾)	860-2¼ 694 (700-2¼)

SC-5, 25 FEB 2021 to 22 APR 2021

SC-5, 25 FEB 2021 to 22 APR 2021



SC-5, 25 FEB 2021 to 22 APR 2021

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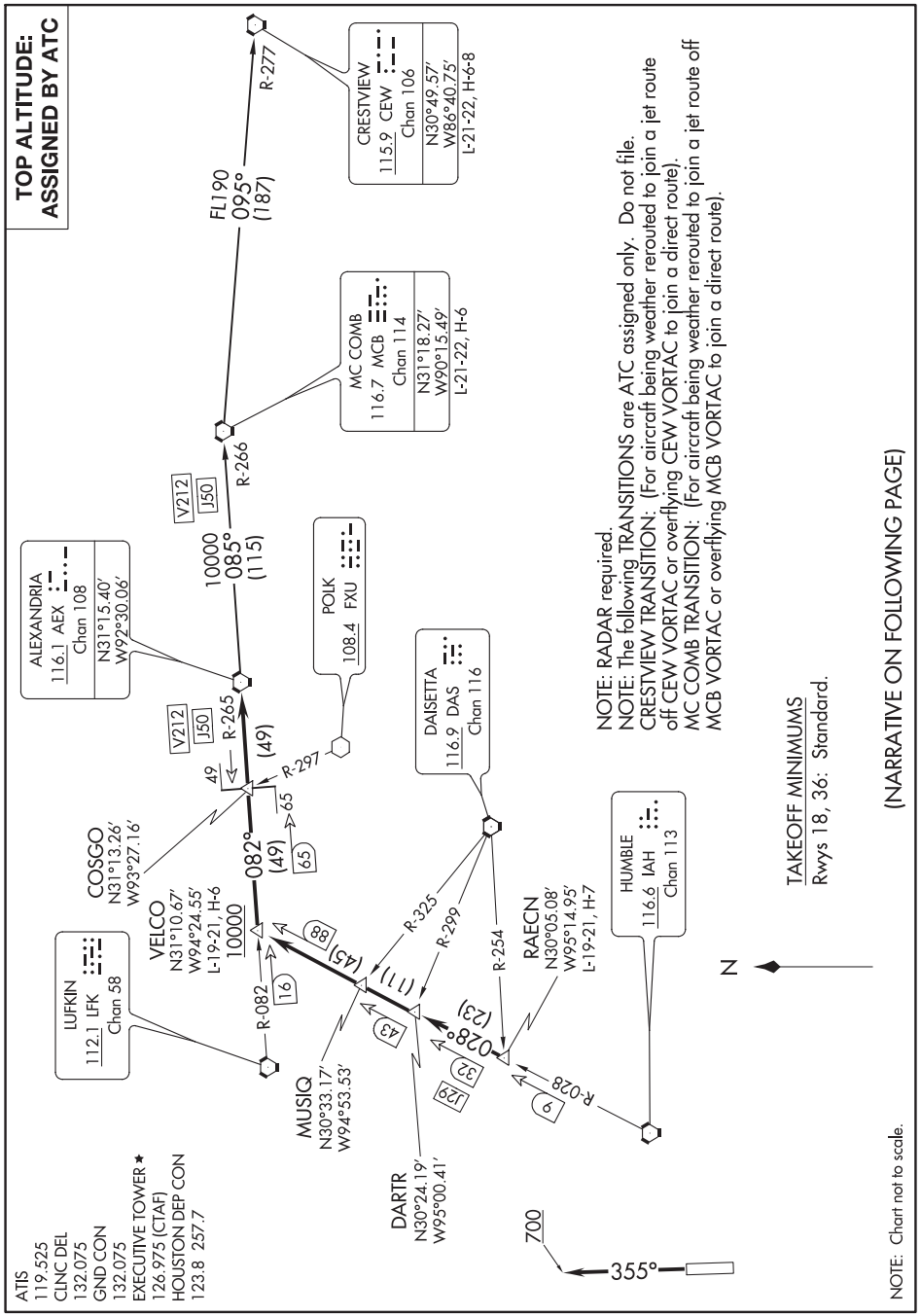
(AEX2.AEX) 19339 AL-10328 (FAA)

ALEXANDRIA TWO DEPARTURE

HOUSTON EXECUTIVE (TME)
HOUSTON, TEXAS



SC-5, 25 FEB 2021 to 22 APR 2021

ALEXANDRIA TWO DEPARTURE

(AEX2.AEX) 05DEC19

HOUSTON, TEXAS
HOUSTON EXECUTIVE (TME)

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 18: When entering controlled airspace, climb on assigned heading for RADAR vectors to RAECN INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .
TAKEOFF RWY 36: Climb heading 355° to 700 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to RAECN INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .

. . . .on IAH R-028 to VELCO INT, cross VELCO INT at or above 10000, then right turn on LFK R-082 and AEX R-265 to AEX VORTAC.

CRESTVIEW TRANSITION (AEX2.CEW): From over AEX VORTAC on AEX R-085 and MCB R-266 to MCB VORTAC, then on MCB R-095 and CEW R-277 to CEW VORTAC.

MC COMB TRANSITION (AEX2.MCB): From over AEX VORTAC on AEX R-085 and MCB R-266 to MCB VORTAC.

(BLTWY6.BLTWY) 19115

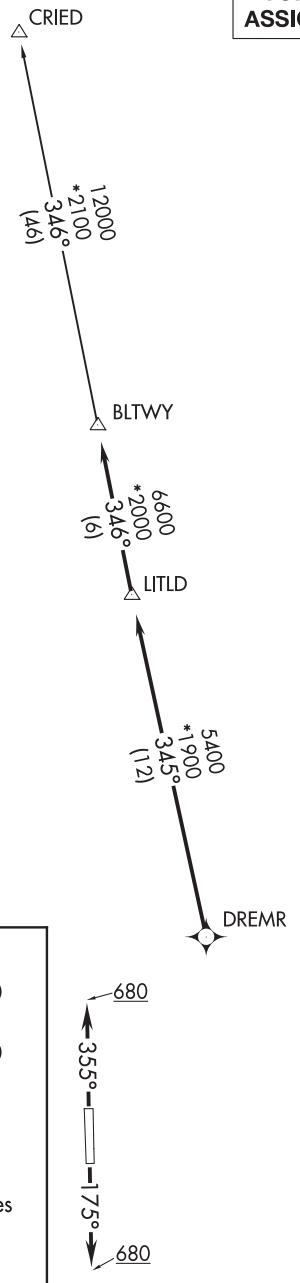
BLTWY SIX DEPARTURE (RNAV)

AL-10328 (FAA)

HOUSTON EXECUTIVE (TME)
HOUSTON, TEXAS

TOP ALTITUDE: ASSIGNED BY ATC

ATIS
119.525
CLNC DEL
132.075
EXECUTIVE TOWER ★
126.975 (CTAF)
HOUSTON DEP CON
123.8 257.7



NOTE: RADAR required.

NOTE: DME/DME/IRU or GPS required.

NOTE: RNAV 1.

TAKEOFF MINIMUMS

Rwy 18, 36: Standard with minimum climb of 500′ per NM to 680.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 18: Climb heading 175° to 680 for RADAR vectors to DREMR, thence . . . .
TAKEOFF RWY 36: Climb heading 355° to 680 for RADAR vectors to DREMR, thence . . . .

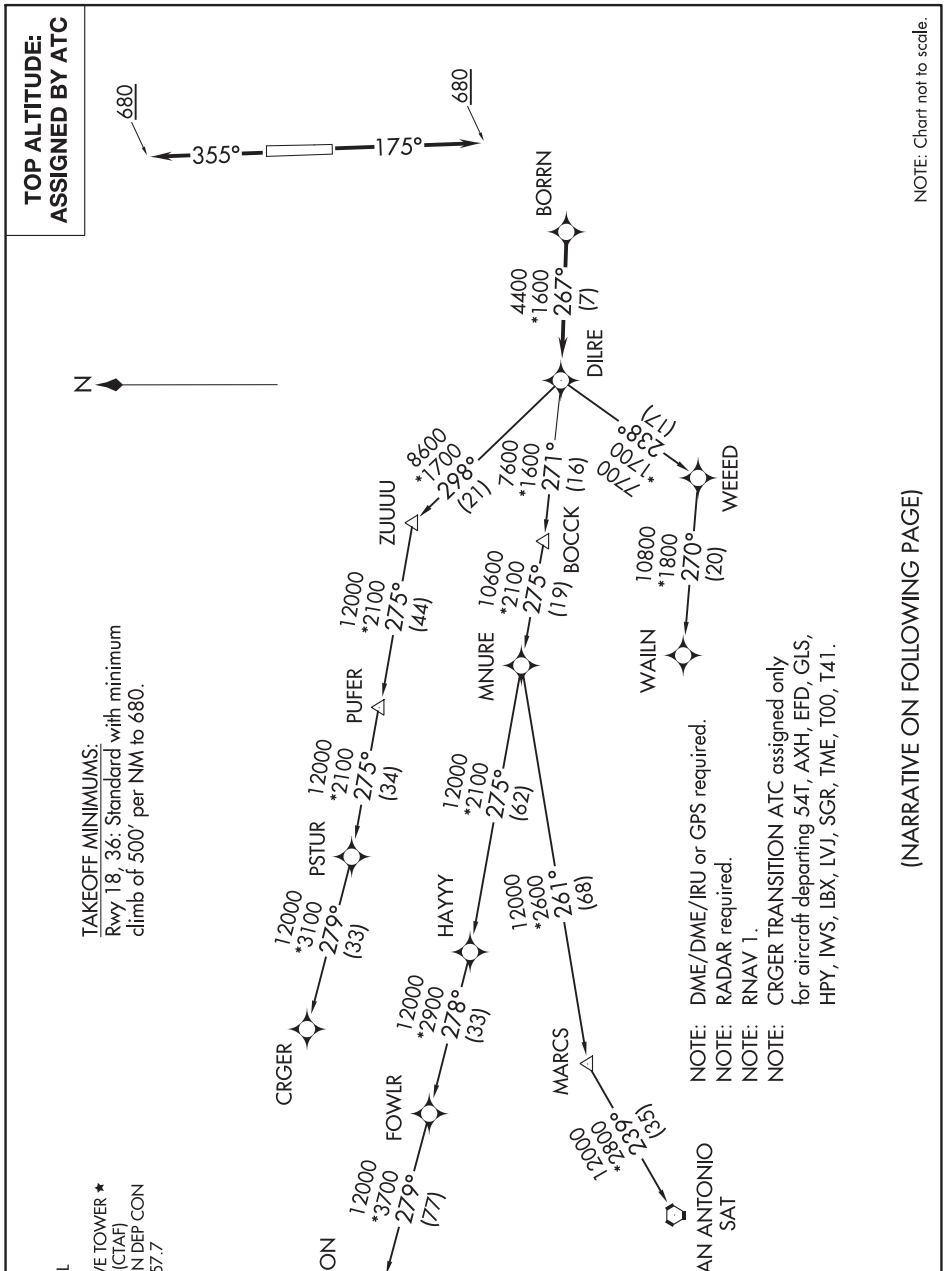
...on track 345° to LITLD, then on track 346° to BLTWY, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

CRIED TRANSITION (BLTWY6.CRIED)

NOTE: Chart not to scale.

SC-5, 25 FEB 2021 to 22 APR 2021

BORRN FOUR DEPARTURE (RNAV)



SC-5, 25 FEB 2021 to 22 APR 2021

DEPARTURE ROUTE DESCRIPTION

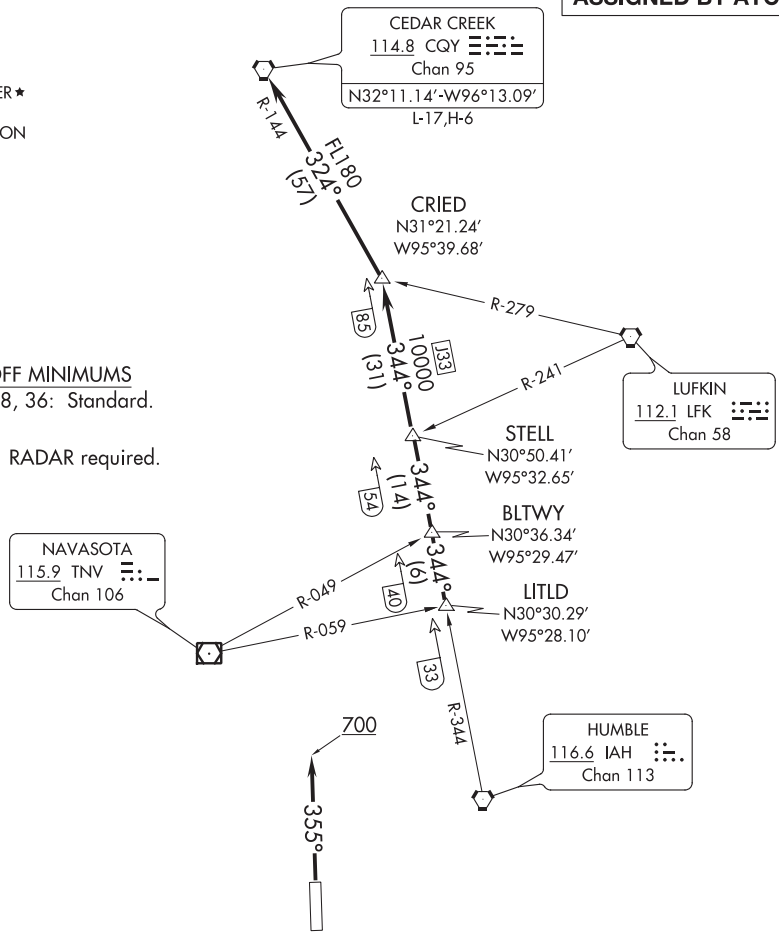
TAKEOFF RWY 18: Climb on heading 175° to 680, for RADAR vectors to BORRN, thence. . . .
TAKEOFF RWY 36: Climb on heading 355° to 680, for RADAR vectors to BORRN, thence. . . .

. . . .on track 267° to DILRE, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

CRGER TRANSITION (BORRN4.CRGER)
JUNCTION TRANSITION (BORRN4.JCT)
MNURE TRANSITION (BORRN4.MNURE)
SAN ANTONIO TRANSITION (BORRN4.SAT)
WAILN TRANSITION (BORRN4.WAILN)

ATIS
119.525
CLNC DEL
132.075
GND CON
132.075
EXECUTIVE TOWER ★
126.975 (CTAF)
HOUSTON DEP CON
123.8 257.7

TOP ALTITUDE: ASSIGNED BY ATC



TAKEOFF MINIMUMS
Rwys 18, 36: Standard.

NOTE: RADAR required.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 18: When entering controlled airspace, climb on assigned heading for RADAR vectors to LITLD INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .
TAKEOFF RWY 36: Climb heading 355° to 700 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to LITLD INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .

. . . . on IAH R-344 to STELL INT, then on IAH R-344 to CRIED INT then left turn on CQY R-144 to CQY VORTAC.

SC-5, 25 FEB 2021 to 22 APR 2021

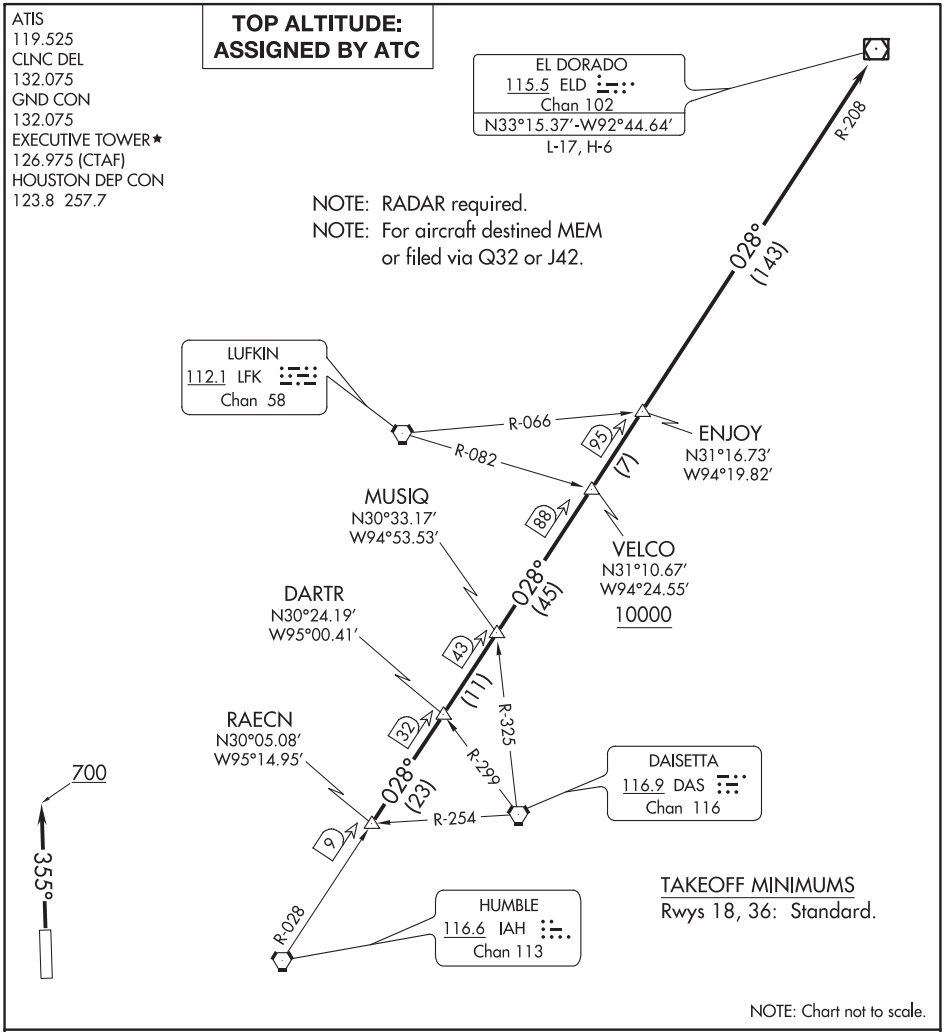
(ELD9.ELD) 18032 AL-10328 (FAA)

EL DORADO NINE DEPARTURE

HOUSTON EXECUTIVE (TME)
HOUSTON, TEXAS

ATIS
119.525
CLNC DEL
132.075
GND CON
132.075
EXECUTIVE TOWER★
126.975 (CTAF)
HOUSTON DEP CON
123.8 257.7

TOP ALTITUDE: ASSIGNED BY ATC



TAKEOFF MINIMUMS
Rwys 18, 36: Standard.

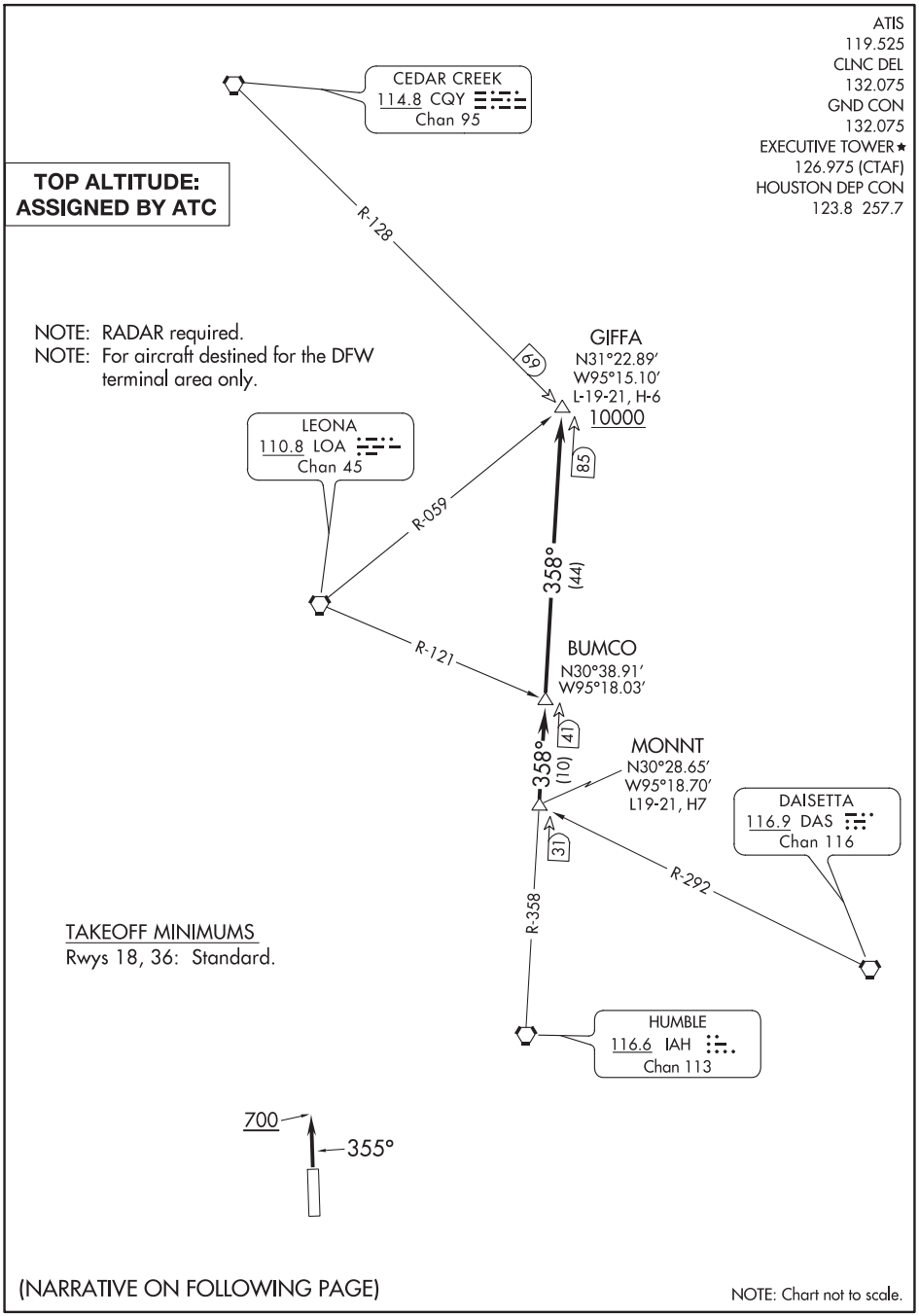
NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 18: When entering controlled airspace, climb on assigned heading for RADAR vectors to RAECN INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .
TAKEOFF RWY 36: Climb heading 355° to 700 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to RAECN INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .

. . . . on IAH R-028 and the ELD R-208 to ELD VOR/DME, cross VELCO INT at or above 10000.

SC-5, 25 FEB 2021 to 22 APR 2021



SC-5, 25 FEB 2021 to 22 APR 2021
SC-5, 25 FEB 2021 to 22 APR 2021

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 18: When entering controlled airspace, climb on assigned heading for RADAR vectors to MONNT INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .
TAKEOFF RWY 36: Climb heading 355° to 700 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to MONNT INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence . . . .

. . . . on IAH R-358 to cross GIFFA INT at or above 10000.

HOODO SIX DEPARTURE (RNAV)
(HOODO6.HOODO) 25APR19

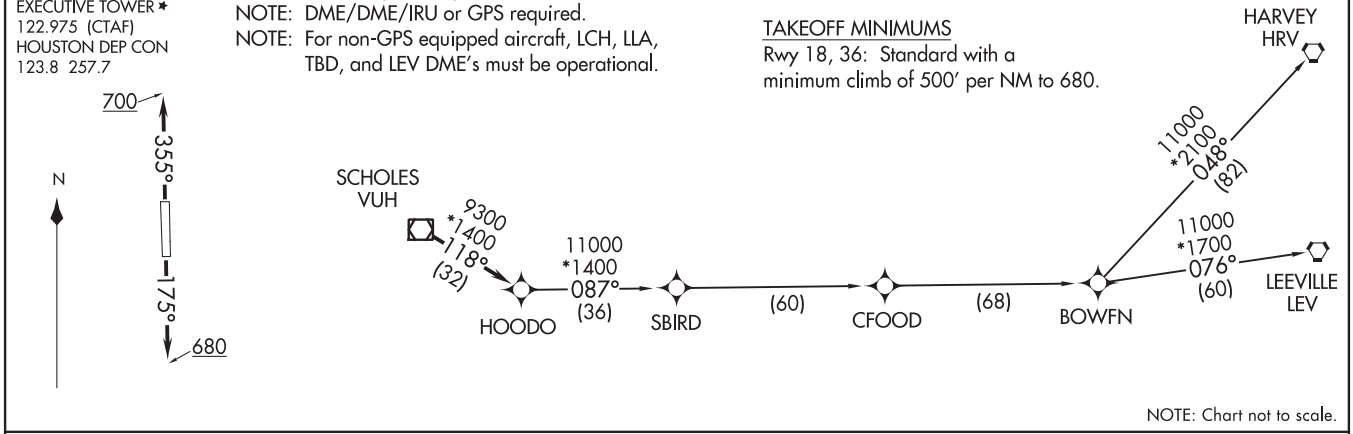
HOUSTON, TEXAS
HOUSTON EXECUTIVE (TME)

ATIS
119.525
CLNC DEL
132.075
EXECUTIVE TOWER *
122.975 (CTAF)
HOUSTON DEP CON
123.8 257.7

NOTE: RNAV 1.
NOTE: RADAR required.
NOTE: ATC assigned only.
NOTE: DME/DME/IRU or GPS required.
NOTE: For non-GPS equipped aircraft, LCH, LLA, TBD, and LEV DME's must be operational.

TOP ALTITUDE: ASSIGNED BY ATC

TAKEOFF MINIMUMS
Rwy 18, 36: Standard with a minimum climb of 500′ per NM to 680.



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 18: Climb heading 175° to 680, for RADAR vectors to VUH VOR/DME, thence . . . .
TAKEOFF RUNWAY 36: Climb heading 355° to 700, for RADAR vectors to VUH VOR/DME, thence . . . .

. . . . on track 118° to HOODO, then on (transition). Maintain ATC assigned altitude.
Expect filed altitude 10 minutes after departure.

BOWFN TRANSITION (HOODO6.BOWFN)
CFOOD TRANSITION (HOODO6.CFOOD)
HARVEY TRANSITION (HOODO6.HRV)
LEEVILLE TRANSITION (HOODO6.LEV)
SBIRD TRANSITION (HOODO6.SBIRD)

HOODO SIX DEPARTURE (RNAV)
(HOODO6.HOODO) 20366
AL-10328 (FAA)
HOUSTON EXECUTIVE (TME)
HOUSTON, TEXAS

(INDIE7.INDIE) 19115 AL-10328 (FAA)

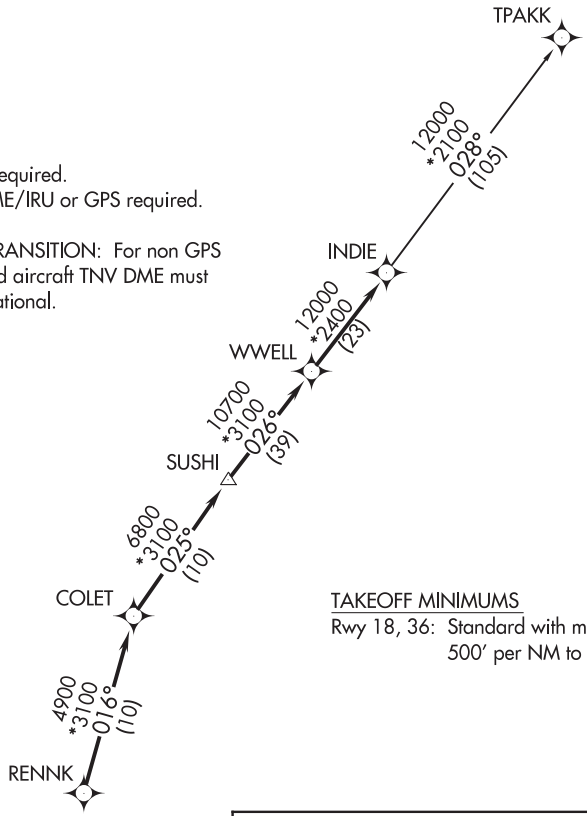
INDIE SEVEN DEPARTURE (RNAV)

HOUSTON EXECUTIVE (TME)
HOUSTON, TEXAS

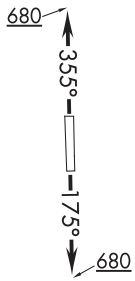
TOP ALTITUDE: ASSIGNED BY ATC

ATIS
119.525
CLNC DEL
132.075
EXECUTIVE TOWER★
126.975 (CTAF)
HOUSTON DEP CON
123.8 257.7

NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV 1.
NOTE: TPAKK TRANSITION: For non GPS equipped aircraft TNV DME must be operational.



TAKEOFF MINIMUMS
Rwy 18, 36: Standard with minimum climb of 500′ per NM to 680.



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

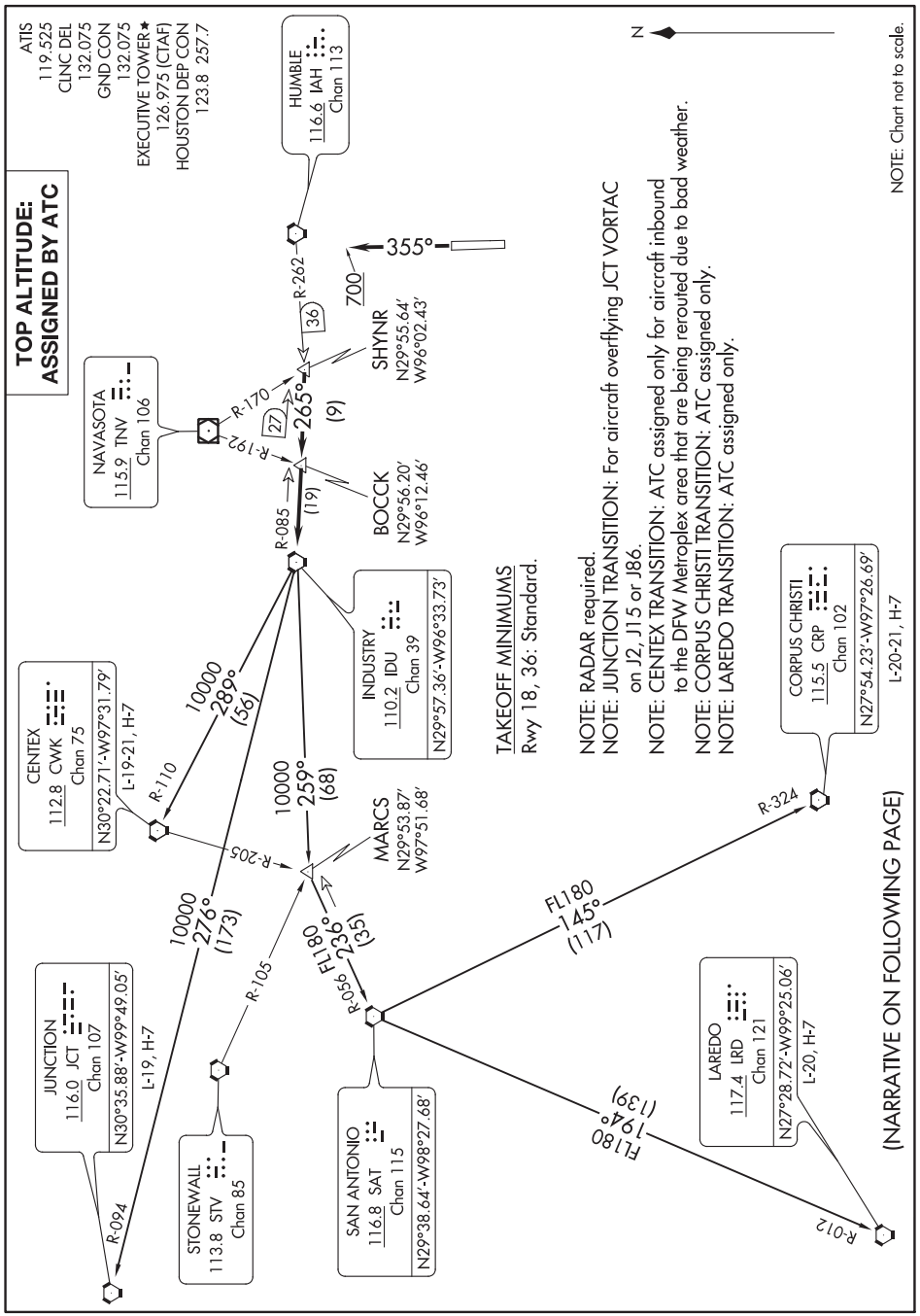
TAKEOFF RWY 18: Climb heading 175° to 680 for RADAR vectors to RENNK, thence . . . .
TAKEOFF RWY 36: Climb heading 355° to 680 for RADAR vectors to RENNK, thence . . . .

. . . . on track 016° to COLET, then on track 025° to SUSHI, then on track 026° to WWELL, then on track 026° to INDIE, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

TPAKK TRANSITION (INDIE7.TPAKK)

SC-5, 25 FEB 2021 to 22 APR 2021

INDIE SEVEN DEPARTURE (RNAV)
(INDIE7.INDIE) 25APR19
HOUSTON, TEXAS
HOUSTON EXECUTIVE (TME)


ATIS 119.525
CLNC DEL 132.075
GND CON 132.075
EXECUTIVE TOWER★ 126.975 (CTAF)
HOUSTON DEP CON 123.8 257.7
TOP ALTITUDE: ASSIGNED BY ATC
HUMBLE 116.6 IAH Chan 113
355°
700
R-262
36
SHYNR N29°55.64′ W96°02.43′
265°
(9)
R-170
27
R-192
NAVASOTA 115.9 TNV Chan 106
BOCCK N29°56.20′ W96°12.46′
(19)
R-085
INDUSTRY 110.2 IDU Chan 39 N29°57.36′-W96°33.73′
10000 289° (56)
CENTEX 112.8 CWK Chan 75 L-19-21, H-7 N30°22.71′-W97°31.79′
R-110
R-205
10000 259° (68)
MARCS N29°53.87′ W97°51.68′
10000 276° (173)
R-105
FL180 236° (35)
R-056
JUNCTION 116.0 JCT Chan 107 L-19, H-7 N30°35.88′-W99°49.05′
R-094
STONEWALL 113.8 STV Chan 85
SAN ANTONIO 116.8 SAT Chan 115 N29°38.64′-W98°27.68′
FL180 145° (117)
R-324
CORPUS CHRISTI 115.5 CRP Chan 102 L-20-21, H-7 N27°54.23′-W97°26.69′
FL180 194° (139)
LAREDO 117.4 LRD Chan 121 L-20, H-7 N27°28.72′-W99°25.06′
R-012
TAKEOFF MINIMUMS
Rwy 18, 36: Standard.
NOTE: RADAR required.
NOTE: JUNCTION TRANSITION: For aircraft overflying JCT VORTAC on J2, J15 or J86.
NOTE: CENTEX TRANSITION: ATC assigned only for aircraft inbound to the DFW Metroplex area that are being rerouted due to bad weather.
NOTE: CORPUS CHRISTI TRANSITION: ATC assigned only.
NOTE: LAREDO TRANSITION: ATC assigned only.
N
NOTE: Chart not to scale.
(NARRATIVE ON FOLLOWING PAGE)

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 18: When entering controlled airspace, climb on assigned heading for RADAR vectors to SHYNR INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence . . . .
TAKEOFF RWY 36: Climb heading 355° to 700 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to SHYNR INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence . . . .

. . . . on IDU R-085 to BOCCK INT, then on IDU R-085 to IDU VORTAC.

CENTEX TRANSITION (IDU9.CWK): From over IDU VORTAC on IDU R-289 and CWK R-110 to CWK VORTAC.

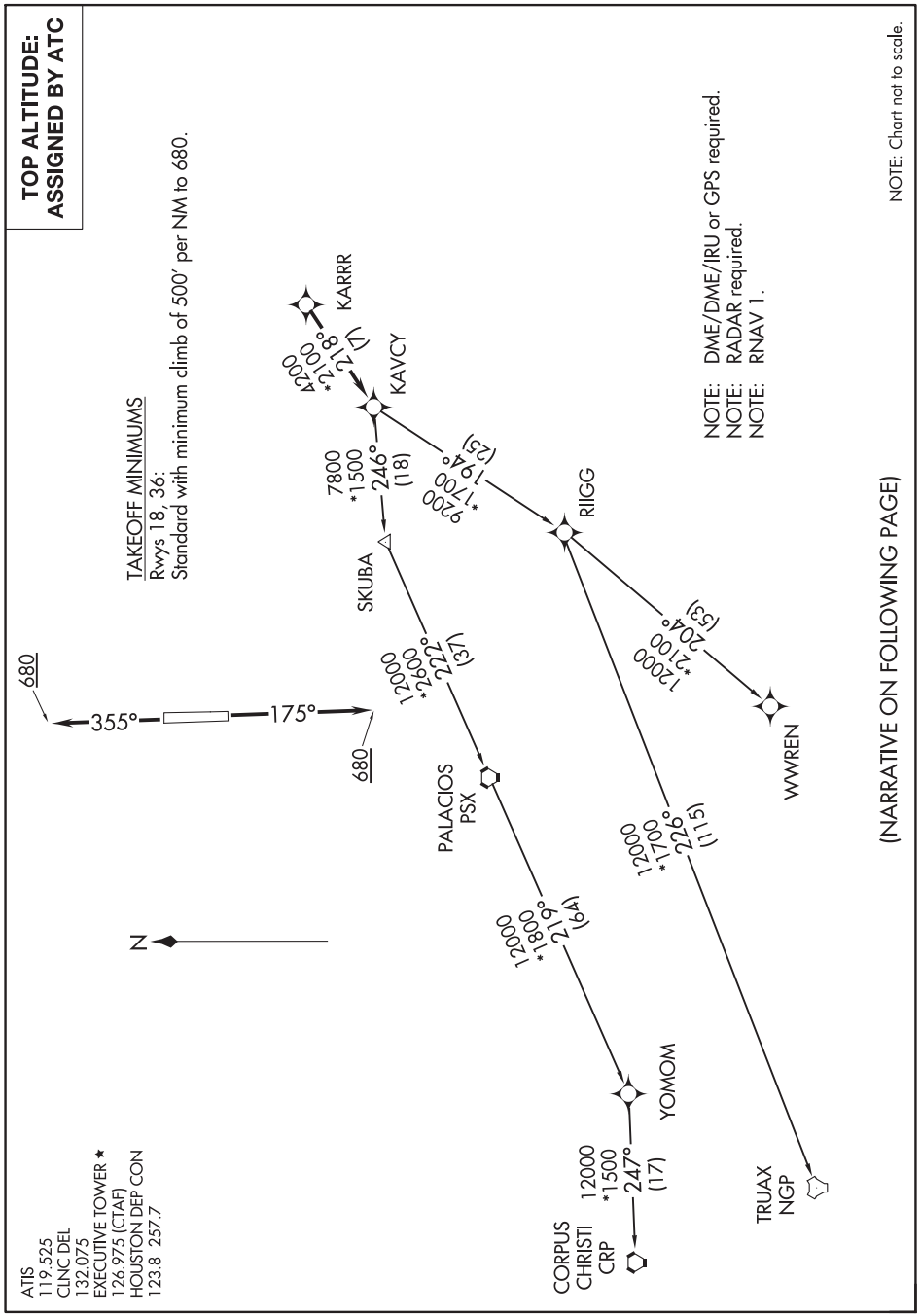
CORPUS CHRISTI TRANSITION (IDU9.CRP): From over IDU VORTAC on IDU R-259 to MARCS INT, then on SAT R-056 to SAT VORTAC, then on SAT R-145 and CRP R-324 to CRP VORTAC.

JUNCTION TRANSITION (IDU9.JCT): From over IDU VORTAC on IDU R-276 and JCT R-094 to JCT VORTAC.

LAREDO TRANSITION (IDU9.LRD): From over IDU VORTAC on IDU R-259 to MARCS INT, then on SAT R-056 to SAT VORTAC, then on SAT R-194 and LRD R-012 to LRD VORTAC.

SC-5, 25 FEB 2021 to 22 APR 2021

KARRR SIX DEPARTURE (RNAV)



SC-5, 25 FEB 2021 to 22 APR 2021

KARRR SIX DEPARTURE (RNAV)

HOUSTON, TEXAS
HOUSTON EXECUTIVE (TME)

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 18: Climb on heading 175° to 680, for RADAR vectors to KARRR, thence. . . .
TAKEOFF RWY 36: Climb on heading 355° to 680, for RADAR vectors to KARRR, thence. . . .

. . . .on track 218° to KAVCY, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

CORPUS CHRISTI TRANSITION (KARRR6.CRP)
PALACIOS TRANSITION (KARRR6.PSX)
TRUAX TRANSITION (KARRR6.NGP)
WWREN TRANSITION (KARRR6.WWREN)
YOMOM TRANSITION (KARRR6.YOMOM)

LEONA THREE DEPARTURE

AL-10328 (FAA)

TOP ALTITUDE: ASSIGNED BY ATC

ATIS
119.525
CLNC DEL
132.075
GND CON
132.075
EXECUTIVE TOWER ★
126.975 (CTAF)
HOUSTON DEP CON
123.8 257.7

ARDMORE
116.7 ADM
Chan 114
N34°12.69′ - W97°10.10′
L-17, H-6

TULSA
114.4 TUL
Chan 91
N36°11.78′ - W95°47.29′

BONHAM
114.6 BYP
Chan 93
N33°32.25′ - W96°14.05′
L-17, H-6

RANGER
115.7 FUZ
Chan 104
N32°53.37′ - W97°10.77′
L-17, H-6

CEDAR CREEK
114.8 CQY
Chan 95
N32°11.14′ - W96°13.09′

DOLEY
N32°11.35′
W96°23.08′

WACO
115.3 ACT
Chan 100
N31°39.74′ - W97°16.14′

LEONA
110.8 LOA
Chan 45
N31° 07.44′ - W95° 58.08′

WLLIS
N30°32.08′
W95°39.10′

NAVASOTA
115.9 TNV
Chan 106

HUMBLE
116.6 IAH
Chan 113

R-156 FL180 336° (127)
R-130 FL180 310° (58)
R-173 FL180 353° (81)
R-163 10000 341° (65)
R-046 10000 334° (67)
R-147 4000 327° (39)
R-047 (38)
R-330
700
355°

TAKEOFF MINIMUMS
Rwys 18, 36: Standard.

NOTE: RADAR required.
NOTE: Except for aircraft destined ACT or the DFW terminal area, all aircraft filing the LEONA SID must file one of the published transitions via FUZ (LOA3.FUZ) ADM (LOA3.ADM) or BYP (LOA3.BYP).
NOTE: RANGER TRANSITION: For aircraft overflying west/northwest of the DFW terminal area FL240 and above.
NOTE: ARDMORE TRANSITION: For aircraft overflying north/northwest of the DFW terminal area FL240 and above.
NOTE: BONHAM TRANSITION: For aircraft overflying/landing TUL VORTAC FL240 and above.

NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 18: When entering controlled airspace, climb on assigned heading for RADAR vectors to WLLIS INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence . . . .

TAKEOFF RUNWAY 36: Climb heading 355° to 700 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to WLLIS INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence . . . .

. . . . on LOA R-147 to LOA VORTAC.

ARDMORE TRANSITION (LOA3.ADM): From over LOA VORTAC on LOA R-334 to DOLEY INT, then on ADM R-156 to ADM VORTAC.

BONHAM TRANSITION (LOA3.BYP): From over LOA VORTAC on LOA R-341 and CQY R-163 to CQY VORTAC, then on BYP R-173 to BYP VORTAC.

RANGER TRANSITION (LOA3.FUZ): From over LOA VORTAC on LOA R-334 to DOLEY INT, then on FUZ R-130 to FUZ VORTAC.

SC-5, 25 FEB 2021 to 22 APR 2021

LUFKIN TWO DEPARTURE

TOP ALTITUDE: ASSIGNED BY ATC

LITTLE ROCK
113.9 LIT
Chan 86
N34°40.66′
W92°10.83′
L-18, H-6

ATIS 119.525
CLNC DEL 132.075
GND CON 132.075
EXECUTIVE TOWER★ 126.975 (CTAF)
HOUSTON DEP CON 123.8 257.7

R-207

FL183
026°
(240)

NOTE: RADAR and DME required.
NOTE: For aircraft destined LIT or overflying LIT or PXV.

SKKIP
N31°14.91′
W94°39.45′

5000
026°
(6)

LUFKIN
112.1 LFK
Chan 58
N31°09.75′
W94°43.01′

R-203

023°
(39)

SUSHI
N30°35.48′
W95°04.39′

(10)
023°

COLET
N30°26.96′
W95°09.66′

48

R-312

31

013°
(12)

R-295

KYANN
N30°15.53′
W95°13.96′

R-273

19

R-013

700

355°

HUMBLE
116.6 IAH
Chan 113

DAISETTA
116.9 DAS
Chan 116

TAKEOFF MINIMUMS
Rwys 18, 36: Standard.

NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

SC-5, 25 FEB 2021 to 22 APR 2021

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 18: When entering controlled airspace, climb on assigned heading for RADAR vectors to KYANN INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .
TAKEOFF RWY 36: Climb heading 355° to 700 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to KYANN INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .

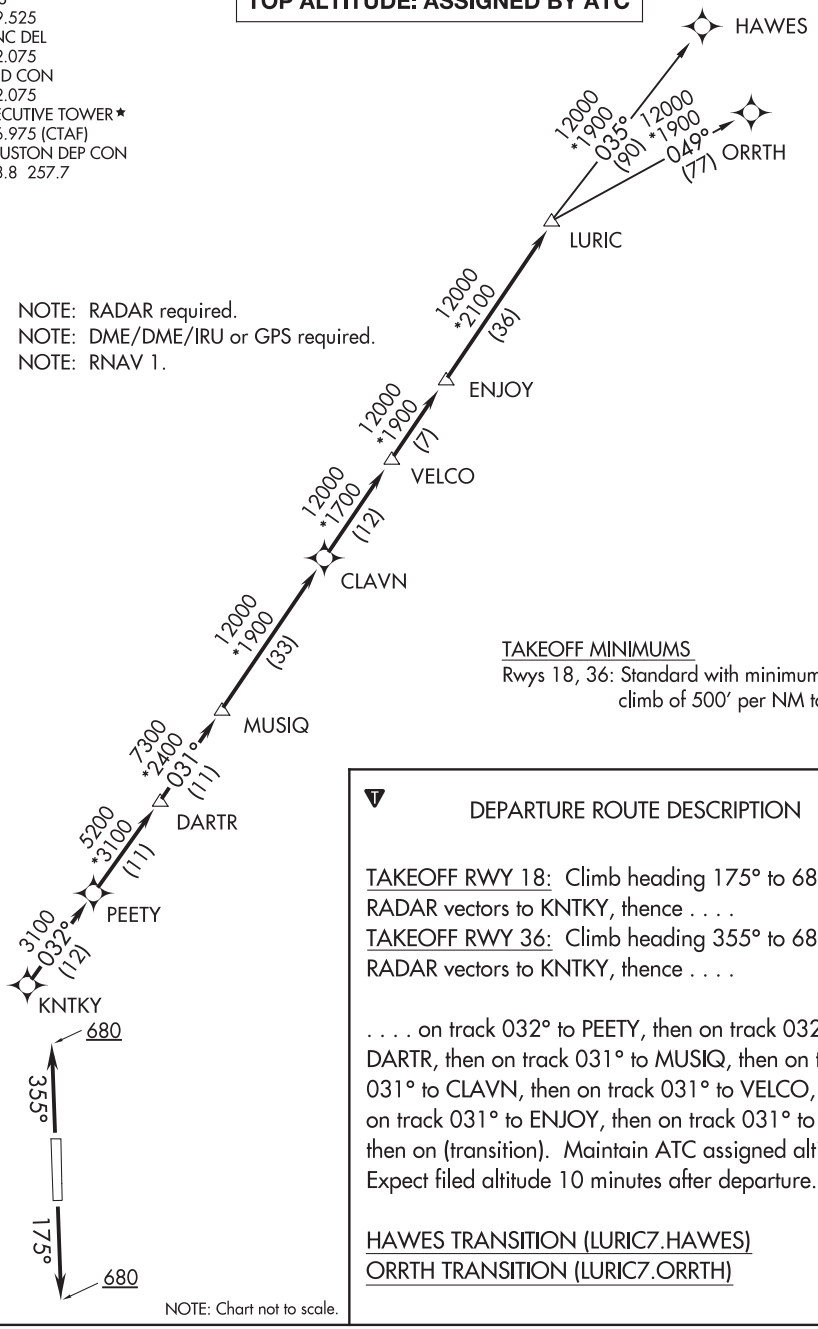
. . . .on IAH R-013 to COLET INT, then right turn on LFK R-203 to LFK VORTAC.

LITTLE ROCK TRANSITION (LFK2.LIT): From over LFK VORTAC on LFK R-026 to SKKIP INT, then on LFK R-026 and LIT R-207 to LIT VORTAC.

LURIC SEVEN DEPARTURE (RNAV)

TOP ALTITUDE: ASSIGNED BY ATC

ATIS
119.525
CLNC DEL
132.075
GND CON
132.075
EXECUTIVE TOWER ★
126.975 (CTAF)
HOUSTON DEP CON
123.8 257.7



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

TAKEOFF MINIMUMS
Rwys 18, 36: Standard with minimum climb of 500′ per NM to 680.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 18: Climb heading 175° to 680 for RADAR vectors to KNTKY, thence . . . .
TAKEOFF RWY 36: Climb heading 355° to 680 for RADAR vectors to KNTKY, thence . . . .

. . . . on track 032° to PEETY, then on track 032° to DARTR, then on track 031° to MUSIQ, then on track 031° to CLAVN, then on track 031° to VELCO, then on track 031° to ENJOY, then on track 031° to LURIC, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

HAWES TRANSITION (LURIC7.HAWES)
ORRTH TRANSITION (LURIC7.ORRTH)

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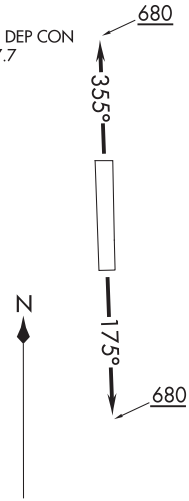
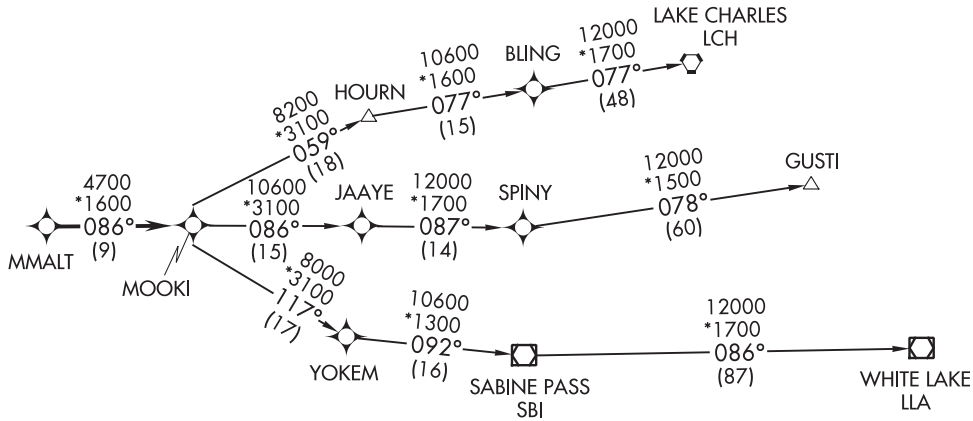
ATIS
119.525
CTAF
126.975
CLNC DEL
132.075
HOUSTON DEP CON
123.8 257.7

TAKEOFF MINIMUMS
Rwy 18, 36: Standard with minimum climb of 500′ per NM to 680.

TOP ALTITUDE: ASSIGNED BY ATC





NOTE: DME/DME/IRU or GPS required.
NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: GUSTI and LCH TRANSITIONS ATC assigned only for aircraft departing AXH, EFD, GLS, HPY, IWS, LBX, LVJ, SGR, TME, T00, T41 and 54T.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

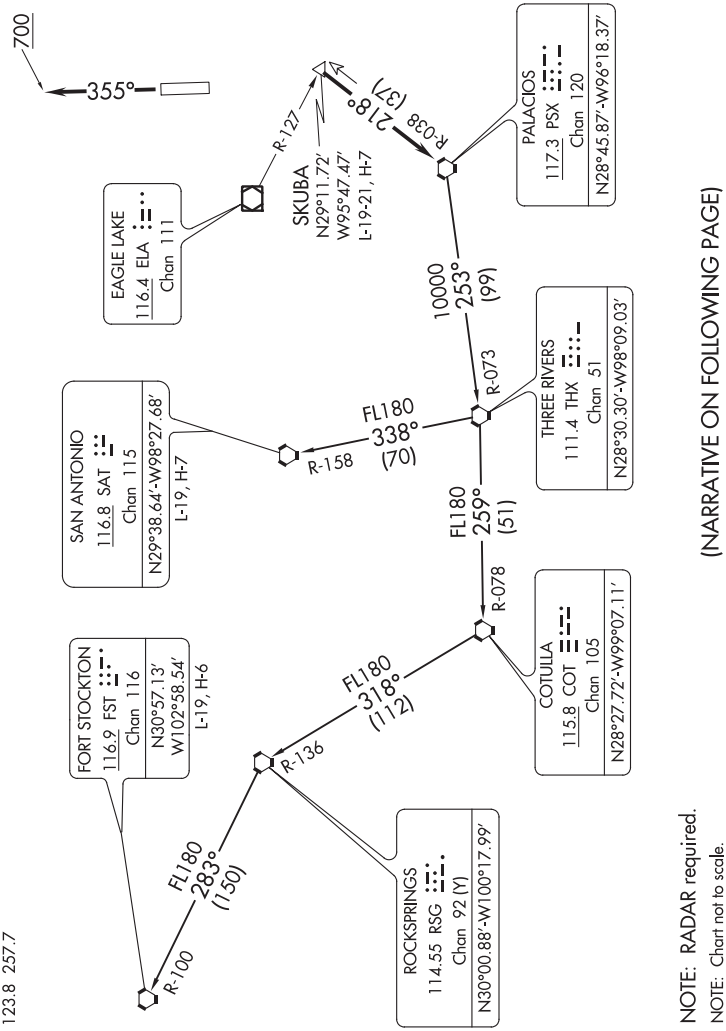
TAKEOFF RWY 18: Climb on heading 175° to 680 for RADAR vectors to MMALT, thence. . . .
TAKEOFF RWY 36: Climb on heading 355° to 680 for RADAR vectors to MMALT, thence. . . .

. . . .on track 086° to MOOKI, then on (transition). Maintain ATC assigned altitude.
Expect filed altitude 10 minutes after departure.

GUSTI TRANSITION (MMALT5.GUSTI)
LAKE CHARLES TRANSITION (MMALT5.LCH)
WHITE LAKE TRANSITION (MMALT5.LLA)

TOP ALTITUDE: ASSIGNED BY ATC

TAKEOFF MINIMUMS
Rwy 18, 36: Standard.



ATIS
119.525
CLNC DEL
132.075
GND CON
132.075
EXECUTIVE TOWER ★
126.975 (CTAF)
HOUSTON DEP CON
123.8 257.7

NOTE: RADAR required.
NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 18: When entering controlled airspace, climb on assigned heading for RADAR vectors to SKUBA INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .

TAKEOFF RWY 36: Climb heading 355° to 700 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to SKUBA INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .

. . . .on PSX R-038 to PSX VORTAC.

FORT STOCKTON TRANSITION (PSX1.FST): From over PSX VORTAC on PSX R-253 and THX R-073 to THX VORTAC, then on THX R-259 and COT R-078 to COT VORTAC, then on COT R-318 and RSG R-136 to RSG VORTAC, then on RSG R-283 and FST R-100 to FST VORTAC.

SAN ANTONIO TRANSITION (PSX1.SAT): From over PSX VORTAC on PSX R-253 and THX R-073 to THX VORTAC, then on SAT R-158 to SAT VORTAC.

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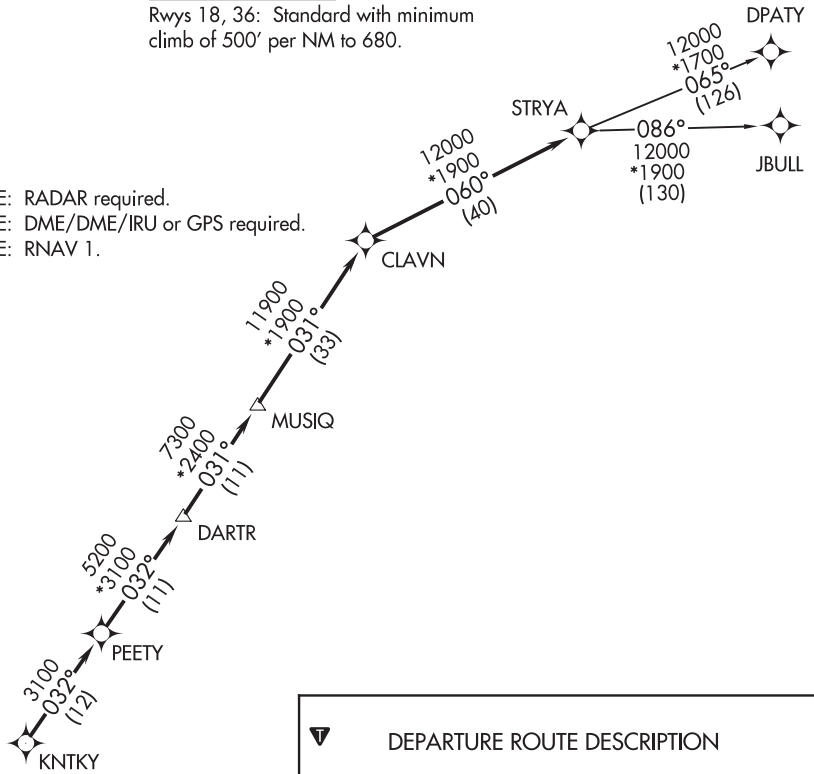
STRYA SEVEN DEPARTURE (RNAV)

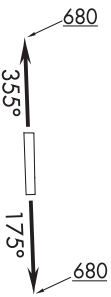
ATIS
119.525
CTAF
126.975
CLNC DEL
132.075
HOUSTON DEP CON
123.8 257.7

TOP ALTITUDE: ASSIGNED BY ATC

TAKEOFF MINIMUMS
Rwys 18, 36: Standard with minimum climb of 500′ per NM to 680.

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





NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 18: Climb heading 175° to 680 for RADAR vectors to KNTKY, thence . . . .
TAKEOFF RWY 36: Climb heading 355° to 680 for RADAR vectors to KNTKY, thence . . . .

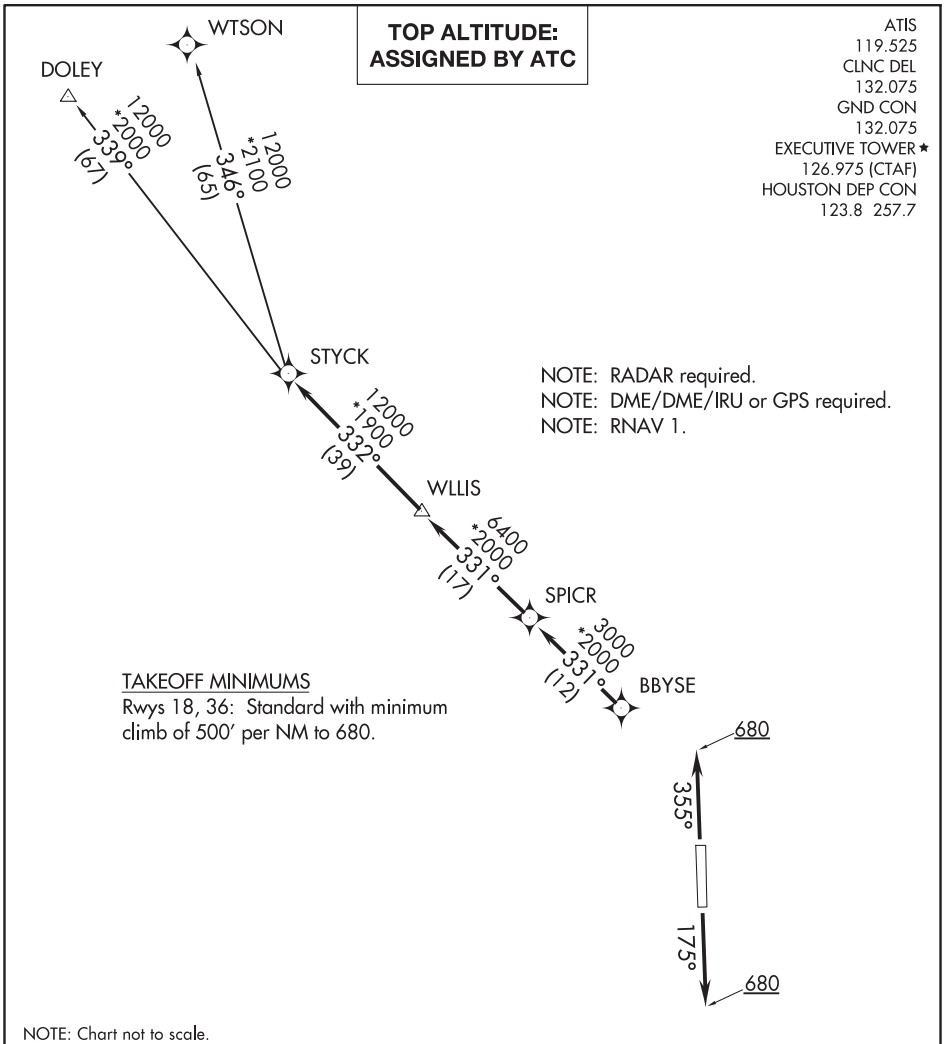
. . . . on track 032° to PEETY, then on track 032° to DARTR, then on track 031° to MUSIQ, then on track 031° to CLAVN, then on track 060° to STRYA, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

DPATY TRANSITION (STRYA7.DPATY)
JBULL TRANSITION (STRYA7.JBULL)

(STYCK7.STYCK) 19115 AL-10328 (FAA)

STYCK SEVEN DEPARTURE (RNAV)

HOUSTON EXECUTIVE (TME)
HOUSTON, TEXAS



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 18: Climb heading 175° to 680 for RADAR vectors to BBYSE, thence. . . .
TAKEOFF RWY 36: Climb heading 355° to 680 for RADAR vectors to BBYSE, thence. . . .

. . . .on track 331° to SPICR, then on track 331° to WLLIS, then on track 332° to STYCK, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

DOLEY TRANSITION (STYCK7.DOLEY)
WTSON TRANSITION (STYCK7.WTSON)

SC-5, 25 FEB 2021 to 22 APR 2021
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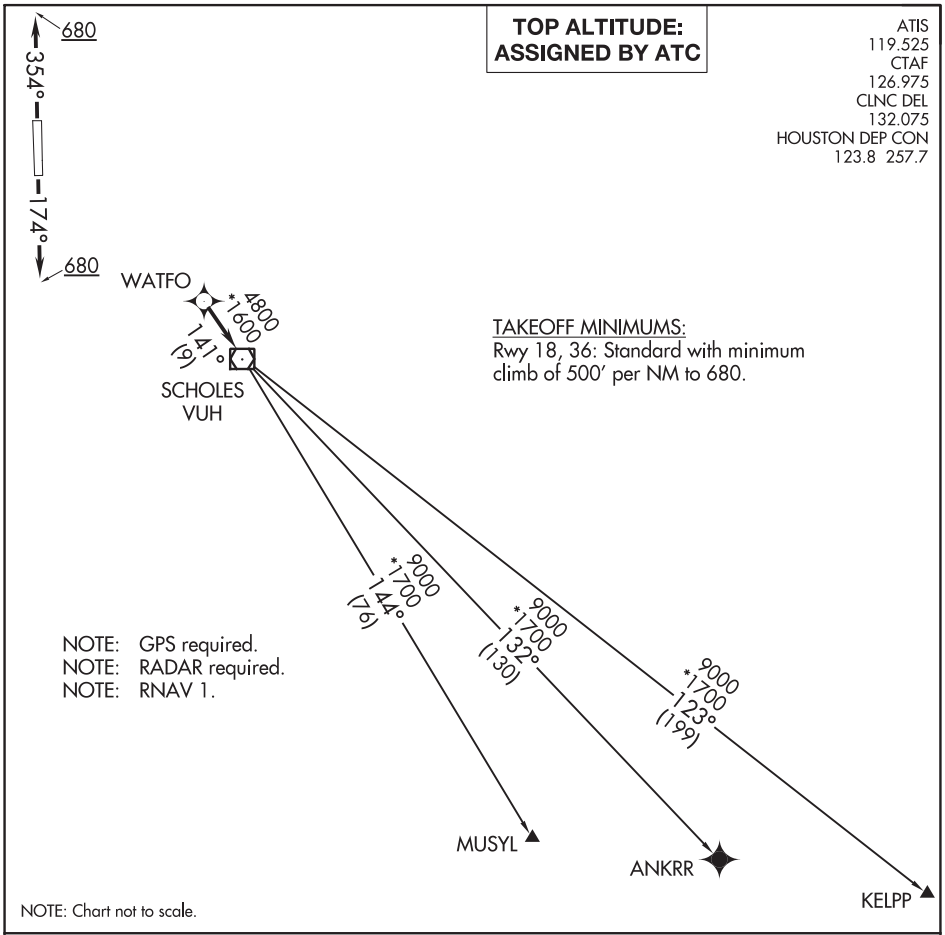
WATFO FIVE DEPARTURE (RNAV)



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 18: Climb on heading 174° to 680, for RADAR vectors to WATFO, thence. . . .
TAKEOFF RWY 36: Climb on heading 354° to 680, for RADAR vectors to WATFO, thence. . . .

. . . .on track 141° to VUH VOR/DME, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

ANKRR TRANSITION (WATFO5.ANKRR)
KELPP TRANSITION (WATFO5.KELPP)
MUSYL TRANSITION (WATFO5.MUSYL)

(WYLSN7.WYLSN) 19115 AL-10328 (FAA)

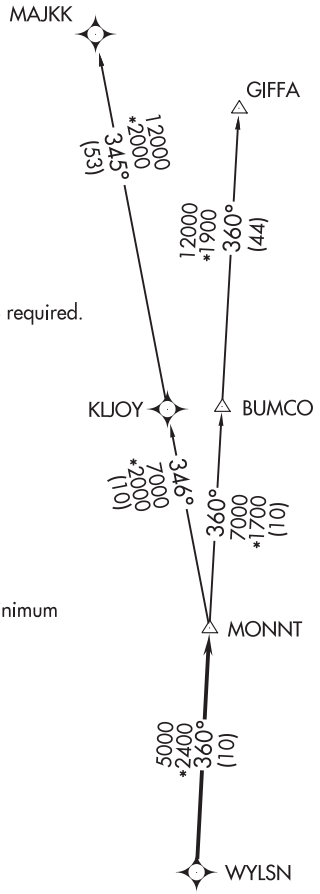
HOUSTON EXECUTIVE (TME)

WYLSN SEVEN DEPARTURE (RNAV)

HOUSTON, TEXAS

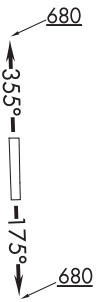
ATIS
119.525
CLNC DEL
132.075
CTAF
126.975
HOUSTON DEP CON
123.8 257.7

TOP ALTITUDE: ASSIGNED BY ATC



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

TAKEOFF MINIMUMS
Rwy 18, 36: Standard with minimum climb of 500′ per NM to 680.



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 18: Climb on heading 175° to 680 for RADAR vectors to WYLSN, thence. . . .
TAKEOFF RWY 36: Climb on heading 355° to 680 for RADAR vectors to WYLSN, thence. . . .

. . . .on track 360° to MONNT, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

GIFFA TRANSITION (WYLSN7.GIFFA)
MAJKK TRANSITION (WYLSN7.MAJKK)

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APP CRS	Rwy ldg	5002
089°	TDZE	69
	Apt Elev	69

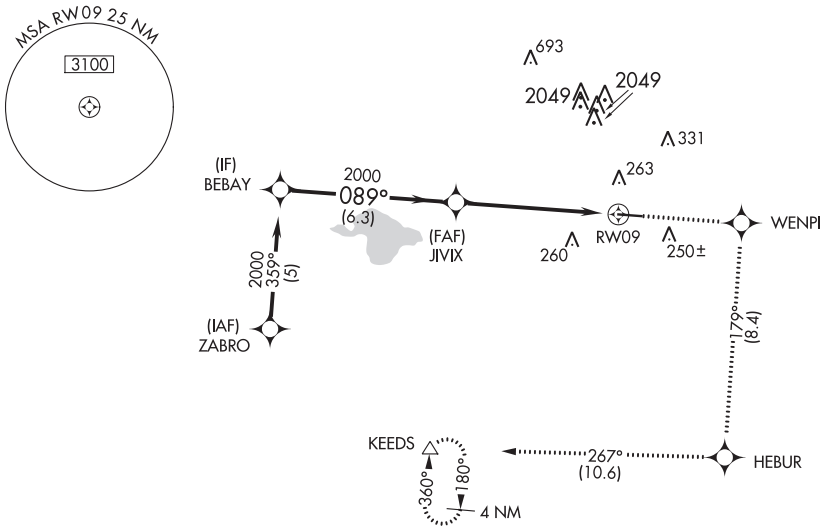
RNAV (GPS) RWY 9
HOUSTON-SOUTHWEST (AXH)

RNP APCH.

Circling Rwy 27 NA at night.
Rwy 9 helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 2700 direct WENPI and on track 179° to HEBUR and on track 267° to KEEDS and hold.

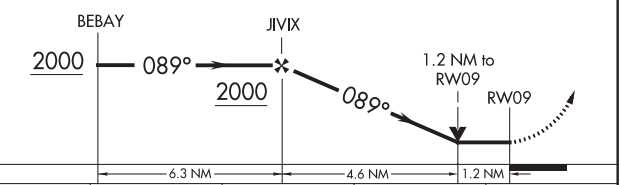
AWOS-3	HOUSTON APP CON	CLNC DEL	UNICOM
123.625	123.8 257.7	120.8	123.0 (CTAF) L

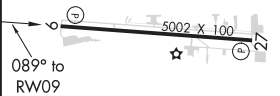


ELEV 69 TDZE 69

VGSI and descent angles not coincident (VGSI Angle 3.50/TCH 50).

2700	WENPI	tr 179°	HEBUR	tr 267°	KEEDS





CATEGORY	A	B	C	D
LNAV MDA	580-1	511 (600-1)	580-1½ 511 (600-1½)	NA
CIRCLING	620-1	551 (600-1)	620-1½ 551 (600-1½)	NA

REIL Rwys 9 and 27 L
MIRL Rwy 9-27 L

SC-5, 25 FEB 2021 to 22 APR 2021

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HOUSTON, TEXAS | AL-6575 (FAA) | 20142

WAAS CH 81903 W27A	APP CRS 269°	Rwy ldg 5002 TDZE 67 Apt Elev 68

RNAV (GPS) RWY 27
HOUSTON-SOUTHWEST (AXH)

RNP APCH.

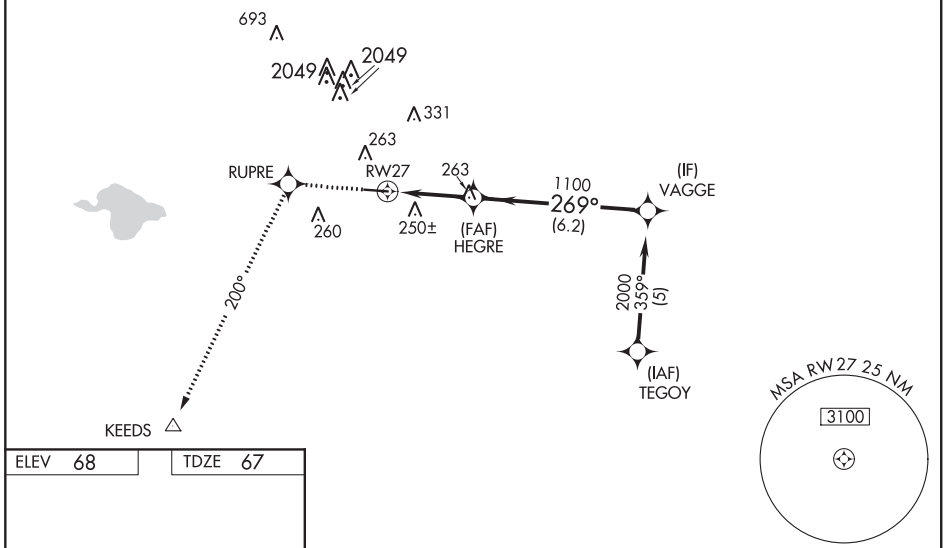
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 54°C (130°F). Rwy 27 helicopter visibility reduction below ¾ SM NA. Obtain local altimeter setting on CTAF; when not received use William P. Hobby altimeter setting and increase all DAs/MDA's 40 feet, and LPV, LNAV Cat C visibility ¼ mile. Baro-VNAV NA when using William P. Hobby altimeter setting.

NA

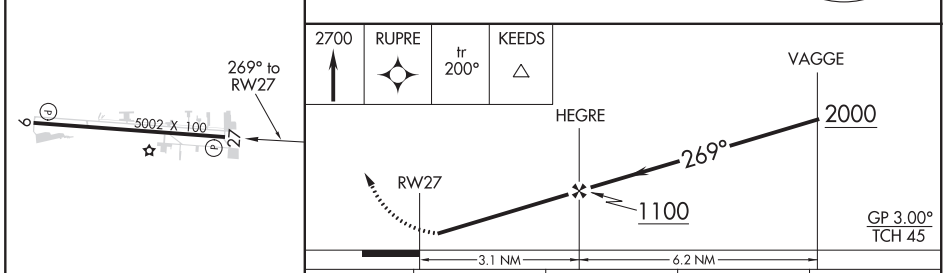
MISSED APPROACH: Climb to 2700 direct RUPRE and via 200° track to KEEDS.

AWOS-3	HOUSTON APP CON	CLNC DEL	UNICOM
123.625	123.8 257.7	120.8	123.0 (CTAF) L

RADAR REQUIRED



ELEV 68 | TDZE 67



CATEGORY	A	B	C	D
LPV DA	367-1 300 (300-1)			NA
LNAV/VNAV DA	604-2 537 (600-2)			NA
LNAV MDA	560-1 493 (500-1)		560-1¼ 493 (500-1¼)	NA

REIL Rwy 9 and 27 L
MIRL Rwy 9-27 L

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LOC/DME I-AXH 108.9 Chan 26	APP CRS 089°	Rwy ldg 5002 TDZE 69 Apt Elev 69

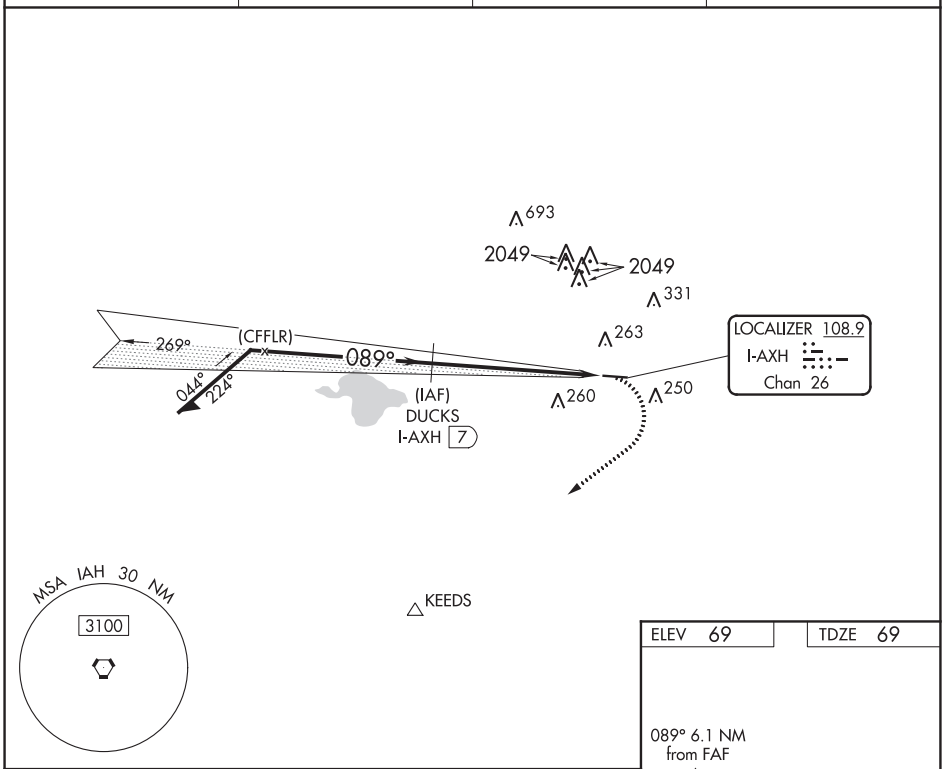
LOC RWY 9
HOUSTON-SOUTHWEST (AXH)

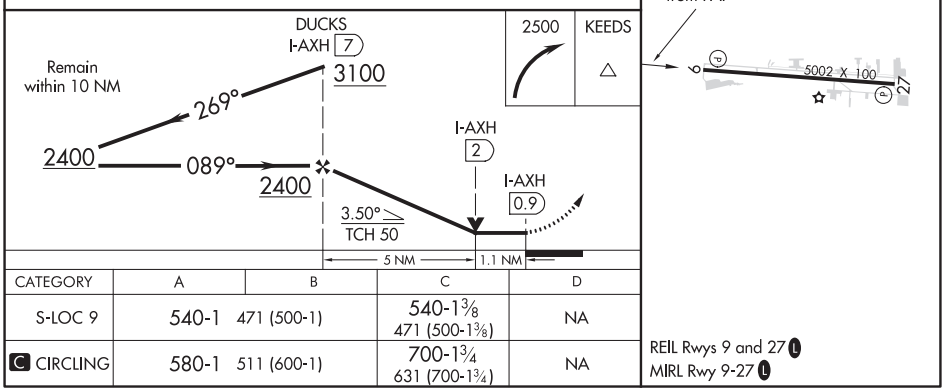
RNAV 1-GPS.

NA Rwy 9 helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climbing right turn to 2500 direct KEEDS.

AWOS-3	HOUSTON APP CON	CLNC DEL	UNICOM
123.625	123.8 257.7	120.8	123.0 (CTAF)





CATEGORY	A	B	C	D
S-LOC 9	540-1 471 (500-1)		540-1⅜ 471 (500-1⅜)	NA
C CIRCLING	580-1 511 (600-1)		700-1¾ 631 (700-1¾)	NA

REIL Rwys 9 and 27

MIRL Rwy 9-27

SC-5, 25 FEB 2021 to 22 APR 2021

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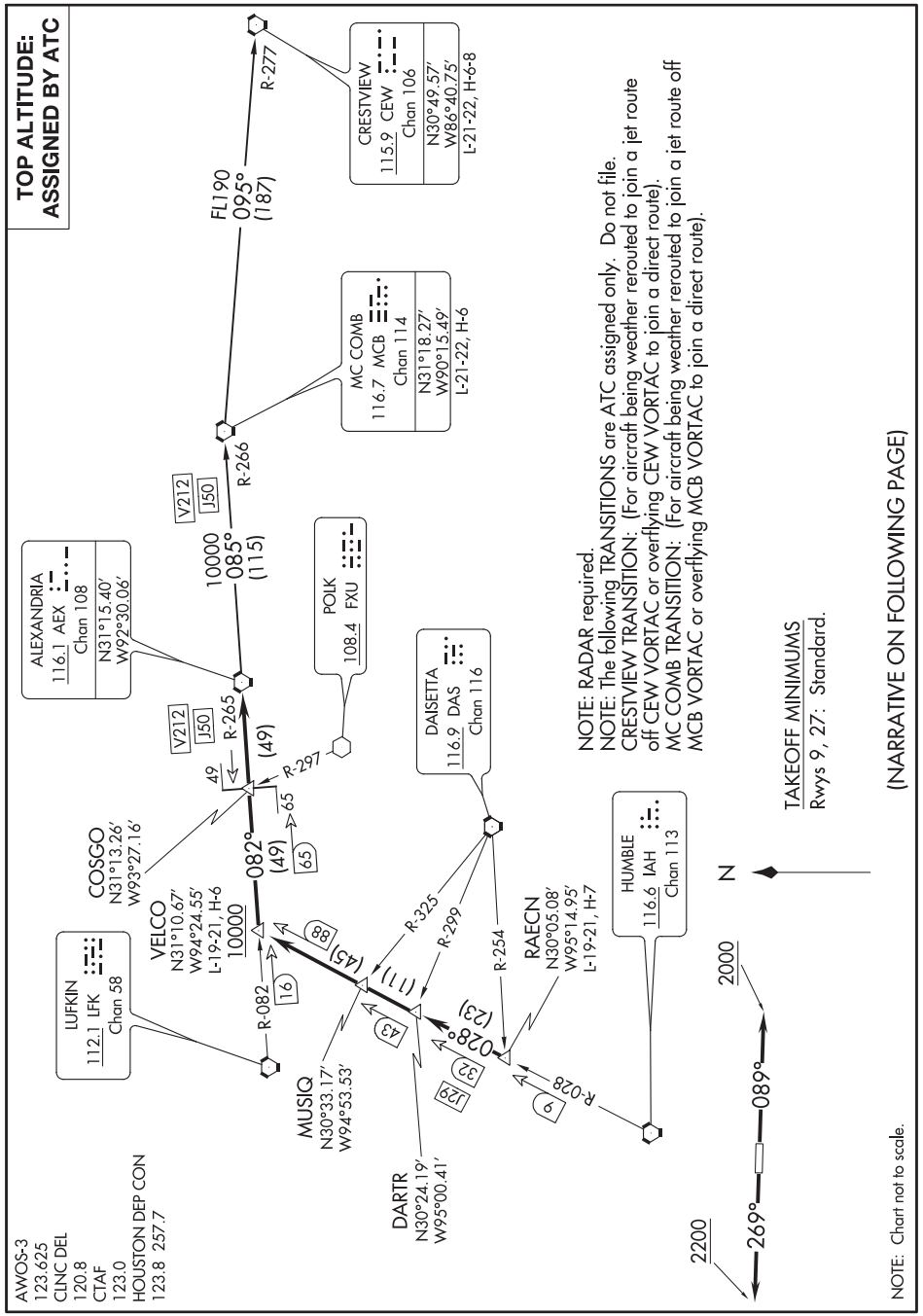
(AEX2.AEX) 19339 AL-6575 (FAA)

ALEXANDRIA TWO DEPARTURE

HOUSTON-SOUTHWEST (AXH)
HOUSTON, TEXAS



SC-5, 25 FEB 2021 to 22 APR 2021

ALEXANDRIA TWO DEPARTURE

(AEX2.AEX) 05DEC19

HOUSTON, TEXAS
HOUSTON-SOUTHWEST (AXH)

ALEXANDRIA TWO DEPARTURE

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 9: Climb heading 089° to 2000 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to RAECN INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .
TAKEOFF RWY 27: Climb heading 269° to 2200 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to RAECN INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .

. . . .on IAH R-028 to VELCO INT, cross VELCO INT at or above 10000, then right turn on LFK R-082 and AEX R-265 to AEX VORTAC.

CRESTVIEW TRANSITION (AEX2.CEW): From over AEX VORTAC on AEX R-085 and MCB R-266 to MCB VORTAC, then on MCB R-095 and CEW R-277 to CEW VORTAC.

MC COMB TRANSITION (AEX2.MCB): From over AEX VORTAC on AEX R-085 and MCB R-266 to MCB VORTAC.

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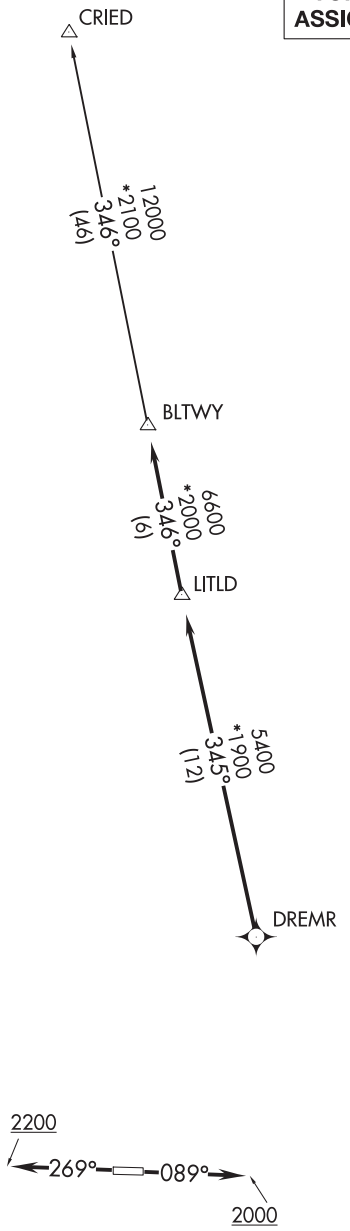
(BLTWY6.BLTWY) 19115

BLTWY SIX DEPARTURE (RNAV)

HOUSTON-SOUTHWEST (AXH)
HOUSTON, TEXAS

TOP ALTITUDE: ASSIGNED BY ATC

AWOS-3
123.625
CLNC DEL
120.8
CTAF
123.0
HOUSTON DEP CON
123.8 257.7



NOTE: RADAR required.

NOTE: DME/DME/IRU or GPS required.

NOTE: RNAV 1.

TAKEOFF MINIMUMS

Rwy 9, 27: Standard with minimum climb of 500′ per NM to 580.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 9: Climb heading 089° to 2000 for RADAR vectors to DREMR, thence . . . .

TAKEOFF RWY 27: Climb heading 269° to 2200 for RADAR vectors to DREMR, thence . . . .

...on track 345° to LITLD, then on track 346° to BLTWY, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

CRIED TRANSITION (BLTWY6.CRIED)

NOTE: Chart not to scale.

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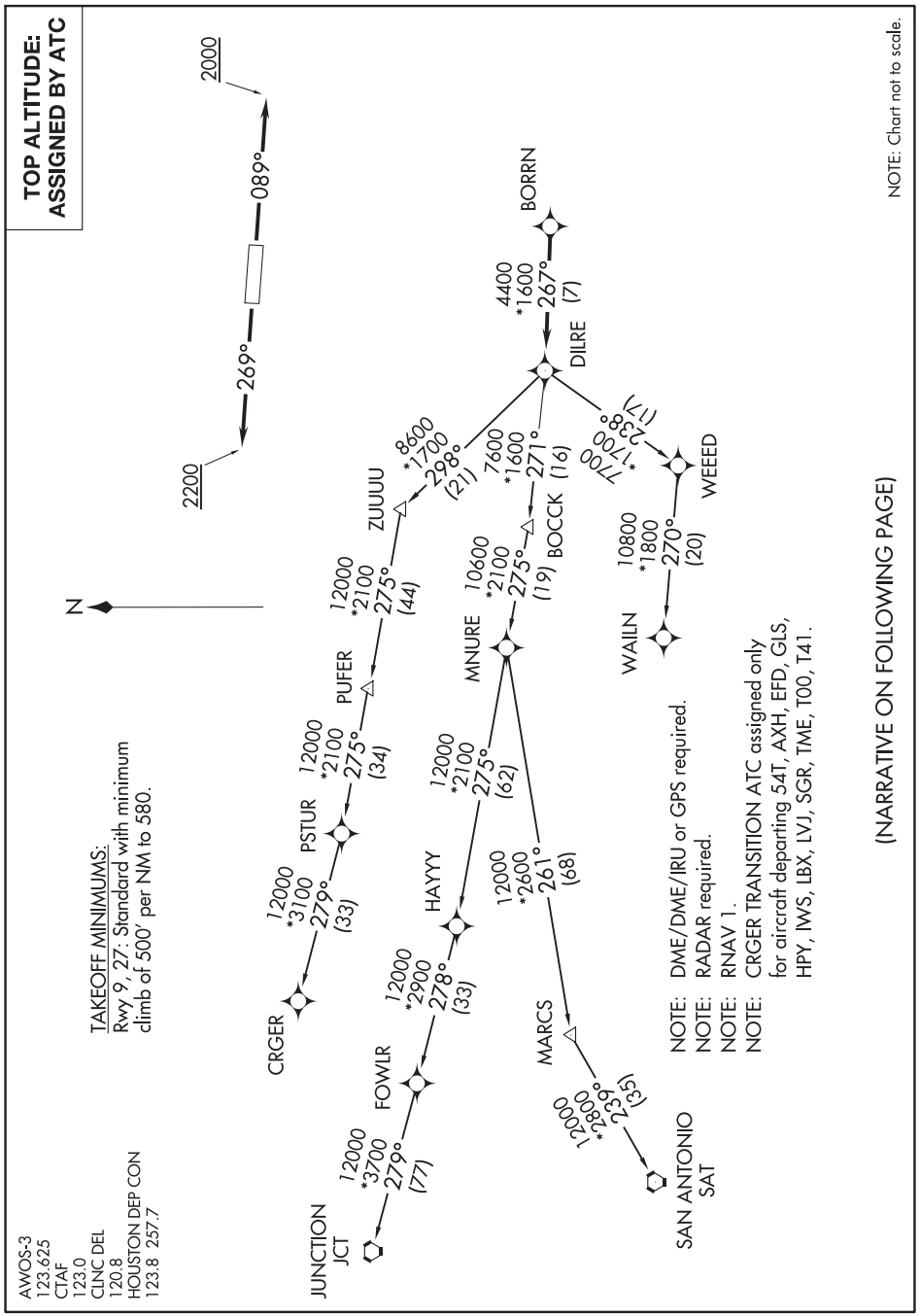
BLTWY SIX DEPARTURE (RNAV)
(BLTWY6.BLTWY) 25APR19
HOUSTON, TEXAS
HOUSTON-SOUTHWEST (AXH)

BORRN FOUR DEPARTURE (RNAV)



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 9: Climb on heading 089° to 2000, for RADAR vectors to BORRN, thence. . . .
TAKEOFF RWY 27: Climb on heading 269° to 2200, for RADAR vectors to BORRN, thence. . . .

. . . .on track 267° to DILRE, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

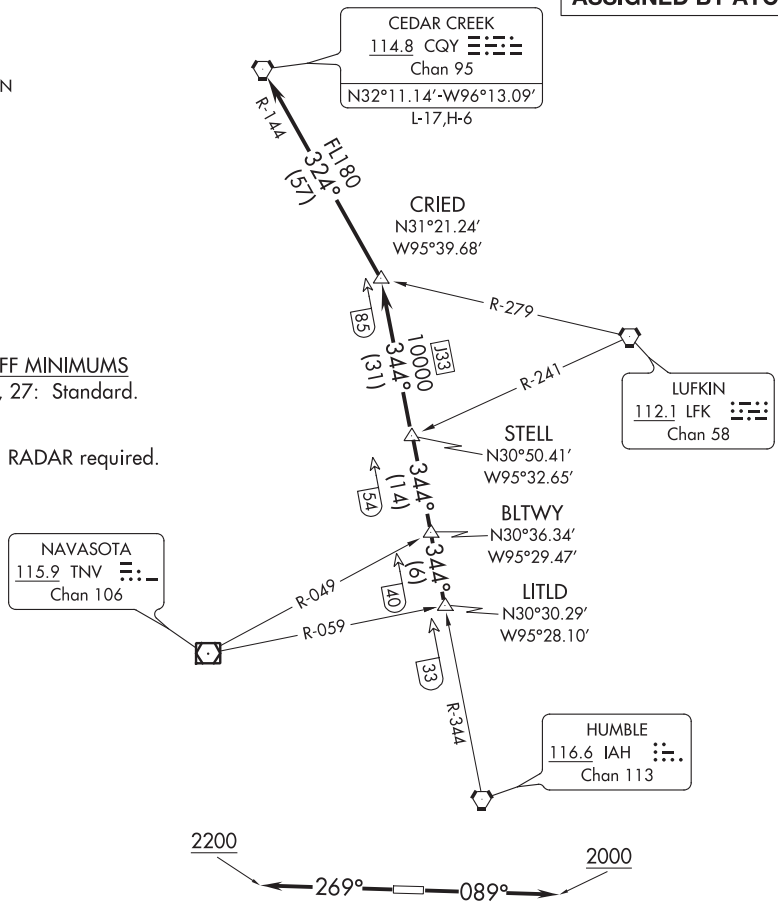
CRGER TRANSITION (BORRN4.CRGER)
JUNCTION TRANSITION (BORRN4.JCT)
MNURE TRANSITION (BORRN4.MNURE)
SAN ANTONIO TRANSITION (BORRN4.SAT)
WAILN TRANSITION (BORRN4.WAILN)

CRIED NINE DEPARTURE

AL-6575 (FAA)

AWOS-3
123.625
CLNC DEL
120.8
CTAF
123.0
HOUSTON DEP CON
123.8 257.7

TOP ALTITUDE: ASSIGNED BY ATC



TAKEOFF MINIMUMS
Rwys 9, 27: Standard.

NOTE: RADAR required.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

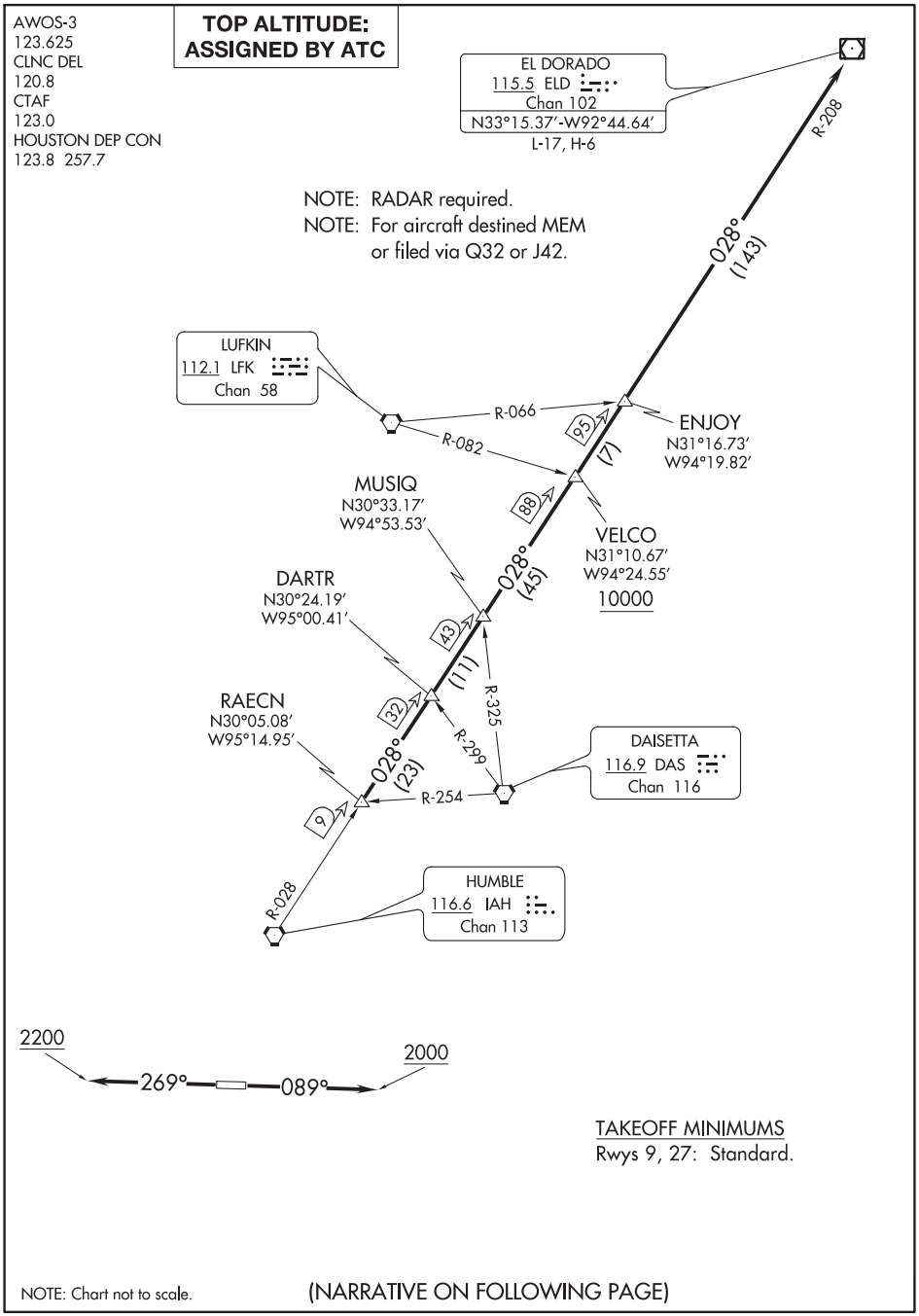
TAKEOFF RWY 9: Climb heading 089° to 2000 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to LITLD INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .
TAKEOFF RWY 27: Climb heading 269° to 2200 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to LITLD INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .

. . . . on IAH R-344 to STELL INT, then on IAH R-344 to CRIED INT then left turn on CQY R-144 to CQY VORTAC.

(ELD9.ELD) 18032 AL-6575 (FAA)

EL DORADO NINE DEPARTURE

HOUSTON-SOUTHWEST (AXH)
HOUSTON, TEXAS



NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

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DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 9: Climb heading 089° to 2000 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to RAECN INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .
TAKEOFF RWY 27: Climb heading 269° to 2200 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to RAECN INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .

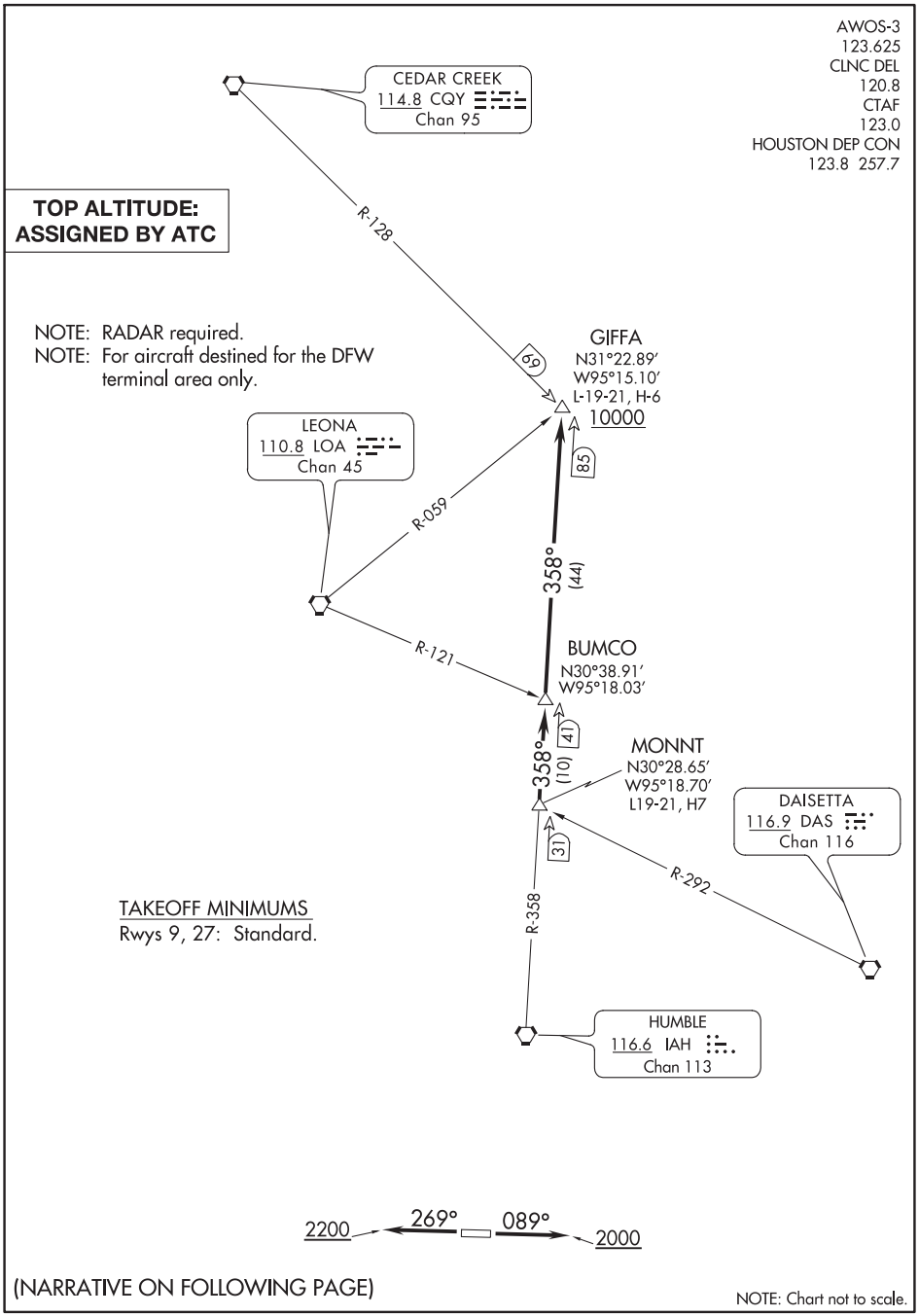
. . . .on IAH R-028 and the ELD R-208 to ELD VOR/DME, cross VELCO INT at or above 10000.

(GIFFA9.GIFFA) 18032

GIFFA NINE DEPARTURE

AL-6575 (FAA)

HOUSTON-SOUTHWEST (AXH)
HOUSTON, TEXAS



(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.

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SC-5, 25 FEB 2021 to 22 APR 2021

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 9: Climb heading 089° to 2000 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to MONNT INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence . . . .
TAKEOFF RWY 27: Climb heading 269° to 2200 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to MONNT INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence . . . .

. . . . on IAH R-358 to cross GIFFA INT at or above 10000.

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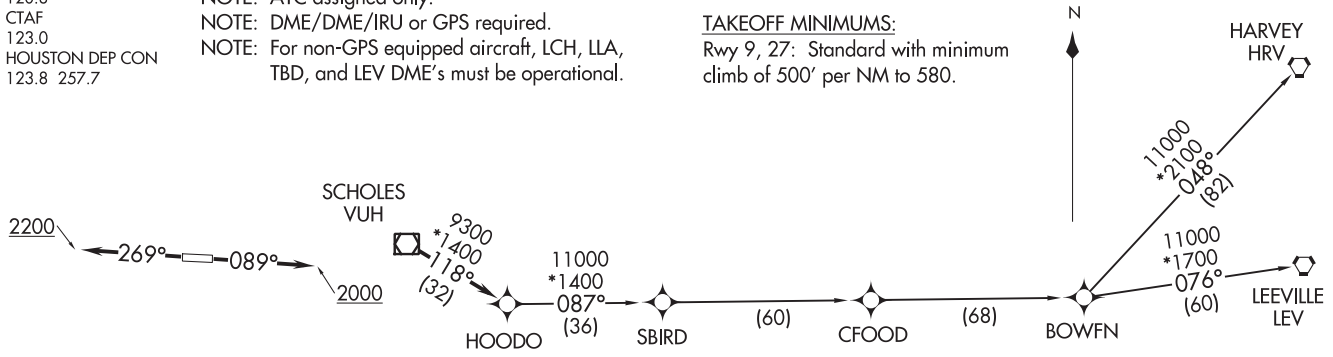
AWOS-3
126.325
CLNC DEL
120.8
CTAF
123.0
HOUSTON DEP CON
123.8 257.7

NOTE: RNAV 1.
NOTE: RADAR required.
NOTE: ATC assigned only.
NOTE: DME/DME/IRU or GPS required.
NOTE: For non-GPS equipped aircraft, LCH, LLA, TBD, and LEV DME's must be operational.

TOP ALTITUDE: ASSIGNED BY ATC

TAKEOFF MINIMUMS:
Rwy 9, 27: Standard with minimum climb of 500′ per NM to 580.



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 9: Climb heading 089° to 2000, for RADAR vectors to VUH VOR/DME, thence . . . .
TAKEOFF RWY 27: Climb heading 269° to 2200, for RADAR vectors to VUH VOR/DME, thence . . . .

. . . . on track 118° to HOODO, then on (transition). Maintain ATC assigned altitude.
Expect filed altitude 10 minutes after departure.

BOWFN TRANSITION (HOODO6.BOWFN)
CFOOD TRANSITION (HOODO6.CFOOD)
HARVEY TRANSITION (HOODO6.HRV)
LEEVILLE TRANSITION (HOODO6.LEV)
SBIRD TRANSITION (HOODO6.SBIRD)

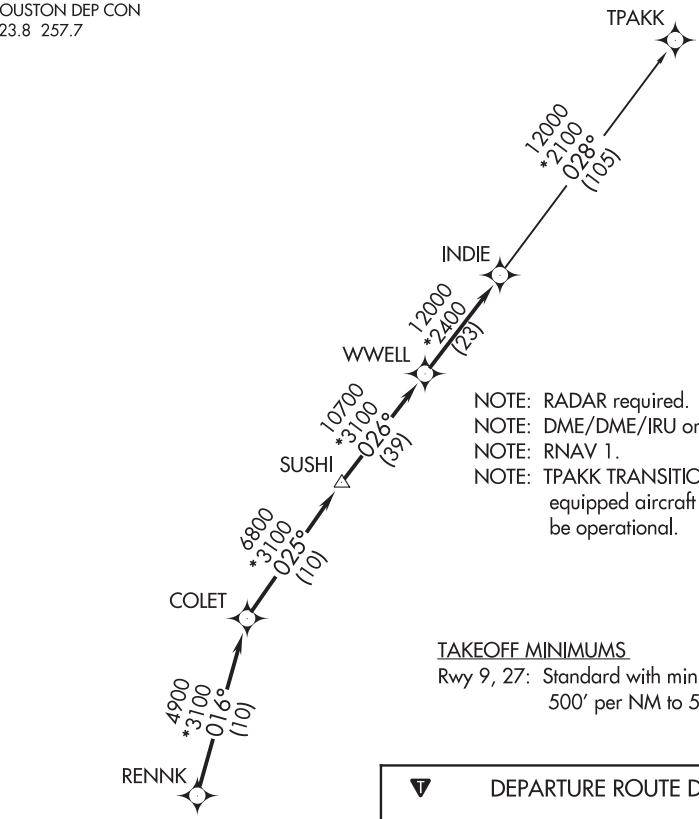
(INDIE7.INDIE) 19115

INDIE SEVEN DEPARTURE (RNAV)

HOUSTON-SOUTHWEST (AXH)
HOUSTON, TEXAS

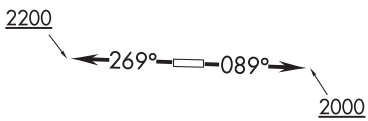
TOP ALTITUDE: ASSIGNED BY ATC

AWOS-3
123.625
CLNC DEL
120.8
CTAF
123.0
HOUSTON DEP CON
123.8 257.7



NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV 1.
NOTE: TPAKK TRANSITION: For non GPS equipped aircraft TNV DME must be operational.

TAKEOFF MINIMUMS
Rwy 9, 27: Standard with minimum climb of 500′ per NM to 580.



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 9: Climb heading 089° to 2000 for RADAR vectors to RENNK, thence . . . .
TAKEOFF RWY 27: Climb heading 269° to 2200 for RADAR vectors to RENNK, thence . . . .

. . . . on track 016° to COLET, then on track 025° to SUSHI, then on track 026° to WWELL, then on track 026° to INDIE, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

TPAKK TRANSITION (INDIE7.TPAKK)

NOTE: Chart not to scale.

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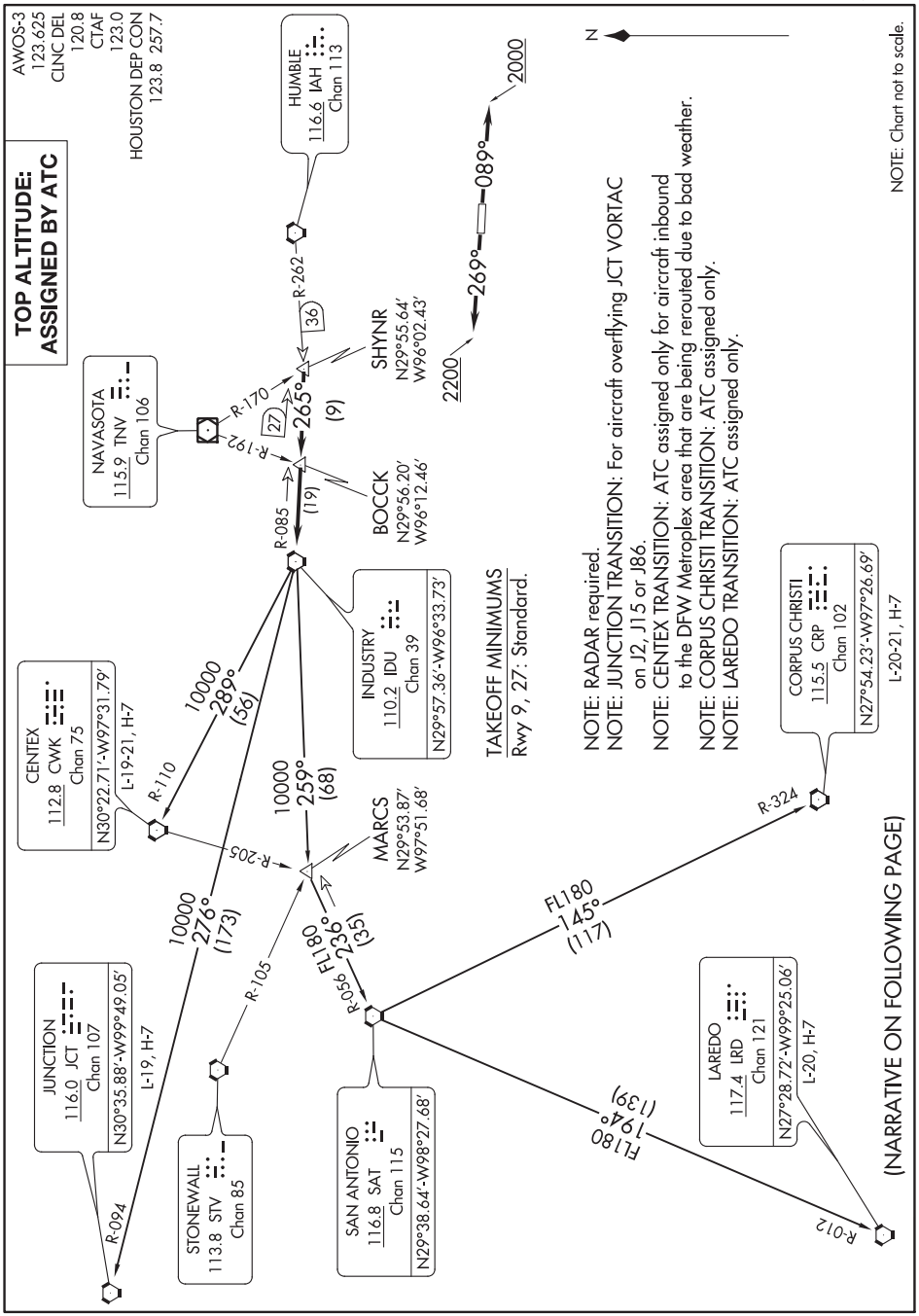
(IDU9.IDU) 18032

INDUSTRY NINE DEPARTURE

AL-6575 (FAA)

HOUSTON-SOUTHWEST (AXH)
HOUSTON, TEXAS



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INDUSTRY NINE DEPARTURE

(IDU9.IDU) 22JUN17

HOUSTON, TEXAS
HOUSTON-SOUTHWEST (AXH)

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 9: Climb heading 089° to 2000 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to SHYNR INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence . . . .

TAKEOFF RWY 27: Climb heading 269° to 2200 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to SHYNR INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence . . . .

. . . . on IDU R-085 to BOCCK INT, then on IDU R-085 to IDU VORTAC.

CENTEX TRANSITION (IDU9.CWK): From over IDU VORTAC on IDU R-289 and CWK R-110 to CWK VORTAC.

CORPUS CHRISTI TRANSITION (IDU9.CRP): From over IDU VORTAC on IDU R-259 to MARCS INT, then on SAT R-056 to SAT VORTAC, then on SAT R-145 and CRP R-324 to CRP VORTAC.

JUNCTION TRANSITION (IDU9.JCT): From over IDU VORTAC on IDU R-276 and JCT R-094 to JCT VORTAC.

LAREDO TRANSITION (IDU9.LRD): From over IDU VORTAC on IDU R-259 to MARCS INT, then on SAT R-056 to SAT VORTAC, then on SAT R-194 and LRD R-012 to LRD VORTAC.

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(KARRR6.KARRR) 19339 AL-6575 (FAA)

KARRR SIX DEPARTURE (RNAV)

HOUSTON-SOUTHWEST (AXH)
HOUSTON, TEXAS

TOP ALTITUDE: ASSIGNED BY ATC

N

2000
089°
269°
2200

KARRR
4200
*2100
218°
(1)
KAVCY
7800
*1500
246°
(18)
SKUBA
9200
*1700
194°
(25)
RIIGG
1200
*2600
222°
(37)
PALACIOS
PSX
1200
*1800
219°
(49)
YOMOM
12000
*1500
247°
(17)
CORPUS CHRISTI
CRP
1200
*2100
204°
(53)
WWREN
12000
*1700
226°
(51)
TRUAX
NGP

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

NOTE: Chart not to scale.

TAKEOFF MINIMUMS
Rwys 9, 27:
Standard with minimum climb of 500′ per NM to 580.

AWOS-3
123.625
CTAF
123.0
CLNC DEL
120.8
HOUSTON DEP CON
123.8 257.7

(NARRATIVE ON FOLLOWING PAGE)

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KARRR SIX DEPARTURE (RNAV)

(KARRR6.KARRR) 05DEC19

HOUSTON, TEXAS
HOUSTON-SOUTHWEST (AXH)

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 9: Climb on heading 089° to 2000, for RADAR vectors to KARRR, thence. . . .
TAKEOFF RWY 27: Climb on heading 269° to 2200, for RADAR vectors to KARRR, thence. . . .

. . . .on track 218° to KAVCY, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

CORPUS CHRISTI TRANSITION (KARRR6.CRP)
PALACIOS TRANSITION (KARRR6.PSX)
TRUAX TRANSITION (KARRR6.NGP)
WWREN TRANSITION (KARRR6.WWREN)
YOMOM TRANSITION (KARRR6.YOMOM)

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(LOA3.LOA) 18032

LEONA THREE DEPARTURE

AL-6575 (FAA)

HOUSTON-SOUTHWEST (AXH)
HOUSTON, TEXAS

TOP ALTITUDE: ASSIGNED BY ATC

AWOS-3
123.625
CLNC DEL
120.8
CTAF
123.0
HOUSTON DEP CON
123.8 257.7

ARDMORE
116.7 ADM
Chan 114
N34°12.69′ - W97°10.10′
L-17, H-6

TULSA
114.4 TUL
Chan 91
N36°11.78′ - W95°47.29′

BONHAM
114.6 BYP
Chan 93
N33°32.25′ - W96°14.05′
L-17, H-6

RANGER
115.7 FUZ
Chan 104
N32°53.37′ - W97°10.77′
L-17, H-6

CEDAR CREEK
114.8 CQY
Chan 95
N32°11.14′ - W96°13.09′

DOLEY
N32°11.35′
W96°23.08′

WACO
115.3 ACT
Chan 100
N31°39.74′ - W97°16.14′

LEONA
110.8 LOA
Chan 45
N31° 07.44′ - W95° 58.08′

WLLIS
N30°32.08′
W95°39.10′

NAVASOTA
115.9 TNV
Chan 106

HUMBLE
116.6 IAH
Chan 113

R-156
FL180
336°
(127)
R-130
FL180
310°
(58)
R-173
FL180
353°
(81)
R-163
10000
334°
(67)
10000
341°
(65)
R-046
R-147
4000
327°
(39)
R-047
(38)
R-330

TAKEOFF MINIMUMS
Rwys 9, 27: Standard.

NOTE: RADAR required.
NOTE: Except for aircraft destined ACT or the DFW terminal area, all aircraft filing the LEONA SID must file one of the published transitions via FUZ (LOA3.FUZ) ADM (LOA3.ADM) or BYP (LOA3.BYP).
NOTE: RANGER TRANSITION: For aircraft overflying west/northwest of the DFW terminal area FL240 and above.
NOTE: ARDMORE TRANSITION: For aircraft overflying north/northwest of the DFW terminal area FL240 and above.
NOTE: BONHAM TRANSITION: For aircraft overflying/landing TUL VORTAC FL240 and above.

269° — 089°
2200
2000

NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

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DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 9: Climb heading 089° to 2000 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to WLLIS INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence . . . .

TAKEOFF RUNWAY 27: Climb heading 269° to 2200 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to WLLIS INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence . . . .

. . . . on LOA R-147 to LOA VORTAC.

ARDMORE TRANSITION (LOA3.ADM): From over LOA VORTAC on LOA R-334 to DOLEY INT, then on ADM R-156 to ADM VORTAC.

BONHAM TRANSITION (LOA3.BYP): From over LOA VORTAC on LOA R-341 and CQY R-163 to CQY VORTAC, then on BYP R-173 to BYP VORTAC.

RANGER TRANSITION (LOA3.FUZ): From over LOA VORTAC on LOA R-334 to DOLEY INT, then on FUZ R-130 to FUZ VORTAC.

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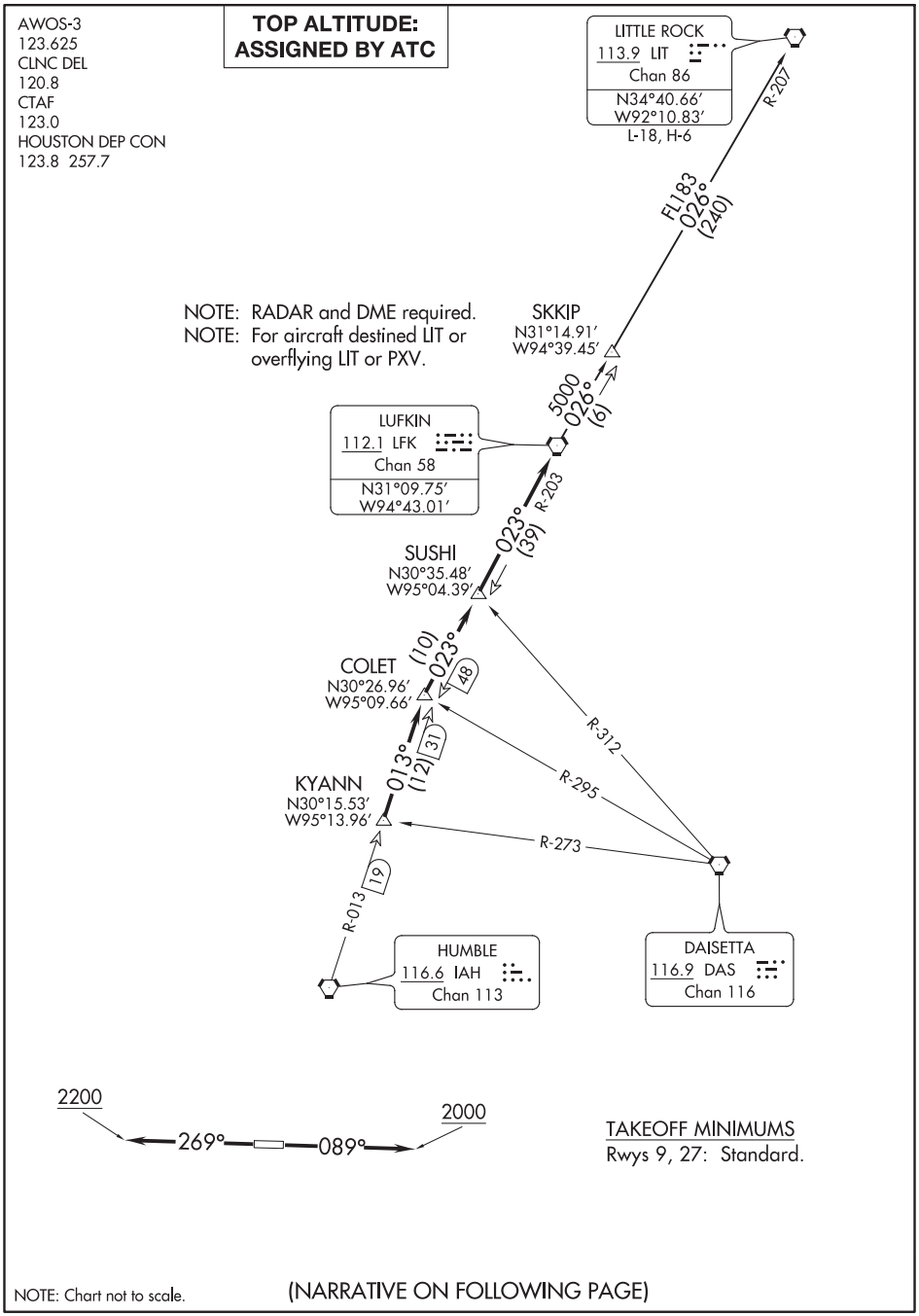
(LFK2.LFK) 18032

AL-6575 (FAA)

HOUSTON-SOUTHWEST (AXH)
HOUSTON, TEXAS

LUFKIN TWO DEPARTURE



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SC-5, 25 FEB 2021 to 22 APR 2021

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 9: Climb heading 089° to 2000 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to KYANN INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .
TAKEOFF RWY 27: Climb heading 269° to 2200 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to KYANN INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .

. . . .on IAH R-013 to COLET INT, then right turn on LFK R-203 to LFK VORTAC.

LITTLE ROCK TRANSITION (LFK2.LIT): From over LFK VORTAC on LFK R-026 to SKKIP INT, then on LFK R-026 and LIT R-207 to LIT VORTAC.

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(LURIC7.LURIC) 19115 AL-6575 (FAA)

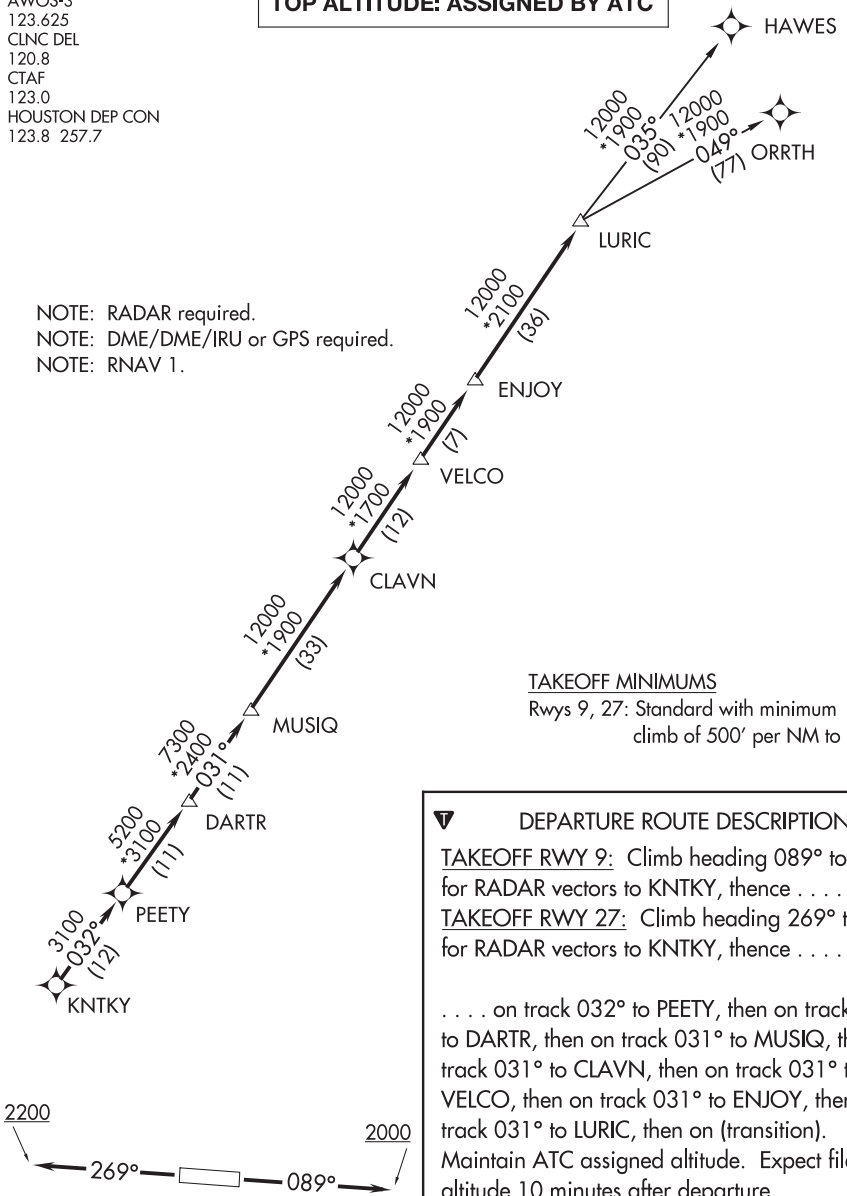
LURIC SEVEN DEPARTURE (RNAV)

HOUSTON-SOUTHWEST (AXH)
HOUSTON, TEXAS

TOP ALTITUDE: ASSIGNED BY ATC

AWOS-3
123.625
CLNC DEL
120.8
CTAF
123.0
HOUSTON DEP CON
123.8 257.7

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



TAKEOFF MINIMUMS
Rwys 9, 27: Standard with minimum climb of 500′ per NM to 580.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 9: Climb heading 089° to 2000 for RADAR vectors to KNTKY, thence . . . .
TAKEOFF RWY 27: Climb heading 269° to 2200 for RADAR vectors to KNTKY, thence . . . .

. . . . on track 032° to PEETY, then on track 032° to DARTR, then on track 031° to MUSIQ, then on track 031° to CLAVN, then on track 031° to VELCO, then on track 031° to ENJOY, then on track 031° to LURIC, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

HAWES TRANSITION (LURIC7.HAWES)
ORRTH TRANSITION (LURIC7.ORRTH)

NOTE: Chart not to scale.

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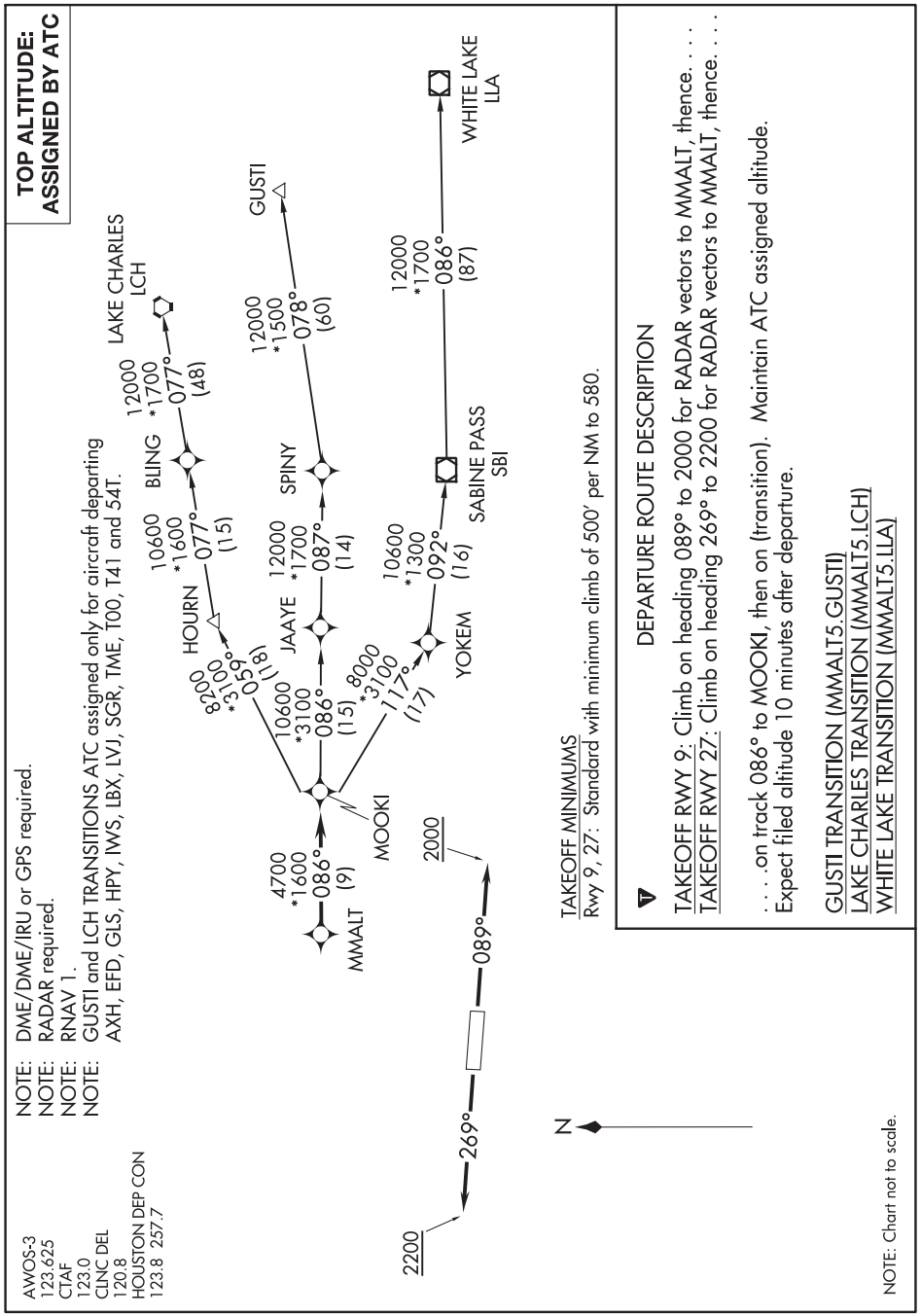
MMALT FIVE DEPARTURE (RNAV)



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(PSX1.PSX) 20254

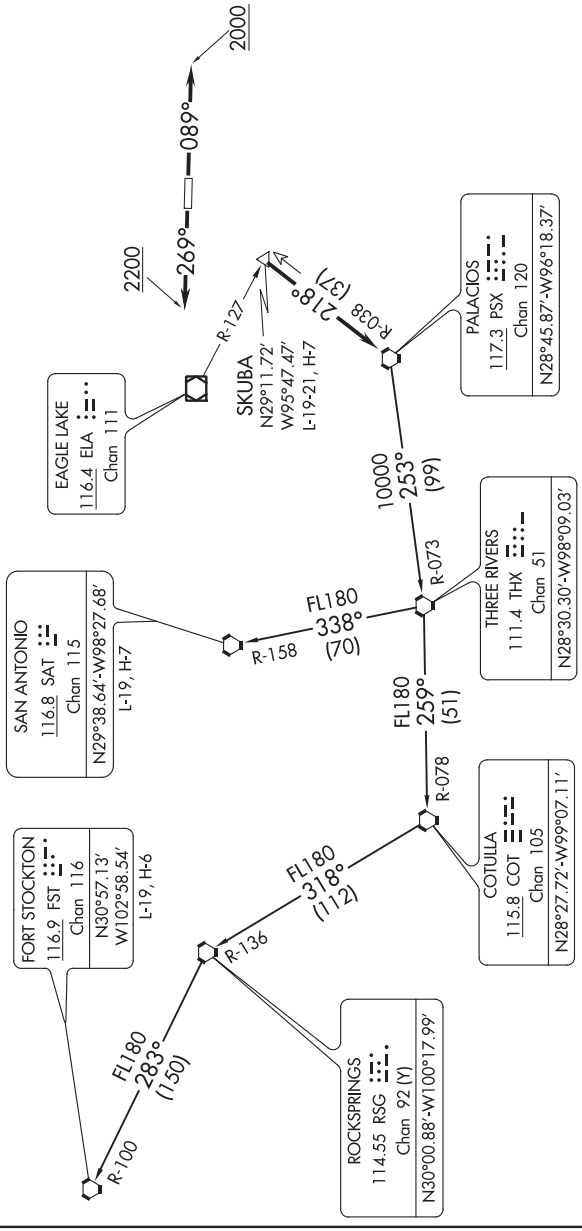
AL-6575 (FAA)

HOUSTON-SOUTHWEST (AXH)
HOUSTON, TEXAS

PALACIOS ONE DEPARTURE

TOP ALTITUDE: ASSIGNED BY ATC

TAKEOFF MINIMUMS
Rwy 9, 27: Standard.



AWOS-3
123.625
CLNC DEL
120.8
CTAF
123.0
HOUSTON DEP CON
123.8 257.7

(NARRATIVE ON FOLLOWING PAGE)

NOTE: RADAR required.
NOTE: Chart not to scale.

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PALACIOS ONE DEPARTURE

HOUSTON, TEXAS
HOUSTON-SOUTHWEST (AXH)

(PSX1.PSX) 20JUN19

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 9: Climb heading 089° to 2000 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to SKUBA INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .

TAKEOFF RWY 27: Climb heading 269° to 2200 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to SKUBA INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .

. . . .on PSX R-038 to PSX VORTAC.

FORT STOCKTON TRANSITION (PSX1.FST): From over PSX VORTAC on PSX R-253 and THX R-073 to THX VORTAC, then on THX R-259 and COT R-078 to COT VORTAC, then on COT R-318 and RSG R-136 to RSG VORTAC, then on RSG R-283 and FST R-100 to FST VORTAC.

SAN ANTONIO TRANSITION (PSX1.SAT): From over PSX VORTAC on PSX R-253 and THX R-073 to THX VORTAC, then on SAT R-158 to SAT VORTAC.

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(STRYA7.STRYA) 19115 AL-6575 (FAA)

STRYA SEVEN DEPARTURE (RNAV)

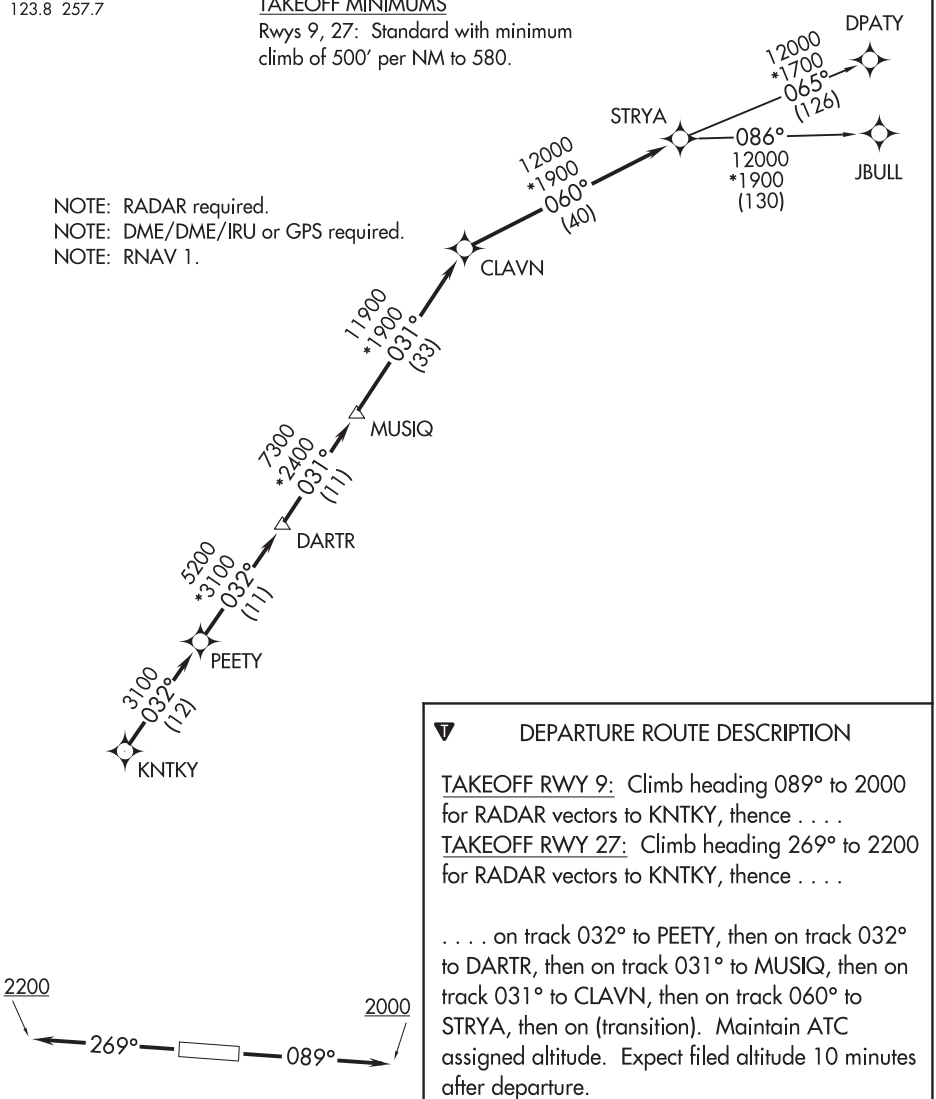
HOUSTON-SOUTHWEST (AXH)
HOUSTON, TEXAS

TOP ALTITUDE: ASSIGNED BY ATC

AWOS-3
123.625
CTAF
123.0
CLNC DEL
120.8
HOUSTON DEP CON
123.8 257.7

TAKEOFF MINIMUMS
Rwys 9, 27: Standard with minimum climb of 500′ per NM to 580.

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



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 9: Climb heading 089° to 2000 for RADAR vectors to KNTKY, thence . . . .
TAKEOFF RWY 27: Climb heading 269° to 2200 for RADAR vectors to KNTKY, thence . . . .

. . . . on track 032° to PEETY, then on track 032° to DARTR, then on track 031° to MUSIQ, then on track 031° to CLAVN, then on track 060° to STRYA, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

DPATY TRANSITION (STRYA7.DPATY)
JBULL TRANSITION (STRYA7.JBULL)

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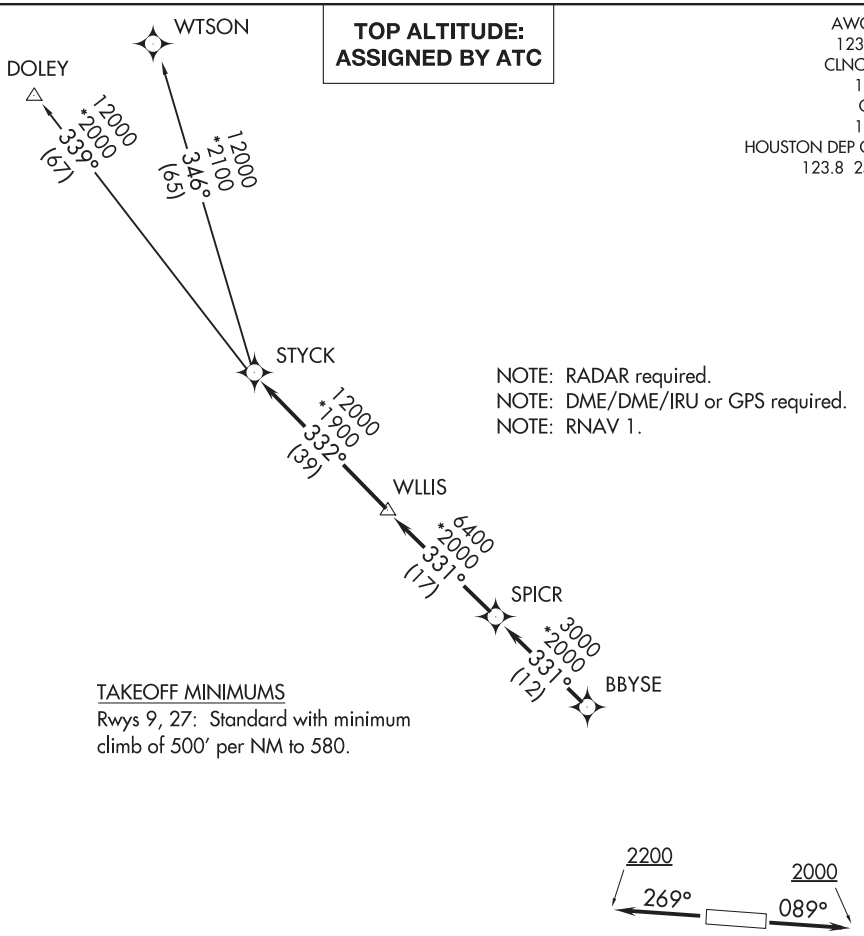
STRYA SEVEN DEPARTURE (RNAV)
(STRYA7.STRYA) 25APR19
HOUSTON, TEXAS
HOUSTON-SOUTHWEST (AXH)

STYCK SEVEN DEPARTURE (RNAV)

TOP ALTITUDE: ASSIGNED BY ATC

AWOS-3
123.625
CLNC DEL
120.8
CTAF
123.0
HOUSTON DEP CON
123.8 257.7



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

TAKEOFF MINIMUMS
Rwys 9, 27: Standard with minimum climb of 500′ per NM to 580.

NOTE: Chart not to scale.

SC-5, 25 FEB 2021 to 22 APR 2021

SC-5, 25 FEB 2021 to 22 APR 2021

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 9: Climb heading 089° to 2000 for RADAR vectors to BBYSE, thence. . . .
TAKEOFF RWY 27: Climb heading 269° to 2200 for RADAR vectors to BBYSE, thence. . . .

. . . .on track 331° to SPICR, then on track 331° to WLLIS, then on track 332° to STYCK, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

DOLEY TRANSITION (STYCK7.DOLEY)
WTSON TRANSITION (STYCK7.WTSON)

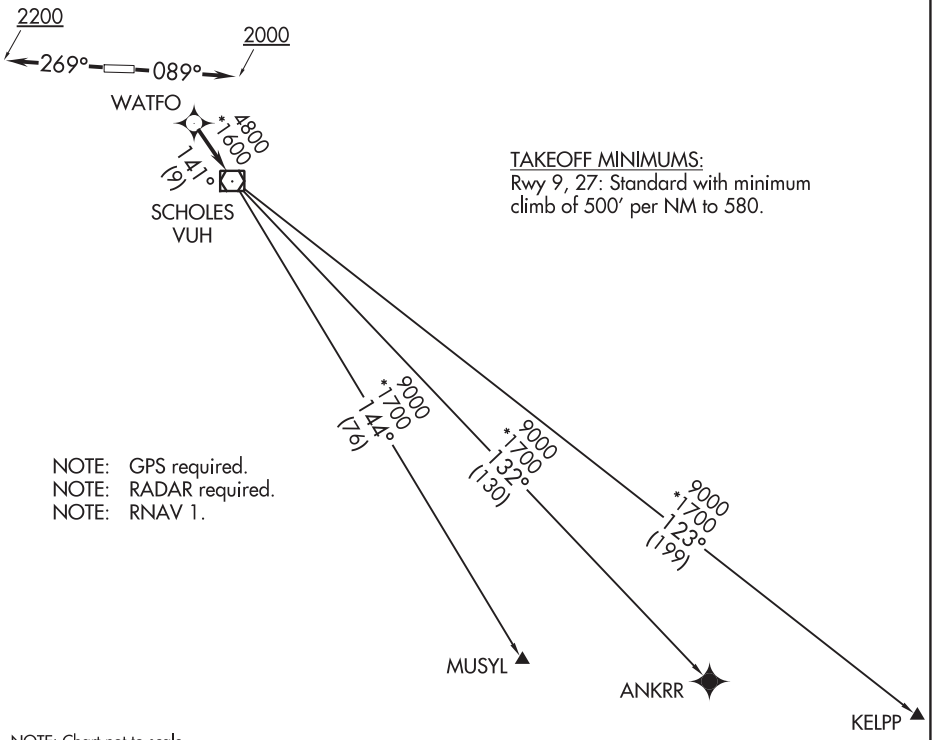
(WATFO5.WATFO) 19115 AL-6575 (FAA)

WATFO FIVE DEPARTURE (RNAV)

HOUSTON-SOUTHWEST (AXH)
HOUSTON, TEXAS

TOP ALTITUDE: ASSIGNED BY ATC

AWOS-3
123.625
CTAF
123.0
CLNC DEL
120.8
HOUSTON DEP CON
123.8 257.7



TAKEOFF MINIMUMS:
Rwy 9, 27: Standard with minimum climb of 500′ per NM to 580.

NOTE: GPS required.
NOTE: RADAR required.
NOTE: RNAV 1.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 9: Climb on heading 089° to 2000, for RADAR vectors to WATFO, thence. . . .
TAKEOFF RWY 27: Climb on heading 269° to 2200, for RADAR vectors to WATFO, thence. . . .

. . . .on track 141° to VUH VOR/DME, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

ANKRR TRANSITION (WATFO5.ANKRR)
KELPP TRANSITION (WATFO5.KELPP)
MUSYL TRANSITION (WATFO5.MUSYL)

SC-5, 25 FEB 2021 to 22 APR 2021

WATFO FIVE DEPARTURE (RNAV)
(WATFO5.WATFO) 25APR19
HOUSTON, TEXAS
HOUSTON-SOUTHWEST (AXH)

WYLSN SEVEN DEPARTURE (RNAV)

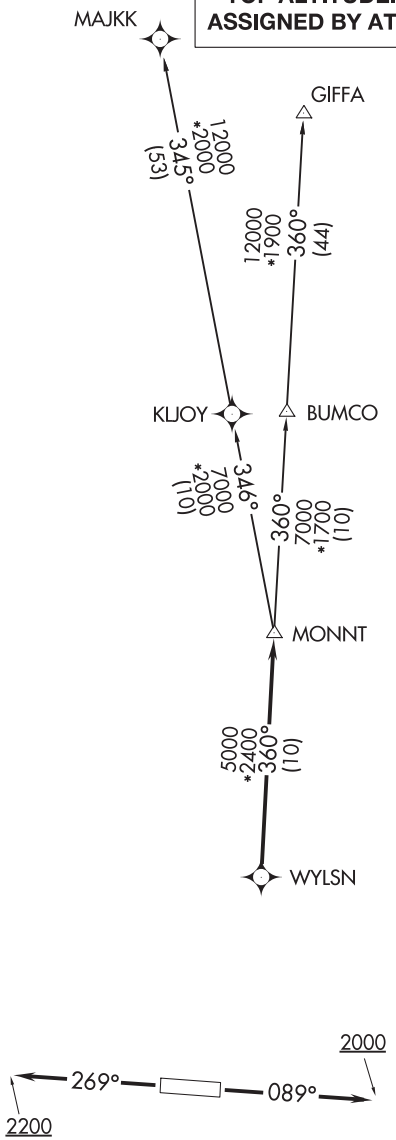
HOUSTON, TEXAS

AWOS-3
123.625
CLNC DEL
120.8
CTAF
123.0
HOUSTON DEP CON
123.8 257.7

TOP ALTITUDE: ASSIGNED BY ATC

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

TAKEOFF MINIMUMS
Rwy 9, 27: Standard with minimum climb of 500′ per NM to 580.



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 9: Climb on heading 089° to 2000 for RADAR vectors to WYLSN, thence. . . .
TAKEOFF RWY 27: Climb on heading 269° to 2200 for RADAR vectors to WYLSN, thence. . . .

. . . .on track 360° to MONNT, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

GIFFA TRANSITION (WYLSN7.GIFFA)
MAJKK TRANSITION (WYLSN7.MAJKK)

NOTE: Chart not to scale.

SC-5, 25 FEB 2021 to 22 APR 2021
SC-5, 25 FEB 2021 to 22 APR 2021

HOUSTON, TEXAS | AL-6460 (FAA) | 21056

RNAV (GPS) RWY 32

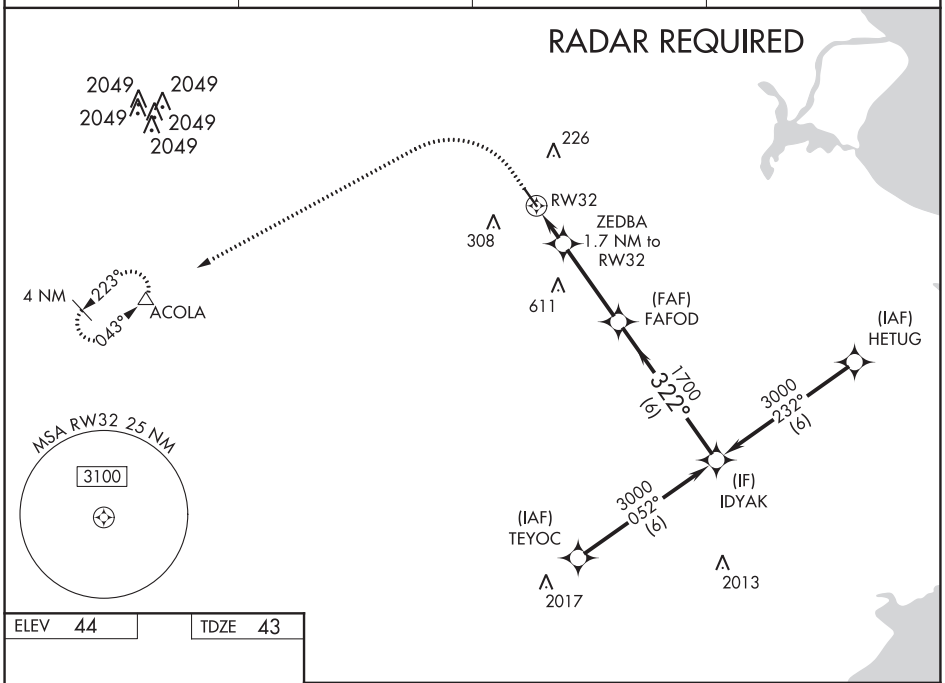
PEARLAND RGNL (LVJ)

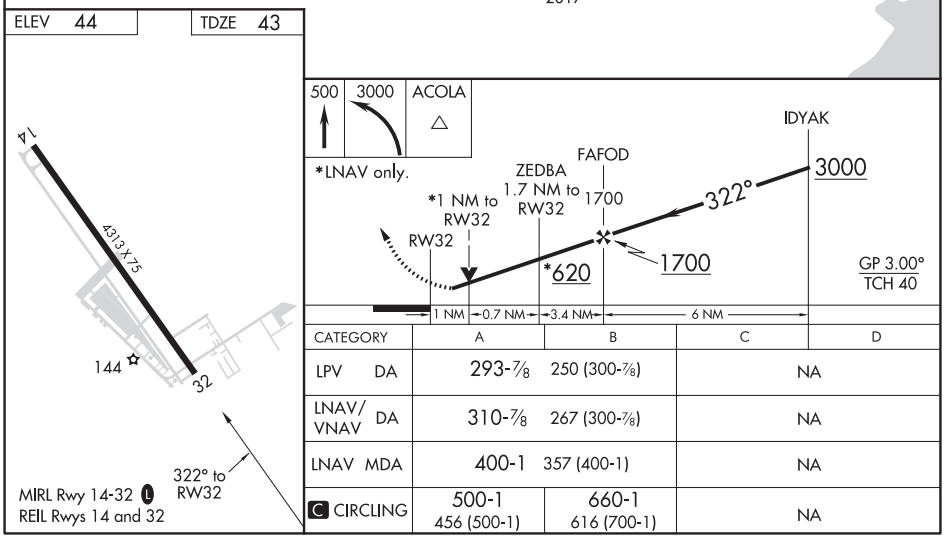
WAAS CH 93621 W32A	APP CRS 322°	Rwy ldg 4313 TDZE 43 Apt Elev 44

Circling to Rwy 14 NA at night. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -1°C (31°F) or above 54°C (130°F). When local altimeter setting not received, use William P Hobby altimeter setting and increase all DA 18 feet and all MDA 20 feet, increase LNAV/VNAV visibilities all Cats ⅛ mile. VDP and Baro-VNAV NA when using William P Hobby altimeter setting. DME/DME RNP-0.3 NA. Helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 500 then climbing left turn to 3000 direct ACOLA and hold.

ASOS	HOUSTON APP CON	CLNC DEL	UNICOM
118.525	134.45 284.0	124.0	122.725 (CTAF) L





CATEGORY	A	B	C	D
LPV DA	293-⅞	250 (300-⅞)	NA	
LNAV/VNAV DA	310-⅞	267 (300-⅞)	NA	
LNAV MDA	400-1	357 (400-1)	NA	
C CIRCLING	500-1 456 (500-1)	660-1 616 (700-1)	NA	

HOUSTON, TEXAS
Amdt 4A 02APR15

29°31′N-95°15′W

PEARLAND RGNL (LVJ)
RNAV (GPS) RWY 32

SC-5, 25 FEB 2021 to 22 APR 2021

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BLTWY SIX DEPARTURE (RNAV)

TOP ALTITUDE: ASSIGNED BY ATC

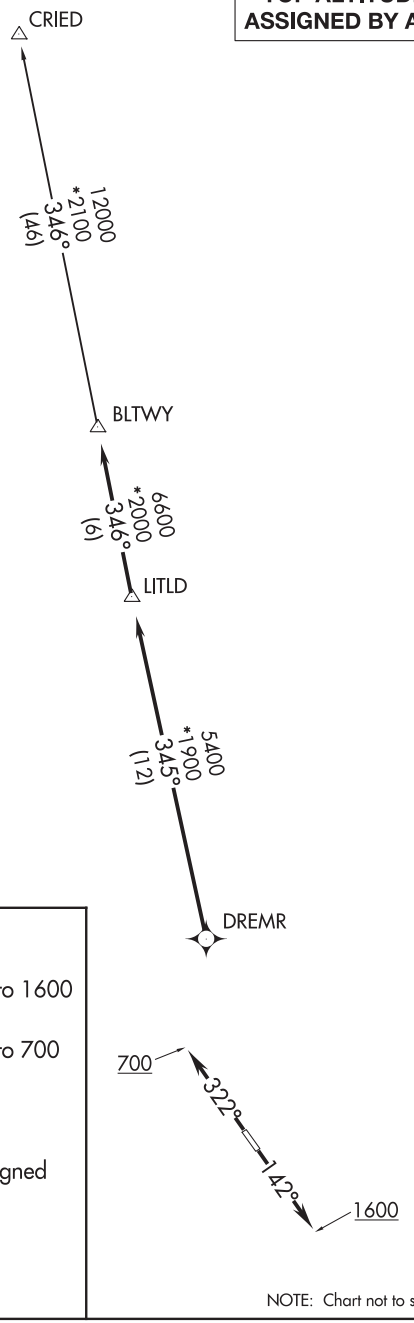
ASOS
118.525
CLNC DEL
124.0
CTAF
122.725
HOUSTON DEP CON
134.45 284.0

NOTE: RADAR required.

NOTE: DME/DME/IRU or GPS required.

NOTE: RNAV 1.

TAKEOFF MINIMUMS
Rwys 14, 32: Standard with minimum climb of 500′ per NM to 560.



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 14: Climb heading 142° to 1600 for RADAR vectors to DREMR, thence . . . .
TAKEOFF RUNWAY 32: Climb heading 322° to 700 for RADAR vectors to DREMR, thence . . . .

...on track 345° to LITLD, then on track 346° to BLTWY, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

CRIED TRANSITION (BLTWY6.CRIED)

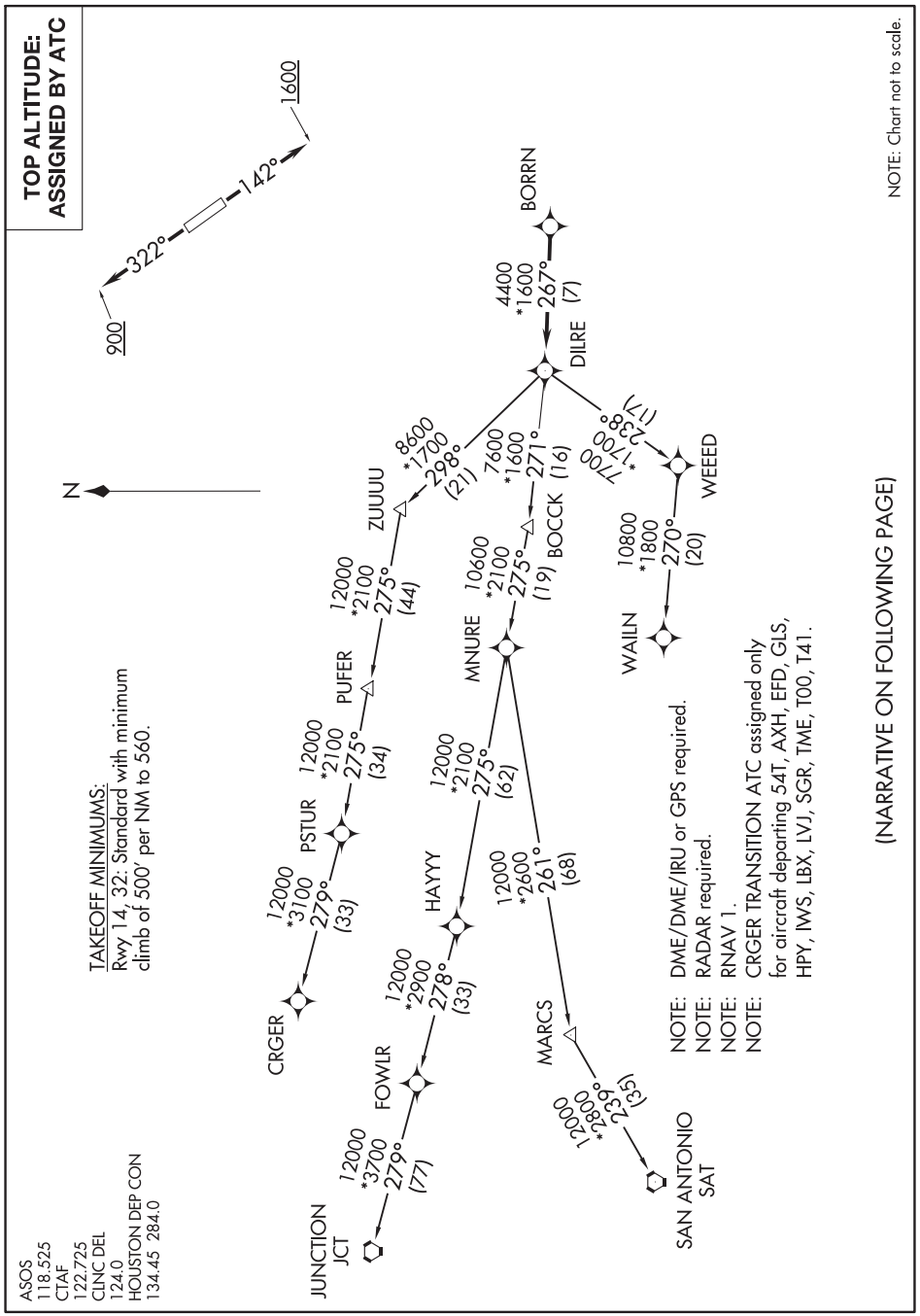
NOTE: Chart not to scale.

SC-5, 25 FEB 2021 to 22 APR 2021
SC-5, 25 FEB 2021 to 22 APR 2021

(BORRN4.BORRN) 21056 AL-6460 (FAA)

PEARLAND RGNL (LVJ)
HOUSTON, TEXAS

BORRN FOUR DEPARTURE (RNAV)



SC-5, 25 FEB 2021 to 22 APR 2021

BORRN FOUR DEPARTURE (RNAV)

(BORRN4.BORRN) 25APR19

HOUSTON, TEXAS
PEARLAND RGNL (LVJ)

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 14: Climb on heading 142° to 1600, for RADAR vectors to BORRN, thence. . . .
TAKEOFF RWY 32: Climb on heading 322° to 900, for RADAR vectors to BORRN, thence. . . .

. . . .on track 267° to DILRE, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

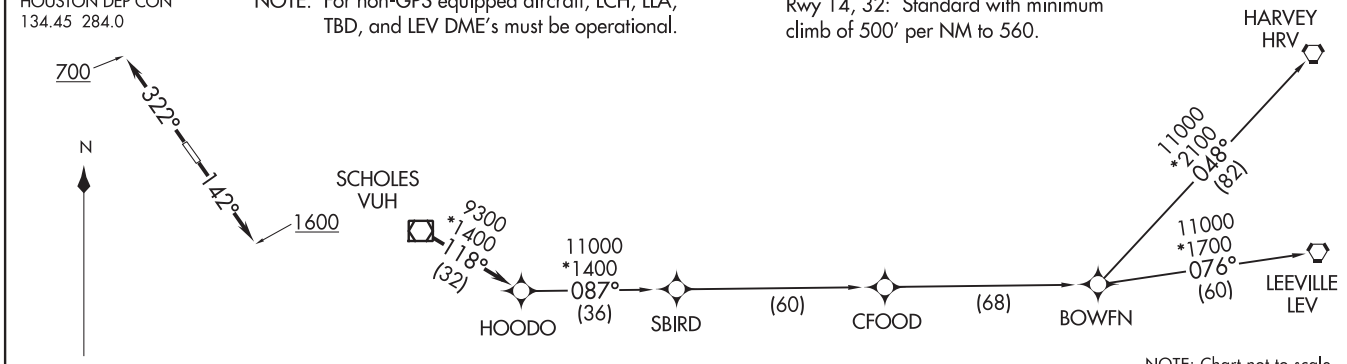
CRGER TRANSITION (BORRN4.CRGER)
JUNCTION TRANSITION (BORRN4.JCT)
MNURE TRANSITION (BORRN4.MNURE)
SAN ANTONIO TRANSITION (BORRN4.SAT)
WAILN TRANSITION (BORRN4.WAILN)

TOP ALTITUDE: ASSIGNED BY ATC

ASOS
118.525
CLNC DEL
124.0
CTAF
122.725
HOUSTON DEP CON
134.45 284.0

NOTE: RNAV 1.
NOTE: RADAR required.
NOTE: ATC assigned only.
NOTE: DME/DME/IRU or GPS required.
NOTE: For non-GPS equipped aircraft, LCH, LLA, TBD, and LEV DME's must be operational.

TAKEOFF MINIMUMS
Rwy 14, 32: Standard with minimum climb of 500′ per NM to 560.



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 14: Climb heading 142° to 1600, for RADAR vectors to VUH VOR/DME, thence . . . .
TAKEOFF RUNWAY 32: Climb heading 322° to 700, for RADAR vectors to VUH VOR/DME, thence . . . .

. . . . on track 118° to HOODO, then on (transition). Maintain ATC assigned altitude.
Expect filed altitude 10 minutes after departure.

BOWFN TRANSITION (HOODO6.BOWFN)
CFOOD TRANSITION (HOODO6.CFOOD)
HARVEY TRANSITION (HOODO6.HRV)
LEEVILLE TRANSITION (HOODO6.LEV)
SBIRD TRANSITION (HOODO6.SBIRD)

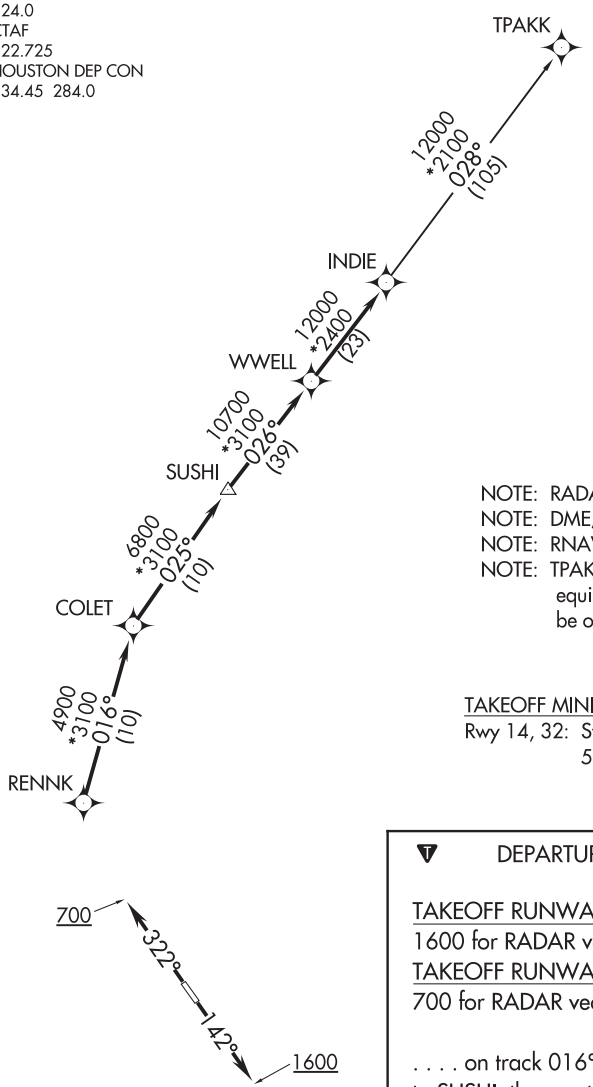
(INDIE7.INDIE) 21056

INDIE SEVEN DEPARTURE (RNAV)

PEARLAND RGNL (LVJ)
HOUSTON, TEXAS

TOP ALTITUDE: ASSIGNED BY ATC

ASOS
118.525
CLNC DEL
124.0
CTAF
122.725
HOUSTON DEP CON
134.45 284.0



NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV 1.
NOTE: TPAKK TRANSITION: For non GPS equipped aircraft TNV DME must be operational.

TAKEOFF MINIMUMS
Rwy 14, 32: Standard with minimum climb of 500′ per NM to 560.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 14: Climb heading 142° to 1600 for RADAR vectors to RENNK, thence . . . .
TAKEOFF RUNWAY 32: Climb heading 322° to 700 for RADAR vectors to RENNK, thence . . . .

. . . . on track 016° to COLET, then on track 025° to SUSHI, then on track 026° to WWELL, then on track 026° to INDIE, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

TPAKK TRANSITION (INDIE7.TPAKK)

NOTE: Chart not to scale.

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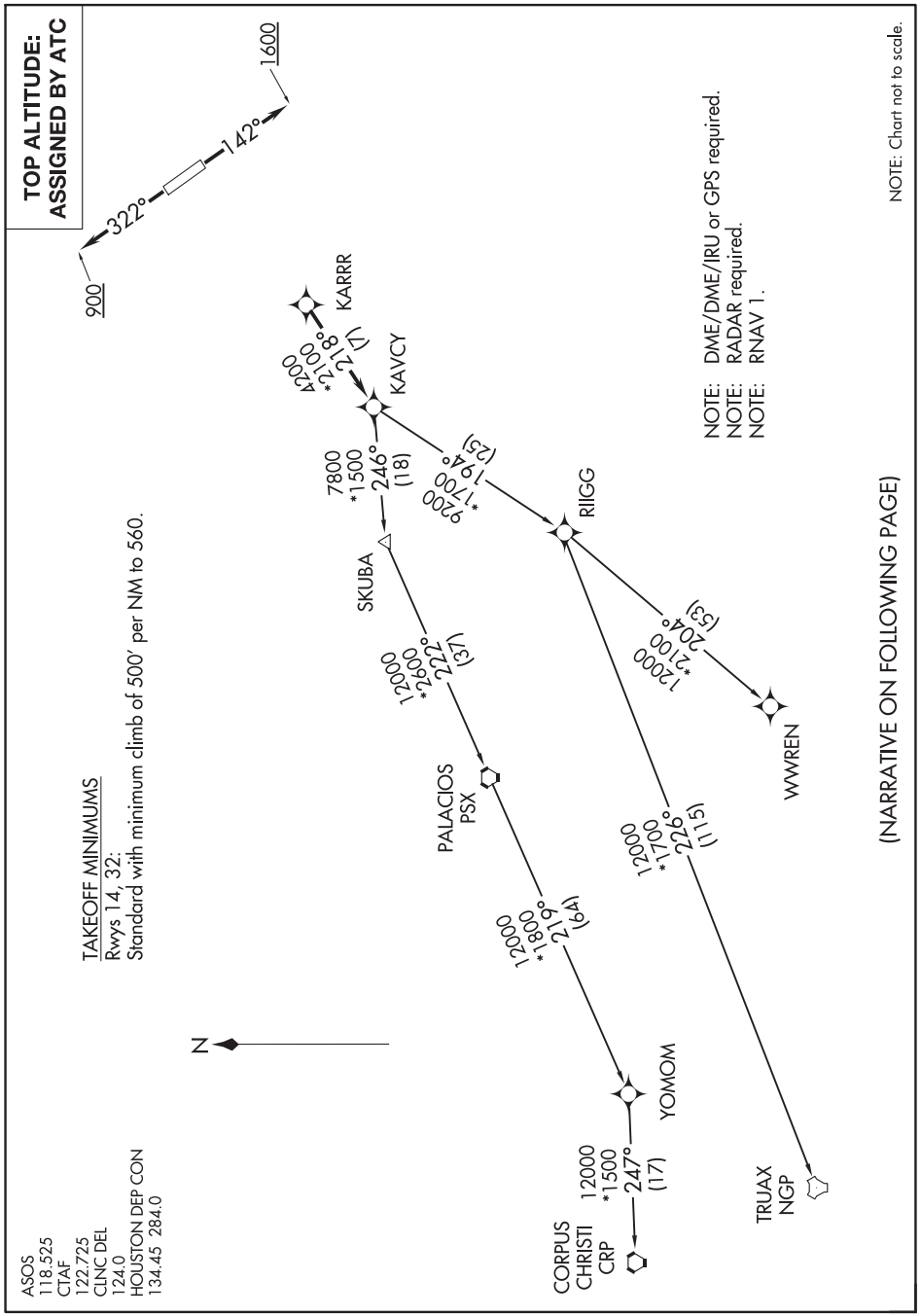
INDIE SEVEN DEPARTURE (RNAV)
(INDIE7.INDIE) 25APR19
HOUSTON, TEXAS
PEARLAND RGNL (LVJ)

(KARRR6.KARRR) 21056 AL-6460 (FAA)

KARRR SIX DEPARTURE (RNAV)

PEARLAND RGNL (LVJ)
HOUSTON, TEXAS



SC-5, 25 FEB 2021 to 22 APR 2021

KARRR SIX DEPARTURE (RNAV)

(KARRR6.KARRR) 05DEC19

HOUSTON, TEXAS
PEARLAND RGNL (LVJ)

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 14: Climb on heading 142° to 1600, for RADAR vectors to KARRR, thence. . . .
TAKEOFF RWY 32: Climb on heading 322° to 900, for RADAR vectors to KARRR, thence. . . .

. . . .on track 218° to KAVCY, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

CORPUS CHRISTI TRANSITION (KARRR6.CRP)
PALACIOS TRANSITION (KARRR6.PSX)
TRUAX TRANSITION (KARRR6.NGP)
WWREN TRANSITION (KARRR6.WWREN)
YOMOM TRANSITION (KARRR6.YOMOM)

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(LURIC7.LURIC) 21056 AL-6460 (FAA)

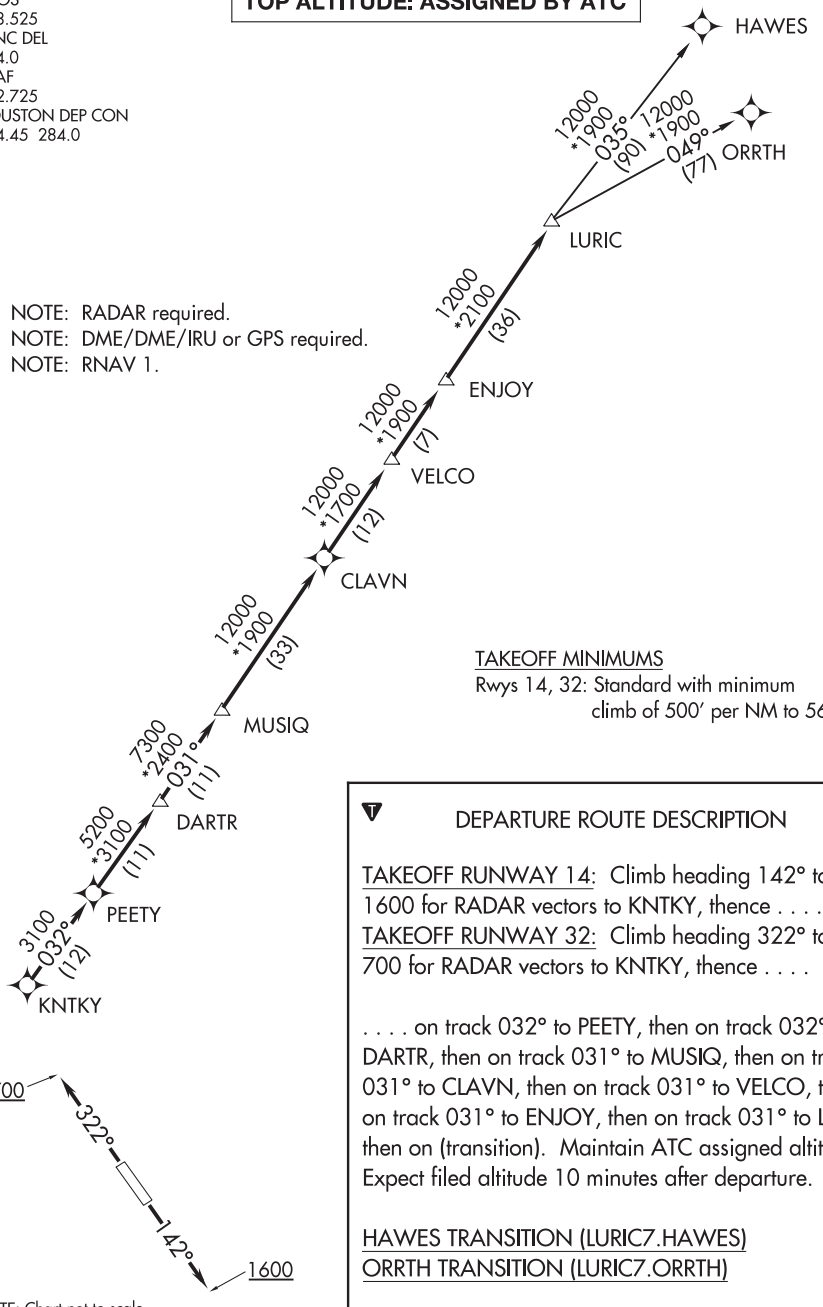
LURIC SEVEN DEPARTURE (RNAV)

PEARLAND RGNL (LVJ)
HOUSTON, TEXAS

TOP ALTITUDE: ASSIGNED BY ATC

ASOS
118.525
CLNC DEL
124.0
CTAF
122.725
HOUSTON DEP CON
134.45 284.0

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



TAKEOFF MINIMUMS
Rwys 14, 32: Standard with minimum climb of 500′ per NM to 560.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 14: Climb heading 142° to 1600 for RADAR vectors to KNTKY, thence . . . .
TAKEOFF RUNWAY 32: Climb heading 322° to 700 for RADAR vectors to KNTKY, thence . . . .

. . . . on track 032° to PEETY, then on track 032° to DARTR, then on track 031° to MUSIQ, then on track 031° to CLAVN, then on track 031° to VELCO, then on track 031° to ENJOY, then on track 031° to LURIC, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

HAWES TRANSITION (LURIC7.HAWES)
ORRTH TRANSITION (LURIC7.ORRTH)

NOTE: Chart not to scale.

SC-5, 25 FEB 2021 to 22 APR 2021

MMALT FIVE DEPARTURE (RNAV)

TOP ALTITUDE: ASSIGNED BY ATC

TAKEOFF MINIMUMS
Rwy 14, 32: Standard with minimum climb of 500′ per NM to 560.

ASOS
118.525
CTAF
122.725
CLNC DEL
124.0
HOUSTON DEP CON
134.45 284.0

N

MMALT
4700
*1600
086°
(9)

MOOKI

HOURN
8200
*3100
051°
(18)

10600
*3100
086°
(15)

JAAYE
12000
*1700
087°
(14)

SPINY
12000
*1500
078°
(60)

GUSTI

BLING
10600
*1600
077°
(15)

12000
*1700
077°
(48)

LAKE CHARLES
LCH

YOKEM
8000
*3100
117°
(17)

10600
*1300
092°
(16)

SABINE PASS
SBI

12000
*1700
086°
(87)

WHITE LAKE
LLA

900
322°
142°
1600

NOTE: DME/DME/IRU or GPS required.
NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: GUSTI and LCH TRANSITIONS ATC assigned only for aircraft departing AXH, EFD, GLS, HPY, IWS, LBX, LVJ, SGR, TME, T00, T41 and 54T.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 14: Climb on heading 142° to 1600 for RADAR vectors to MMALT, thence. . . .
TAKEOFF RUNWAY 32: Climb on heading 322° to 900 for RADAR vectors to MMALT, thence. . . .

. . . .on track 086° to MOOKI, then on (transition). Maintain ATC assigned altitude.
Expect filed altitude 10 minutes after departure.

GUSTI TRANSITION (MMALT5.GUSTI)
LAKE CHARLES TRANSITION (MMALT5.LCH)
WHITE LAKE TRANSITION (MMALT5.LLA)

NOTE: Chart not to scale.

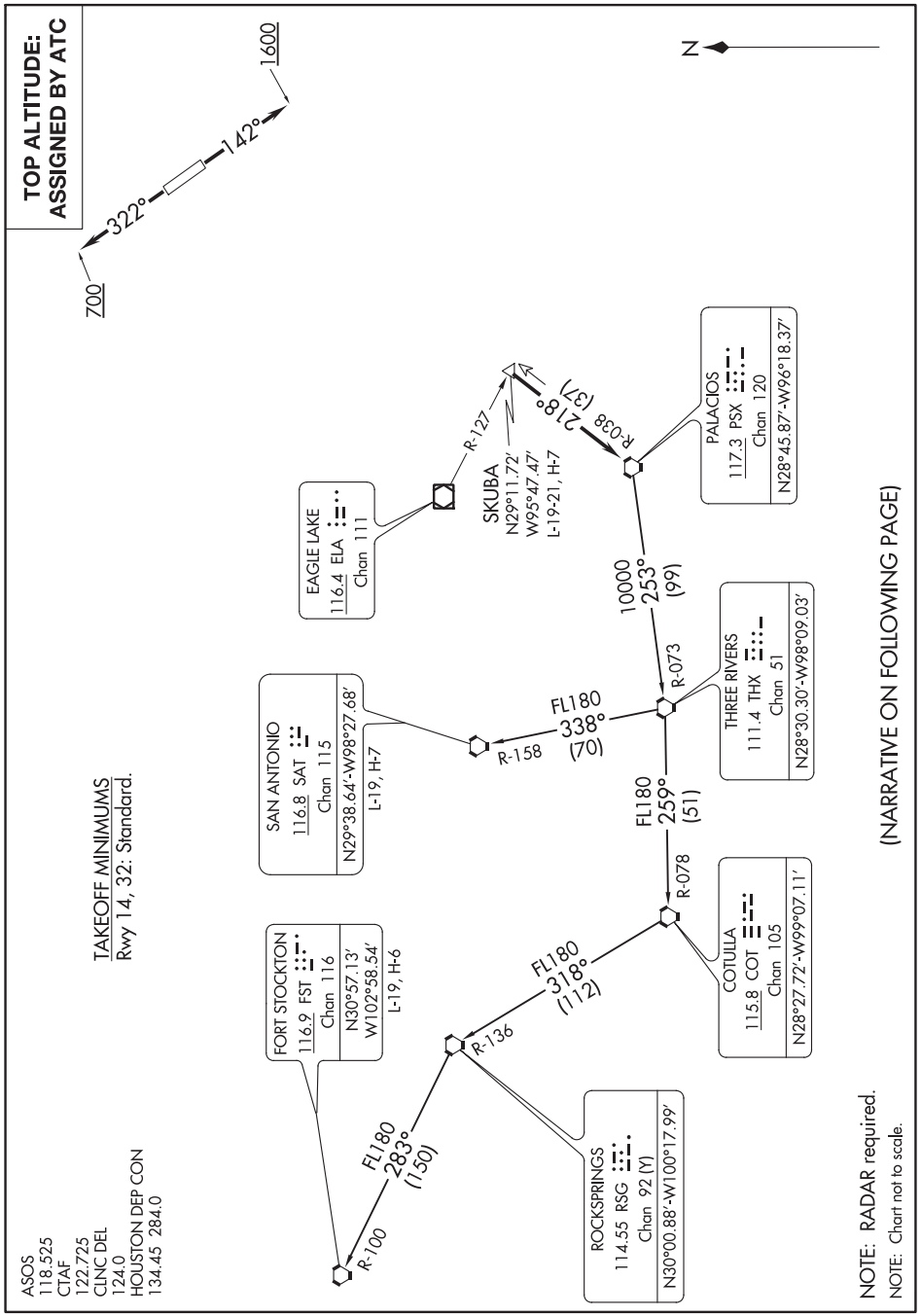
SC-5, 25 FEB 2021 to 22 APR 2021

SC-5, 25 FEB 2021 to 22 APR 2021

(PSX1.PSX) 21056 AL-6460 (FAA)

PALACIOS ONE DEPARTURE

PEARLAND RGNL (LVJ)
HOUSTON, TEXAS



SC-5, 25 FEB 2021 to 22 APR 2021

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PALACIOS ONE DEPARTURE

(PSX1.PSX) 20JUN19

HOUSTON, TEXAS
PEARLAND RGNL (LVJ)

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 14: Climb heading 142° to 1600 before turning, when entering controlled airspace, climb on assigned heading for RADAR vectors to SKUBA INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .
TAKEOFF RWY 32: Climb heading 322° to 700 before turning, when entering controlled airspace, climb on assigned heading for RADAR vectors to SKUBA INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .

. . . .on PSX R-038 to PSX VORTAC.

FORT STOCKTON TRANSITION (PSX1.FST): From over PSX VORTAC on PSX R-253 and THX R-073 to THX VORTAC, then on THX R-259 and COT R-078 to COT VORTAC, then on COT R-318 and RSG R-136 to RSG VORTAC, then on RSG R-283 and FST R-100 to FST VORTAC.

SAN ANTONIO TRANSITION (PSX1.SAT): From over PSX VORTAC on PSX R-253 and THX R-073 to THX VORTAC, then on SAT R-158 to SAT VORTAC.

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(STRYA7.STRYA) 21056 AL-6460 (FAA)

STRYA SEVEN DEPARTURE (RNAV)

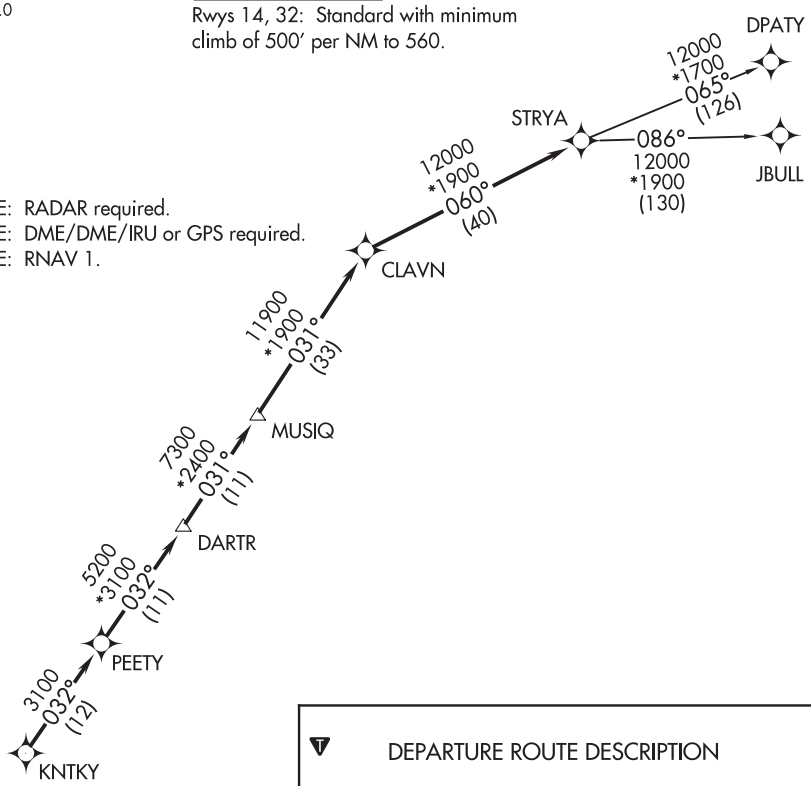
PEARLAND RGNL (LVJ)
HOUSTON, TEXAS

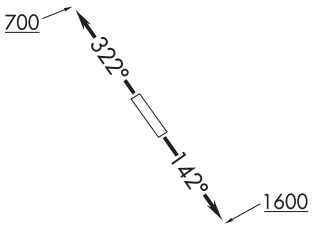
TOP ALTITUDE: ASSIGNED BY ATC

ASOS
118.525
CTAF
122.725
CLNC DEL
124.0
HOUSTON DEP CON
134.45 284.0

TAKEOFF MINIMUMS
Rwys 14, 32: Standard with minimum climb of 500' per NM to 560.

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





NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 14: Climb heading 142° to 1600 for RADAR vectors to KNTKY, thence . . . .
TAKEOFF RUNWAY 32: Climb heading 322° to 700 for RADAR vectors to KNTKY, thence . . . .

. . . . on track 032° to PEETY, then on track 032° to DARTR, then on track 031° to MUSIQ, then on track 031° to CLAVN, then on track 060° to STRYA, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

DPATY TRANSITION (STRYA7.DPATY)
JBULL TRANSITION (STRYA7.JBULL)

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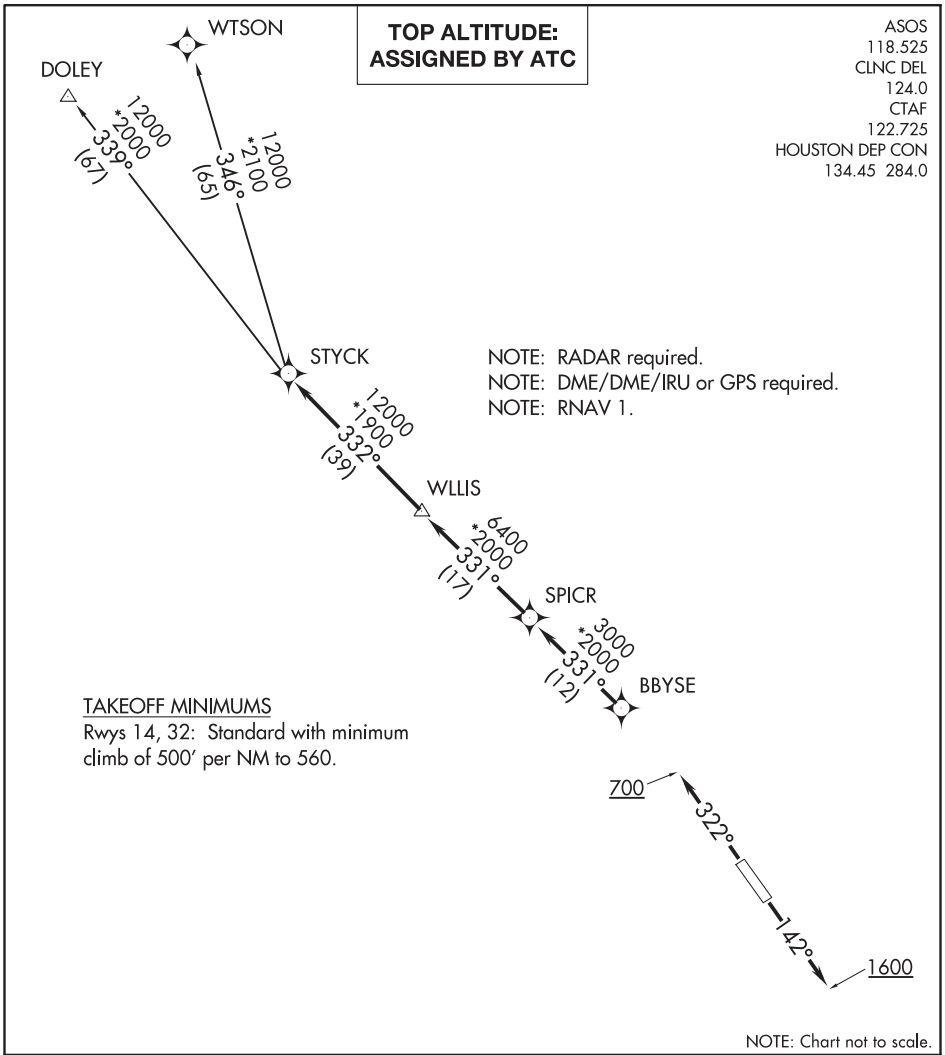


DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 14: Climb heading 142° to 1600 for RADAR vectors to BBYSE, thence. . . .
TAKEOFF RUNWAY 32: Climb heading 322° to 700 for RADAR vectors to BBYSE, thence. . . .

. . . .on track 331° to SPICR, then on track 331° to WLLIS, then on track 332° to STYCK, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

DOLEY TRANSITION (STYCK7.DOLEY)
WTSON TRANSITION (STYCK7.WTSON)

SC-5, 25 FEB 2021 to 22 APR 2021

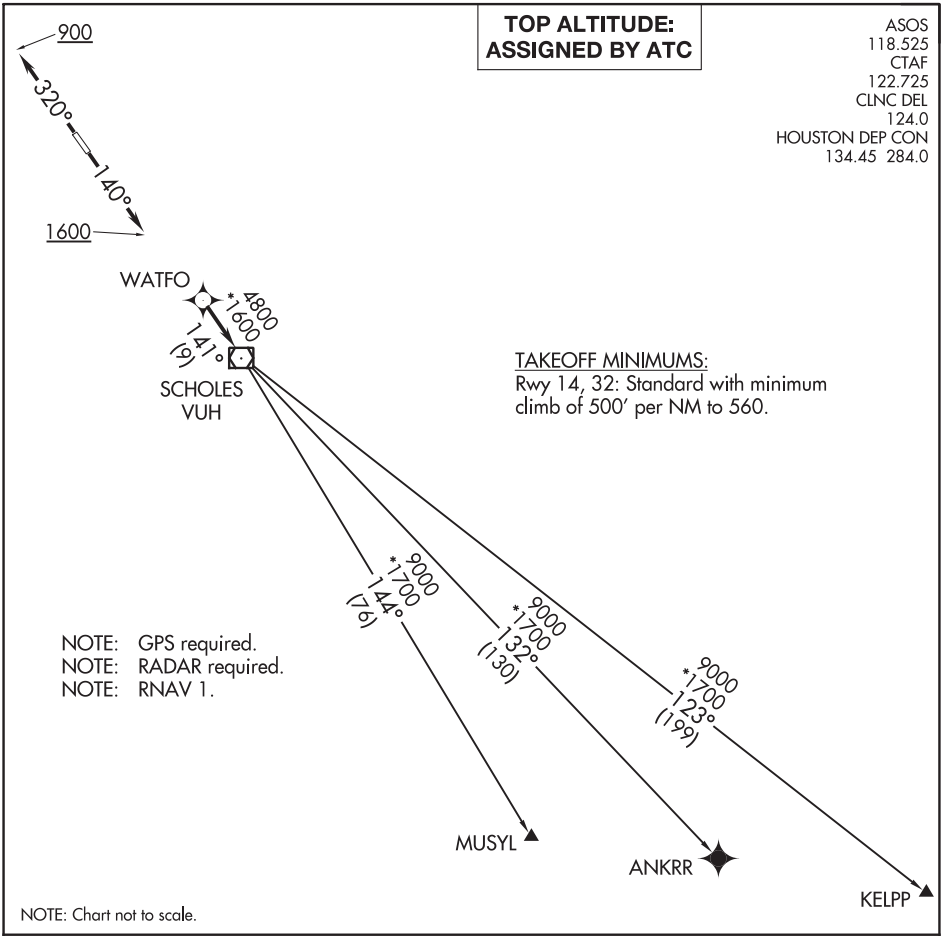
(WATFO5.WATFO) 21056 AL-6460 (FAA)

WATFO FIVE DEPARTURE (RNAV)

PEARLAND RGNL (LVJ)
HOUSTON, TEXAS

TOP ALTITUDE: ASSIGNED BY ATC

ASOS
118.525
CTAF
122.725
CLNC DEL
124.0
HOUSTON DEP CON
134.45 284.0



TAKEOFF MINIMUMS:
Rwy 14, 32: Standard with minimum climb of 500′ per NM to 560.

NOTE: GPS required.
NOTE: RADAR required.
NOTE: RNAV 1.

NOTE: Chart not to scale.

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SC-5, 25 FEB 2021 to 22 APR 2021

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 14: Climb on heading 140° to 1600, for RADAR vectors to WATFO, thence. . . .
TAKEOFF RUNWAY 32: Climb on heading 320° to 900, for RADAR vectors to WATFO, thence. . . .

. . . .on track 141° to VUH VOR/DME, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

ANKRR TRANSITION (WATFO5.ANKRR)
KELPP TRANSITION (WATFO5.KELPP)
MUSYL TRANSITION (WATFO5.MUSYL)

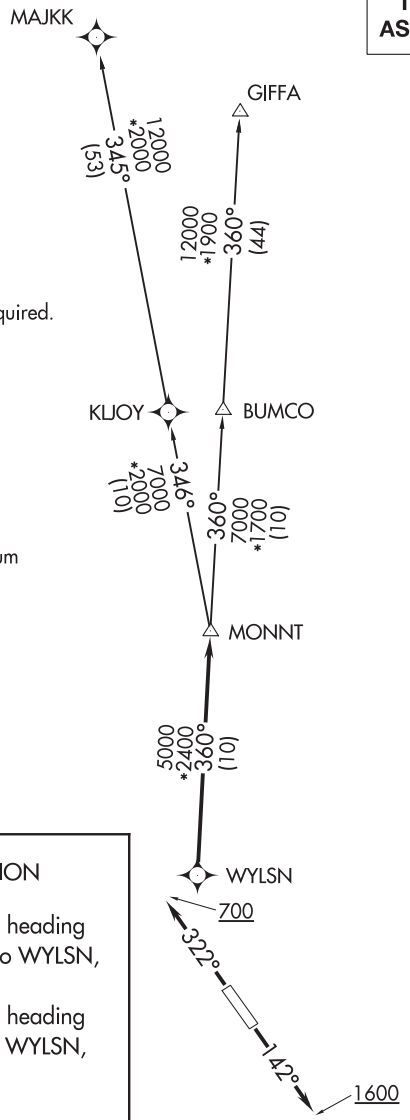
WYLSN SEVEN DEPARTURE (RNAV)

ASOS
118.525
CLNC DEL
124.0
CTAF
122.725
HOUSTON DEP CON
134.45 284.0

TOP ALTITUDE: ASSIGNED BY ATC

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

TAKEOFF MINIMUMS
Rwy 14, 32: Standard with minimum climb of 500′ per NM to 560.



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 14: Climb on heading 142° to 1600 for RADAR vectors to WYLSN, thence. . . .
TAKEOFF RUNWAY 32: Climb on heading 322° to 700 for RADAR vectors to WYLSN, thence. . . .

. . . .on track 360° to MONNT, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

GIFFA TRANSITION (WYLSN7.GIFFA)
MAJKK TRANSITION (WYLSN7.MAJKK)

NOTE: Chart not to scale.

HOUSTON, TEXAS

AL-5537 (FAA)

20058

ILS or LOC RWY 35
SUGAR LAND RGNL (SGR)

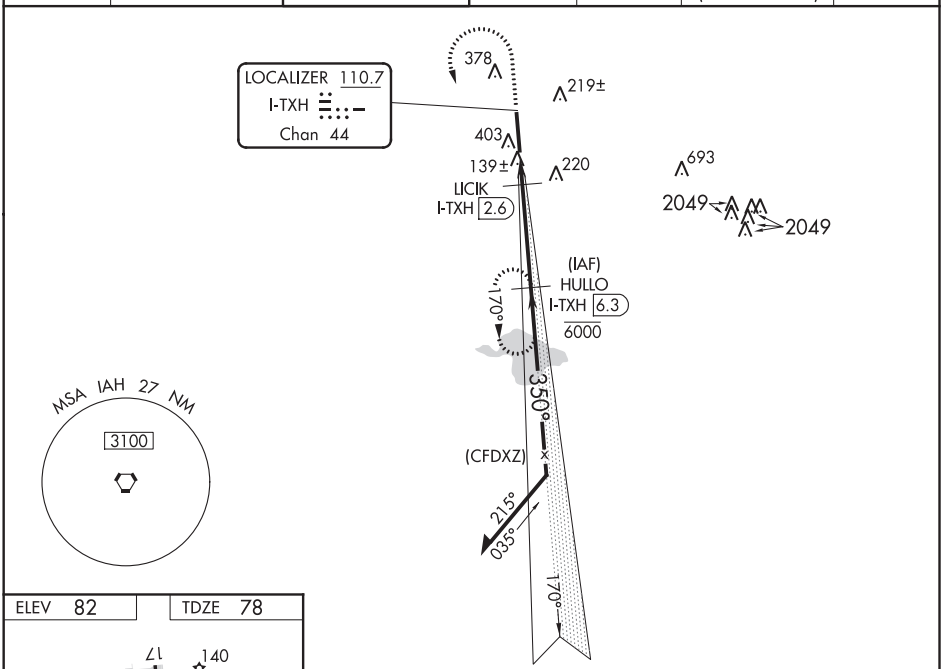
LOC/DME I-TXH	APP CRS	Rwy ldg	6016
110.7	350°	TDZE	78
Chan 44		Apt Elev	82

DME required.
RADAR required for procedure entry.

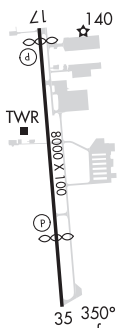
T A VDP NA when using William P Hobby altimeter setting. When local altimeter setting not received, use William P Hobby altimeter setting and increase all DA 51 feet and all MDA 60 feet and S-LOC 35 Cat C/D visibility ⅛ mile, and Circling Cat C/D visibility ¼ mile.

MISSED APPROACH: Climb to 900 then climbing left turn to 2000 on I-TXH localizer south course to HULLO/I-TXH 6.3 DME and hold.

ATIS★	HOUSTON APP CON	SUGAR LAND TOWER★	GND CON	CLNC DEL	CLNC DEL (when twr closed)	UNICOM
118.125	123.8 257.7	118.65 (CTAF) L	121.4	121.4	119.25	122.95

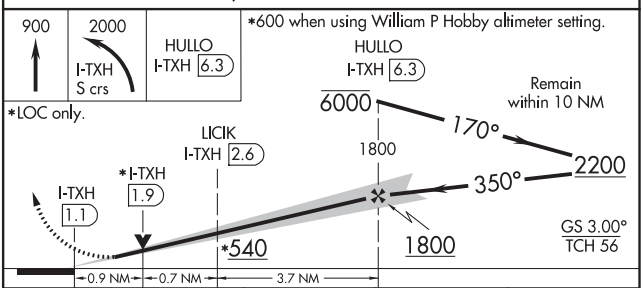


ELEV 82	TDZE 78



REIL Rwys 17 and 35 L
HIRL Rwy 17-35 L

FAF to MAP 5.2 NM					
Knots	60	90	120	150	180
Min:Sec	5:12	3:28	2:36	2:05	1:44



CATEGORY	A	B	C	D
S-ILS 35	278-¾ 200 (200-¾)			
S-LOC 35	400-1 322 (400-1)			
C CIRCLING	720-1 638 (700-1)		720-1¾ 638 (700-1¾)	720-2 638 (700-2)

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WAAS CH 82513 W17A	APP CRS 170°	Rwy ldg 7620 TDZE 82 Apt Elev 82

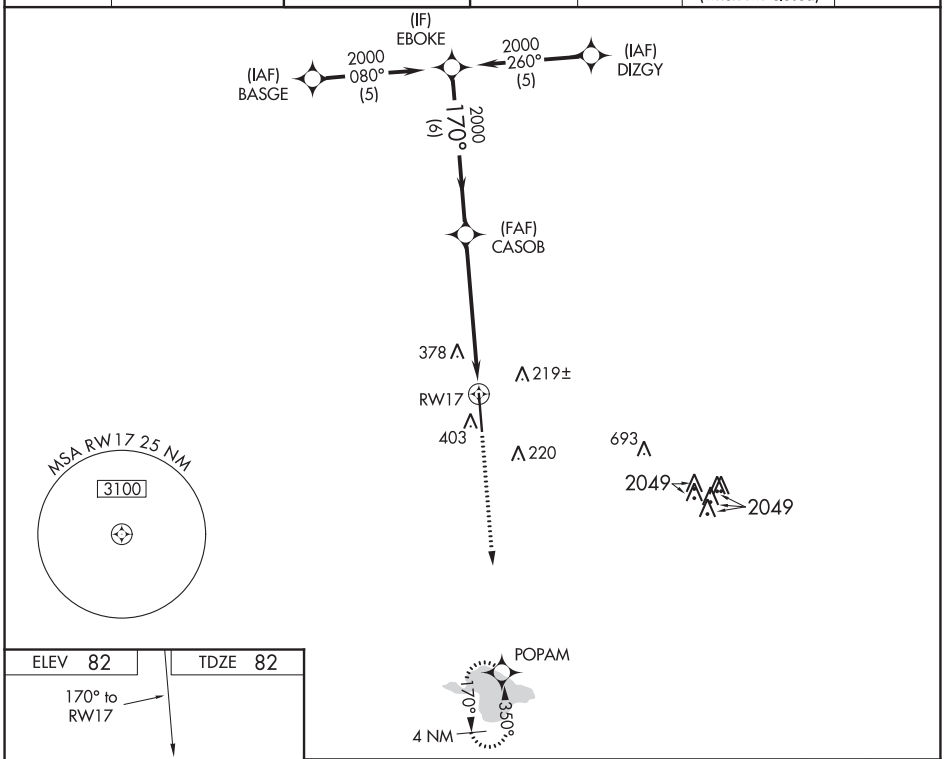
RNAV (GPS) RWY 17
SUGAR LAND RGNL (SGR)

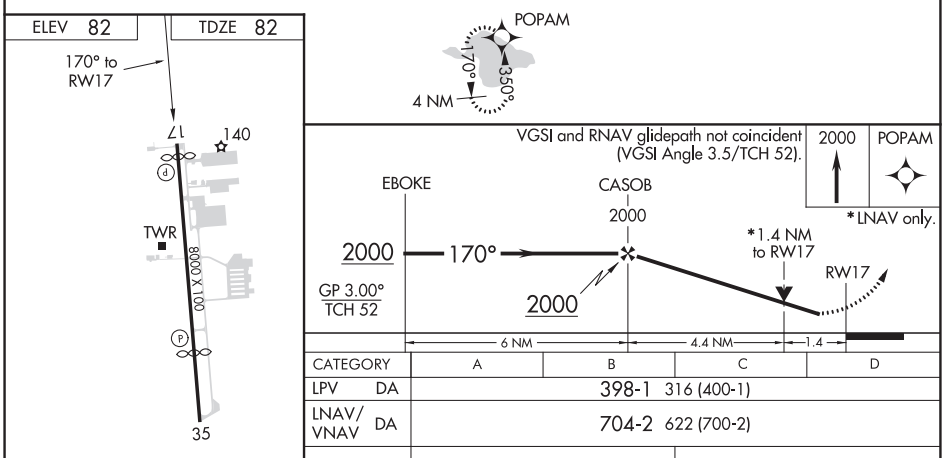
RNP APCH.

Rwy 17 helicopter visibility reduction below ¾ SM NA. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C or above 54°C.

MISSED APPROACH: Climb to 2000 direct POPAM and hold.

ATIS★	HOUSTON APP CON	SUGAR LAND TOWER★	GND CON	CLNC DEL	CLNC DEL (when twr closed)	UNICOM
118.125	123.8 257.7	118.65 (CTAF) L	121.4	121.4	119.25	122.95





CATEGORY	A	B	C	D
LPV DA	398-1 316 (400-1)			
LNAV/VNAV DA	704-2 622 (700-2)			
LNAV MDA	640-1 558 (600-1)		640-1⅝ 558 (600-1⅝)	
C CIRCLING	720-1 638 (700-1)		720-1¾ 638 (700-1¾)	720-2 638 (700-2)

REIL Rwys 17 and 35 L
HIRL Rwy 17-35 L

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HOUSTON, TEXAS | AL-5537 (FAA) | 20114

RNAV (GPS) RWY 35
SUGAR LAND RGNL (SGR)

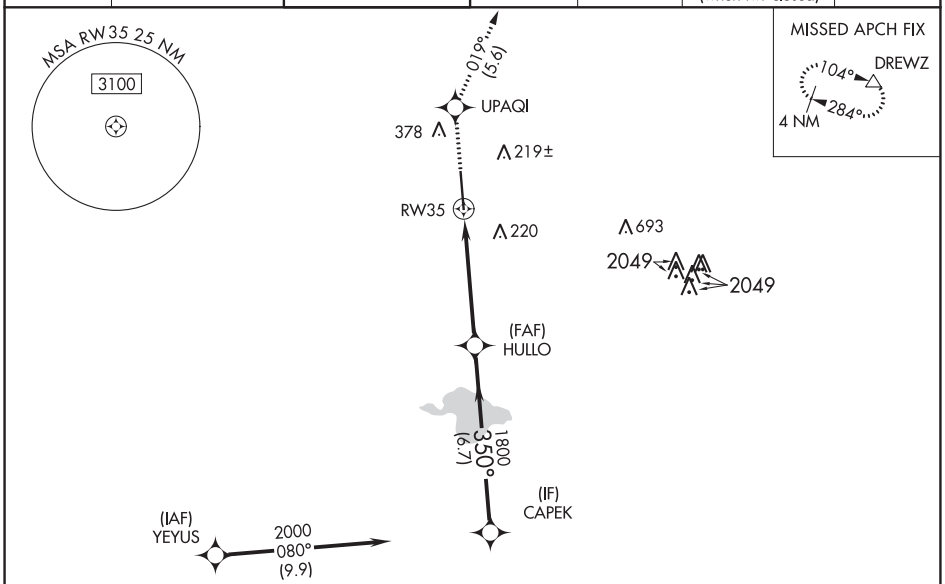
WAAS CH 56219 W35A	APP CRS 350°	Rwy ldg 6016 TDZE 78 Apt Elev 82

RNP APCH.

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 43°C (109°F). Baro-VNAV and VDP NA when using William P Hobby altimeter setting. When local altimeter setting not received, use William P Hobby altimeter setting: increase all DA 51 feet; increase all MDA 60 feet and increase LNAV-VNAV all Cats visibility to 1¾, LNAV Cat C/D visibility to 1⅞, and Circling Cat C visibility to 2, Cat D to 2¼. When VGSI inop, Circling Rwy 17 NA at night.

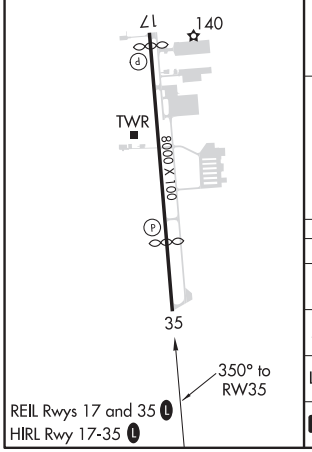
MISSED APPROACH: Climb to 2000 direct UPAQI and on track 019° to DREWZ and hold.

ATIS★	HOUSTON APP CON	SUGAR LAND TOWER★	GND CON	CLNC DEL	CLNC DEL (when twr closed)	UNICOM
118.125	123.8 257.7	118.65 (CTAF) L	121.4	121.4	119.25	122.95

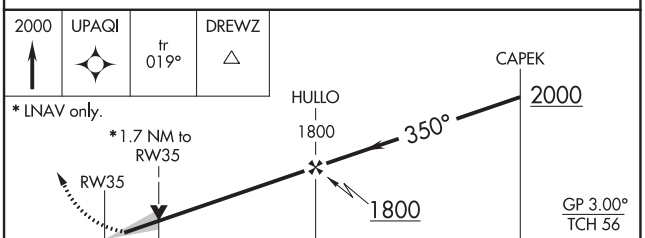


RADAR REQUIRED

ELEV 82 | TDZE 78



REIL Rwys 17 and 35 L
HIRL Rwy 17-35 L



CATEGORY	A	B	C	D
LPV DA	278-¾ 200 (200-¾)			
LNAV/VNAV DA	567-1⅝ 489 (500-1⅝)			
LNAV MDA	660-1 582 (600-1)		660-1¾ 582 (600-1¾)	
C CIRCLING	720-1 638 (700-1)		720-1¾ 638 (700-1¾)	720-2 638 (700-2)

HOUSTON, TEXAS
Amdt 2B 23APR20

29°37′N-95°39′W

SUGAR LAND RGNL (SGR)
RNAV (GPS) RWY 35

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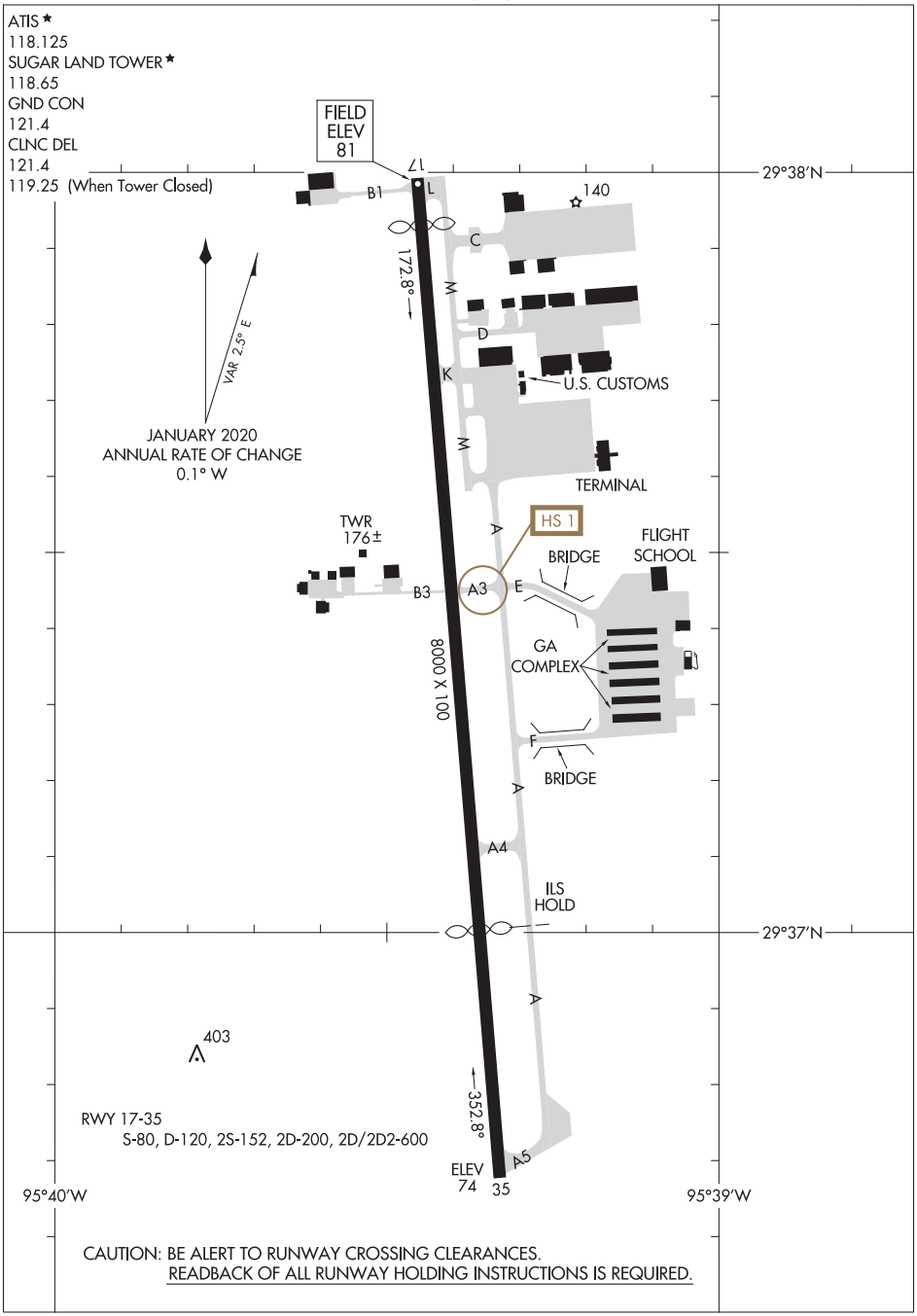

CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

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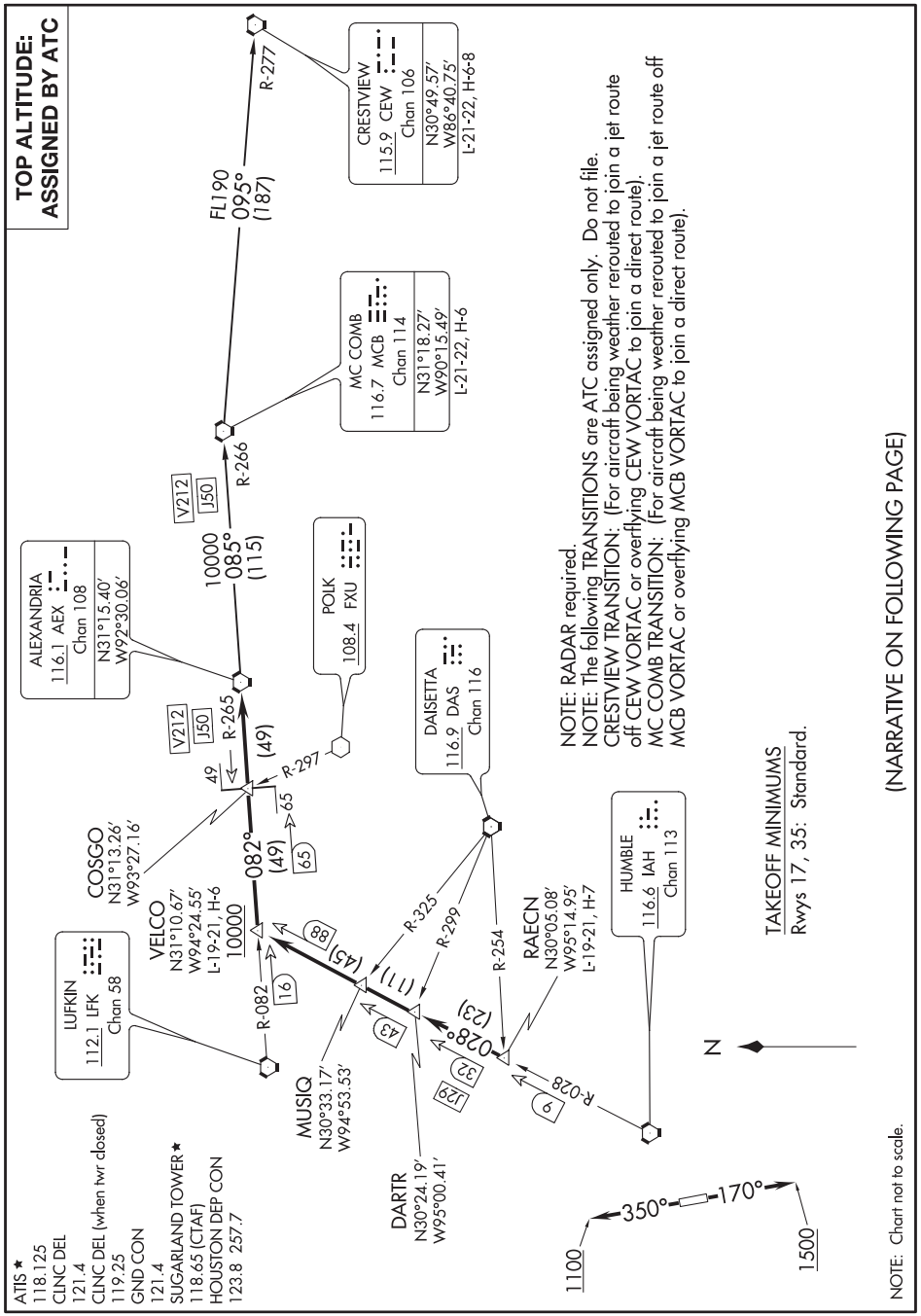
(AEX2.AEX) 20142 AL-5537 (FAA) SUGAR LAND RGNL (SGR)

ALEXANDRIA TWO DEPARTURE

HOUSTON, TEXAS



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ALEXANDRIA TWO DEPARTURE

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 17: Climb heading 170° to 1500 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to RAECN INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .
TAKEOFF RWY 35: Climb heading 350° to 1100 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to RAECN INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .

. . . .on IAH R-028 to VELCO INT, cross VELCO INT at or above 10000, then right turn on LFK R-082 and AEX R-265 to AEX VORTAC.

CRESTVIEW TRANSITION (AEX2.CEW): From over AEX VORTAC on AEX R-085 and MCB R-266 to MCB VORTAC, then on MCB R-095 and CEW R-277 to CEW VORTAC.

MC COMB TRANSITION (AEX2.MCB): From over AEX VORTAC on AEX R-085 and MCB R-266 to MCB VORTAC.

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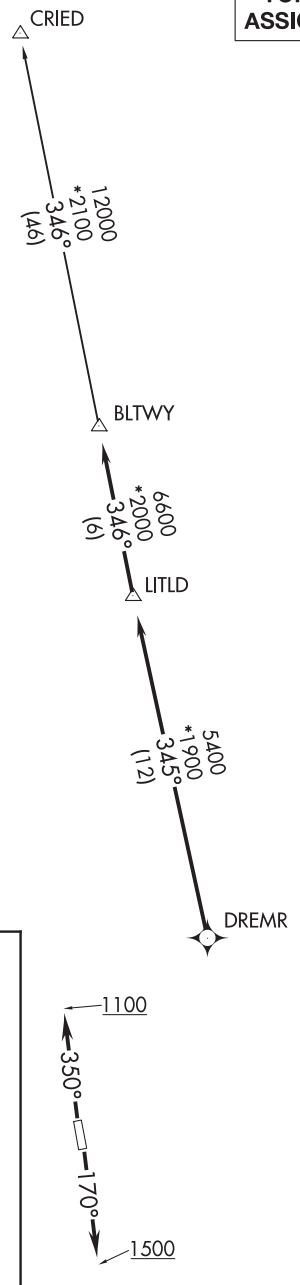
(BLTWY6.BLTWY) 20142

BLTWY SIX DEPARTURE (RNAV)

SUGAR LAND RGNL (SGR)
HOUSTON, TEXAS

ATIS★
118.125
CLNC DEL
121.4
CLNC DEL (when twr closed)
119.25
GND CON
121.4
SUGARLAND TOWER★
118.65 (CTAF)
HOUSTON DEP CON
123.8 257.7

TOP ALTITUDE: ASSIGNED BY ATC



NOTE: RADAR required.

NOTE: DME/DME/IRU or GPS required.

NOTE: RNAV 1.

TAKEOFF MINIMUMS
Rwys 17, 35: Standard with minimum climb of 500′ per NM to 600.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 17: Climb on heading 170° to 1500 for RADAR vectors to DREMR, thence . . . .
TAKEOFF RWY 35: Climb on heading 350° to 1100 for RADAR vectors to DREMR, thence . . . .

...on track 345° to LITLD, then on track 346° to BLTWY, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

CRIED TRANSITION (BLTWY6.CRIED)

NOTE: Chart not to scale.

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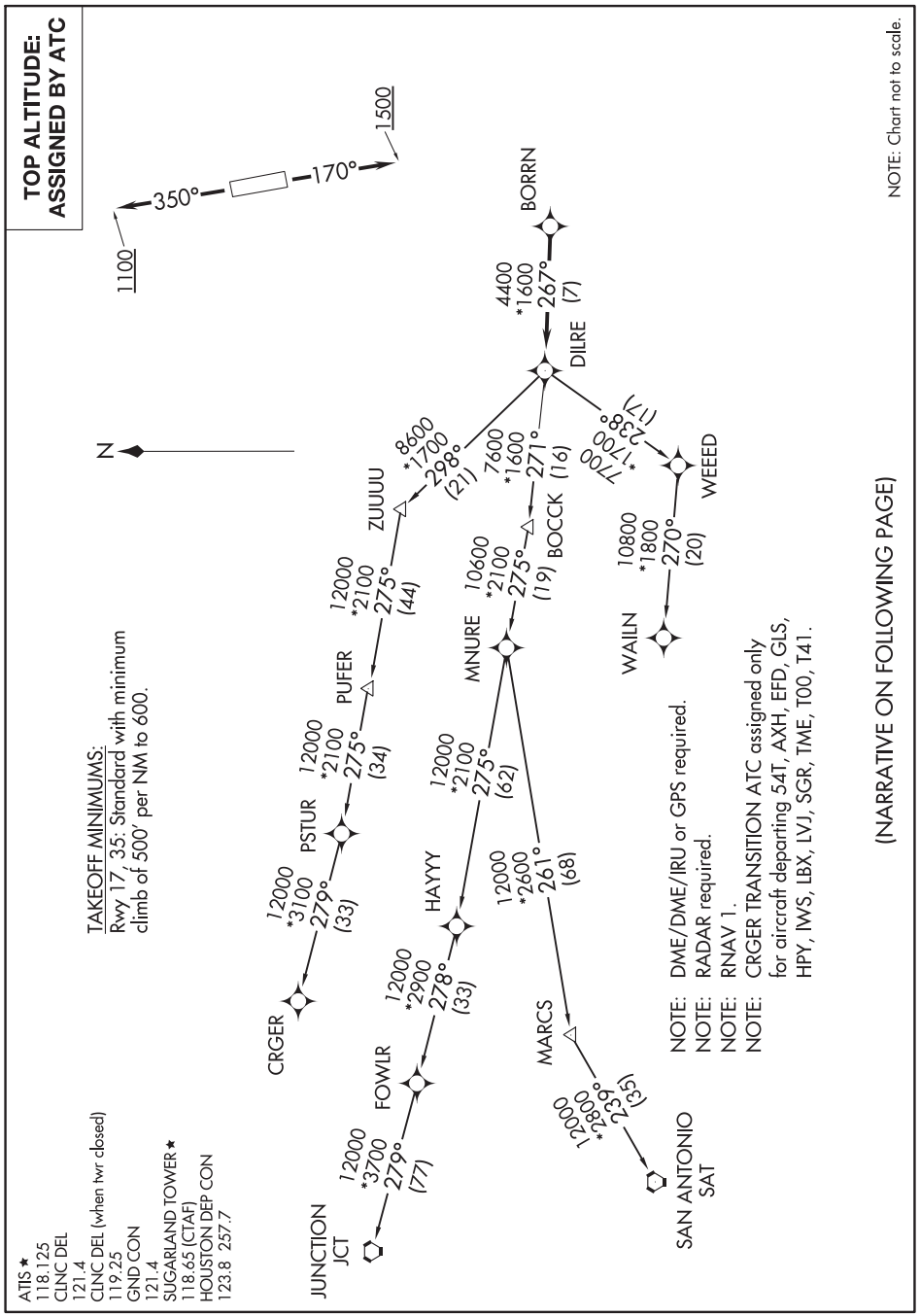

TOP ALTITUDE: ASSIGNED BY ATC
N
350°
170°
1100
1500
BORRN
4400
*1600
267°
(7)
DILRE
8600
*1700
298°
(21)
ZUUUU
7600
*1600
271°
(16)
BOCCK
7100
*1700
238°
(17)
WEEED
12000
*2100
275°
(44)
PUFER
10600
*2100
275°
(19)
MNURE
10800
*1800
270°
(20)
WAILN
12000
*2100
275°
(34)
PSTUR
12000
*2100
275°
(62)
HAYYY
12000
*2600
261°
(68)
MARCS
12000
*3100
279°
(33)
CRGER
12000
*2900
278°
(33)
FOWLR
12000
*2800
239°
(35)
SAN ANTONIO
SAT
12000
*3700
279°
(77)
JUNCTION
JCT
TAKEOFF MINIMUMS:
Rwy 17, 35: Standard with minimum climb of 500' per NM to 600.
ATIS ★
118.125
CLNC DEL
121.4
CLNC DEL (when twr closed)
119.25
GND CON
121.4
SUGARLAND TOWER ★
118.65 (CTAF)
HOUSTON DEP CON
123.8 257.7
NOTE: DME/DME/IRU or GPS required.
NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: CRGER TRANSITION ATC assigned only for aircraft departing 54T, AXH, EFD, GLS, HPY, IWS, LBX, LVJ, SGR, TME, T00, T41.
(NARRATIVE ON FOLLOWING PAGE)
NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 17: Climb on heading 170° to 1500, for RADAR vectors to BORRN, thence. . . .
TAKEOFF RWY 35: Climb on heading 350° to 1100, for RADAR vectors to BORRN, thence. . . .

. . . .on track 267° to DILRE, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

CRGER TRANSITION (BORRN4.CRGER)
JUNCTION TRANSITION (BORRN4.JCT)
MNURE TRANSITION (BORRN4.MNURE)
SAN ANTONIO TRANSITION (BORRN4.SAT)
WAILN TRANSITION (BORRN4.WAILN)

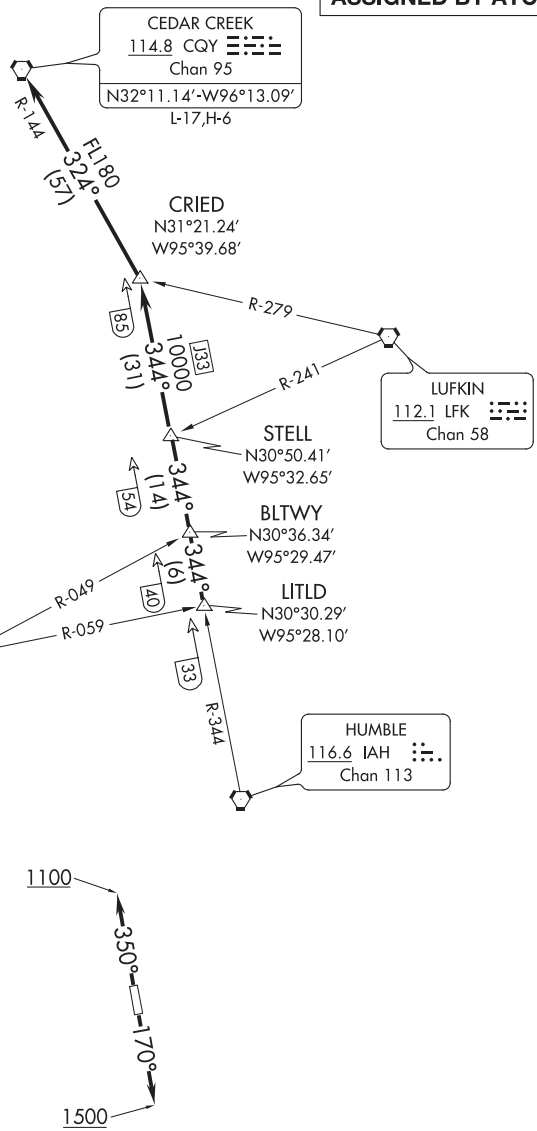
CRIED NINE DEPARTURE

AL-5537 (FAA)

HOUSTON, TEXAS

ATIS★
118.125
CLNC DEL
121.4
CLNC DEL (when twr closed)
119.25
GND CON
121.4
SUGAR LAND TOWER★
118.65 (CTAF)
HOUSTON DEP CON
123.8 257.7

TOP ALTITUDE: ASSIGNED BY ATC



TAKEOFF MINIMUMS
Rwys 17, 35: Standard.

NOTE: RADAR required.

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 17: Climb on heading 170° to 1500 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to LITLD INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .
TAKEOFF RWY 35: Climb on heading 350° to 1100 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to LITLD INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .

. . . . on IAH R-344 to STELL INT, then on IAH R-344 to CRIED INT then left turn on CQY R-144 to CQY VORTAC.

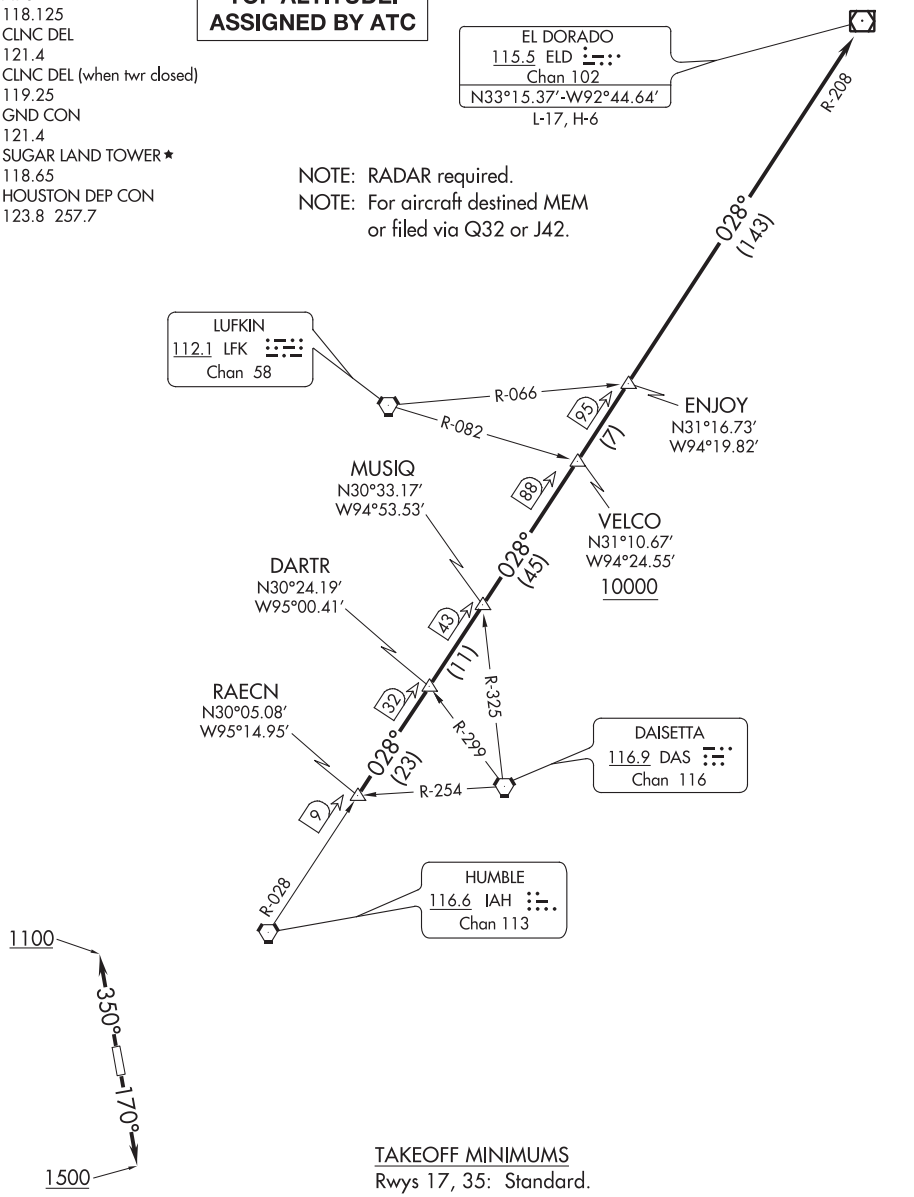
EL DORADO NINE DEPARTURE

HOUSTON, TEXAS

ATIS ★
118.125
CLNC DEL
121.4
CLNC DEL (when twr closed)
119.25
GND CON
121.4
SUGAR LAND TOWER ★
118.65
HOUSTON DEP CON
123.8 257.7

TOP ALTITUDE: ASSIGNED BY ATC

NOTE: RADAR required.
NOTE: For aircraft destined MEM or filed via Q32 or J42.



TAKEOFF MINIMUMS
Rwys 17, 35: Standard.

NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

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DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 17: Climb heading 170° to 1500 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to RAECN INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .
TAKEOFF RWY 35: Climb heading 350° to 1100 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to RAECN INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .

. . . .on IAH R-028 and the ELD R-208 to ELD VOR/DME, cross VELCO INT at or above 10000.

GIFFA NINE DEPARTURE

AL-5537 (FAA)

ATIS★
118.125
CLNC DEL
121.4
CLNC DEL (when twr closed)
119.25
GND CON
121.4
SUGAR LAND TOWER★
118.65 (CTAF)
HOUSTON DEP CON
123.8 257.7

TOP ALTITUDE: ASSIGNED BY ATC

NOTE: RADAR required.
NOTE: For aircraft destined for the DFW terminal area only.

CEDAR CREEK
114.8 CQY
Chan 95

R-128

69

GIFFA
N31°22.89′
W95°15.10′
L-19-21, H-6
10000

85

LEONA
110.8 LOA
Chan 45

R-059

358°
(44)

R-121

BUMCO
N30°38.91′
W95°18.03′

41

358°
(10)

MONNT
N30°28.65′
W95°18.70′
L19-21, H7

31

DAISETTA
116.9 DAS
Chan 116

R-292

R-358

HUMBLE
116.6 IAH
Chan 113

1100
350°
170°
1500

TAKEOFF MINIMUMS
Rwys 17, 35: Standard.

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.

SC-5, 25 FEB 2021 to 22 APR 2021

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DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 17: Climb heading 170° to 1500 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to MONNT INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence . . . .
TAKEOFF RWY 35: Climb heading 350° to 1100 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to MONNT INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence . . . .

. . . . on IAH R-358 to cross GIFFA INT at or above 10000.

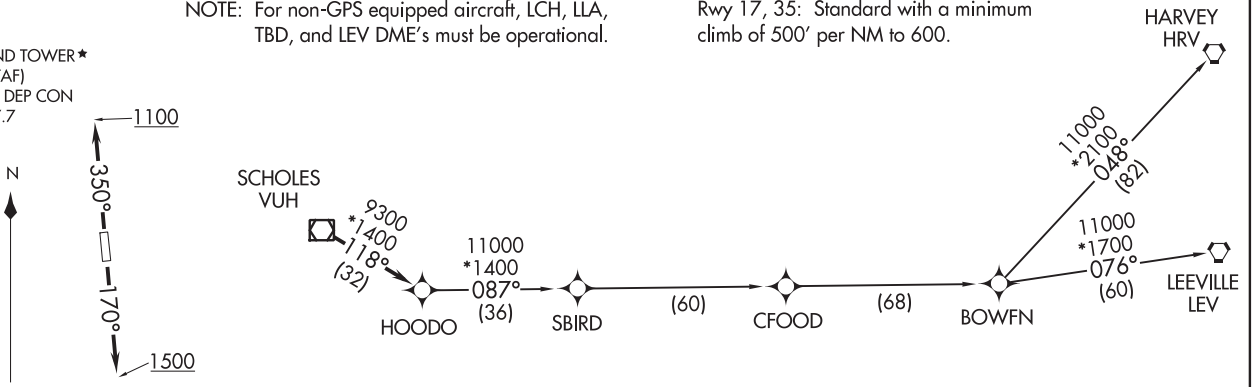
HOODO SIX DEPARTURE (RNAV)
(HOODO6.HOODO) 25APR19

ATIS ★
118.125
CLNC DEL
121.4
CLNC DEL (when twr closed)
119.25
GND CON
121.4
SUGARLAND TOWER ★
118.65 (CTAF)
HOUSTON DEP CON
123.8 257.7

NOTE: RNAV 1.
NOTE: RADAR required.
NOTE: ATC assigned only.
NOTE: DME/DME/IRU or GPS required.
NOTE: For non-GPS equipped aircraft, LCH, LLA, TBD, and LEV DME's must be operational.

TOP ALTITUDE: ASSIGNED BY ATC

TAKEOFF MINIMUMS
Rwy 17, 35: Standard with a minimum climb of 500′ per NM to 600.



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 17: Climb heading 170° to 1500, for RADAR vectors to VUH VOR/DME, thence . . . .
TAKEOFF RWY 35: Climb heading 350° to 1100, for RADAR vectors to VUH VOR/DME, thence . . . .

. . . . on track 118° to HOODO, then on (transition). Maintain ATC assigned altitude.
Expect filed altitude 10 minutes after departure.

BOWFN TRANSITION (HOODO6.BOWFN)
CFOOD TRANSITION (HOODO6.CFOOD)
HARVEY TRANSITION (HOODO6.HRV)
LEEVILLE TRANSITION (HOODO6.LEV)
SBIRD TRANSITION (HOODO6.SBIRD)

(HOODO6.HOODO) 20142
HOODO SIX DEPARTURE (RNAV)
AL-5537 (FAA)
SUGAR LAND RGNL (SGR)
HOUSTON, TEXAS

HOUSTON, TEXAS
SUGAR LAND RGNL (SGR)

(INDIE7.INDIE) 20142

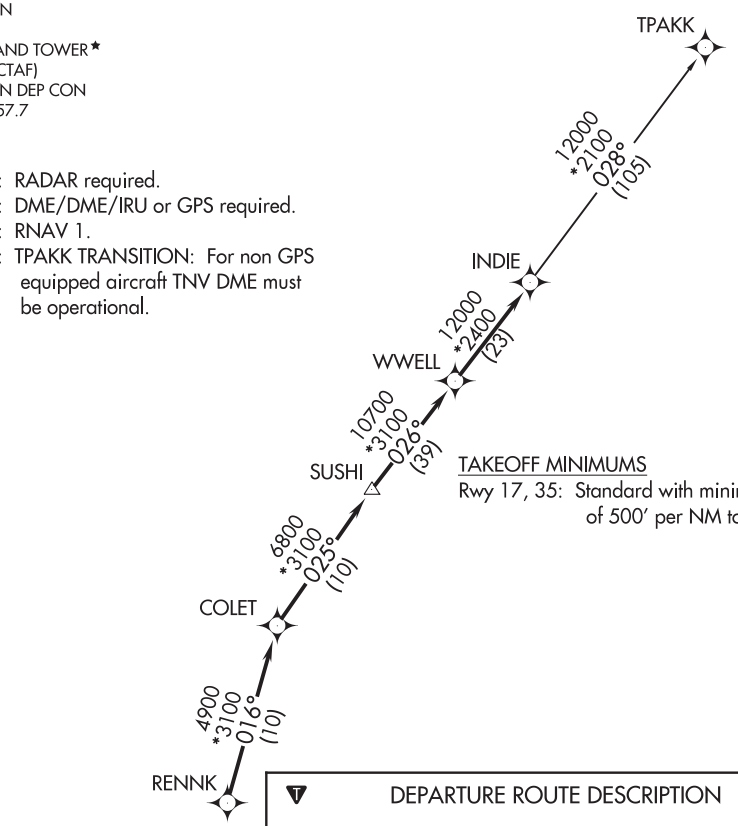
INDIE SEVEN DEPARTURE (RNAV)

SUGAR LAND RGNL (SGR)
HOUSTON, TEXAS

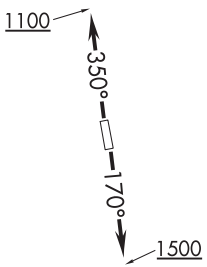
TOP ALTITUDE: ASSIGNED BY ATC

ATIS *
118.125
CLNC DEL
121.4
CLNC DEL (when twr closed)
119.25
GND CON
121.4
SUGARLAND TOWER *
118.65 (CTAF)
HOUSTON DEP CON
123.8 257.7

NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV 1.
NOTE: TPAKK TRANSITION: For non GPS equipped aircraft TNV DME must be operational.



TAKEOFF MINIMUMS
Rwy 17, 35: Standard with minimum climb of 500′ per NM to 600.



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 17: Climb heading 170° to 1500 for RADAR vectors to RENNK, thence . . . .
TAKEOFF RWY 35: Climb heading 350° to 1100 for RADAR vectors to RENNK, thence . . . .

. . . . on track 016° to COLET, then on track 025° to SUSHI, then on track 026° to WWELL, then on track 026° to INDIE, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

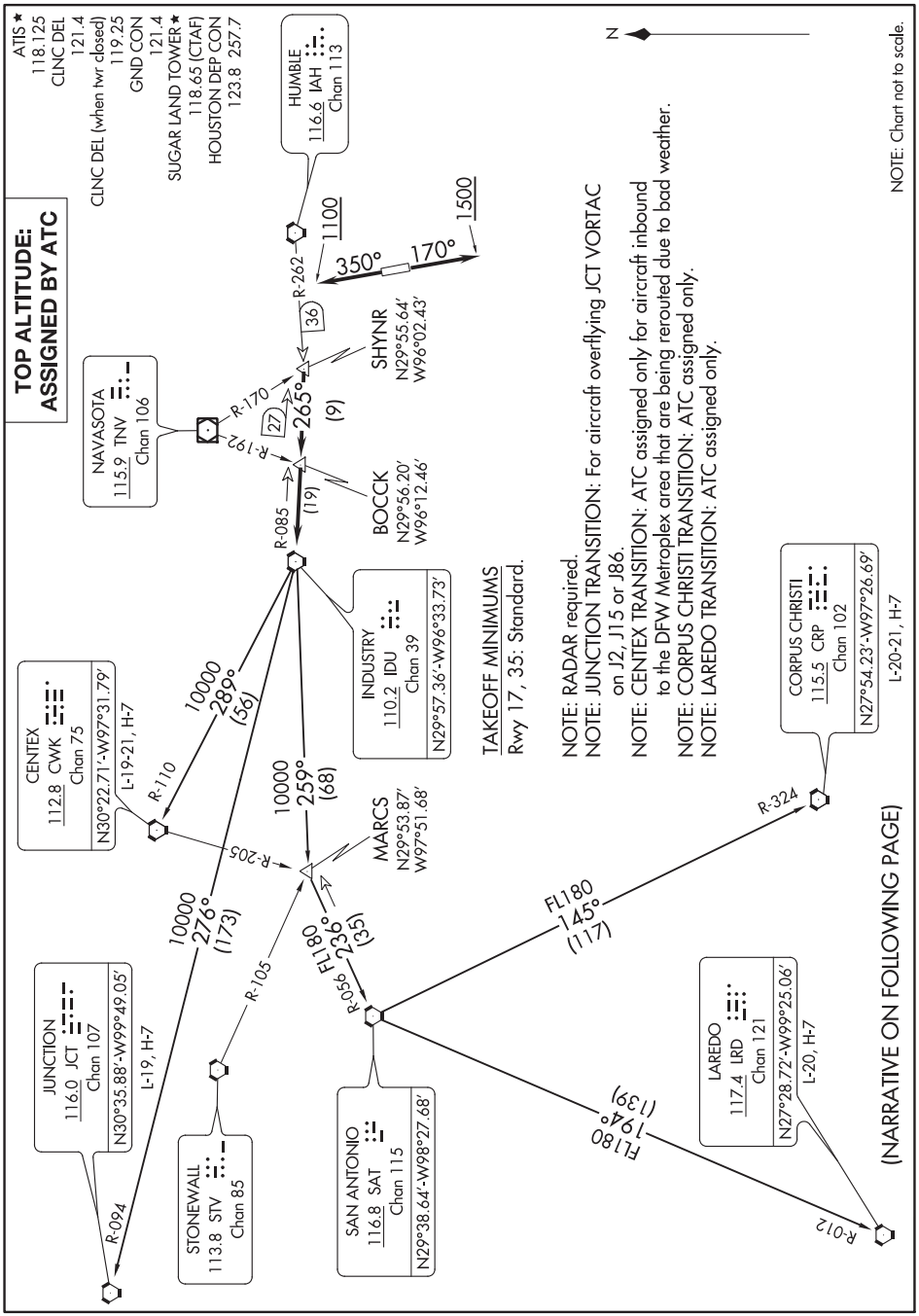
TPAKK TRANSITION (INDIE7.TPAKK)

SC-5, 25 FEB 2021 to 22 APR 2021

INDIE SEVEN DEPARTURE (RNAV)
(INDIE7.INDIE) 25APR19
HOUSTON, TEXAS
SUGAR LAND RGNL (SGR)

INDUSTRY NINE DEPARTURE

AL-5537 (FAA)



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SC-5, 25 FEB 2021 to 22 APR 2021

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 17: Climb heading 170° to 1500 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to SHYNR INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .

TAKEOFF RWY 35: Climb heading 350° to 1100 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to SHYNR INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .

. . . . on IDU R-085 to BOCCK INT, then on IDU R-085 to IDU VORTAC.

CENTEX TRANSITION (IDU9.CWK): From over IDU VORTAC on IDU R-289 and CWK R-110 to CWK VORTAC.

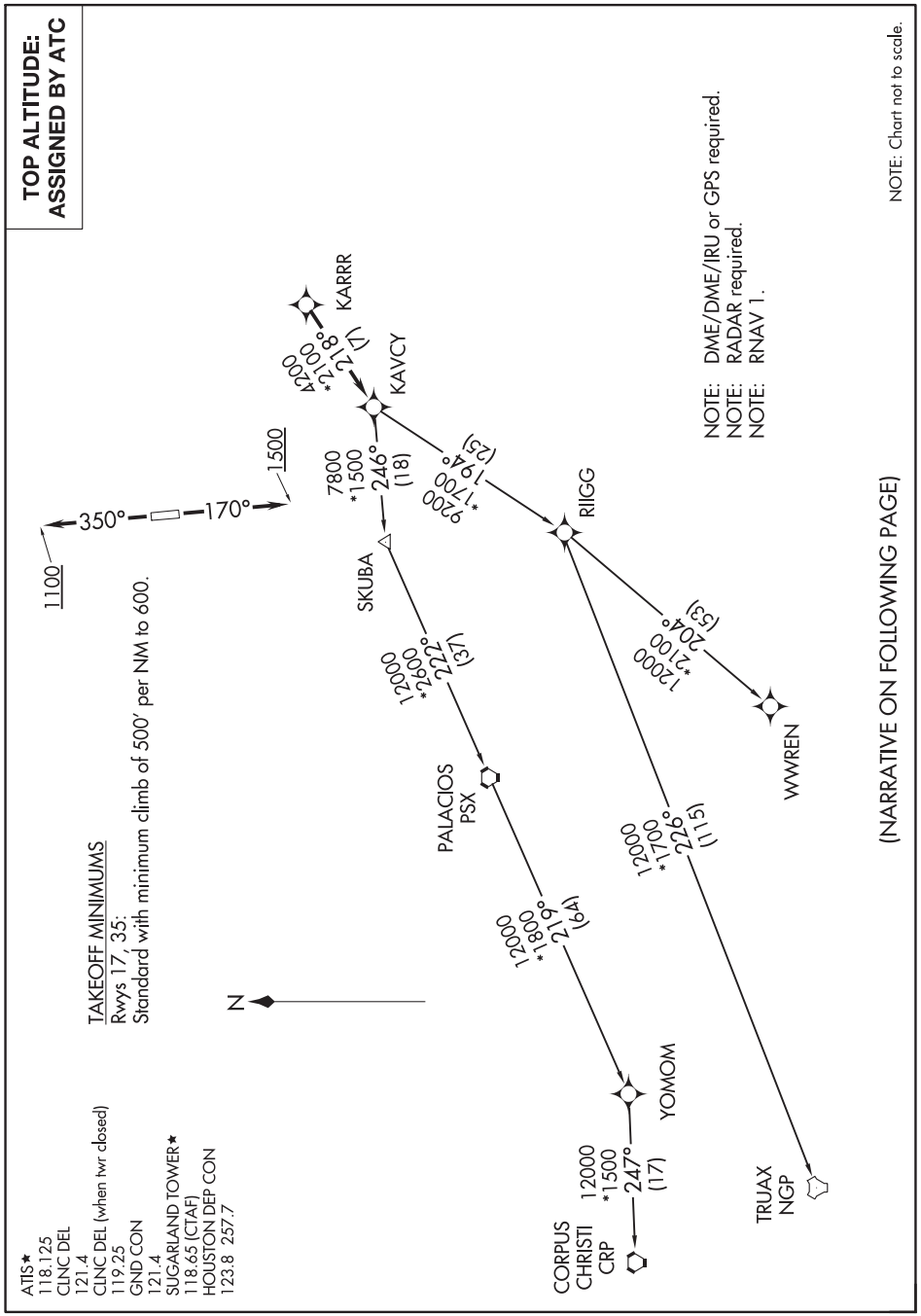
CORPUS CHRISTI TRANSITION (IDU9.CRP): From over IDU VORTAC on IDU R-259 to MARCS INT, then on SAT R-056 to SAT VORTAC, then on SAT R-145 and CRP R-324 to CRP VORTAC.

JUNCTION TRANSITION (IDU9.JCT): From over IDU VORTAC on IDU R-276 and JCT R-094 to JCT VORTAC.

LAREDO TRANSITION (IDU9.LRD): From over IDU VORTAC on IDU R-259 to MARCS INT, then on SAT R-056 to SAT VORTAC, then on SAT R-194 and LRD R-012 to LRD VORTAC.

SC-5, 25 FEB 2021 to 22 APR 2021

KARRR SIX DEPARTURE (RNAV)



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 17: Climb on heading 170° to 1500, expect RADAR vectors to KARRR, thence. . . .
TAKEOFF RWY 35: Climb on heading 350° to 1100, expect RADAR vectors to KARRR, thence. . . .

. . . .on track 218° to KAVCY, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

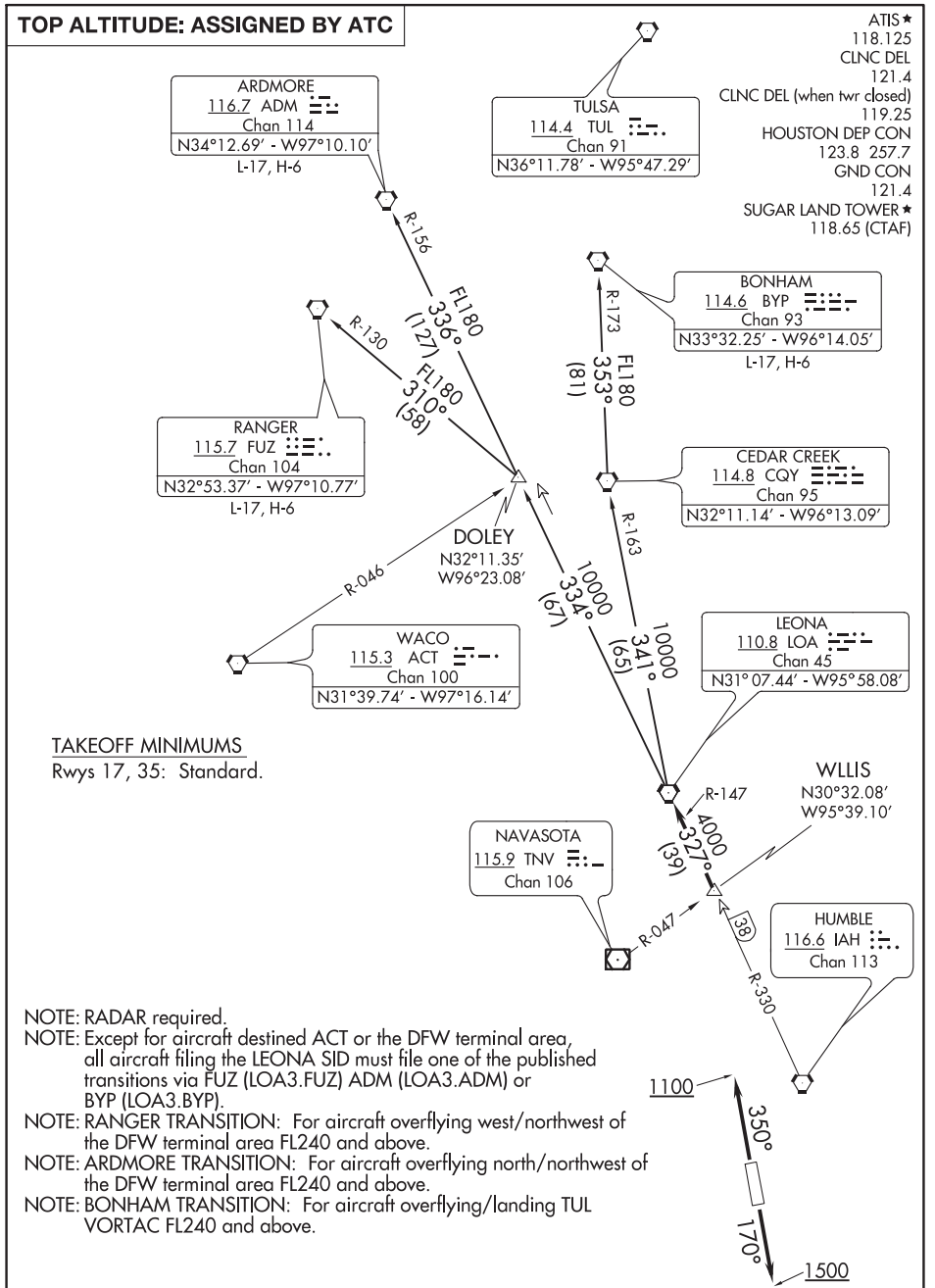
CORPUS CHRISTI TRANSITION (KARRR6.CRP)
PALACIOS TRANSITION (KARRR6.PSX)
TRUAX TRANSITION (KARRR6.NGP)
WWREN TRANSITION (KARRR6.WWREN)
YOMOM TRANSITION (KARRR6.YOMOM)

LEONA THREE DEPARTURE

AL-5537 (FAA)

TOP ALTITUDE: ASSIGNED BY ATC

ATIS ★
118.125
CLNC DEL
121.4
CLNC DEL (when twr closed)
119.25
HOUSTON DEP CON
123.8 257.7
GND CON
121.4
SUGAR LAND TOWER ★
118.65 (CTAF)



TAKEOFF MINIMUMS
Rwys 17, 35: Standard.

NOTE: RADAR required.
NOTE: Except for aircraft destined ACT or the DFW terminal area, all aircraft filing the LEONA SID must file one of the published transitions via FUZ (LOA3.FUZ) ADM (LOA3.ADM) or BYP (LOA3.BYP).
NOTE: RANGER TRANSITION: For aircraft overflying west/northwest of the DFW terminal area FL240 and above.
NOTE: ARDMORE TRANSITION: For aircraft overflying north/northwest of the DFW terminal area FL240 and above.
NOTE: BONHAM TRANSITION: For aircraft overflying/landing TUL VORTAC FL240 and above.

NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

SC-5, 25 FEB 2021 to 22 APR 2021
SC-5, 25 FEB 2021 to 22 APR 2021

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 17: Climb on heading 170° to 1500 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to WLLIS INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence . . . .

TAKEOFF RUNWAY 35: Climb on heading 350° to 1100 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to WLLIS INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence . . . .

. . . . on LOA R-147 to LOA VORTAC.

ARDMORE TRANSITION (LOA3.ADM): From over LOA VORTAC on LOA R-334 to DOLEY INT, then on ADM R-156 to ADM VORTAC.

BONHAM TRANSITION (LOA3.BYP): From over LOA VORTAC on LOA R-341 and CQY R-163 to CQY VORTAC, then on BYP R-173 to BYP VORTAC.

RANGER TRANSITION (LOA3.FUZ): From over LOA VORTAC on LOA R-334 to DOLEY INT, then on FUZ R-130 to FUZ VORTAC.

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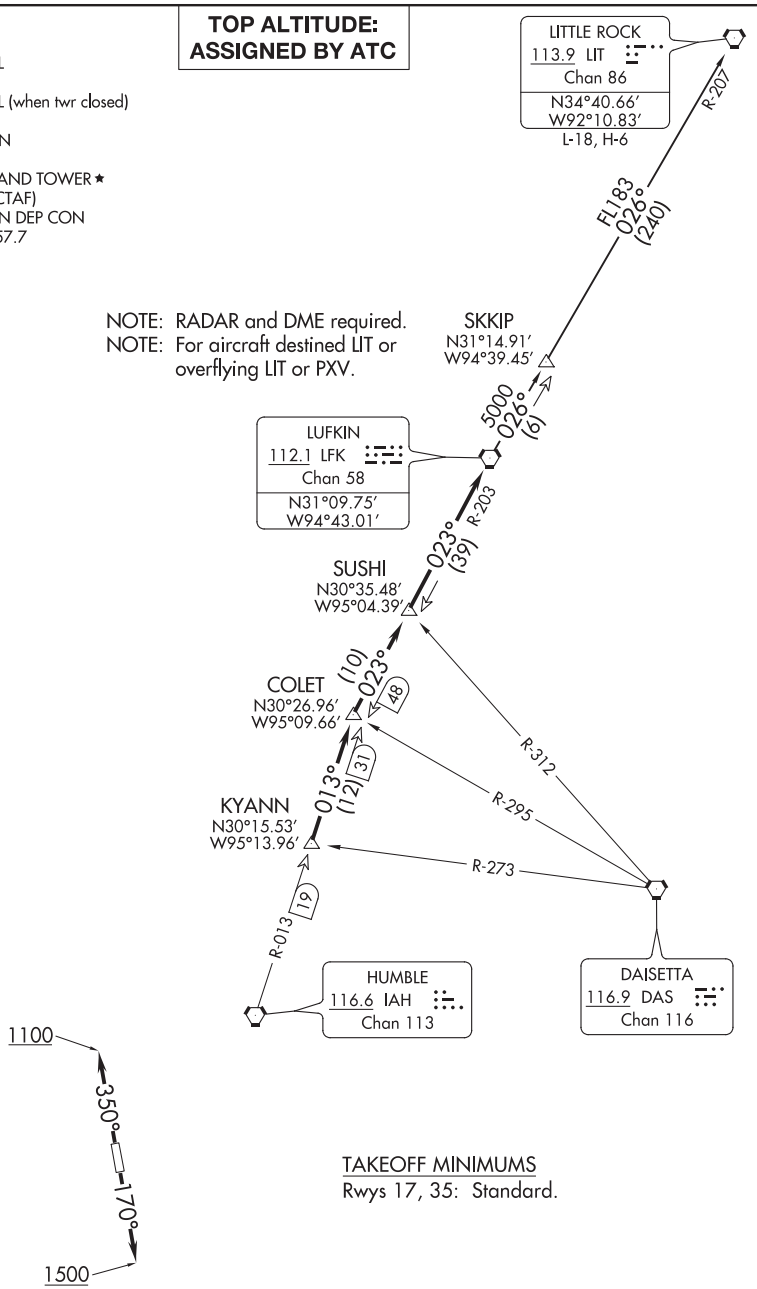
LUFKIN TWO DEPARTURE

ATIS ★
118.125
CLNC DEL
121.4
CLNC DEL (when twr closed)
119.25
GND CON
121.4
SUGAR LAND TOWER ★
118.65 (CTAF)
HOUSTON DEP CON
123.8 257.7

TOP ALTITUDE: ASSIGNED BY ATC

NOTE: RADAR and DME required.
NOTE: For aircraft destined LIT or overflying LIT or PXV.



TAKEOFF MINIMUMS
Rwys 17, 35: Standard.

NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

SC-5, 25 FEB 2021 to 22 APR 2021
SC-5, 25 FEB 2021 to 22 APR 2021

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 17: Climb heading 170° to 1500 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to KYANN INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .
TAKEOFF RWY 35: Climb heading 350° to 1100 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to KYANN INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .

. . . .on IAH R-013 to COLET INT, then right turn on LFK R-203 to LFK VORTAC.

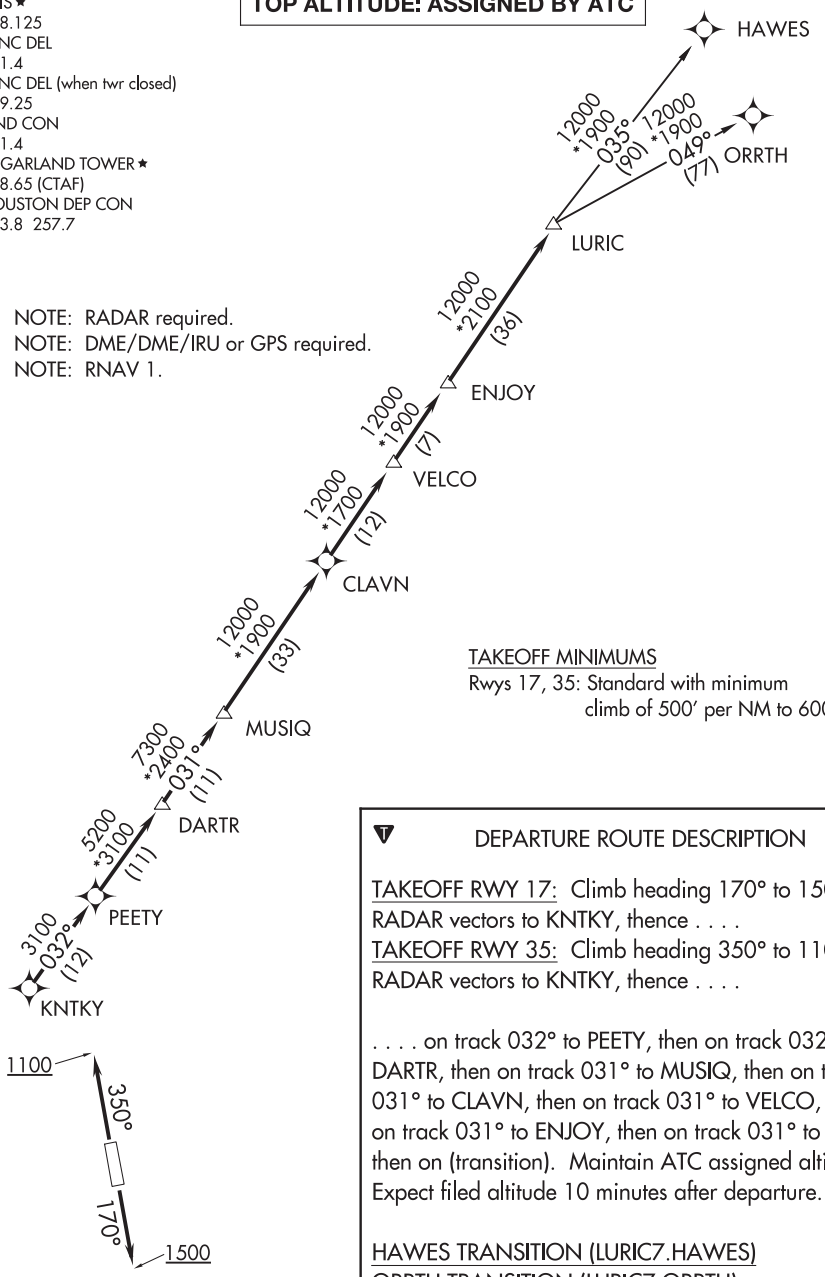
LITTLE ROCK TRANSITION (LFK2.LIT): From over LFK VORTAC on LFK R-026 to SKKIP INT, then on LFK R-026 and LIT R-207 to LIT VORTAC.

LURIC SEVEN DEPARTURE (RNAV)

TOP ALTITUDE: ASSIGNED BY ATC

ATIS ★
118.125
CLNC DEL
121.4
CLNC DEL (when twr closed)
119.25
GND CON
121.4
SUGARLAND TOWER ★
118.65 (CTAF)
HOUSTON DEP CON
123.8 257.7

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



TAKEOFF MINIMUMS
Rwys 17, 35: Standard with minimum climb of 500′ per NM to 600.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 17: Climb heading 170° to 1500 for RADAR vectors to KNTKY, thence . . . .
TAKEOFF RWY 35: Climb heading 350° to 1100 for RADAR vectors to KNTKY, thence . . . .

. . . . on track 032° to PEETY, then on track 032° to DARTR, then on track 031° to MUSIQ, then on track 031° to CLAVN, then on track 031° to VELCO, then on track 031° to ENJOY, then on track 031° to LURIC, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

HAWES TRANSITION (LURIC7.HAWES)
ORRTH TRANSITION (LURIC7.ORRTH)

NOTE: Chart not to scale.

SC-5, 25 FEB 2021 to 22 APR 2021

SC-5, 25 FEB 2021 to 22 APR 2021

(MMALT5.MMALT) 20142 AL-5537 (FAA) SUGAR LAND RGNL (SGR)

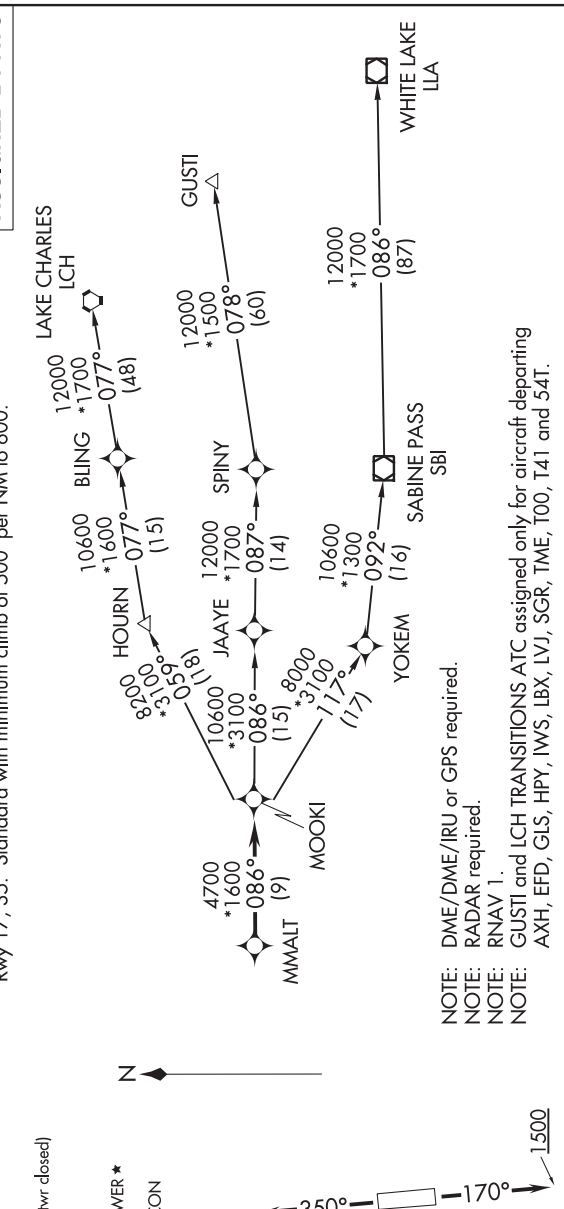
MMALT FIVE DEPARTURE (RNAV)

HOUSTON, TEXAS

TOP ALTITUDE: ASSIGNED BY ATC

TAKEOFF MINIMUMS
Rwy 17, 35: Standard with minimum climb of 500' per NM to 600.

ATIS ★
118.125
CLNC DEL
121.4
CLNC DEL (when twr closed)
119.25
GND CON
121.4
SUGARLAND TOWER ★
118.65 (CTAF)
HOUSTON DEP CON
123.8 257.7



NOTE: DME/DME/IRU or GPS required.
NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: GUSTI and LCH TRANSITIONS ATC assigned only for aircraft departing AXH, EFD, GLS, HPY, IWS, LBX, LVJ, SGR, TME, T00, T41 and 54T.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 17: Climb on heading 170° to 1500 for RADAR vectors to MMALT, thence. . . .
TAKEOFF RWY 35: Climb on heading 350° to 1100 for RADAR vectors to MMALT, thence. . . .

. . . .on track 086° to MOOKI, then on (transition). Maintain ATC assigned altitude.
Expect filed altitude 10 minutes after departure.

GUSTI TRANSITION (MMALT5.GUSTI)
LAKE CHARLES TRANSITION (MMALT5.LCH)
WHITE LAKE TRANSITION (MMALT5.LLA)

NOTE: Chart not to scale.

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MMALT FIVE DEPARTURE (RNAV)

(MMALT5.MMALT) 25APR19 HOUSTON, TEXAS SUGAR LAND RGNL (SGR)

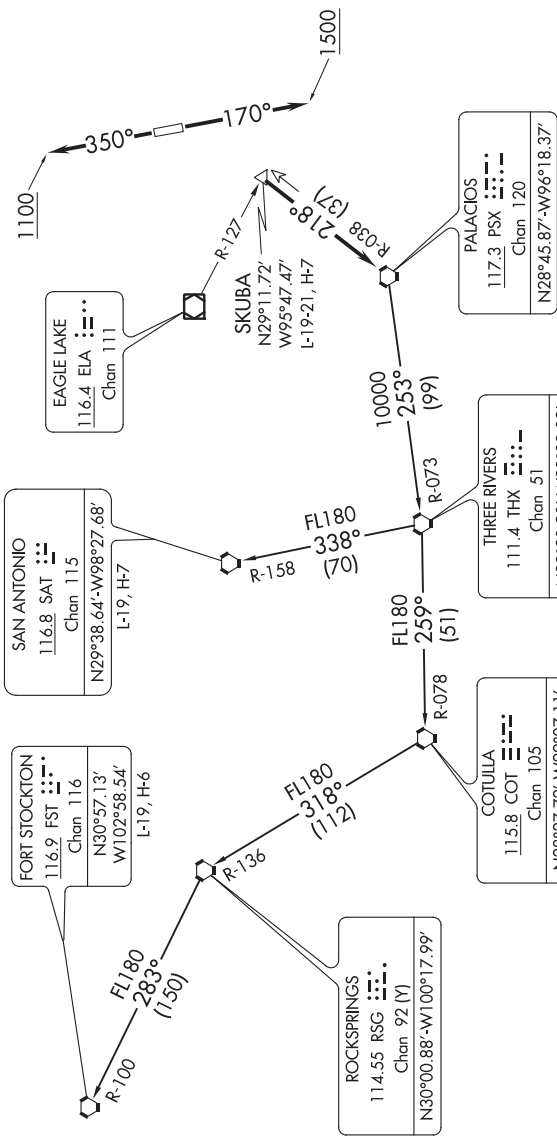
PALACIOS ONE DEPARTURE

AL-5537 (FAA)

TOP ALTITUDE: ASSIGNED BY ATC

TAKEOFF MINIMUMS
Rwy 17, 35: Standard.

ATIS ★
118.125
CLNC DEL
121.4
CLNC DEL (when twr closed)
119.25
GND CON
121.4
SUGAR LAND TOWER ★
118.65 (CTAF)
HOUSTON DEP CON
123.8 257.7



(NARRATIVE ON FOLLOWING PAGE)

NOTE: RADAR required.
NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 17: Climb heading 170° to 1500 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to SKUBA INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .

TAKEOFF RWY 35: Climb heading 350° to 1100 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to SKUBA INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .

. . . .on PSX R-038 to PSX VORTAC.

FORT STOCKTON TRANSITION (PSX1.FST): From over PSX VORTAC on PSX R-253 and THX R-073 to THX VORTAC, then on THX R-259 and COT R-078 to COT VORTAC, then on COT R-318 and RSG R-136 to RSG VORTAC, then on RSG R-283 and FST R-100 to FST VORTAC.

SAN ANTONIO TRANSITION (PSX1.SAT): From over PSX VORTAC on PSX R-253 and THX R-073 to THX VORTAC, then on SAT R-158 to SAT VORTAC.

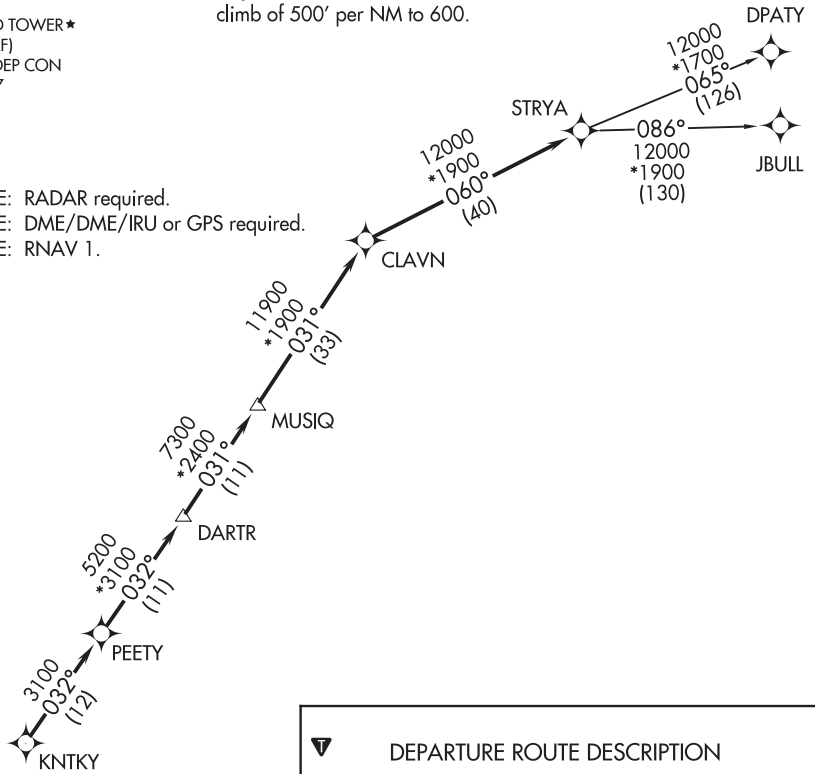
STRYA SEVEN DEPARTURE (RNAV)

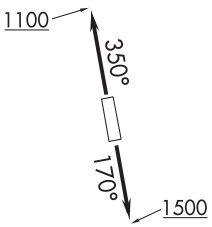
TOP ALTITUDE: ASSIGNED BY ATC

ATIS★
118.125
CLNC DEL
121.4
CLNC DEL (when twr closed)
119.25
GND CON
121.4
SUGARLAND TOWER★
118.65 (CTAF)
HOUSTON DEP CON
123.8 257.7

TAKEOFF MINIMUMS
Rwys 17, 35: Standard with minimum climb of 500′ per NM to 600.

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





NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 17: Climb heading 170° to 1500 for RADAR vectors to KNTKY, thence . . . .
TAKEOFF RWY 35: Climb heading 350° to 1100 for RADAR vectors to KNTKY, thence . . . .

. . . . on track 032° to PEETY, then on track 032° to DARTR, then on track 031° to MUSIQ, then on track 031° to CLAVN, then on track 060° to STRYA, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

DPATY TRANSITION (STRYA7.DPATY)
JBULL TRANSITION (STRYA7.JBULL)

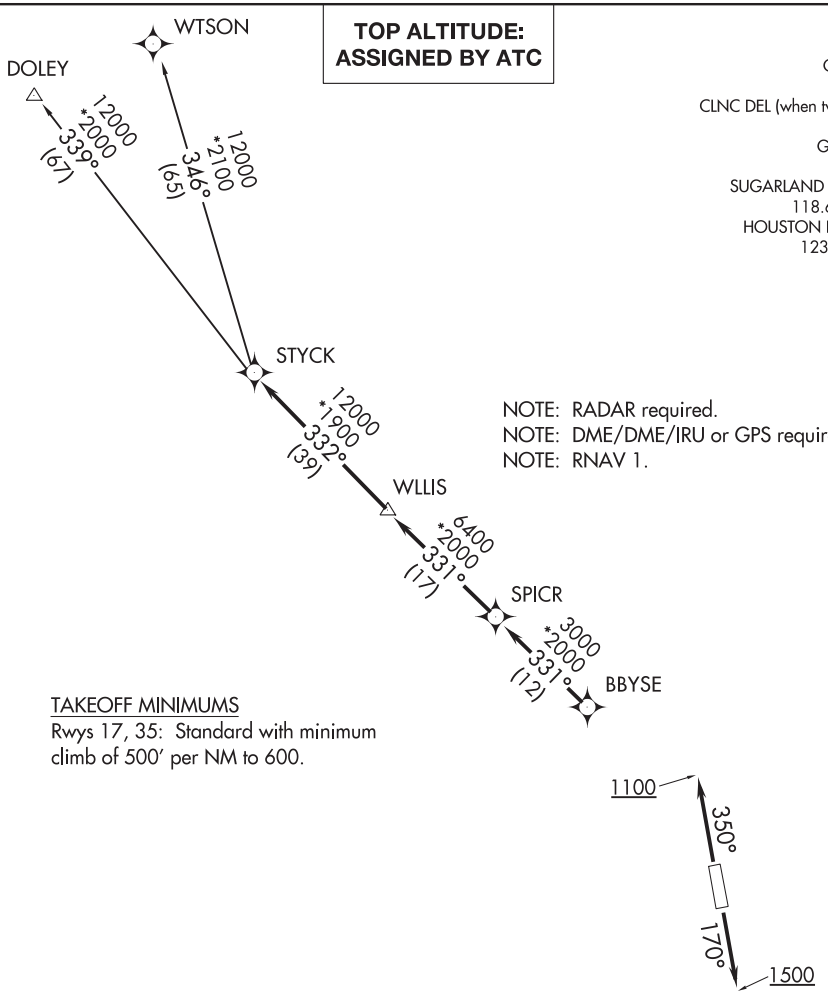
(STYCK7.STYCK) 20142 AL-5537 (FAA)

STYCK SEVEN DEPARTURE (RNAV)

SUGAR LAND RGNL (SGR)
HOUSTON, TEXAS

TOP ALTITUDE: ASSIGNED BY ATC

ATIS★
118.125
CLNC DEL
121.4
CLNC DEL (when twr closed)
119.25
GND CON
121.4
SUGARLAND TOWER★
118.65 (CTAF)
HOUSTON DEP CON
123.8 257.7



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

TAKEOFF MINIMUMS
Rwys 17, 35: Standard with minimum climb of 500′ per NM to 600.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 17: Climb heading 170° to 1500 for RADAR vectors to BBYSE, thence. . . .
TAKEOFF RWY 35: Climb heading 350° to 1100 for RADAR vectors to BBYSE, thence. . . .

. . . .on track 331° to SPICR, then on track 331° to WLLIS, then on track 332° to STYCK, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

DOLEY TRANSITION (STYCK7.DOLEY)
WTSON TRANSITION (STYCK7.WTSON)

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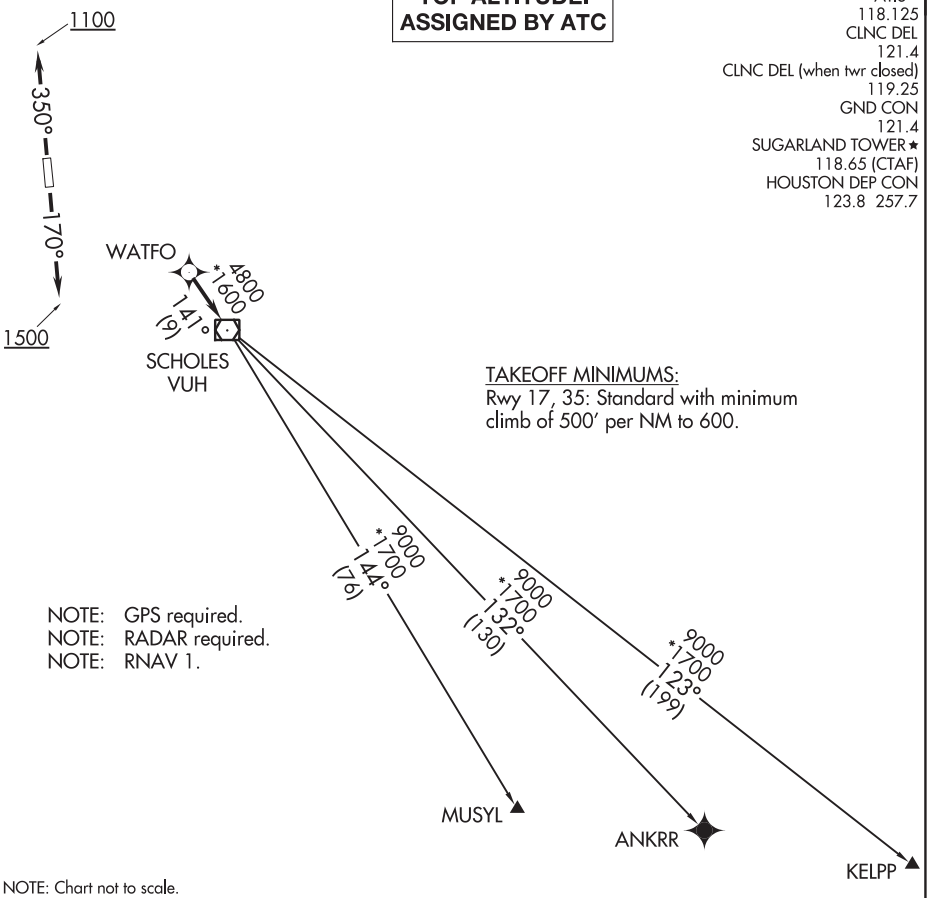
SC-5, 25 FEB 2021 to 22 APR 2021

WATFO FIVE DEPARTURE (RNAV)

SUGAR LAND RGNL (SGR)
HOUSTON, TEXAS

TOP ALTITUDE: ASSIGNED BY ATC

ATIS★
118.125
CLNC DEL
121.4
CLNC DEL (when twr closed)
119.25
GND CON
121.4
SUGARLAND TOWER★
118.65 (CTAF)
HOUSTON DEP CON
123.8 257.7



TAKEOFF MINIMUMS:
Rwy 17, 35: Standard with minimum climb of 500′ per NM to 600.

NOTE: GPS required.
NOTE: RADAR required.
NOTE: RNAV 1.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 17: Climb on heading 170° to 1500, for RADAR vectors to WATFO, thence. . . .
TAKEOFF RWY 35: Climb on heading 350° to 1100, for RADAR vectors to WATFO, thence. . . .

. . . .on track 141° to VUH VOR/DME, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

ANKRR TRANSITION (WATFO5.ANKRR)
KELPP TRANSITION (WATFO5.KELPP)
MUSYL TRANSITION (WATFO5.MUSYL)

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(WYLSN7.WYLSN) 20142 AL-5537 (FAA)

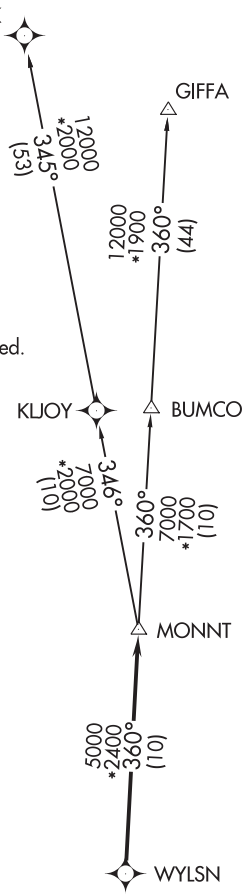
SUGAR LAND RGNL (SGR)

HOUSTON, TEXAS

WYLSN SEVEN DEPARTURE (RNAV)

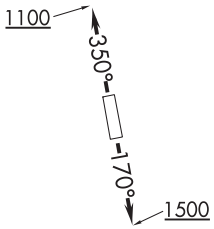
ATIS ★
118.125
CLNC DEL
121.4
CLNC DEL (when twr closed)
119.25
GND CON
121.4
SUGARLAND TOWER ★
118.65 (CTAF)
HOUSTON DEP CON
123.8 257.7

TOP ALTITUDE: ASSIGNED BY ATC



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

TAKEOFF MINIMUMS
Rwy 17, 35: Standard with minimum climb of 500′ per NM to 600.



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 17: Climb on heading 170° to 1500 for RADAR vectors to WYLSN, thence. . . .
TAKEOFF RWY 35: Climb on heading 350° to 1100 for RADAR vectors to WYLSN, thence. . . .

. . . .on track 360° to MONNT, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

GIFFA TRANSITION (WYLSN7.GIFFA)
MAJKK TRANSITION (WYLSN7.MAJKK)

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WAAS CH 40429 W15A	APP CRS 150°	Rwy ldg 3953 TDZE 111 Apt Elev 111

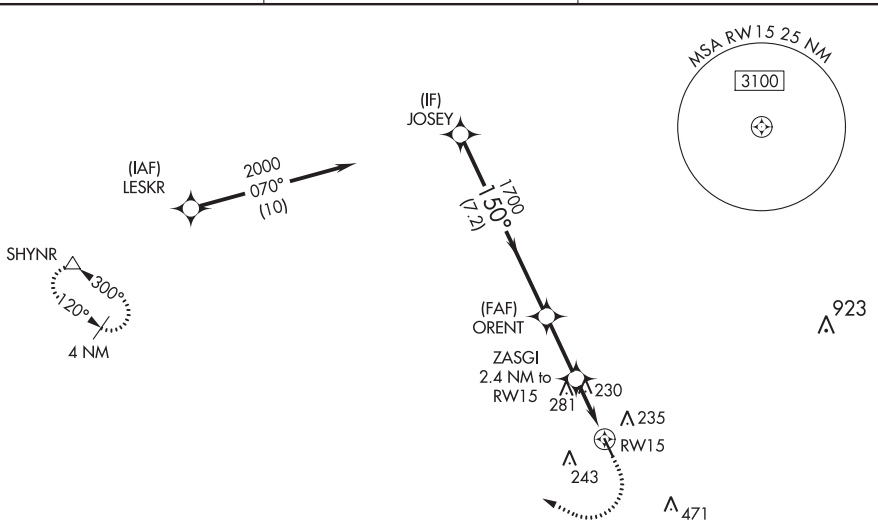
RNAV (GPS) RWY 15
WEST HOUSTON (IWS)

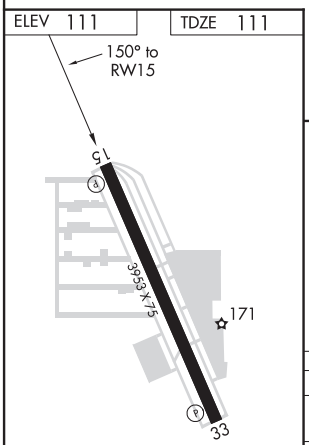
RNP APCH.

T A NA Procedure NA at night.
Rwy 15 helicopter visibility reduction below 1 SM NA.
Use George Bush Intercontinental/Houston altimeter setting.

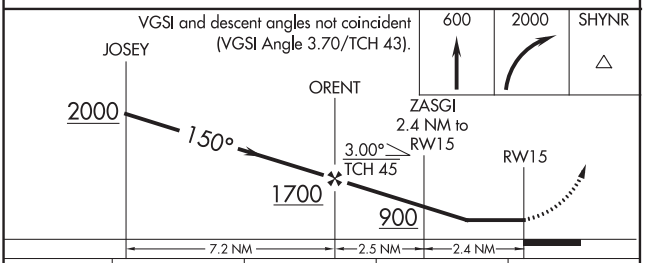
MISSED APPROACH: Climb to 600 then climbing right turn to 2000 direct SHYNR and hold.

HOUSTON APP CON	CLNC DEL	UNICOM
123.8 257.7	121.15	123.05 (CTAF) L





REIL Rwys 15 and 33 L
HIRL Rwy 15-33 L



CATEGORY	A	B	C	D
LP MDA	540-1	429 (500-1)	540-1¼ 429 (500-1¼)	NA
LNAV MDA	580-1	469 (500-1)	580-1⅜ 469 (500-1⅜)	NA
CIRCLING	600-1	489 (500-1)	640-1½ 529 (600-1½)	NA

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HOUSTON, TEXAS | AL-6079 (FAA) | 20142

RNAV (GPS) RWY 33

WEST HOUSTON (IWS)

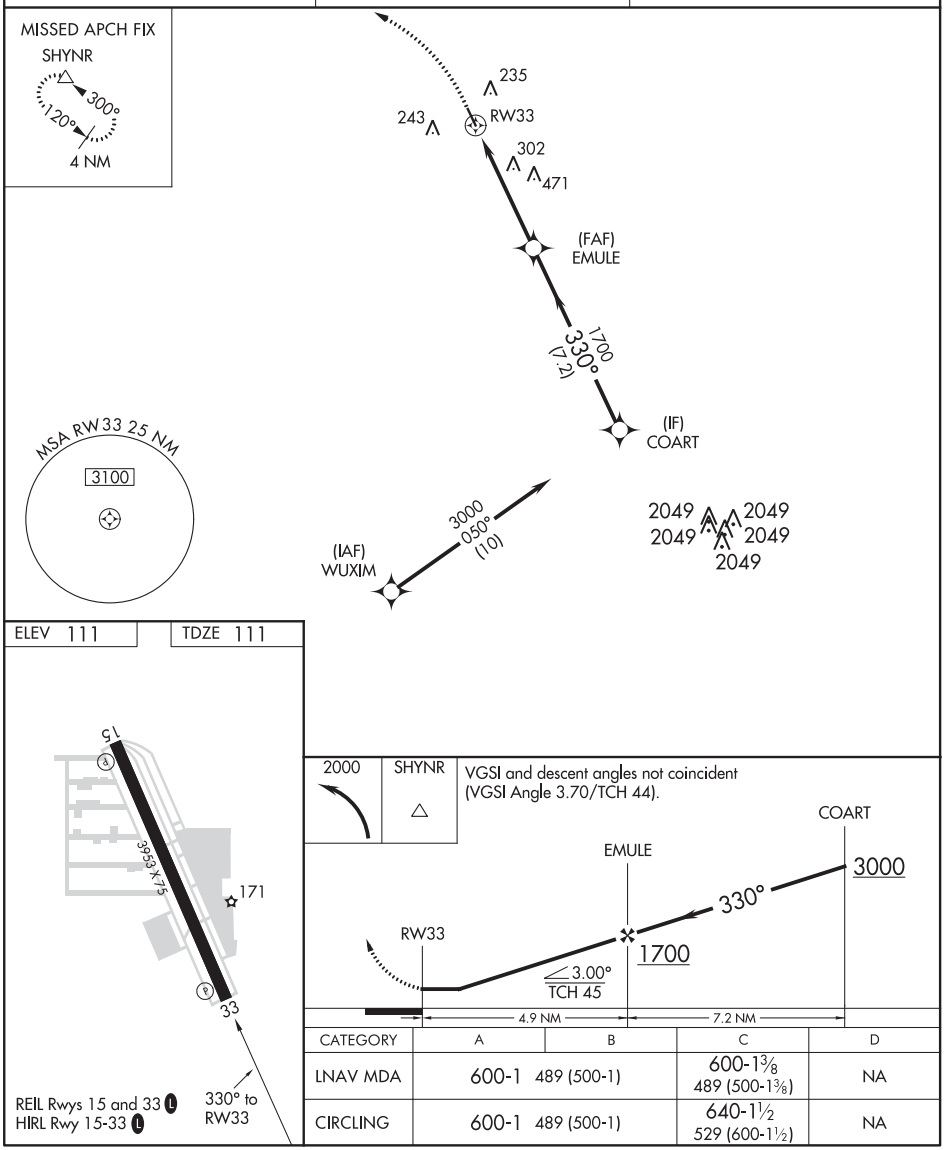
APP CRS	Rwy ldg	3953
330°	TDZE	111
	Apt Elev	111

RNP APCH.

Rwy 33 helicopter visibility reduction below 1 SM NA.
Use George Bush Intercontinental/Houston altimeter setting.
Circling Rwy 15 NA at night.

MISSED APPROACH: Climbing left turn to 2000 direct SHYNR and hold.

HOUSTON APP CON	CLNC DEL	UNICOM
123.8 257.7	121.15	123.05 (CTAF) L



CATEGORY	A	B	C	D
LNAV MDA	600-1 489 (500-1)		600-1⅜ 489 (500-1⅜)	NA
CIRCLING	600-1 489 (500-1)		640-1½ 529 (600-1½)	NA

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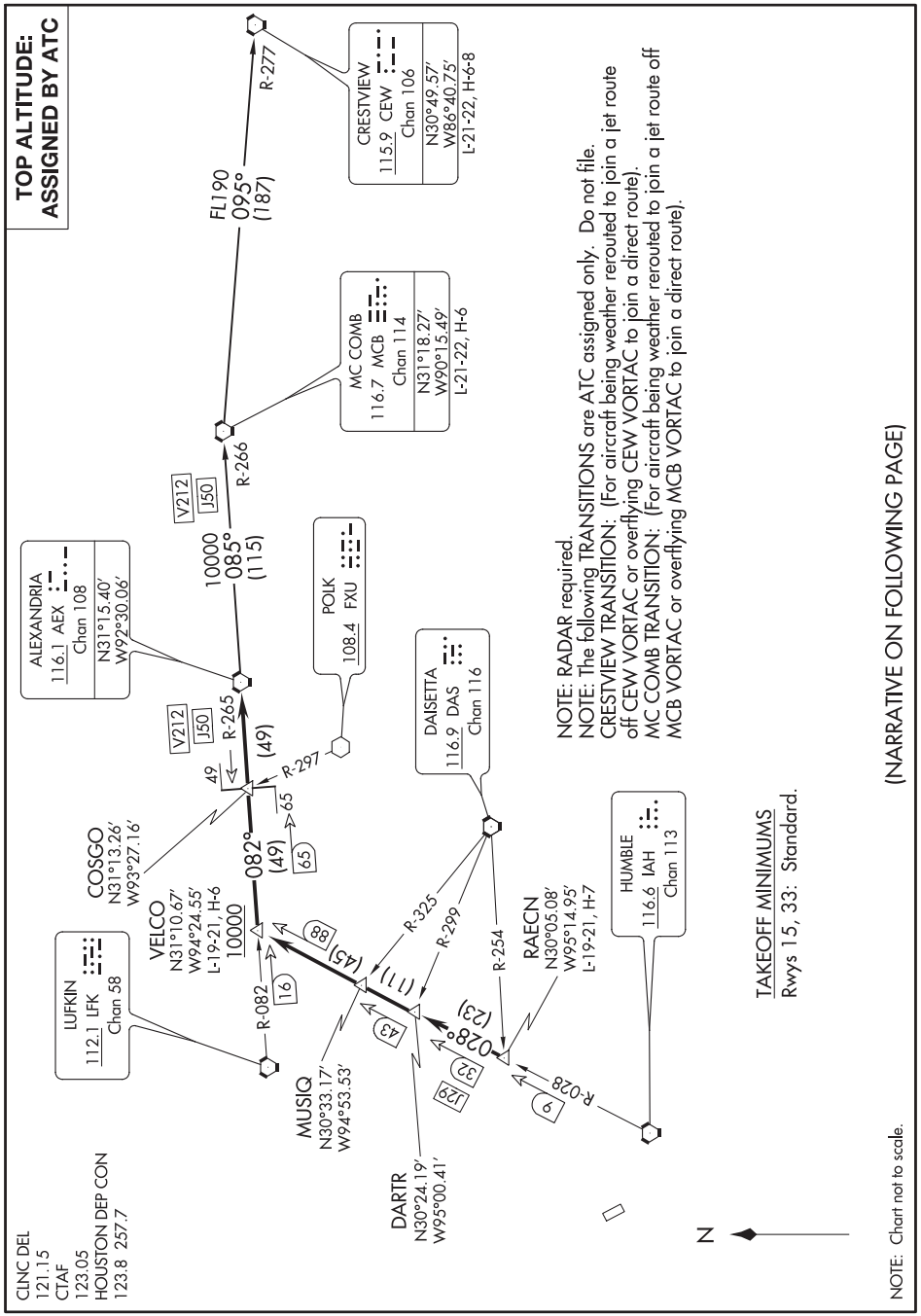
ALEXANDRIA TWO DEPARTURE



NOTE: RADAR required.
NOTE: The following TRANSITIONS are ATC assigned only. Do not file.
CRESTVIEW TRANSITION: (For aircraft being weather rerouted to join a jet route off CEW VORTAC or overflying CEW VORTAC to join a direct route).
MC COMB TRANSITION: (For aircraft being weather rerouted to join a jet route off MCB VORTAC or overflying MCB VORTAC to join a direct route).

(NARRATIVE ON FOLLOWING PAGE)

TAKEOFF MINIMUMS
Rwys 15, 33: Standard.

CLNC DEL
121.15
CTAF
123.05
HOUSTON DEP CON
123.8 257.7

NOTE: Chart not to scale.

SC-5, 25 FEB 2021 to 22 APR 2021

ALEXANDRIA TWO DEPARTURE
HOUSTON, TEXAS
WEST HOUSTON (IWS)

DEPARTURE ROUTE DESCRIPTION

TAKEOFF ALL RWYS: When entering controlled airspace, climb on assigned heading for RADAR vectors to RAECN INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .

. . . .on IAH R-028 to VELCO INT, cross VELCO INT at or above 10000, then right turn on LFK R-082 and AEX R-265 to AEX VORTAC.

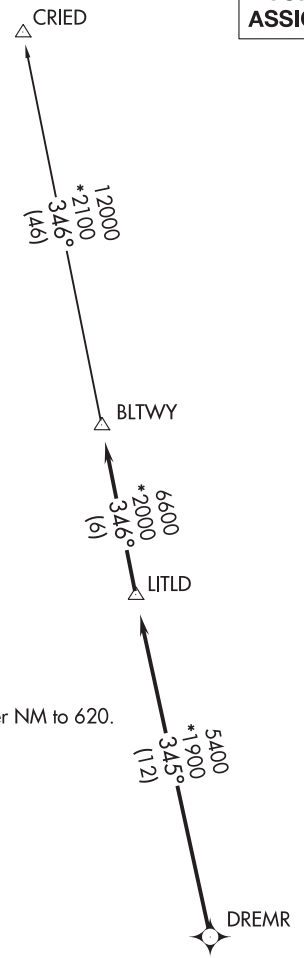
CRESTVIEW TRANSITION (AEX2.CEW): From over AEX VORTAC on AEX R-085 and MCB R-266 to MCB VORTAC, then on MCB R-095 and CEW R-277 to CEW VORTAC.

MC COMB TRANSITION (AEX2.MCB): From over AEX VORTAC on AEX R-085 and MCB R-266 to MCB VORTAC.

BLTWY SIX DEPARTURE (RNAV)

TOP ALTITUDE: ASSIGNED BY ATC

CLNC DEL
121.15
CTAF
123.05
HOUSTON DEP CON
123.8 257.7



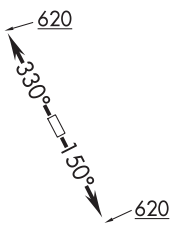
NOTE: RADAR required.

NOTE: DME/DME/IRU or GPS required.

NOTE: RNAV 1.

TAKEOFF MINIMUMS

Rwy 15, 33: Standard with minimum climb of 500′ per NM to 620.



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 15: Climb on heading 150° to 620 for RADAR vectors to DREMR, thence . . . .
TAKEOFF RWY 33: Climb on heading 330° to 620 for RADAR vectors to DREMR, thence . . . .

...on track 345° to LITLD, then on track 346° to BLTWY, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

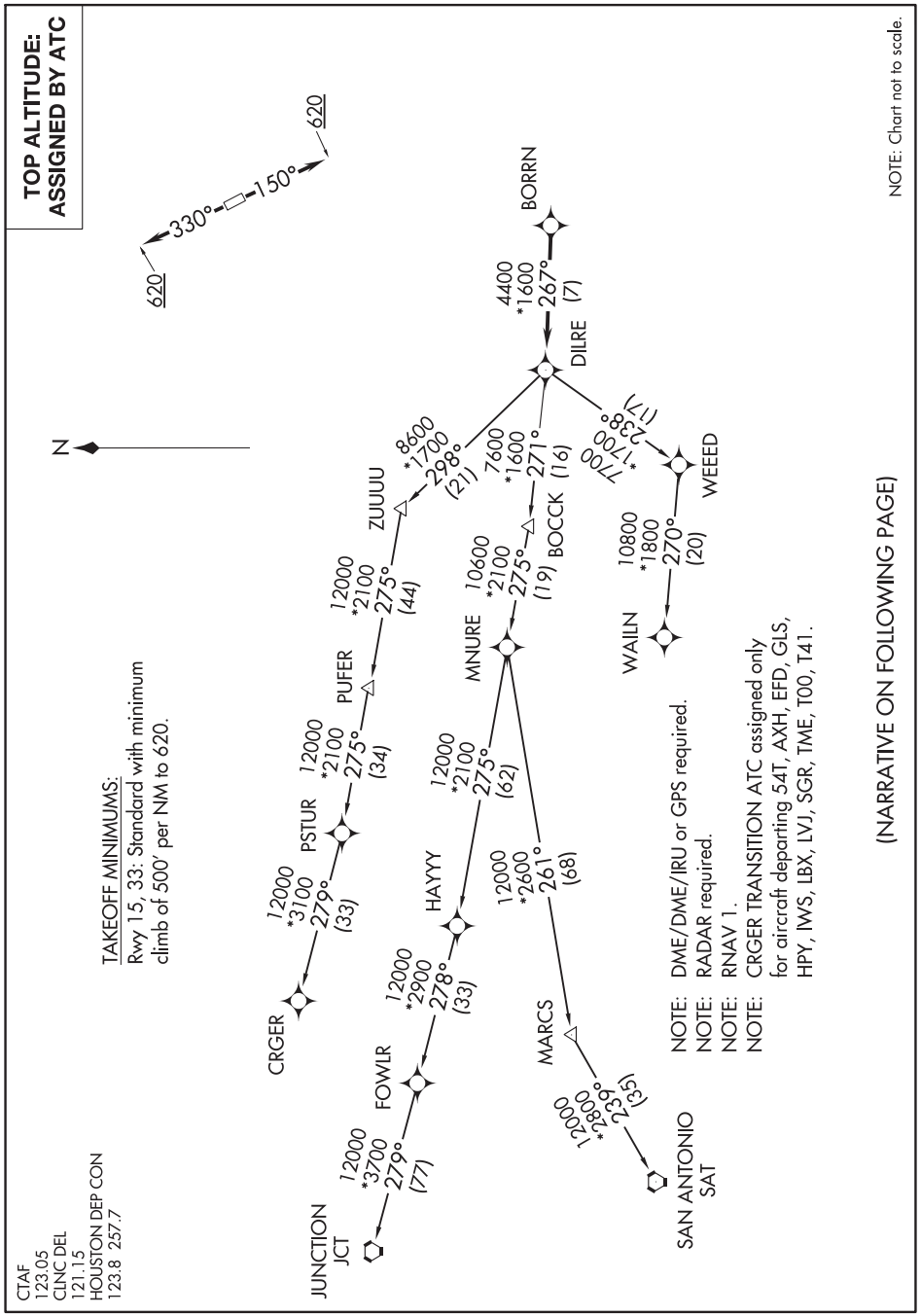
CRIED TRANSITION (BLTWY6.CRIED)

NOTE: Chart not to scale.

(BORRN4.BORRN) 19115 AL-6079 (FAA)

WEST HOUSTON (IWS)
HOUSTON, TEXAS

BORRN FOUR DEPARTURE (RNAV)



SC-5, 25 FEB 2021 to 22 APR 2021

BORRN FOUR DEPARTURE (RNAV)

(BORRN4.BORRN) 25APR19

HOUSTON, TEXAS
WEST HOUSTON (IWS)

BORRN FOUR DEPARTURE (RNAV)

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 15: Climb heading 150° to 620, for RADAR vectors to BORRN, thence. . . .
TAKEOFF RWY 33: Climb heading 330° to 620, for RADAR vectors to BORRN, thence. . . .

. . . .on track 267° to DILRE, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

CRGER TRANSITION (BORRN4.CRGER)
JUNCTION TRANSITION (BORRN4.JCT)
MNURE TRANSITION (BORRN4.MNURE)
SAN ANTONIO TRANSITION (BORRN4.SAT)
WAILN TRANSITION (BORRN4.WAILN)

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(CRIED9.CRIED) 18032

CRIED NINE DEPARTURE

AL-6079 (FAA)

WEST HOUSTON (IWS)
HOUSTON, TEXAS

CLNC DEL
121.15
CTAF
123.05
HOUSTON DEP CON
123.8 257.7

TOP ALTITUDE: ASSIGNED BY ATC

CEDAR CREEK
114.8 CQY
Chan 95
N32°11.14′-W96°13.09′
L-17,H-6

R-144
FL180
324°
(57)
CRIED
N31°21.24′
W95°39.68′
R-279
85
133
10000
344°
(31)
R-241
LUFKIN
112.1 LFK
Chan 58
STELL
N30°50.41′
W95°32.65′
54
344°
(14)
BLTWY
N30°36.34′
W95°29.47′
NAVASOTA
115.9 TNV
Chan 106
R-049
40
344°
(6)
LITLD
N30°30.29′
W95°28.10′
R-059
33
R-344
HUMBLE
116.6 IAH
Chan 113

NOTE: RADAR required.

TAKEOFF MINIMUMS
Rwys 15, 33: Standard.

NOTE: Chart not to scale.

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SC-5, 25 FEB 2021 to 22 APR 2021

T

DEPARTURE ROUTE DESCRIPTION

TAKEOFF ALL RUNWAYS: When entering controlled airspace, climb on assigned heading for RADAR vectors to LITLD INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence . . . .

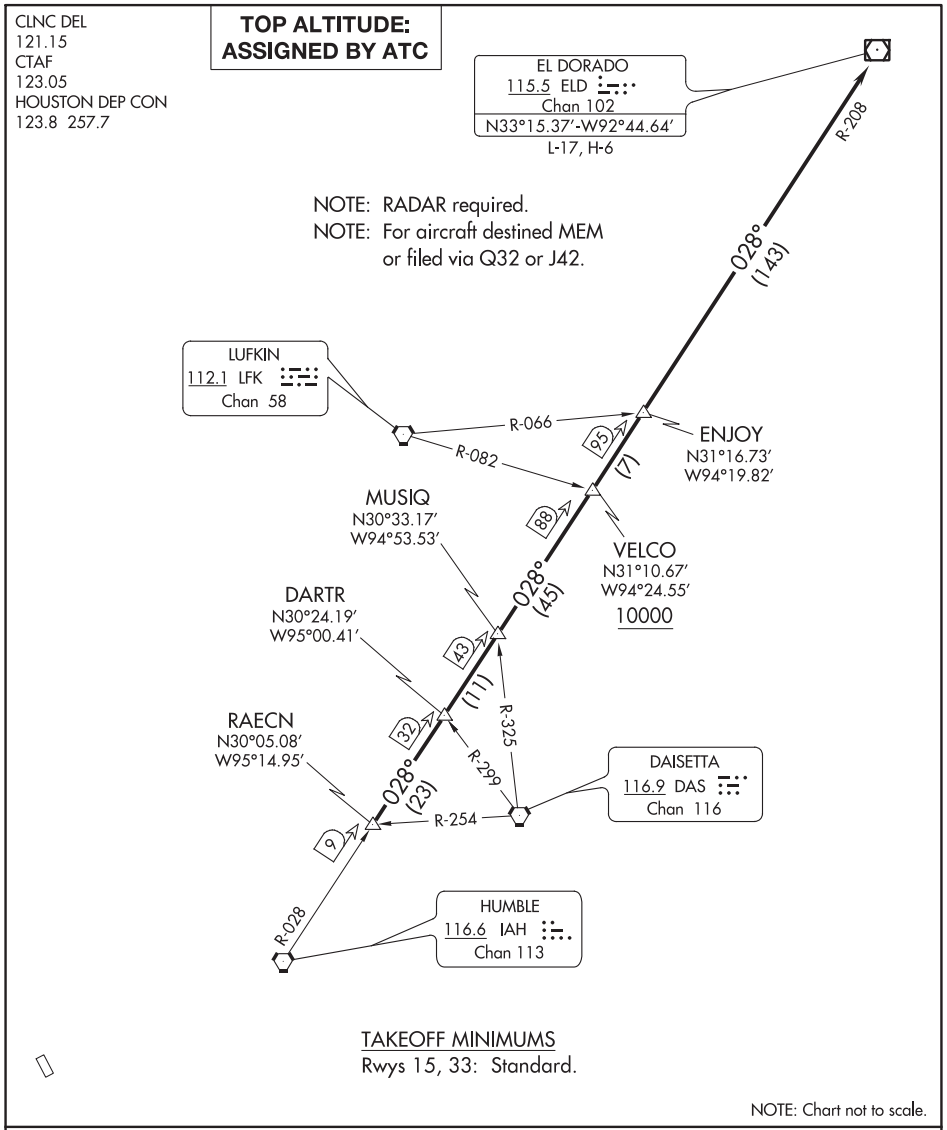
. . . . on IAH R-344 to STELL INT, then on IAH R-344 to CRIED INT then left turn on CQY R-144 to CQY VORTAC.

EL DORADO NINE DEPARTURE

WEST HOUSTON (IWS)
HOUSTON, TEXAS

CLNC DEL
121.15
CTAF
123.05
HOUSTON DEP CON
123.8 257.7

TOP ALTITUDE: ASSIGNED BY ATC



TAKEOFF MINIMUMS
Rwys 15, 33: Standard.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF ALL RWYS: When entering controlled airspace, climb on assigned heading for RADAR vectors to RAECN INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .

. . . .on IAH R-028 and the ELD R-208 to ELD VOR/DME, cross VELCO INT at or above 10000.

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(GIFFA9.GIFFA) 18032

GIFFA NINE DEPARTURE

AL-6079 (FAA)

WEST HOUSTON (IWS)
HOUSTON, TEXAS

CLNC DEL
121.15
CTAF
123.05
HOUSTON DEP CON
123.8 257.7

TOP ALTITUDE: ASSIGNED BY ATC

NOTE: RADAR required.
NOTE: For aircraft destined for the DFW terminal area only.

CEDAR CREEK
114.8 CQY
Chan 95

R-128

69

GIFFA
N31°22.89′
W95°15.10′
L-19-21, H-6
10000

85

LEONA
110.8 LOA
Chan 45

R-059

358°
(44)

R-121

BUMCO
N30°38.91′
W95°18.03′

41

358°
(10)

MONNT
N30°28.65′
W95°18.70′
L19-21, H7

31

DAISETTA
116.9 DAS
Chan 116

R-292

R-358

HUMBLE
116.6 IAH
Chan 113

TAKEOFF MINIMUMS
Rwys 15, 33: Standard

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF ALL RWYS: When entering controlled airspace, climb on assigned heading for RADAR vectors to MONNT INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .
. . . . on IAH R-358 to cross GIFFA INT at or above 10000.

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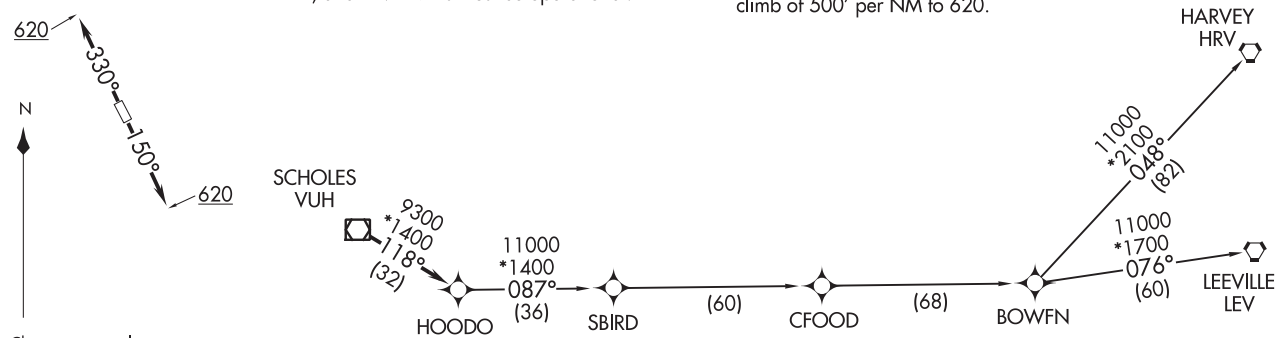
CLNC DEL
121.15
CTAF
123.05
HOUSTON DEP CON
123.8 257.7

NOTE: RNAV 1.
NOTE: RADAR required.
NOTE: ATC assigned only.
NOTE: DME/DME/IRU or GPS required.
NOTE: For non-GPS equipped aircraft, LCH, LLA, TBD, and LEV DME's must be operational.

TOP ALTITUDE: ASSIGNED BY ATC

TAKEOFF MINIMUMS
Rwy 15, 33: Standard with minimum climb of 500′ per NM to 620.



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 15: Climb heading 150° to 620, for RADAR vectors to VUH VOR/DME, thence . . . .
TAKEOFF RWY 33: Climb heading 330° to 620, for RADAR vectors to VUH VOR/DME, thence . . . .

. . . . on track 118° to HOODO, then on (transition). Maintain ATC assigned altitude.
Expect filed altitude 10 minutes after departure.

BOWFN TRANSITION (HOODO6.BOWFN)
CFOOD TRANSITION (HOODO6.CFOOD)
HARVEY TRANSITION (HOODO6.HRV)
LEEVILLE TRANSITION (HOODO6.LEV)
SBIRD TRANSITION (HOODO6.SBIRD)

(INDIE7.INDIE) 19115 AL-6079 (FAA)

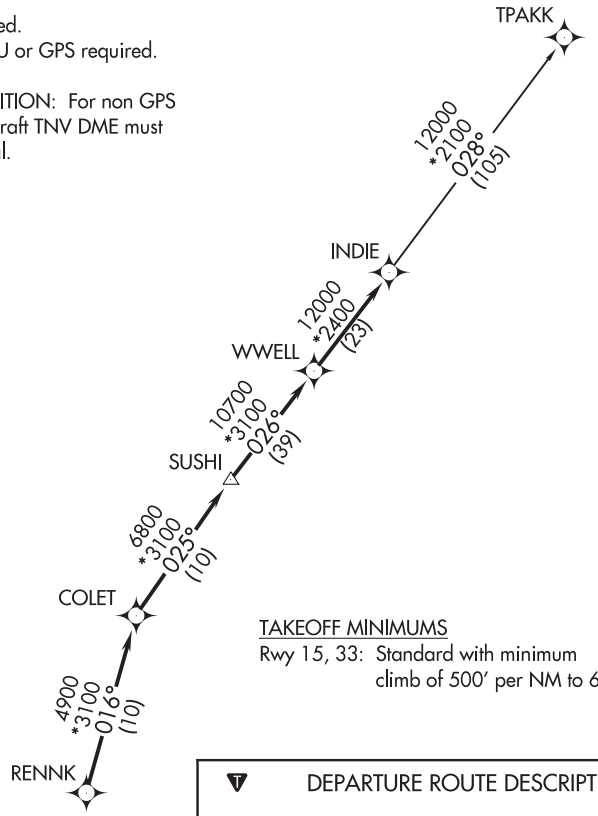
INDIE SEVEN DEPARTURE (RNAV)

WEST HOUSTON (IWS)
HOUSTON, TEXAS

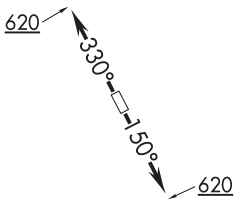
TOP ALTITUDE: ASSIGNED BY ATC

CLNC DEL
121.15
CTAF
123.05
HOUSTON DEP CON
123.8 257.7

NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV 1.
NOTE: TPAKK TRANSITION: For non GPS equipped aircraft TNV DME must be operational.



TAKEOFF MINIMUMS
Rwy 15, 33: Standard with minimum climb of 500′ per NM to 620.



NOTE: Chart not to scale.

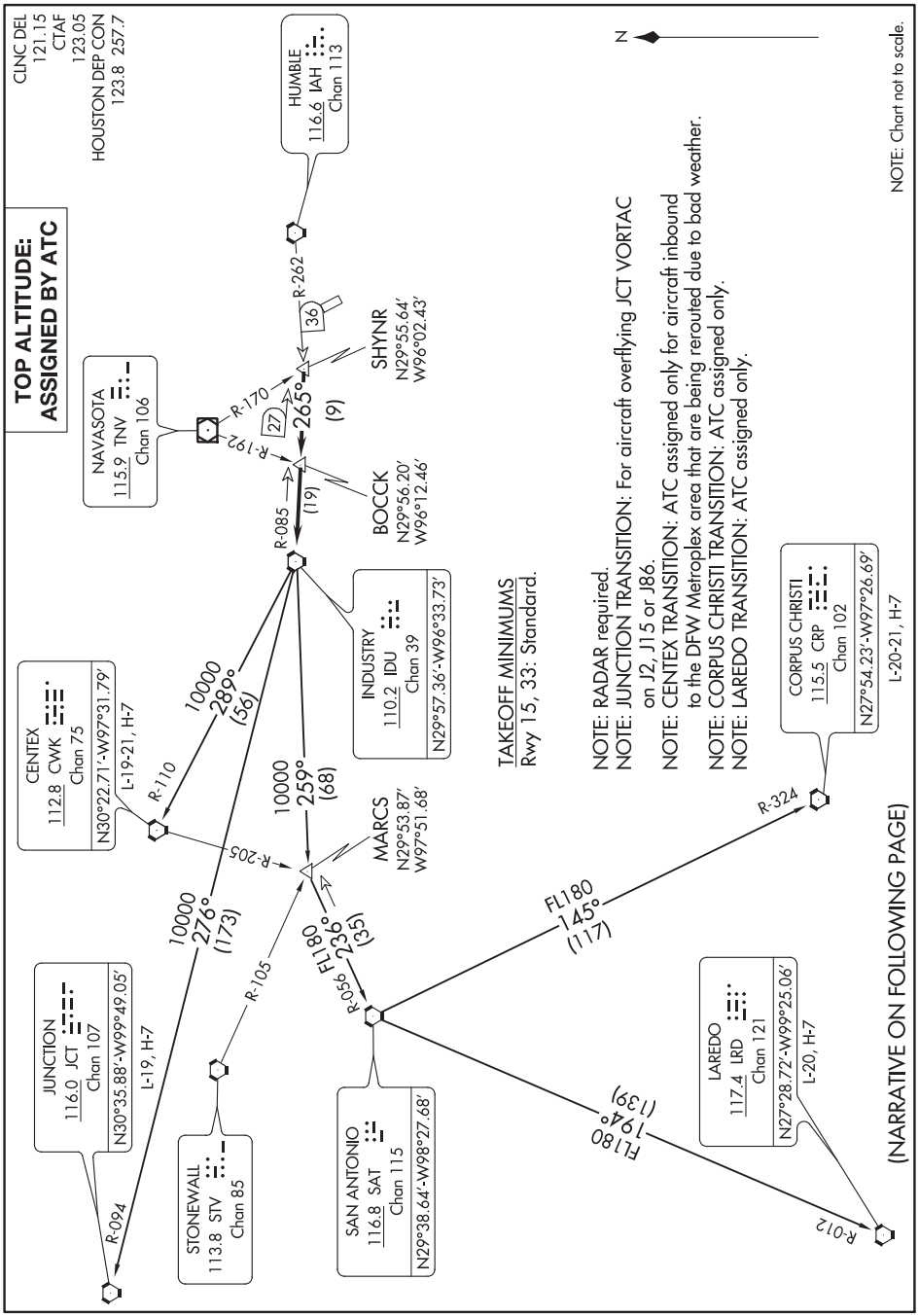
DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 15: Climb heading 150° to 620 for RADAR vectors to RENNK, thence . . . .
TAKEOFF RWY 33: Climb heading 330° to 620 for RADAR vectors to RENNK, thence . . . .

. . . . on track 016° to COLET, then on track 025° to SUSHI, then on track 026° to WWELL, then on track 026° to INDIE, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

TPAKK TRANSITION (INDIE7.TPAKK)

SC-5, 25 FEB 2021 to 22 APR 2021


CLNC DEL 121.15
CTAF 123.05
HOUSTON DEP CON 123.8 257.7
TOP ALTITUDE: ASSIGNED BY ATC
HUMBLE 116.6 IAH Chan 113
R-262
36
SHYNR N29°55.64' W96°02.43'
NAVASOTA 115.9 TNV Chan 106
R-170
R-192
27
265°
(9)
BOCCK N29°56.20' W96°12.46'
R-085
(19)
INDUSTRY 110.2 IDU Chan 39
N29°57.36'-W96°33.73'
10000
289°
(56)
CENTEX 112.8 CWK Chan 75
L-19-21, H-7
N30°22.71'-W97°31.79'
R-110
R-205
10000
259°
(68)
MARCS N29°53.87' W97°51.68'
10000
276°
(173)
R-105
FL180
236°
(35)
R-056
JUNCTION 116.0 JCT Chan 107
N30°35.88'-W99°49.05'
L-19, H-7
R-094
STONEWALL 113.8 STV Chan 85
SAN ANTONIO 116.8 SAT Chan 115
N29°38.64'-W98°27.68'
TAKEOFF MINIMUMS
Rwy 15, 33: Standard.
NOTE: RADAR required.
NOTE: JUNCTION TRANSITION: For aircraft overflying JCT VORTAC on J2, J15 or J86.
NOTE: CENTEX TRANSITION: ATC assigned only for aircraft inbound to the DFW Metroplex area that are being rerouted due to bad weather.
NOTE: CORPUS CHRISTI TRANSITION: ATC assigned only.
NOTE: LAREDO TRANSITION: ATC assigned only.
FL180
145°
(117)
R-324
CORPUS CHRISTI 115.5 CRP Chan 102
N27°54.23'-W97°26.69'
L-20-21, H-7
FL180
194°
(139)
LAREDO 117.4 LRD Chan 121
N27°28.72'-W99°25.06'
L-20, H-7
R-012
N
NOTE: Chart not to scale.
(NARRATIVE ON FOLLOWING PAGE)

DEPARTURE ROUTE DESCRIPTION

TAKEOFF ALL RWYS: When entering controlled airspace, climb on assigned heading for RADAR vectors to SHYNR INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence . . . .

. . . . on IDU R-085 to BOCCK INT, then on IDU R-085 to IDU VORTAC.

CENTEX TRANSITION (IDU9.CWK): From over IDU VORTAC on IDU R-289 and CWK R-110 to CWK VORTAC.

CORPUS CHRISTI TRANSITION (IDU9.CRP): From over IDU VORTAC on IDU R-259 to MARCS INT, then on SAT R-056 to SAT VORTAC, then on SAT R-145 and CRP R-324 to CRP VORTAC.

JUNCTION TRANSITION (IDU9.JCT): From over IDU VORTAC on IDU R-276 and JCT R-094 to JCT VORTAC.

LAREDO TRANSITION (IDU9.LRD): From over IDU VORTAC on IDU R-259 to MARCS INT, then on SAT R-056 to SAT VORTAC, then on SAT R-194 and LRD R-012 to LRD VORTAC.

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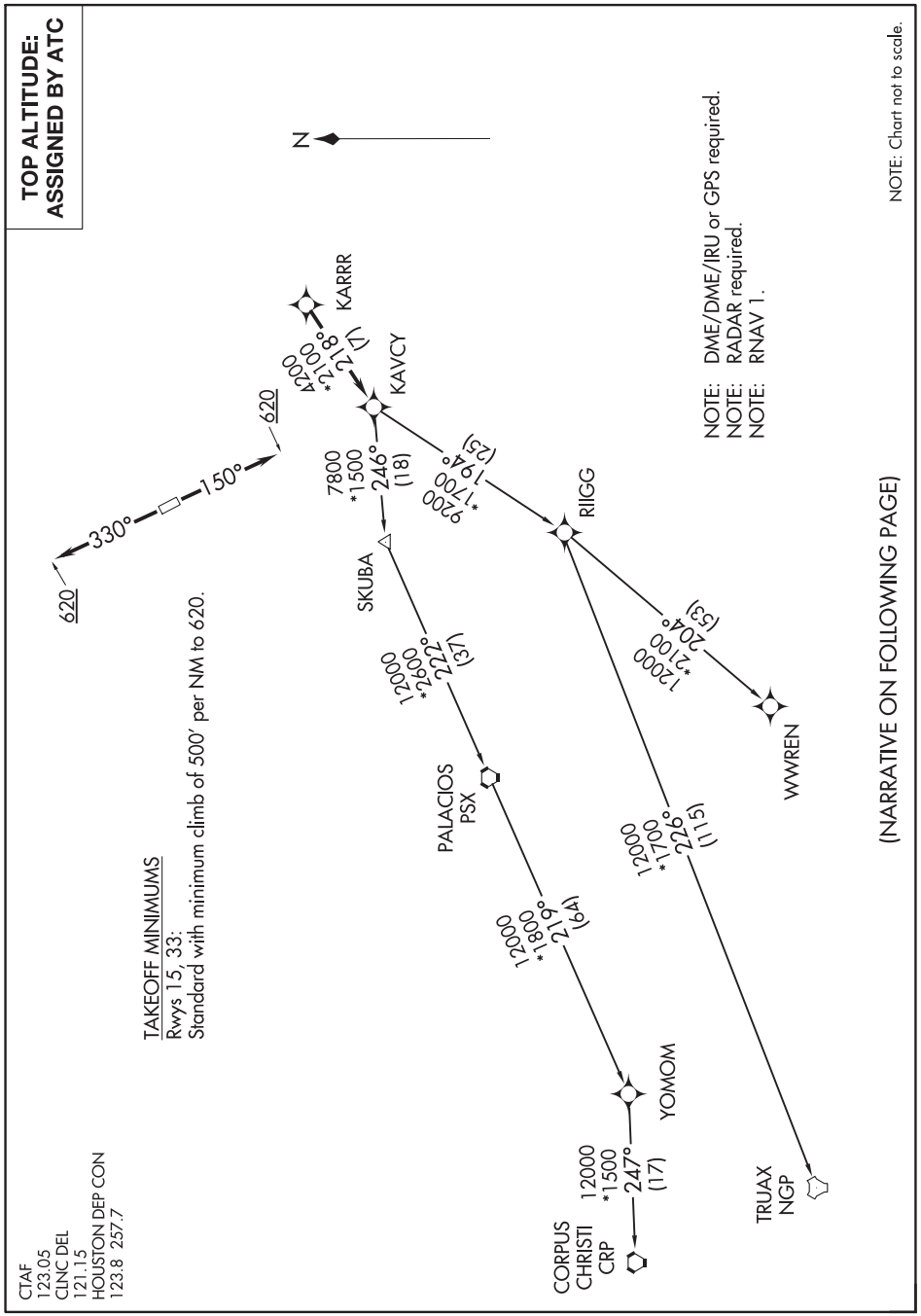
KARRR SIX DEPARTURE (RNAV)



SC-5, 25 FEB 2021 to 22 APR 2021

KARRR SIX DEPARTURE (RNAV)

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 15: Climb on heading 150° to 620, for RADAR vectors to KARRR, thence. . . .
TAKEOFF RWY 33: Climb on heading 330° to 620, for RADAR vectors to KARRR, thence. . . .

. . . .on track 218° to KAVCY, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

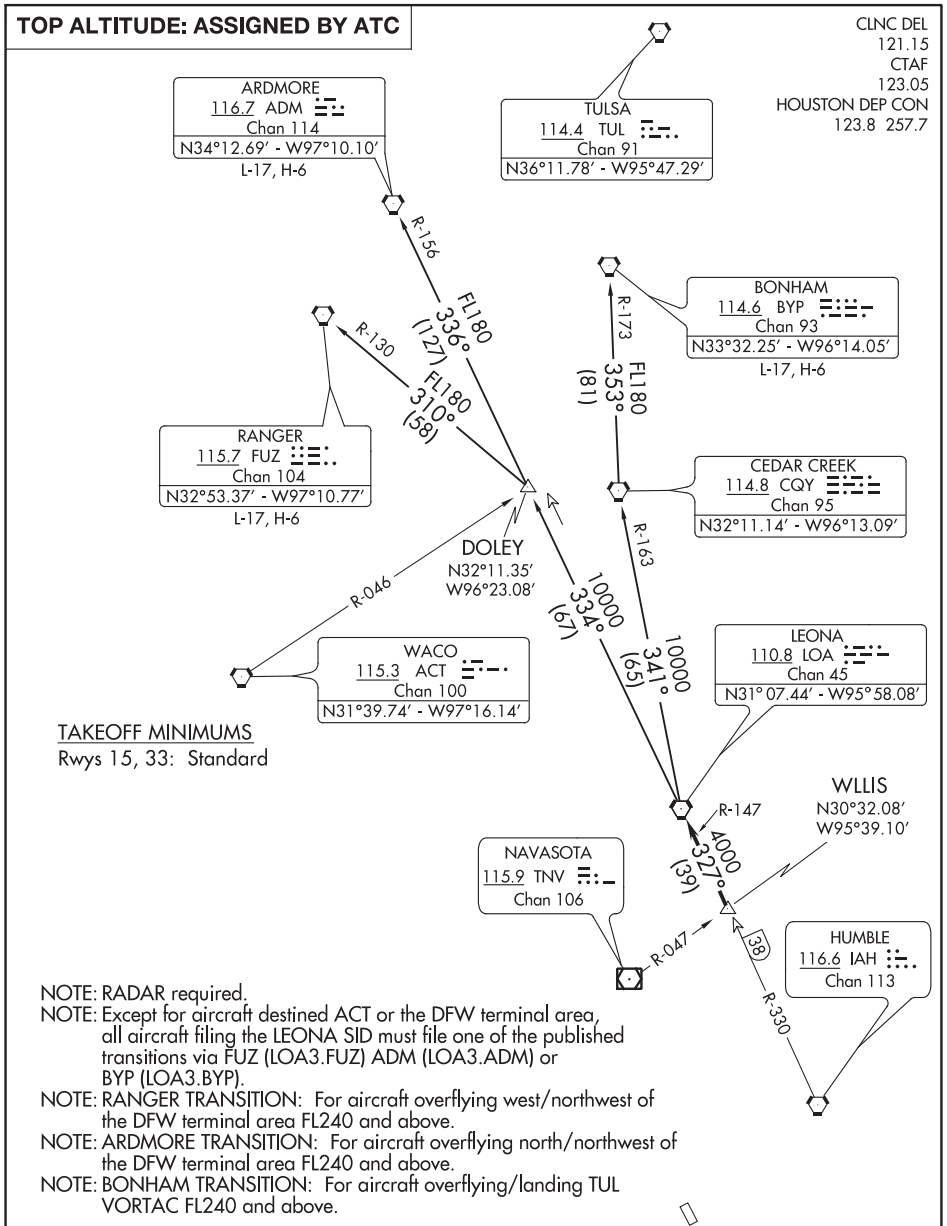
CORPUS CHRISTI TRANSITION (KARRR6.CRP)
PALACIOS TRANSITION (KARRR6.PSX)
TRUAX TRANSITION (KARRR6.NGP)
WWREN TRANSITION (KARRR6.WWREN)
YOMOM TRANSITION (KARRR6.YOMOM)

LEONA THREE DEPARTURE

AL-6079 (FAA)

TOP ALTITUDE: ASSIGNED BY ATC

CLNC DEL
121.15
CTAF
123.05
HOUSTON DEP CON
123.8 257.7



TAKEOFF MINIMUMS
Rwys 15, 33: Standard

NOTE: RADAR required.
NOTE: Except for aircraft destined ACT or the DFW terminal area, all aircraft filing the LEONA SID must file one of the published transitions via FUZ (LOA3.FUZ) ADM (LOA3.ADM) or BYP (LOA3.BYP).
NOTE: RANGER TRANSITION: For aircraft overflying west/northwest of the DFW terminal area FL240 and above.
NOTE: ARDMORE TRANSITION: For aircraft overflying north/northwest of the DFW terminal area FL240 and above.
NOTE: BONHAM TRANSITION: For aircraft overflying/landing TUL VORTAC FL240 and above.

NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

SC-5, 25 FEB 2021 to 22 APR 2021
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DEPARTURE ROUTE DESCRIPTION

TAKEOFF ALL RUNWAYS: When entering controlled airspace, climb on assigned heading for RADAR vectors to WLLIS INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence . . . .

. . . . on LOA R-147 to LOA VORTAC.

ARDMORE TRANSITION (LOA3.ADM): From over LOA VORTAC on LOA R-334 to DOLEY INT, then on ADM R-156 to ADM VORTAC.

BONHAM TRANSITION (LOA3.BYP): From over LOA VORTAC on LOA R-341 and CQY R-163 to CQY VORTAC, then on BYP R-173 to BYP VORTAC.

RANGER TRANSITION (LOA3.FUZ): From over LOA VORTAC on LOA R-334 to DOLEY INT, then on FUZ R-130 to FUZ VORTAC.

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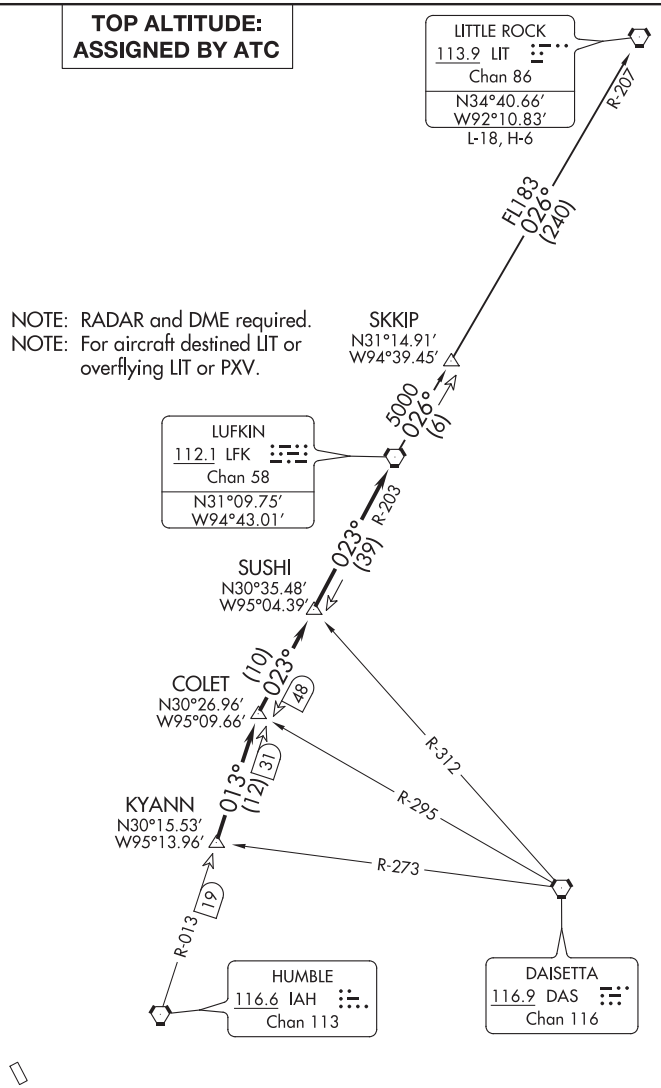
LUFKIN TWO DEPARTURE

CLNC DEL
121.15
CTAF
123.05
HOUSTON DEP CON
123.8 257.7

TOP ALTITUDE: ASSIGNED BY ATC



TAKEOFF MINIMUMS
Rwys 15, 33: Standard.

NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

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DEPARTURE ROUTE DESCRIPTION

When entering controlled airspace, climb on assigned heading for RADAR vectors to KYANN INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .

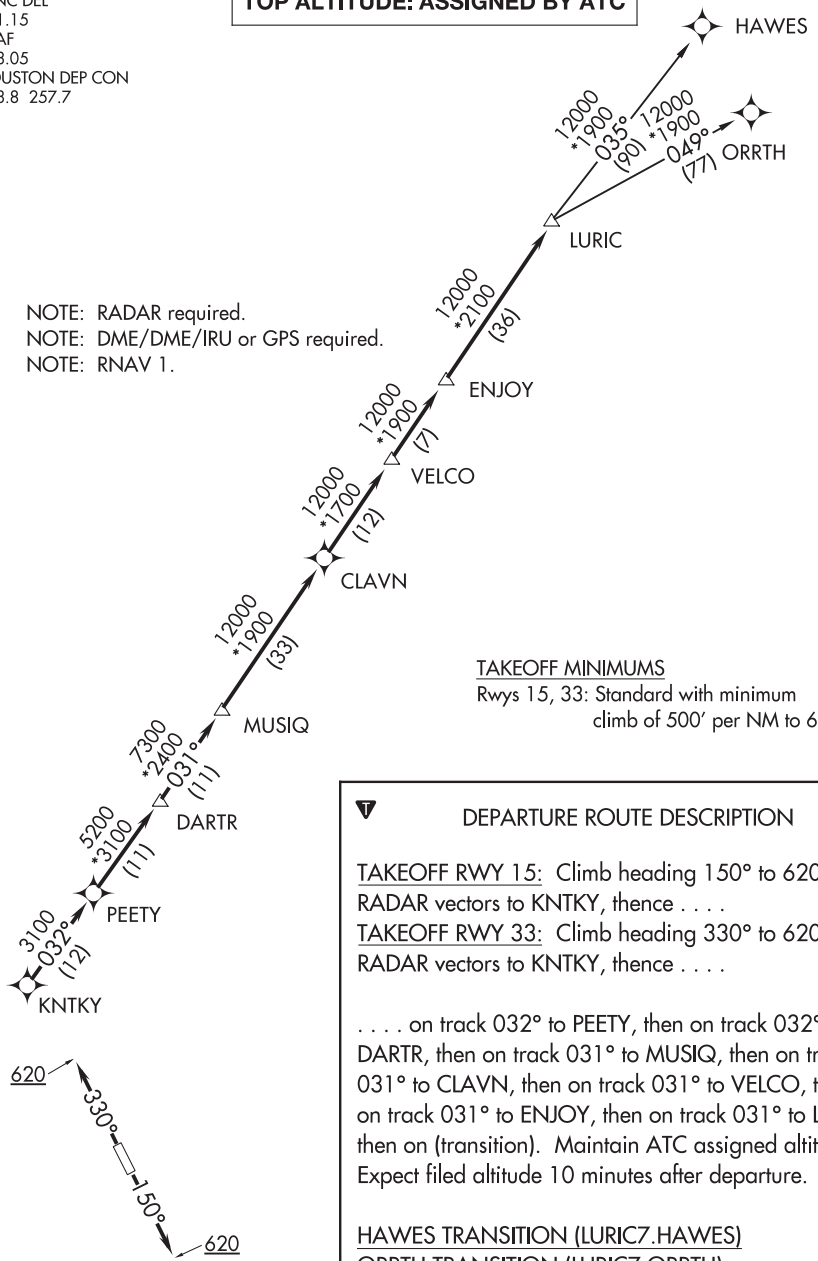
. . . .on IAH R-013 to COLET INT, then right turn on LFK R-203 to LFK VORTAC.

LITTLE ROCK TRANSITION (LFK2.LIT): From over LFK VORTAC on LFK R-026 to SKKIP INT, then on LFK R-026 and LIT R-207 to LIT VORTAC.

LURIC SEVEN DEPARTURE (RNAV)

TOP ALTITUDE: ASSIGNED BY ATC

CLNC DEL
121.15
CTAF
123.05
HOUSTON DEP CON
123.8 257.7



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

TAKEOFF MINIMUMS
Rwys 15, 33: Standard with minimum climb of 500′ per NM to 620.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 15: Climb heading 150° to 620 for RADAR vectors to KNTKY, thence . . . .
TAKEOFF RWY 33: Climb heading 330° to 620 for RADAR vectors to KNTKY, thence . . . .

. . . . on track 032° to PEETY, then on track 032° to DARTR, then on track 031° to MUSIQ, then on track 031° to CLAVN, then on track 031° to VELCO, then on track 031° to ENJOY, then on track 031° to LURIC, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

HAWES TRANSITION (LURIC7.HAWES)
ORRTH TRANSITION (LURIC7.ORRTH)

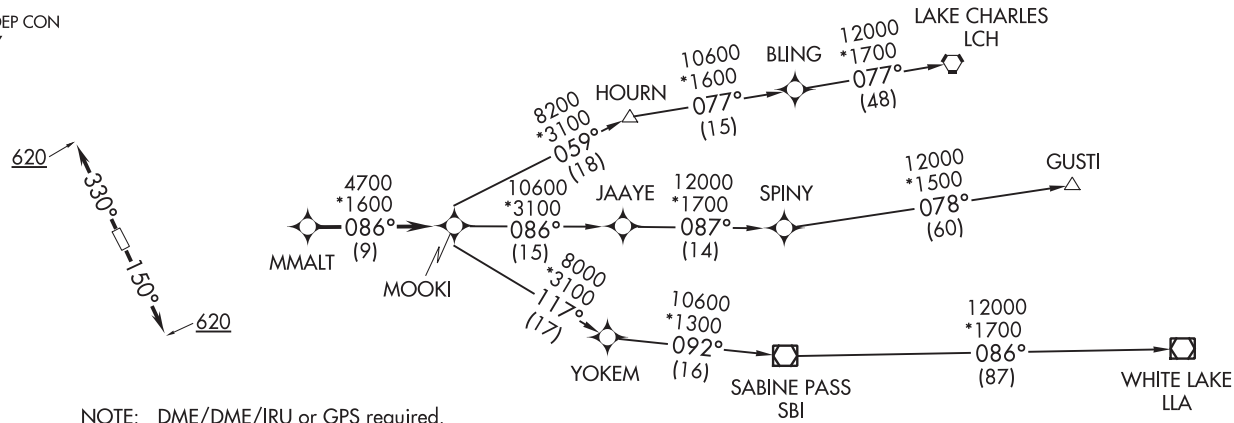
NOTE: Chart not to scale.

MMALT FIVE DEPARTURE (RNAV)

CTAF
123.05
CLNC DEL
121.15
HOUSTON DEP CON
123.8 257.7

TOP ALTITUDE: ASSIGNED BY ATC

TAKEOFF MINIMUMS
Rwy 15, 33: Standard with minimum climb of 500′ per NM to 620.



NOTE: DME/DME/IRU or GPS required.
NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: GUSTI and LCH TRANSITIONS ATC assigned only for aircraft departing AXH, EFD, GLS, HPY, IWS, LBX, LVJ, SGR, TME, T00, T41 and 54T.

NOTE: Chart not to scale.

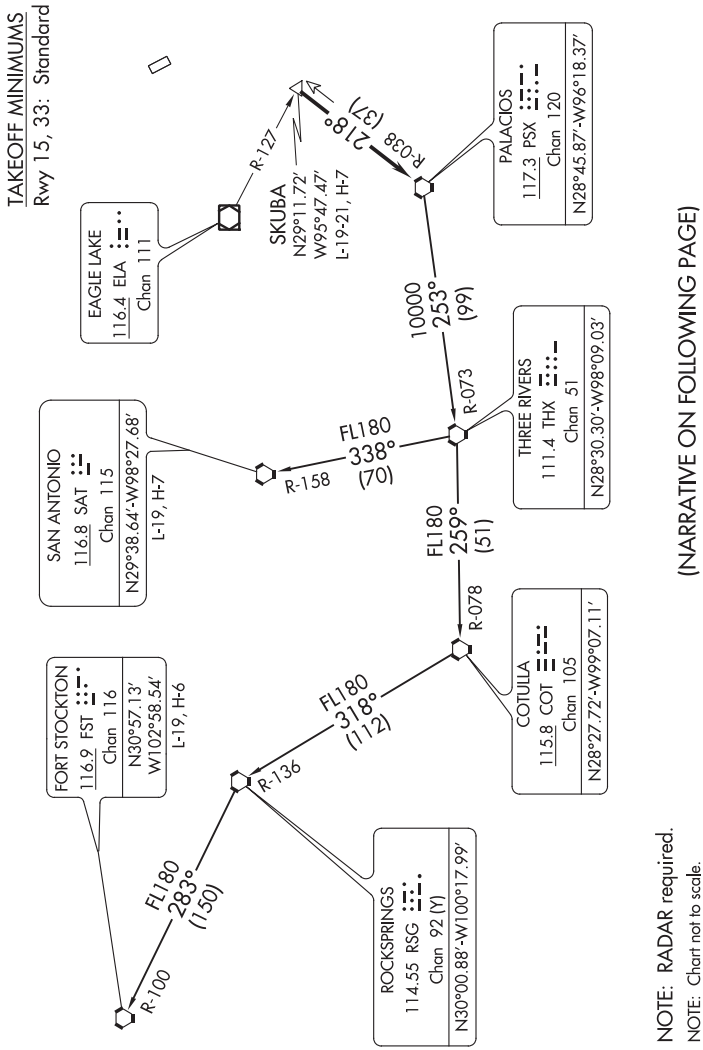
DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 15: Climb on heading 150° to 620 for RADAR vectors to MMALT, thence. . . .
TAKEOFF RWY 33: Climb on heading 330° to 620 for RADAR vectors to MMALT, thence. . . .

. . . .on track 086° to MOOKI, then on (transition). Maintain ATC assigned altitude.
Expect filed altitude 10 minutes after departure.

GUSTI TRANSITION (MMALT5.GUSTI)
LAKE CHARLES TRANSITION (MMALT5.LCH)
WHITE LAKE TRANSITION (MMALT5.LLA)

TOP ALTITUDE: ASSIGNED BY ATC



CLNC DEL
121.15
CTAF
123.05
HOUSTON DEP CON
123.8 257.7

NOTE: RADAR required.
NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

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DEPARTURE ROUTE DESCRIPTION

TAKEOFF ALL RUNWAYS: When entering controlled airspace, climb on assigned heading for RADAR vectors to SKUBA INT. Maintain ATC assigned altitude.
Expect filed altitude 10 minutes after departure, thence. . . .

. . . .on PSX R-038 to PSX VORTAC.

FORT STOCKTON TRANSITION (PSX1.FST): From over PSX VORTAC on PSX R-253 and THX R-073 to THX VORTAC, then on THX R-259 and COT R-078 to COT VORTAC, then on COT R-318 and RSG R-136 to RSG VORTAC, then on RSG R-283 and FST R-100 to FST VORTAC.

SAN ANTONIO TRANSITION (PSX1.SAT): From over PSX VORTAC on PSX R-253 and THX R-073 to THX VORTAC, then on SAT R-158 to SAT VORTAC.

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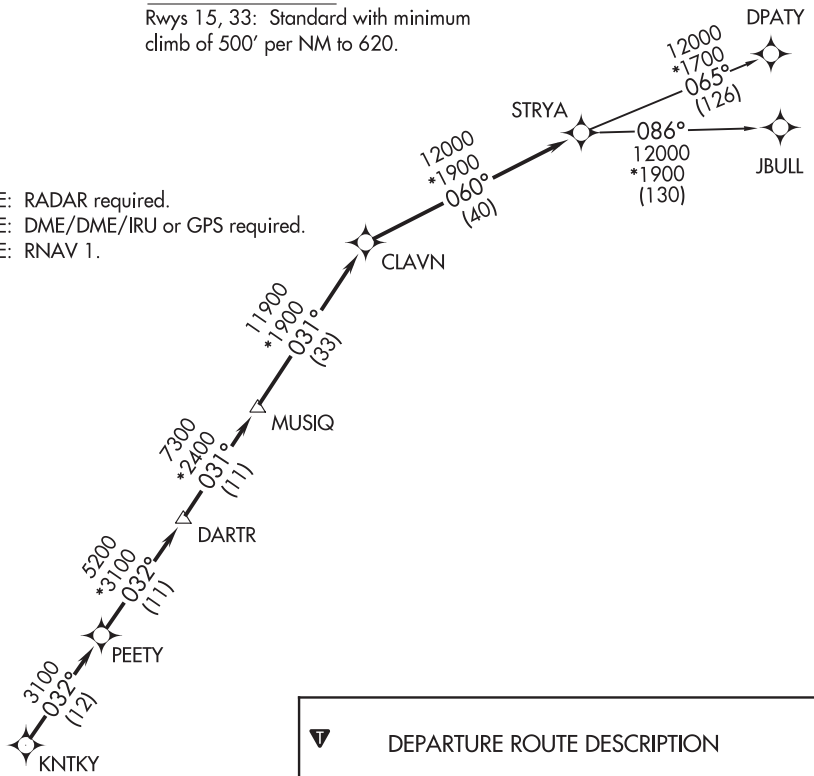
STRYA SEVEN DEPARTURE (RNAV)

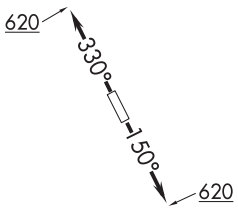
CTAF
123.05
CLNC DEL
121.15
HOUSTON DEP CON
123.8 257.7

TOP ALTITUDE: ASSIGNED BY ATC

TAKEOFF MINIMUMS
Rwys 15, 33: Standard with minimum climb of 500′ per NM to 620.

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





NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 15: Climb heading 150° to 620 for RADAR vectors to KNTKY, thence . . . .
TAKEOFF RWY 33: Climb heading 330° to 620 for RADAR vectors to KNTKY, thence . . . .

. . . . on track 032° to PEETY, then on track 032° to DARTR, then on track 031° to MUSIQ, then on track 031° to CLAVN, then on track 060° to STRYA, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

DPATY TRANSITION (STRYA7.DPATY)
JBULL TRANSITION (STRYA7.JBULL)

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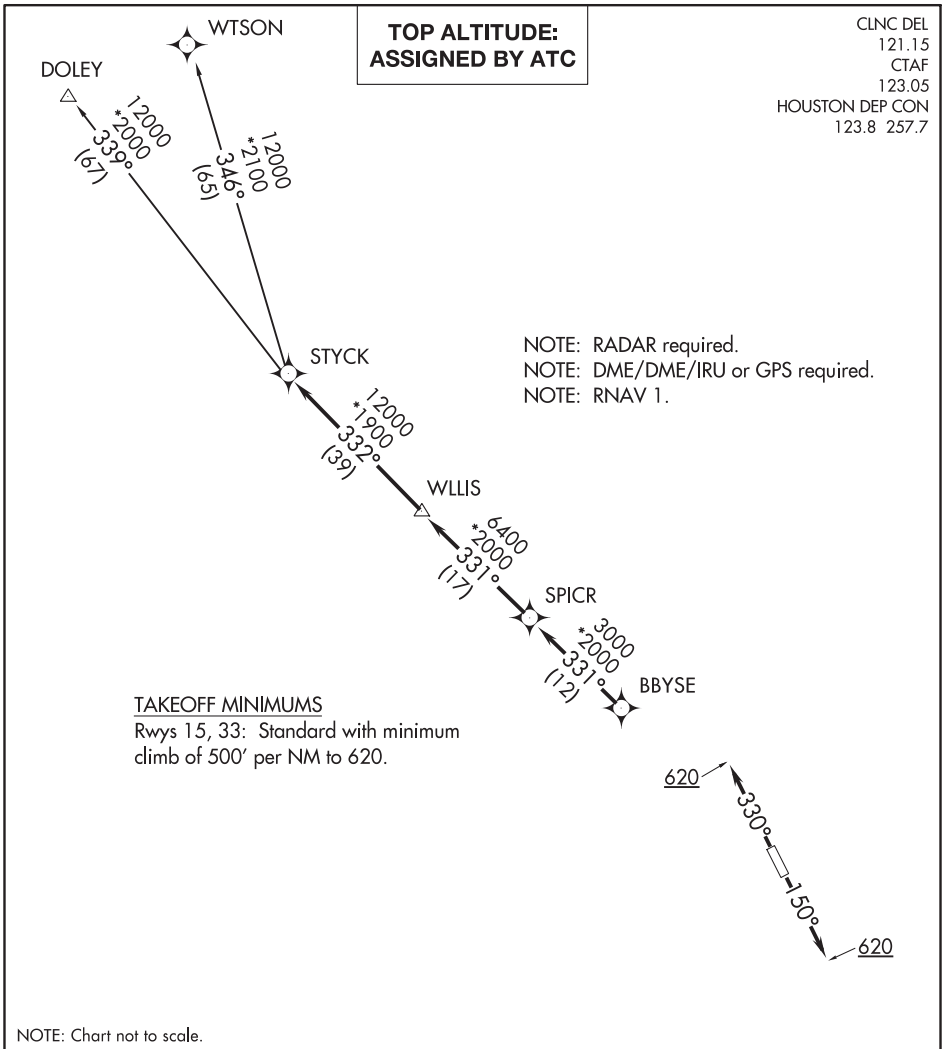
(STYCK7.STYCK) 19115 AL-6079 (FAA)

STYCK SEVEN DEPARTURE (RNAV)

WEST HOUSTON (IWS)
HOUSTON, TEXAS



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 15: Climb heading 150° to 620 for RADAR vectors to BBYSE, thence. . . .
TAKEOFF RWY 33: Climb heading 330° to 620 for RADAR vectors to BBYSE, thence. . . .

. . . .on track 331° to SPICR, then on track 331° to WLLIS, then on track 332° to STYCK, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

DOLEY TRANSITION (STYCK7.DOLEY)
WTSON TRANSITION (STYCK7.WTSON)

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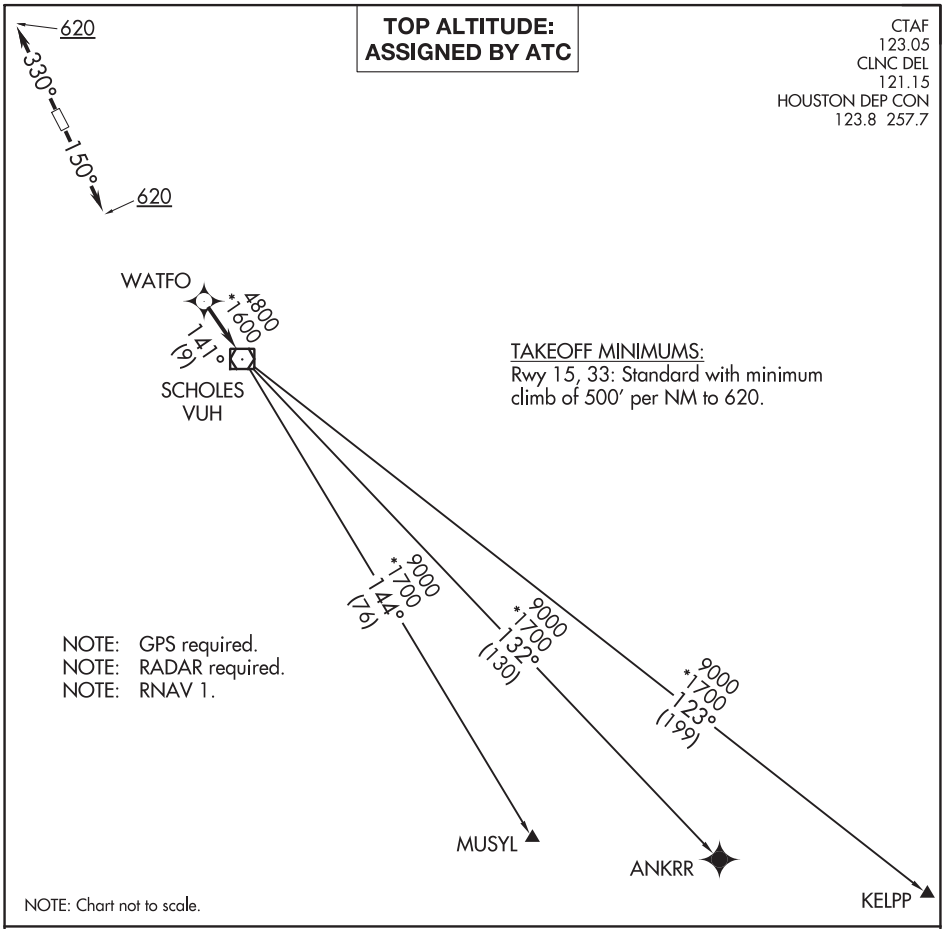
WATFO FIVE DEPARTURE (RNAV)



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 15: Climb on heading 150° to 620, for RADAR vectors to WATFO, thence. . . .
TAKEOFF RWY 33: Climb on heading 330° to 620, for RADAR vectors to WATFO, thence. . . .

. . . .on track 141° to VUH VOR/DME, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

ANKRR TRANSITION (WATFO5.ANKRR)
KELPP TRANSITION (WATFO5.KELPP)
MUSYL TRANSITION (WATFO5.MUSYL)

SC-5, 25 FEB 2021 to 22 APR 2021

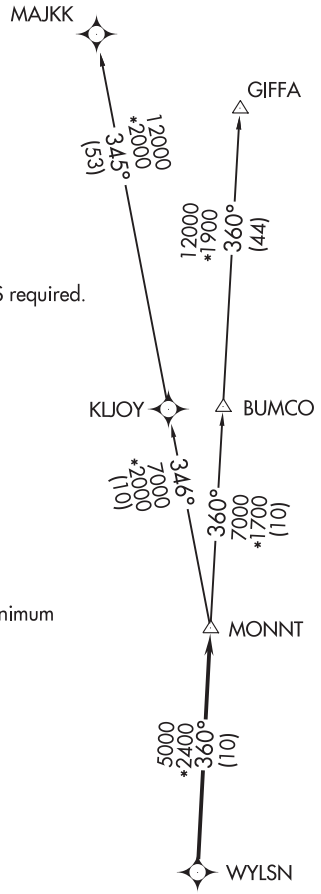
(WYLSN7.WYLSN) 19115 AL-6079 (FAA) WEST HOUSTON (IWS)

WYLSN SEVEN DEPARTURE (RNAV)

HOUSTON, TEXAS

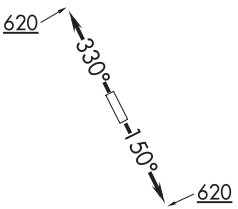
CLNC DEL
121.15
CTAF
123.05
HOUSTON DEP CON
123.8 257.7

TOP ALTITUDE: ASSIGNED BY ATC



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

TAKEOFF MINIMUMS
Rwys 15, 33: Standard with minimum climb of 500′ per NM to 620.



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 15: Climb on heading 150° to 620 for RADAR vectors to WYLSN, thence. . . .
TAKEOFF RWY 33: Climb on heading 330° to 620 for RADAR vectors to WYLSN, thence. . . .

. . . .on track 360° to MONNT, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

GIFFA TRANSITION (WYLSN7.GIFFA)
MAJKK TRANSITION (WYLSN7.MAJKK)

SC-5, 25 FEB 2021 to 22 APR 2021

ILS or LOC RWY 4
WILLIAM P HOBBY (HOU)

LOC/DME I-HUB	APP CRS	Rwy ldg	7602
109.9	041°	TDZE	44
Chan 36		Apt Elev	46

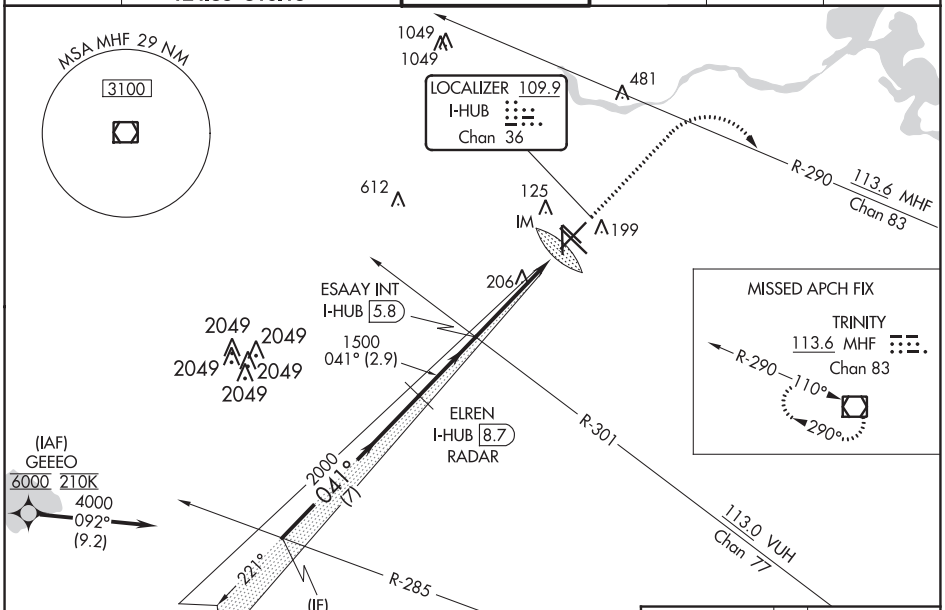
Aircraft not GPS equipped - RADAR required for procedure entry.
From GEEEO: RNAV 1- GPS required.

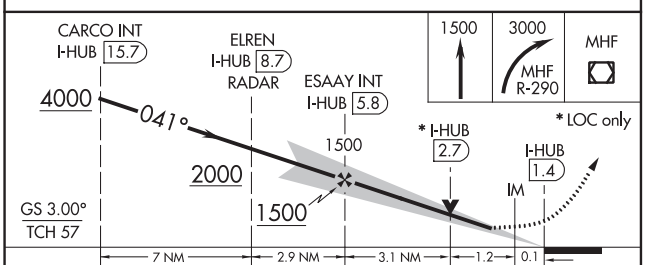
For inop ALSF-2, increase S-ILS 4 Cat E visibility to RVR 4000;
S-LOC 4 Cat C/D/E visibility to 1⅜.

ALSF-2

MISSED APPROACH: Climb to 1500 then climbing right turn to 3000 on MHF VOR/DME R-290 to MHF VOR/DME and hold.

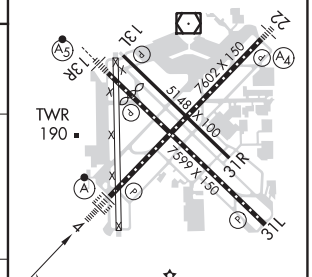
D-ATIS	HOUSTON APP CON	HOBBY TOWER	GND CON	CLNC DEL	CPDLC
124.6	120.05 379.1 EAST 124.35 316.15 WEST	118.7 256.9	121.9	125.45	





CATEGORY	A	B	C	D	E
S-ILS 4	244/18 200 (200-½)				
S-LOC 4	520/24 476 (500-½)		520/50 476 (500-1)		
C CIRCLING	520-1 474 (500-1)		740-2¼ 694 (700-2¼)	860-3 814 (900-3)	

ELEV 46 D TDZE 44



041°
4.4 NM
from FAF

REIL Rwys 31L and 35
MIRL Rwys 13L-31R and 17-35
HIRL Rwys 4-22 and 13R-31L
TDZ/CL Rwys 4, 13R and 31L

FAF to MAP 4.4 NM

Knots	60	90	120	150	180
Min:Sec	4:24	2:56	2:12	1:46	1:28

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SC-5, 25 FEB 2021 to 22 APR 2021

HOUSTON, TEXAS | AL-198 (FAA) | 20142

ILS or LOC RWY 13R
WILLIAM P HOBBY (HOU)

LOC/DME I-PRQ	APP CRS	Rwy ldg	6565
111.3	131°	TDZE	46
Chan 50		Apt Elev	46

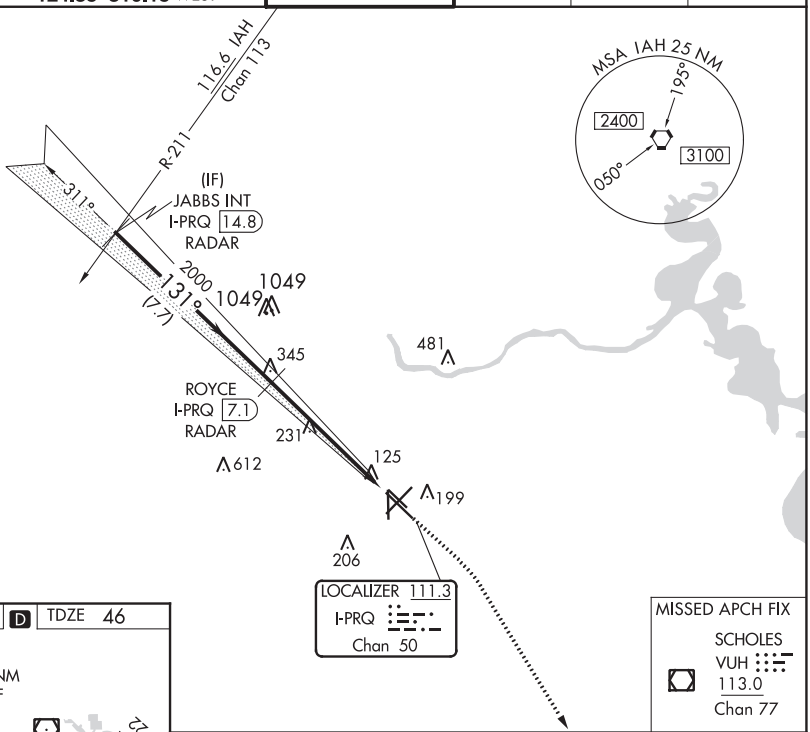
RADAR or DME required for LOC only.
RADAR required for procedure entry.

Inop table does not apply to S-ILS Rwy 13R. Rwy 13R helicopter visibility reduction below ¾ SM NA. For inop ALS, increase S-LOC 13R Cats A/B visibility to RVR 5500, Cats C/D/E to 1⅜ SM.

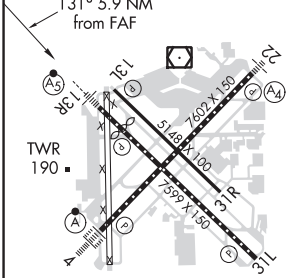
MALSR

MISSED APPROACH: Climb to 800 then climbing right turn to 2200 direct VUH VOR/DME.

D-ATIS	HOUSTON APP CON	HOBBY TOWER	GND CON	CLNC DEL	CPDLC
124.6	120.05 379.1 EAST 124.35 316.15 WEST	118.7 256.9	121.9	125.45	

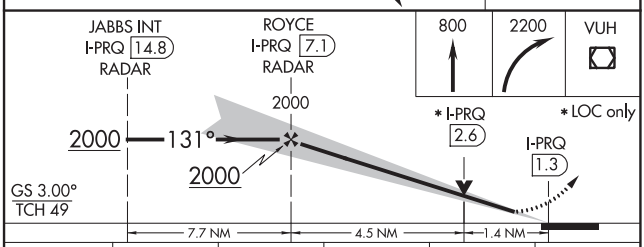


ELEV 46 | D | TDZE 46



TDZ/CL Rwys 4, 13R and 31L
REIL Rwys 31L and 35
HIRL Rwys 4-22 and 13R-31L
MIRL Rwys 13L-31R and 17-35

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	E
S-ILS 13R	296/40 250 (300-¾)				
S-LOC 13R	540/40 494 (500-¾)		540/50 494 (500-1)		540/60 494 (500-1¼)
C CIRCLING	540-1 494 (500-1)		740-2¼ 694 (700-2¼)		860-3 814 (900-3)

HOUSTON, TEXAS
Amdt 12D 25APR19

29°39′N-95°17′W

WILLIAM P HOBBY (HOU)
ILS or LOC RWY 13R

SC-5, 25 FEB 2021 to 22 APR 2021

SC-5, 25 FEB 2021 to 22 APR 2021

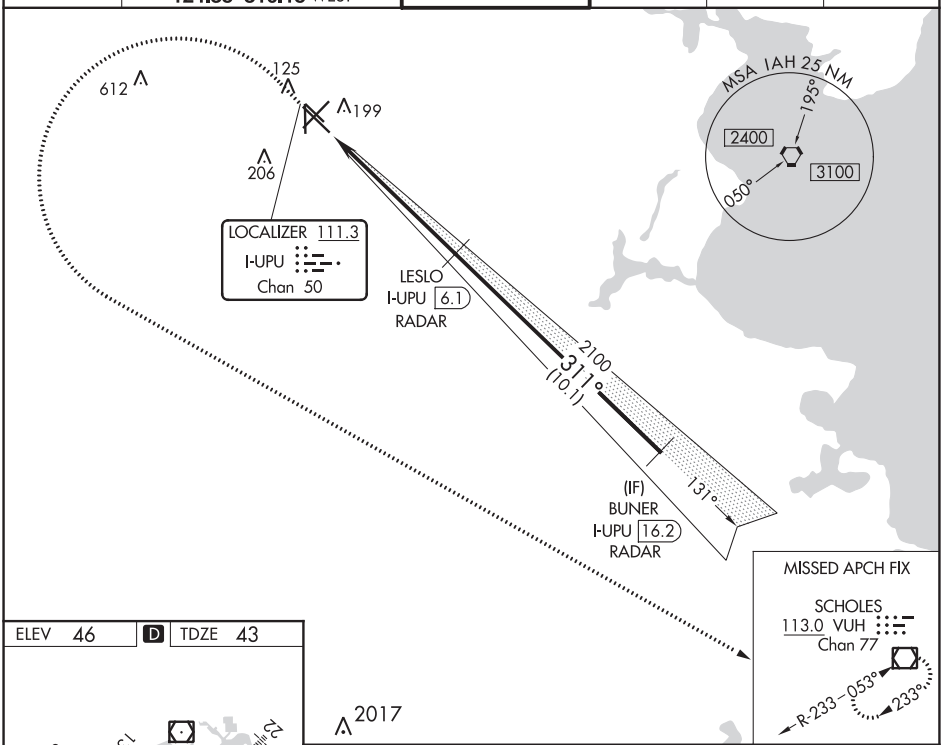
ILS or LOC RWY 31L
WILLIAM P HOBBY (HOU)

LOC/DME I-UPU	APP CRS	Rwy ldg	7599
111.3	311°	TDZE	43
Chan 50		Apt Elev	46

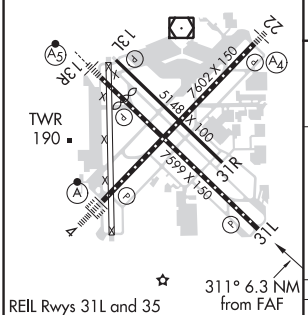
RADAR or DME required for LOC only.
RADAR required for procedure entry.

MISSED APPROACH: Climb to 1000 then climbing left turn to 3000 direct VUH VOR/DME and hold.

D-ATIS	HOUSTON APP CON	HOBBY TOWER	GND CON	CLNC DEL	CPDLC
124.6	120.05 379.1 EAST 124.35 316.15 WEST	118.7 256.9	121.9	125.45	

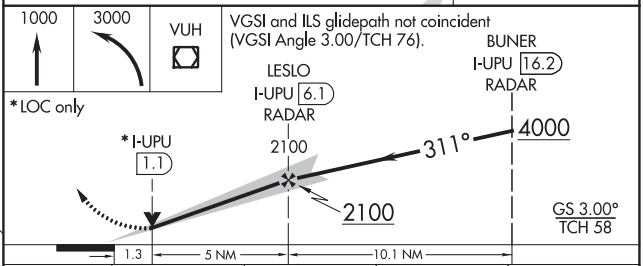


ELEV 46 | D | TDZE 43



REIL Rwys 31L and 35
HIRL Rwys 4-22 and 13R-31L
MIRL Rwys 13L-31R and 17-35
TDZ/CL Rwys 4, 13R and 31L

FAF to MAP 6.3 NM					
Knots	60	90	120	150	180
Min:Sec	6:18	4:12	3:09	2:31	2:06



CATEGORY	A	B	C	D
S-ILS 31L	243/40		200 (200-¾)	
S-LOC 31L	520/55	477 (500-1)	520-1⅜	477 (500-1⅜)
C CIRCLING	520-1	474 (500-1)	740-2¼	694 (700-2¼)

HOUSTON, TEXAS

AL-198 (FAA)

20142

ILS RWY 4 (SA CAT I)

WILLIAM P HOBBY (HOU)

LOC/DME I-HUB	APP CRS	Rwy ldg	7602
109.9	041°	TDZE	44
Chan 36		Apt Elev	46

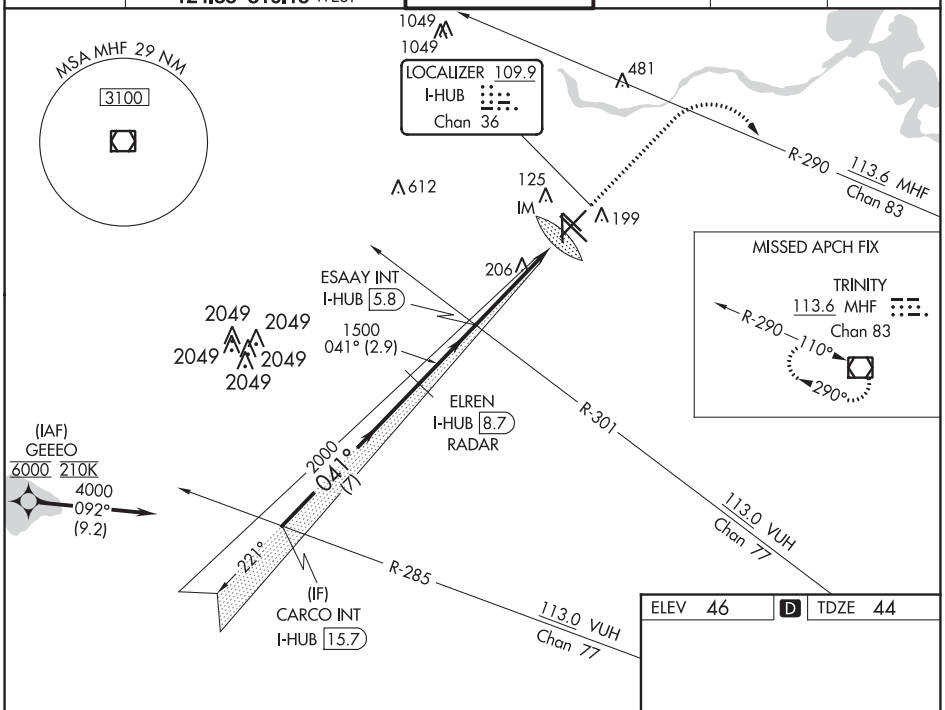
Aircraft not GPS equipped - RADAR required for procedure entry.
From GEEEO: RNAV 1- GPS required.

Requires specific OPSPEC, MSPEC, or LOA approval and use of HUD to DH.

ALSF-2

MISSED APPROACH: Climb to 1500 then climbing right turn to 3000 on MHF VOR/DME R-290 to MHF VOR/DME and hold.

D-ATIS	HOUSTON APP CON	HOBBY TOWER	GND CON	CLNC DEL	CPDLC
124.6	120.05 379.1 EAST 124.35 316.15 WEST	118.7 256.9	121.9	125.45	



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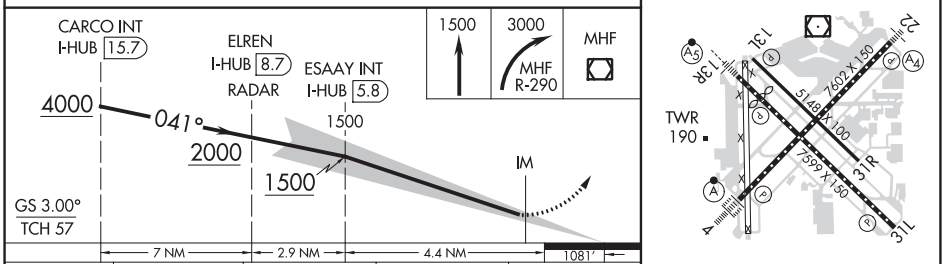
SC-5, 25 FEB 2021 to 22 APR 2021



ELEV 46	D	TDZE 44

REIL Rwys 31L and 35
MIRL Rwys 13L-31R and 17-35
HIRL Rwys 4-22 and 13R-31L
TDZ/CL Rwys 4, 13R and 31L

CATEGORY	A	B	C	D
S-ILS 4	RA 146/14 150 DA 194			

SA CATEGORY I ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

ILS RWY 4 (CAT II & III)
WILLIAM P HOBBY (HOU)

LOC/DME I-HUB	APP CRS	Rwy ldg	7602
109.9	041°	TDZE	44
Chan 36		Apt Elev	46

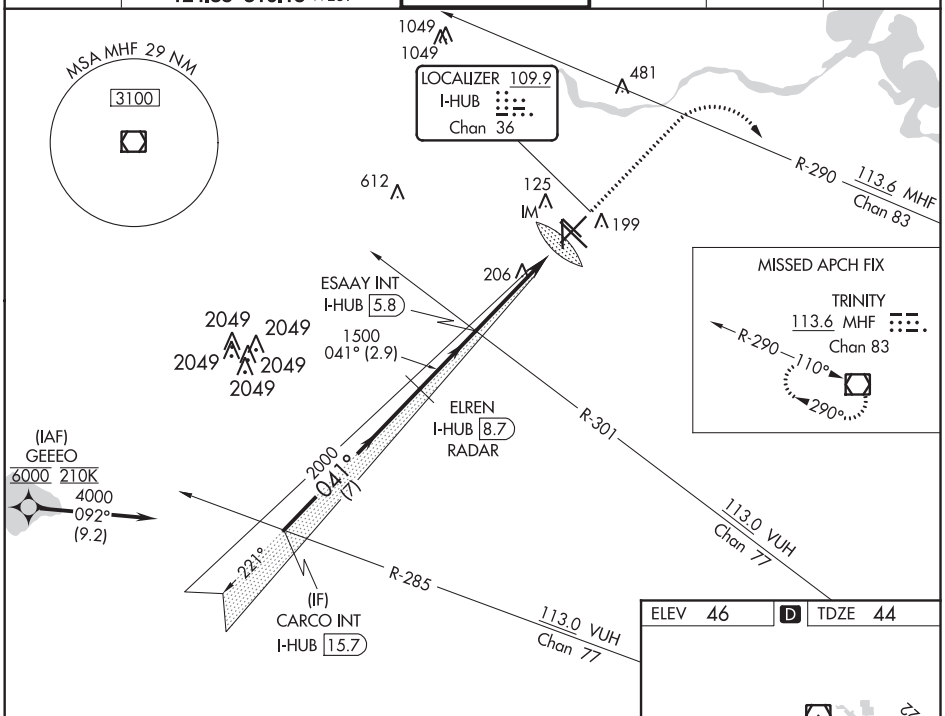
Aircraft not GPS equipped - RADAR required for procedure entry.
From GEEEO: RNAV 1- GPS required.

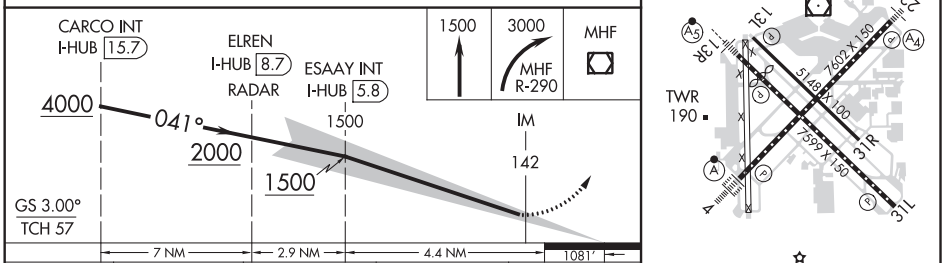
CAT II: RVR 1000 authorized with specific OPSPEC, MSPEC, or LOA approval and use of autoland or HUD to touchdown.

ALSF-2

MISSED APPROACH: Climb to 1500 then climbing right turn to 3000 on MHF VOR/DME R-290 to MHF VOR/DME and hold.

D-ATIS	HOUSTON APP CON	HOBBY TOWER	GND CON	CLNC DEL	CPDLC
124.6	120.05 379.1 EAST 124.35 316.15 WEST	118.7 256.9	121.9	125.45	





CATEGORY	A	B	C	D
S-ILS 4	CAT II RA 100/12 100 DA 144			
S-ILS 4	CAT III RVR 06			

ELEV 46 D TDZE 44

REIL Rwys 31L and 35
MIRL Rwys 13L-31R and 17-35
HIRL Rwys 4-22 and 13R-31L
TDZ/CL Rwys 4, 13R and 31L

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

SC-5, 25 FEB 2021 to 22 APR 2021

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HOUSTON, TEXAS | AL-198 (FAA) | 20142

RNAV (GPS) RWY 4
WILLIAM P HOBBY (HOU)

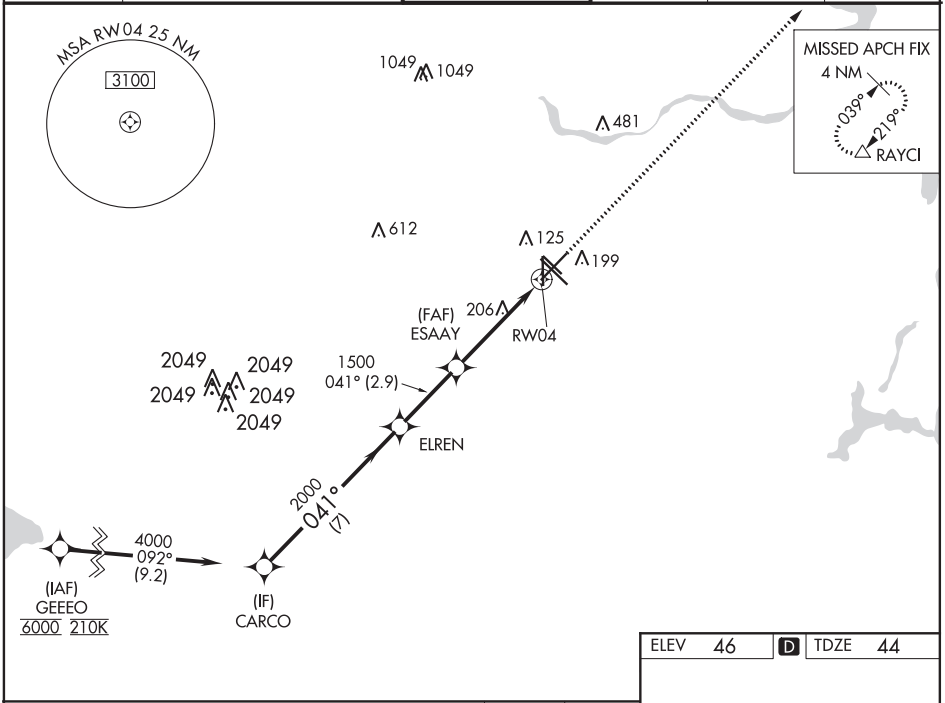
WAAS CH 86209 W04A	APP CRS 041°	Rwy ldg 7602 TDZE 44 Apt Elev 46

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -2°C (29°F) or above 54°C (130°F). For inop ALSF-2, increase LPV Cat E visibility to RVR 4000, LNAV/VNAV all Cats visibility to 1¼ miles and LNAV Cat C/D/E visibility to 1⅜ mile. DME/DME RNP-0.3 NA.

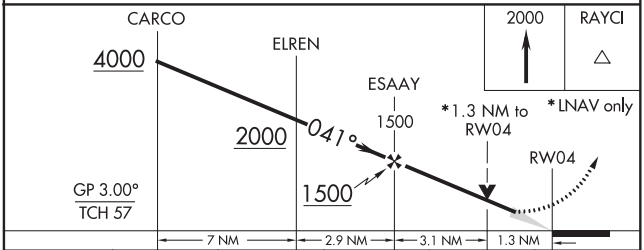
ALSF-2

MISSED APPROACH: Climb to 2000 direct RAYCI and hold.

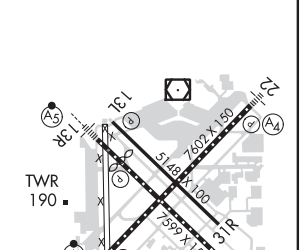
D-ATIS	HOUSTON APP CON	HOBBY TOWER	GND CON	CLNC DEL	CPDLC
124.6	120.05 379.1 EAST 124.35 316.15 WEST	118.7 256.9	121.9	125.45	



ELEV 46 | D | TDZE 44



CATEGORY	A	B	C	D	E
LPV DA	244/18 200 (200-½)				
LNAV/VNAV DA	440/45 396 (400-⅞)				
LNAV MDA	520/24 476 (500-½)		520/50 476 (500- 1)		
C CIRCLING	520-1 474 (500-1)		740-2¼ 694 (500-2¼)	860-3 814 (900-3)	



REIL Rwys 31L and 35
HIRL Rwys 4-22 and 13R-31L
MIRL Rwys 13L-31R and 17-35
TDZ/CL Rwys 4, 13R and 31L

HOUSTON, TEXAS
Amdt 3A 17AUG17

29°39'N-95°17'W

WILLIAM P HOBBY (HOU)
RNAV (GPS) RWY 4

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SC-5, 25 FEB 2021 to 22 APR 2021

RNAV (GPS) RWY 13R
WILLIAM P HOBBY (HOU)

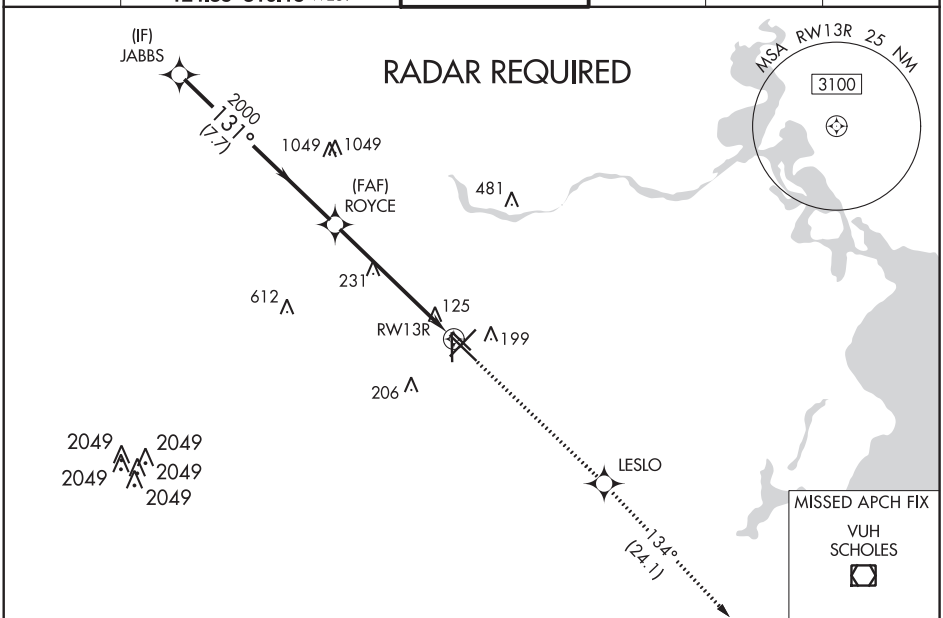
WAAS CH 70310 W13A	APP CRS 131°	Rwy ldg 6565 TDZE 46 Apt Elev 46

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below 15°C (5°F) or above 49°C (120°F). DME/DME RNP-0.3 NA. For inop ALS, increase LPV all Cats visibility to RVR 5000; increase LNAV/VNAV Cats A/B/C/D visibility to 1⅜ SM, Cat E to 1½ SM; and increase LNAV Cats A/B visibility to RVR 5500, Cats C/D to 1⅜ SM, Cat E to 1¾ SM. Rwy 13R helicopter visibility reduction below ¾ SM NA.

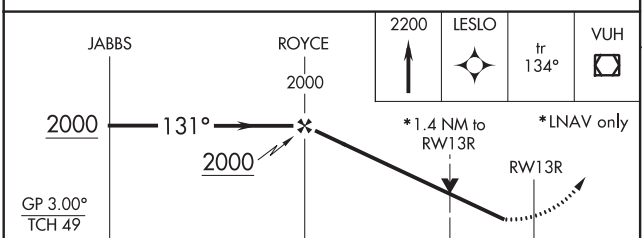
MALSR

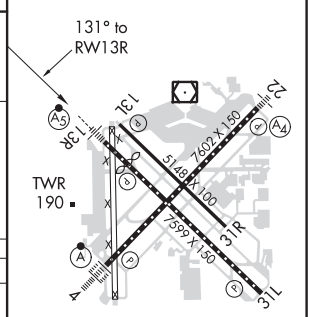
MISSED APPROACH: Climb to 2200 direct LESLO and on track 134° to VUH VOR/DME.

D-ATIS	HOUSTON APP CON	HOBBY TOWER	GND CON	CLNC DEL	CPDLC
124.6	120.05 379.1 EAST 124.35 316.15 WEST	118.7 256.9	121.9	125.45	



ELEV 46 | D | TDZE 46





CATEGORY	A	B	C	D	E
LPV DA	330/40 284 (300-¾)				
LNAV/VNAV DA	475/50 429 (500-1)				
LNAV MDA	540/40 494 (500-¾)		540/50 494 (500-1)		540/60 494 (500-1¼)
C CIRCLING	540-1 494 (500-1)		740-2¼ 694 (700-2¼)		860-3 814 (900-3)

REIL Rwys 31L and 35
HIRL Rwys 4-22 and 13R-31L
MIRL Rwys 13L-31R and 17-35
TDZ/CL Rwys 4, 13R and 31L

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HOUSTON, TEXAS

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RNAV (GPS) RWY 17

WILLIAM P HOBBY (HOU)

APP CRS	Rwy ldg	6000
176°	TDZE	46
	Apt Elev	46

RNP APCH.

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 43°C (109°F). Helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 3000 direct RIGTY and on track 234° to ACOLA and hold.

D-ATIS	HOUSTON APP CON	HOBBY TOWER	GND CON	CLNC DEL	CPDLC
124.6	120.05 379.1 EAST 124.35 316.15 WEST	118.7 256.9	121.9	125.45	

RADAR REQUIRED

(IF) LABVY

176° (5) 2000

1049 1049

401

(FAF) IFORU

481

612

125

RW17

199

206

RIGTY

234° (13.8)

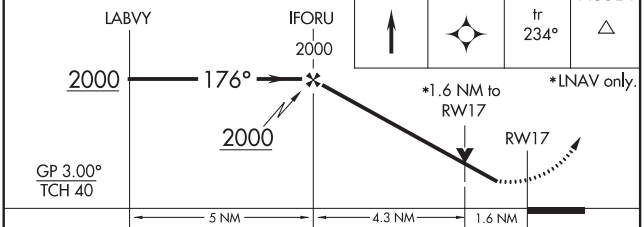
2049 2049 2049 2049 2049

MSA RW17 25 NM

3100

4 NM 221° 041° ACOLA

3000	RIGTY	tr 234°	ACOLA

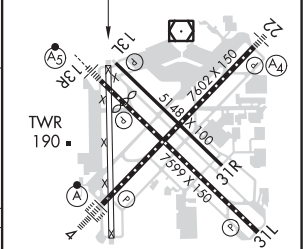


*LNAV only.

CATEGORY	A	B	C	D
LNAV/VNAV DA	480-1½ 434 (500-1½)			
LNAV MDA	580-1 534 (600-1)		580-1½ 534 (600-1½)	580-1¾ 534 (600-1¾)
C CIRCLING	580-1 534 (600-1)		580-1½ 534 (600-1½)	740-2¼ 694 (700-2¼)

ELEV 46 D TDZE 46

176° to RW17



REIL Rwys 31L and 35R
HIRL Rwys 4-22 and 13R-31L
MIRL Rwys 13L-31R and 17-35
TDZ/CL Rwys 4, 13R and 31L

HOUSTON, TEXAS
Amdt 1B 23APR20

29°39′N-95°17′W

WILLIAM P HOBBY (HOU)
RNAV (GPS) RWY 17

SC-5, 25 FEB 2021 to 22 APR 2021

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RNAV (GPS) RWY 22
WILLIAM P HOBBY (HOU)

WAAS CH 65610 W22A	APP CRS 221°	Rwy ldg 7602 TDZE 41 Apt Elev 46

RNP APCH.

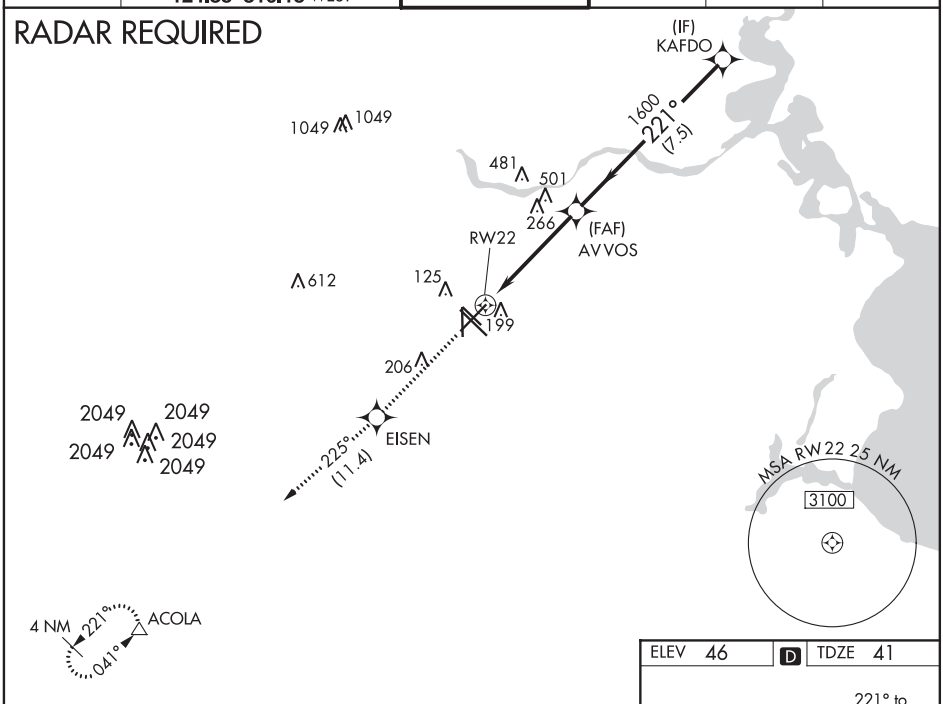
Inop table does not apply to LPV, LNAV/VNAV all Cats, and LNAV Cat C. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F).

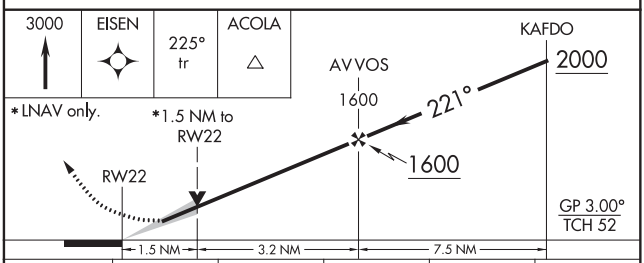
MALS

MISSED APPROACH: Climb to 3000 direct EISEN and on track 225° to ACOLA and hold.

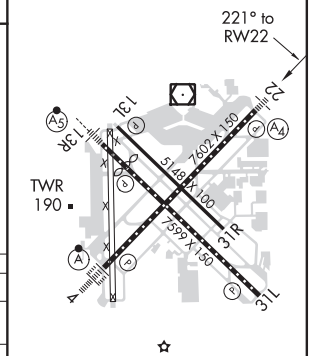
D-ATIS	HOUSTON APP CON	HOBBY TOWER	GND CON	CLNC DEL	CPDLC
124.6	120.05 379.1 EAST 124.35 316.15 WEST	118.7 256.9	121.9	125.45	

RADAR REQUIRED





ELEV 46 | D | TDZE 41



CATEGORY	A	B	C	D	E
LPV DA	360-1 319 (400-1)				
LNAV/VNAV DA	480-1½ 439 (500-1½)				
LNAV MDA	580-¾ 539 (600-¾)		580-1½ 539 (600-1½)	580-1¾ 539 (600-1¾)	580-2 539 (600-2)
C CIRCLING	580-1 534 (600-1)		580-1½ 534 (600-1½)	740-2¼ 694 (700-2¼)	820-2¾ 774 (800-2¾)

REIL Rwys 31L and 35
HIRL Rwys 4-22 and 13R-31L
MIRL Rwys 13L-31R and 17-35
TDZ/CL Rwys 4, 13R and 31L

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HOUSTON, TEXAS

AL-198 (FAA)

20142

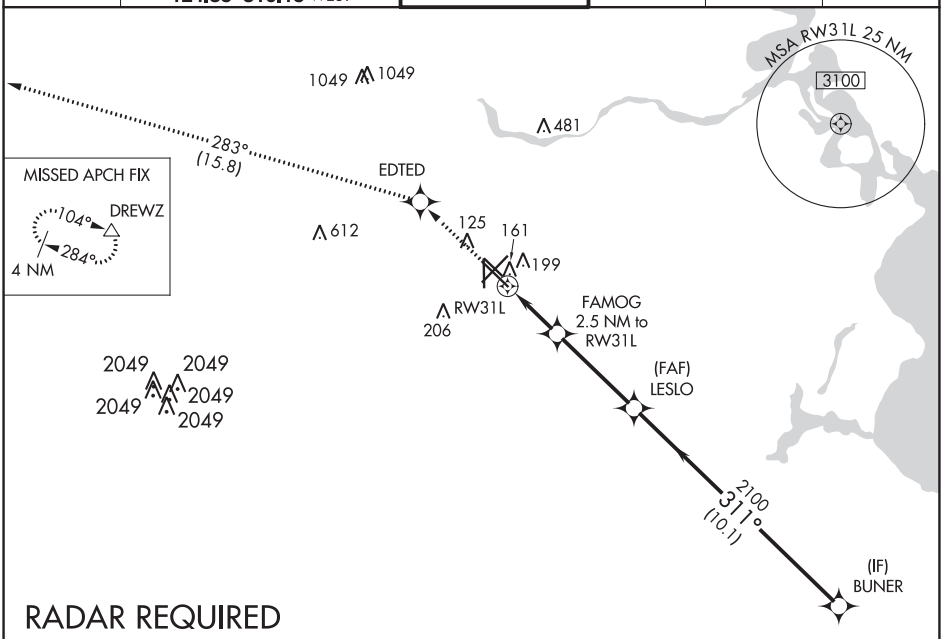
RNAV (GPS) RWY 31L
WILLIAM P HOBBY (HOU)

WAAS CH 77510 W31A	APP CRS 311°	Rwy ldg 7599 TDZE 43 Apt Elev 46

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 43°C (109°F). DME/DME RNP-0.3 NA.

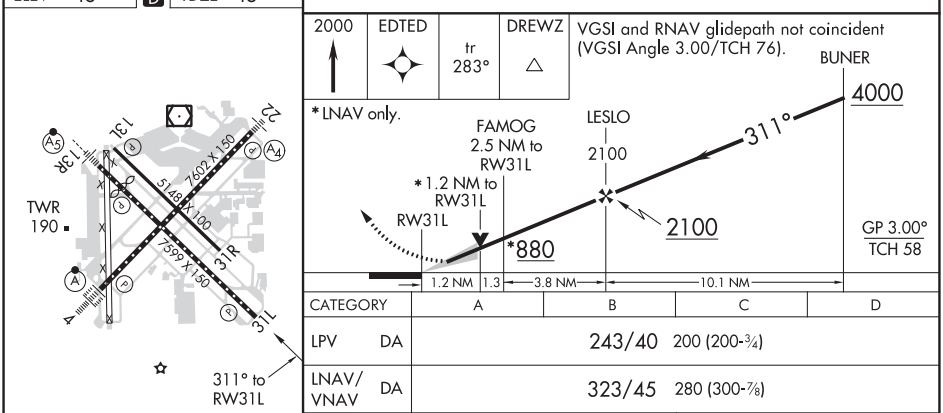
MISSED APPROACH: Climb to 2000 direct EDTED and on track 283° to DREWZ and hold.

D-ATIS	HOUSTON APP CON	HOBBY TOWER	GND CON	CLNC DEL	CPDLC
124.6	120.05 379.1 EAST 124.35 316.15 WEST	118.7 256.9	121.9	125.45	



RADAR REQUIRED

ELEV 46 | D | TDZE 43



CATEGORY	A	B	C	D
LPV DA	243/40 200 (200-¾)			
LNAV/VNAV DA	323/45 280 (300-⅞)			
LNAV MDA	500/55 457 (500-1)		500-1⅜ 457 (500-1⅜)	
C CIRCLING	500-1 454 (500-1)	520-1 474 (500-1)	740-2¼ 694 (700-2¼)	

REIL Rwys 31L and 35
HIRL Rwys 4-22 and 13R-31L
MIRL Rwys 13L-31R and 17-35
TDZ/CL Rwys 4, 13R and 31L

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APP CRS	Rwy ldg	6000
356°	TDZE	46
	Apt Elev	46

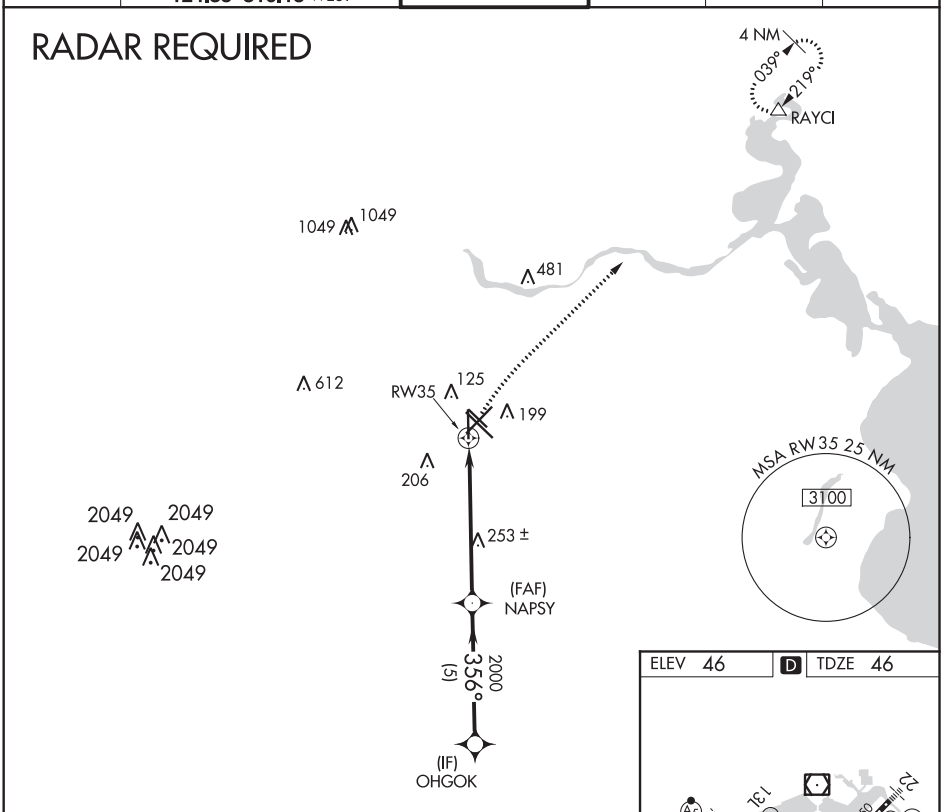
RNAV (GPS) RWY 35
WILLIAM P HOBBY (HOU)

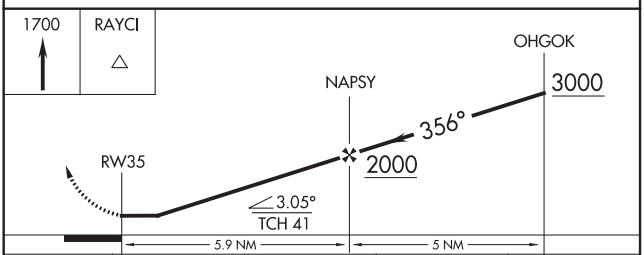
RNP APCH.

Rwy 35 helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 1700 direct RAYCI and hold.

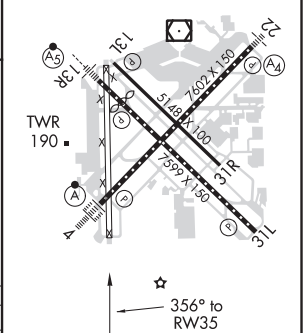
D-ATIS	HOUSTON APP CON	HOBBY TOWER	GND CON	CLNC DEL	CPDLC
124.6	120.05 379.1 EAST 124.35 316.15 WEST	118.7 256.9	121.9	125.45	





CATEGORY	A	B	C	D
LNAV MDA	560-1 514 (600-1)		560-1½ 514 (600-1½)	560-1¾ 514 (600-1¾)
C CIRCLING	560-1 514 (600-1)		560-1½ 514 (600-1½)	740-2¼ 694 (700-2¼)

ELEV 46 D TDZE 46



REIL Rwys 31L and 35
HIRL Rwys 4-22 and 13R-31L
MIRL Rwys 13L-31R and 17-35
TDZ/CL Rwys 4, 13R and 31L

SC-5, 25 FEB 2021 to 22 APR 2021

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HOUSTON, TEXAS

AL-198 (FAA)

20142

LOC RWY 22

WILLIAM P HOBBY (HOU)

LOC/DME I-OIB	APP CRS	Rwy ldg	7602
109.9	221°	TDZE	41
Chan 36		Apt Elev	46

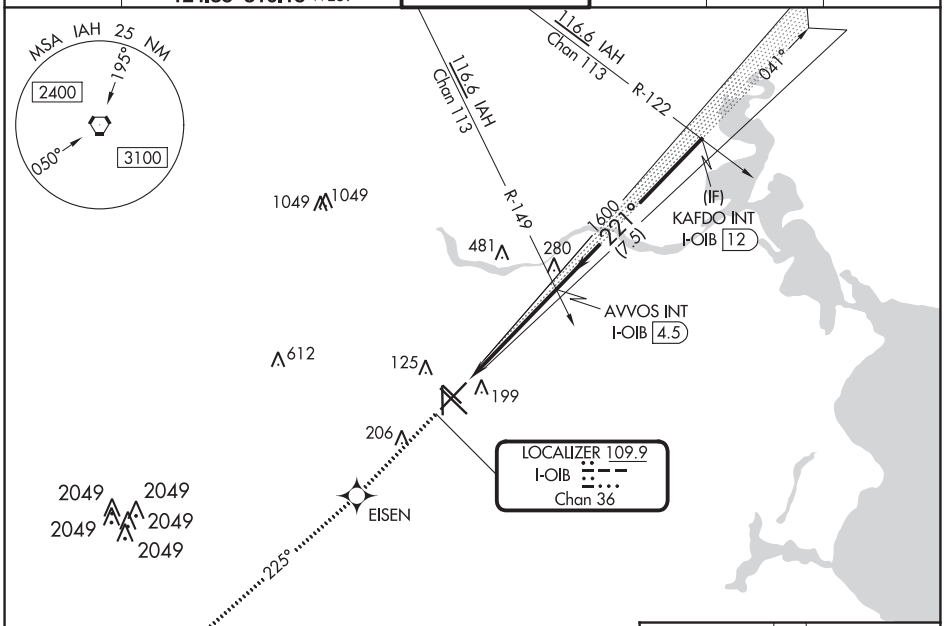
RNAV 1-GPS required. RADAR required for procedure entry.

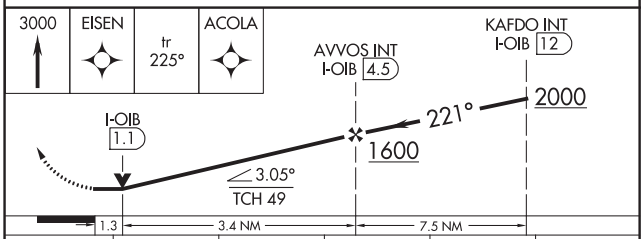
For inop ALS, increase S-LOC 22 Cat C/D/E visibility to 1⅜ SM.

MALS

MISSED APPROACH: Climb to 3000 direct EISEN and on track 225° to ACOLA and hold.

D-ATIS	HOUSTON APP CON	HOBBY TOWER	GND CON	CLNC DEL	CPDLC
124.6	120.05 379.1 EAST 124.35 316.15 WEST	118.7 256.9	121.9	125.45	

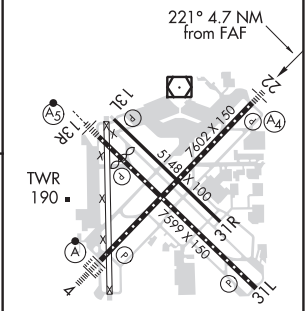




CATEGORY	A	B	C	D	E
S-LOC 22	500-¾ 459 (500-¾)		500-1 459 (500-1)		
C CIRCLING	500-1 454 (500-1)	520-1 474 (500-1)	540-1½ 494 (500-1½)	740-2¼ 694 (700-2¼)	820-2¾ 774 (800-2¾)

ELEV 46 | D | TDZE 41

221° 4.7 NM from FAF



TDZ/CL Rwys 4, 13R, and 31L
REIL Rwys 31L and 35
HIRL Rwys 4-22 and 13R-31L
MIRL Rwys 13L-31R and 17-35

FAF to MAP 4.7 NM

Knots	60	90	120	150	180
Min:Sec	4:42	3:08	2:21	1:53	1:34

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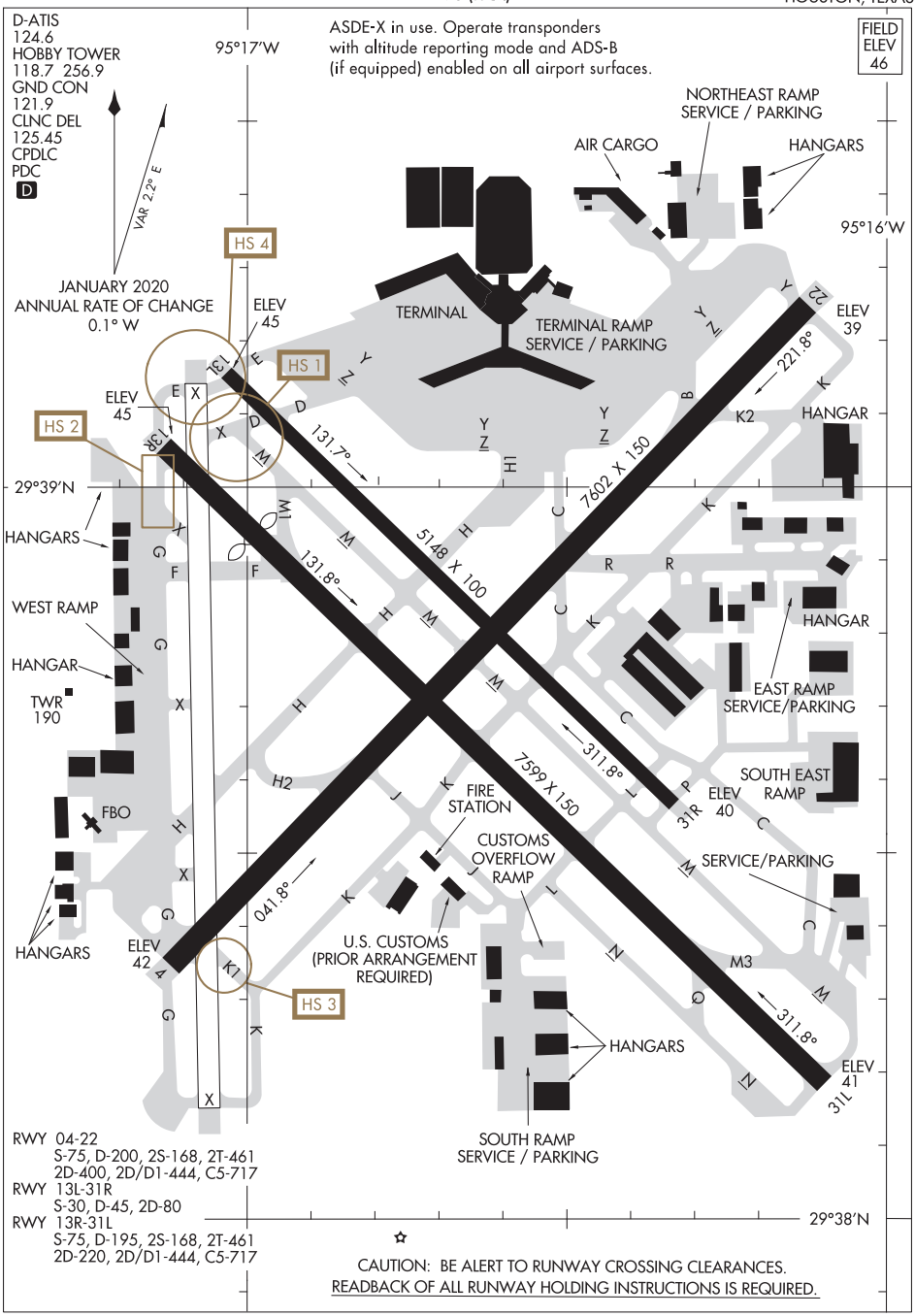
AIRPORT DIAGRAM

AL-198 (FAA)

WILLIAM P HOBBY (HOU)
HOUSTON, TEXAS



RWY 04-22
S-75, D-200, 2S-168, 2T-461
2D-400, 2D/D1-444, C5-717
RWY 13L-31R
S-30, D-45, 2D-80
RWY 13R-31L
S-75, D-195, 2S-168, 2T-461
2D-220, 2D/D1-444, C5-717

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

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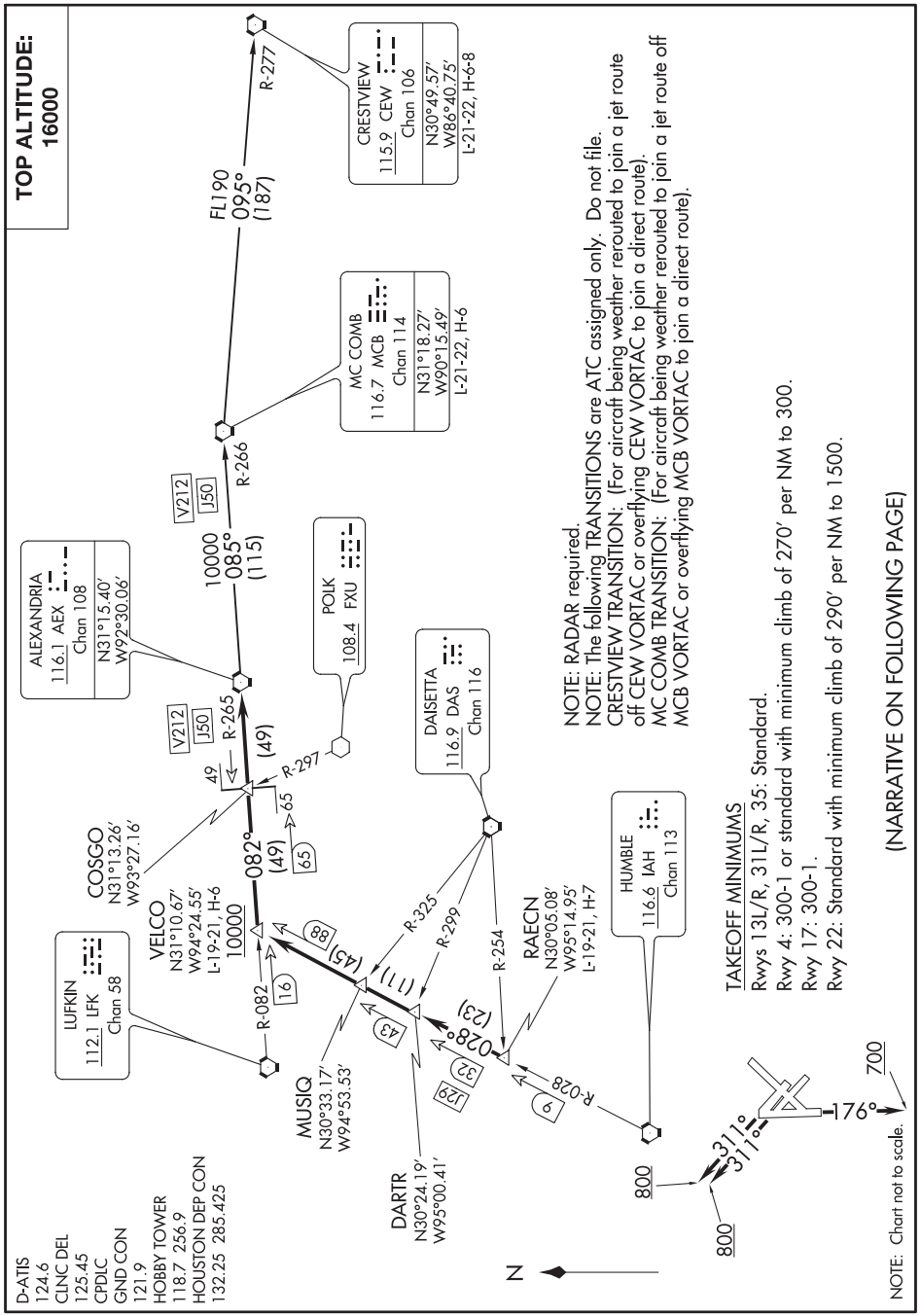
AIRPORT DIAGRAM
20366
HOUSTON, TEXAS
WILLIAM P HOBBY (HOU)

(AEX2.AEX) 19339 AL-198 (FAA)

ALEXANDRIA TWO DEPARTURE

WILLIAM P HOBBY (HOU)
HOUSTON, TEXAS



SC-5, 25 FEB 2021 to 22 APR 2021

ALEXANDRIA TWO DEPARTURE

(AEX2.AEX) 05DEC19

HOUSTON, TEXAS
WILLIAM P HOBBY (HOU)

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWYS 4, 13L/R, 22, 35: Climb on assigned heading for RADAR vectors to RAECN INT, maintain 16000. Expect filed altitude 10 minutes after departure, thence. . . .
TAKEOFF RWY 17: Climb heading 176° to 700 before turning, then climb on assigned heading for RADAR vectors to RAECN INT, maintain 16000. Expect filed altitude 10 minutes after departure, thence. . . .
TAKEOFF RWYS 31L/R: Climb heading 311° to 800 before turning, then climb on assigned heading for RADAR vectors to RAECN INT, maintain 16000. Expect filed altitude 10 minutes after departure, thence. . . .

. . . .on IAH R-028 to VELCO INT, cross VELCO INT at or above 10000, then right turn on LFK R-082 and AEX R-265 to AEX VORTAC.

CRESTVIEW TRANSITION (AEX2.CEW): From over AEX VORTAC on AEX R-085 and MCB R-266 to MCB VORTAC, then on MCB R-095 and CEW R-277 to CEW VORTAC.

MC COMB TRANSITION (AEX2.MCB): From over AEX VORTAC on AEX R-085 and MCB R-266 to MCB VORTAC.

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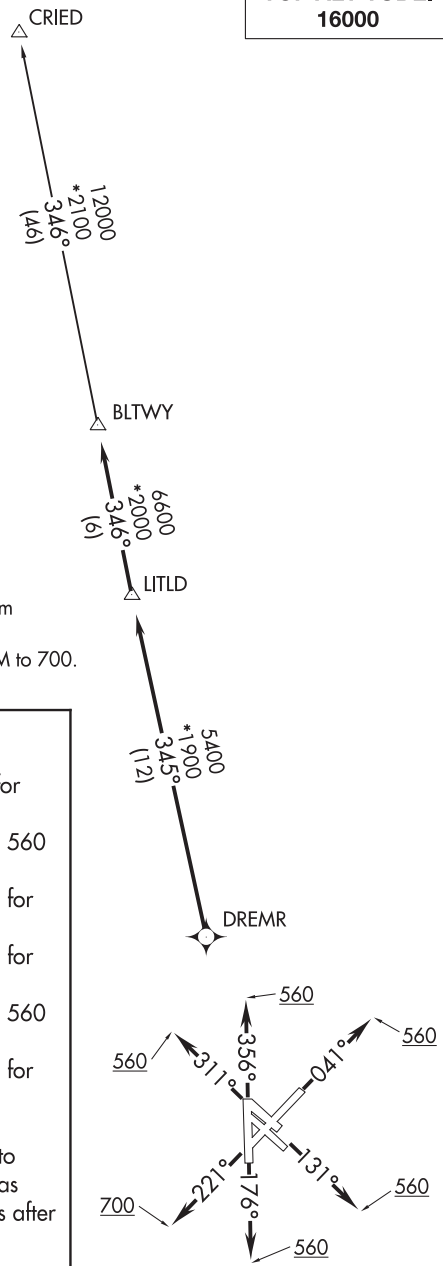
(BLTWY6.BLTWY) 19115 AL-198 (FAA)

BLTWY SIX DEPARTURE (RNAV)

WILLIAM P HOBBY (HOU)
HOUSTON, TEXAS

TOP ALTITUDE: 16000

D-ATIS 124.6
CLNC DEL
125.45
CPDLC
GND CON
121.9
HOBBY TOWER
118.7 256.9
HOUSTON DEP CON
132.25 285.425



NOTE: RADAR required.

NOTE: DME/DME/IRU or GPS required.

NOTE: RNAV 1.

TAKEOFF MINIMUMS
Rwys 4, 13L/R, 17, 31L/R, 35: Standard with minimum climb of 500′ per NM to 560.
Rwy 22: Standard with minimum climb of 500′ per NM to 700.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 4: Climb heading 041° to 560 for RADAR vectors to DREMR, thence . . . .
TAKEOFF RWYS 13L/R: Climb heading 131° to 560 for RADAR vectors to DREMR, thence . . . .
TAKEOFF RWY 17: Climb heading 176° to 560 for RADAR vectors to DREMR, thence . . . .
TAKEOFF RWY 22: Climb heading 221° to 700 for RADAR vectors to DREMR, thence . . . .
TAKEOFF RWYS 31L/R: Climb heading 311° to 560 for RADAR vectors to DREMR, thence . . . .
TAKEOFF RWY 35: Climb heading 356° to 560 for RADAR vectors to DREMR, thence . . . .

. . . . on track 345° to LITLD, then on track 346° to BLTWY, then on (transition). Maintain 16000 or as assigned by ATC. Expect filed altitude 10 minutes after departure.

CRIED TRANSITION (BLTWY6.CRIED)

NOTE: Chart not to scale.

SC-5, 25 FEB 2021 to 22 APR 2021

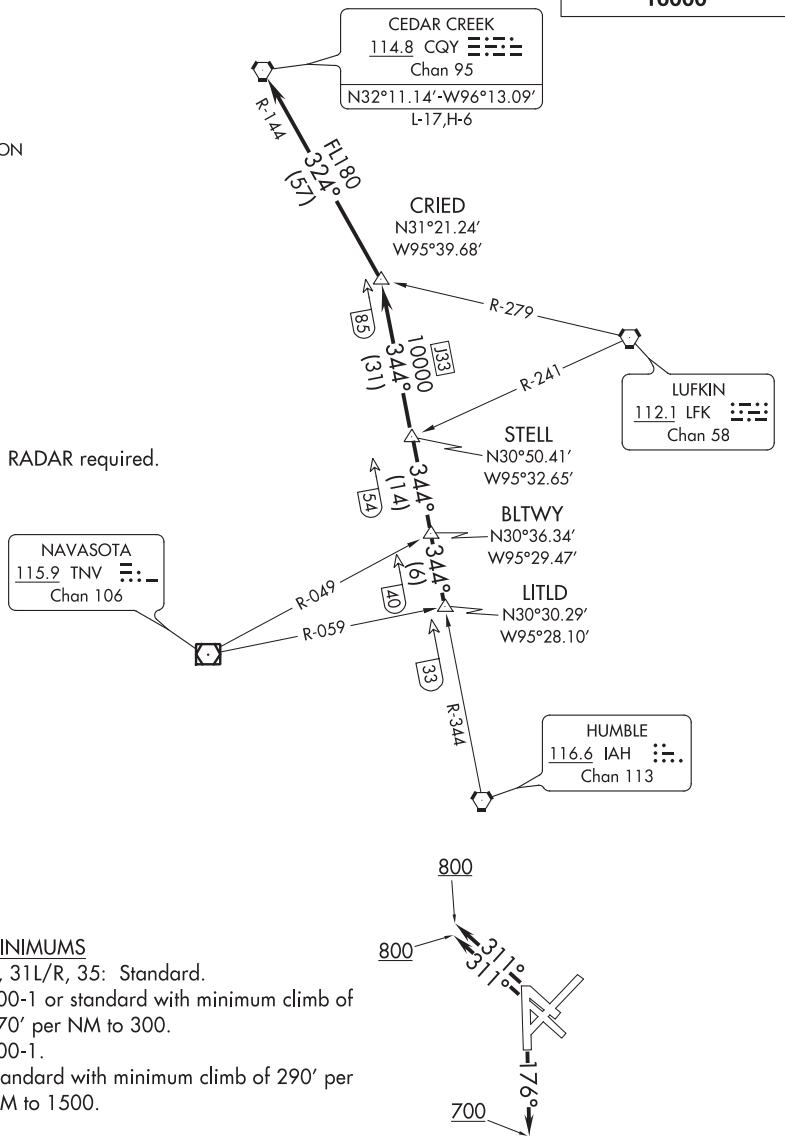
BLTWY SIX DEPARTURE (RNAV)
HOUSTON, TEXAS
WILLIAM P HOBBY (HOU)
(BLTWY6.BLTWY) 25APR19

CRIED NINE DEPARTURE

AL-198 (FAA)

D-ATIS
124.6
CLNC DEL
125.45
CPDLC
GND CON
121.9
HOBBY TOWER
118.7 256.9
HOUSTON DEP CON
132.25 285.425

TOP ALTITUDE: 16000



NOTE: RADAR required.

TAKEOFF MINIMUMS

Rwys 13L/R, 31L/R, 35: Standard.

Rwy 4: 300-1 or standard with minimum climb of 270′ per NM to 300.

Rwy 17: 300-1.

Rwy 22: Standard with minimum climb of 290′ per NM to 1500.

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.

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(CRIED9.CRIED) 18032

CRIED NINE DEPARTURE

AL-198 (FAA)

WILLIAM P HOBBY (HOU)
HOUSTON, TEXAS

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWYS 4, 13L/R, 22, 35: Climb on assigned heading for RADAR vectors to LITLD INT, maintain 16000. Expect filed altitude 10 minutes after departure, thence. . . .
TAKEOFF RWY 17: Climb heading 176° to 700 before turning, then climb on assigned heading for RADAR vectors to LITLD INT, maintain 16000. Expect filed altitude 10 minutes after departure, thence. . . .
TAKEOFF RWYS 31L/R: Climb heading 311° to 800 before turning, then climb on assigned heading for RADAR vectors to LITLD INT, maintain 16000. Expect filed altitude 10 minutes after departure, thence. . . .

. . . . on IAH R-344 to STELL INT, then on IAH R-344 to CRIED INT then left turn on CQY R-144 to CQY VORTAC.

SC-5, 25 FEB 2021 to 22 APR 2021

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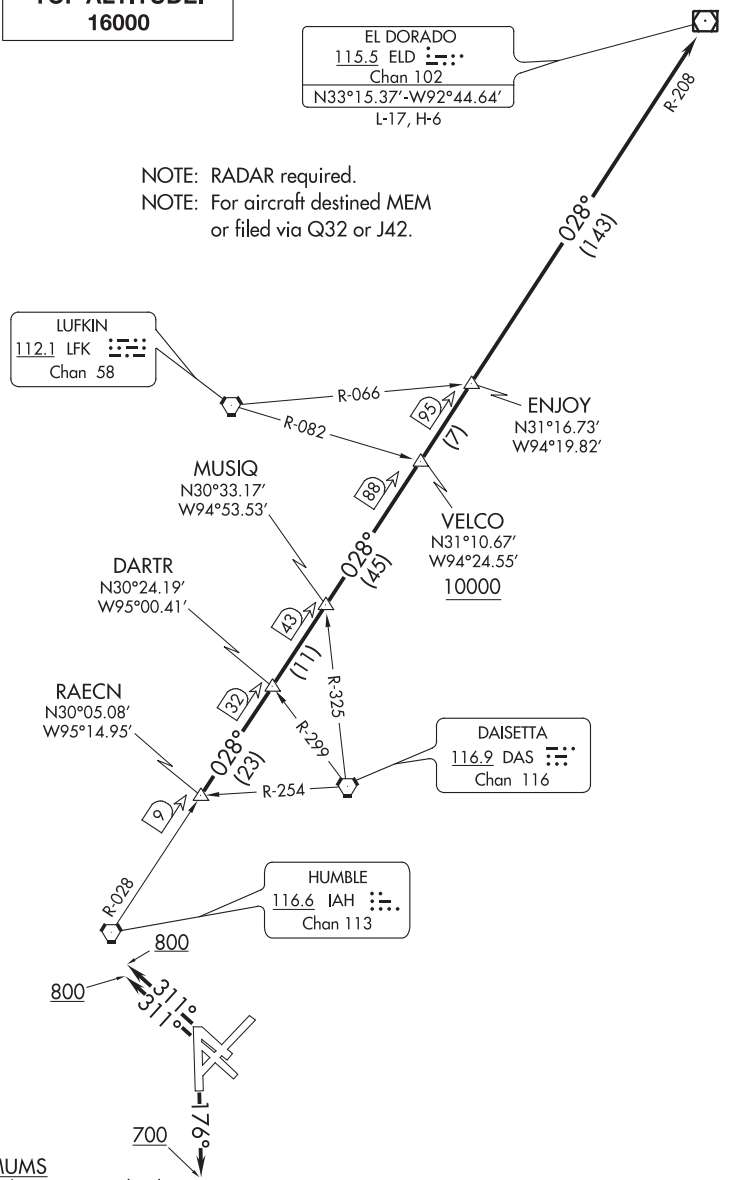
EL DORADO NINE DEPARTURE

WILLIAM P HOBBY (HOU)
HOUSTON, TEXAS

D-ATIS
124.6
CLNC DEL
125.45
CPDLC
GND CON
121.9
HOBBY TOWER
118.7 256.9
HOUSTON DEP CON
132.25 285.425

TOP ALTITUDE: 16000

NOTE: RADAR required.
NOTE: For aircraft destined MEM or filed via Q32 or J42.



TAKEOFF MINIMUMS
Rwys 13L/R, 31L/R, 35: Standard.
Rwy 4: 300-1 or standard with minimum climb of 270′ per NM to 300.
Rwy 17: 300-1.
Rwy 22: Standard with minimum climb of 290′ per NM to 1500.

NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

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DEPARTURE ROUTE DESCRIPTION

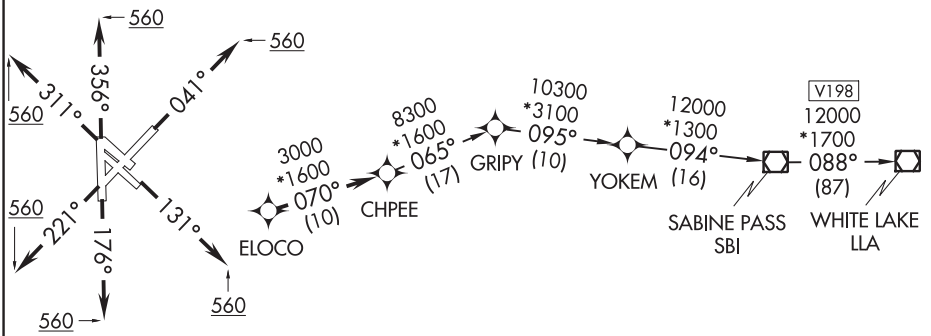
TAKEOFF RWYS 4, 13L/R, 22, 35: Climb on assigned heading for RADAR vectors to RAECN INT, maintain 16000. Expect filed altitude 10 minutes after departure, thence. . . .
TAKEOFF RWY 17: Climb heading 176° to 700 before turning, then climb on assigned heading for RADAR vectors to RAECN INT, maintain 16000. Expect filed altitude 10 minutes after departure, thence. . . .
TAKEOFF RWYS 31L/R: Climb heading 311° to 800 before turning, then climb on assigned heading for RADAR vectors to RAECN INT, maintain 16000. Expect filed altitude 10 minutes after departure, thence. . . .

. . . .on IAH R-028 and the ELD R-208 to ELD VOR/DME, cross VELCO INT at or above 10000.

TOP ALTITUDE: 16000

D-ATIS
124.6
CLNC DEL
125.45
CPDLC
GND CON
121.9
HOBBY TOWER
118.7 256.9
HOUSTON DEP CON
127.125 281.4

TAKEOFF MINIMUMS
Rwys 4, 13L/R, 17, 22, 31L/R, 35:
Standard with minimum climb of 500′ per NM to 560.



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

NOTE: Chart not to scale.

SC-5, 25 FEB 2021 to 22 APR 2021

SC-5, 25 FEB 2021 to 22 APR 2021

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 4: Climb heading 041° to 560, expect RADAR vectors to ELOCO, thence . . . .
TAKEOFF RWYS 13L/R: Climb heading 131° to 560, expect RADAR vectors to ELOCO, thence . . . .
TAKEOFF RWY 17: Climb heading 176° to 560, expect RADAR vectors to ELOCO, thence . . . .
TAKEOFF RWY 22: Climb heading 221° to 560, expect RADAR vectors to ELOCO, thence . . . .
TAKEOFF RWYS 31L/R: Climb heading 311° to 560, expect RADAR vectors to ELOCO, thence . . . .
TAKEOFF RWY 35: Climb heading 356° to 560, expect RADAR vectors to ELOCO, thence . . . .

. . . . on track 070° to CHPEE, then on (transition). Maintain 16000, expect filed altitude 10 minutes after departure.

WHITE LAKE TRANSITION (ELOCO4.LLA)

(GIFFA9.GIFFA) 18032

GIFFA NINE DEPARTURE

AL-198 (FAA)

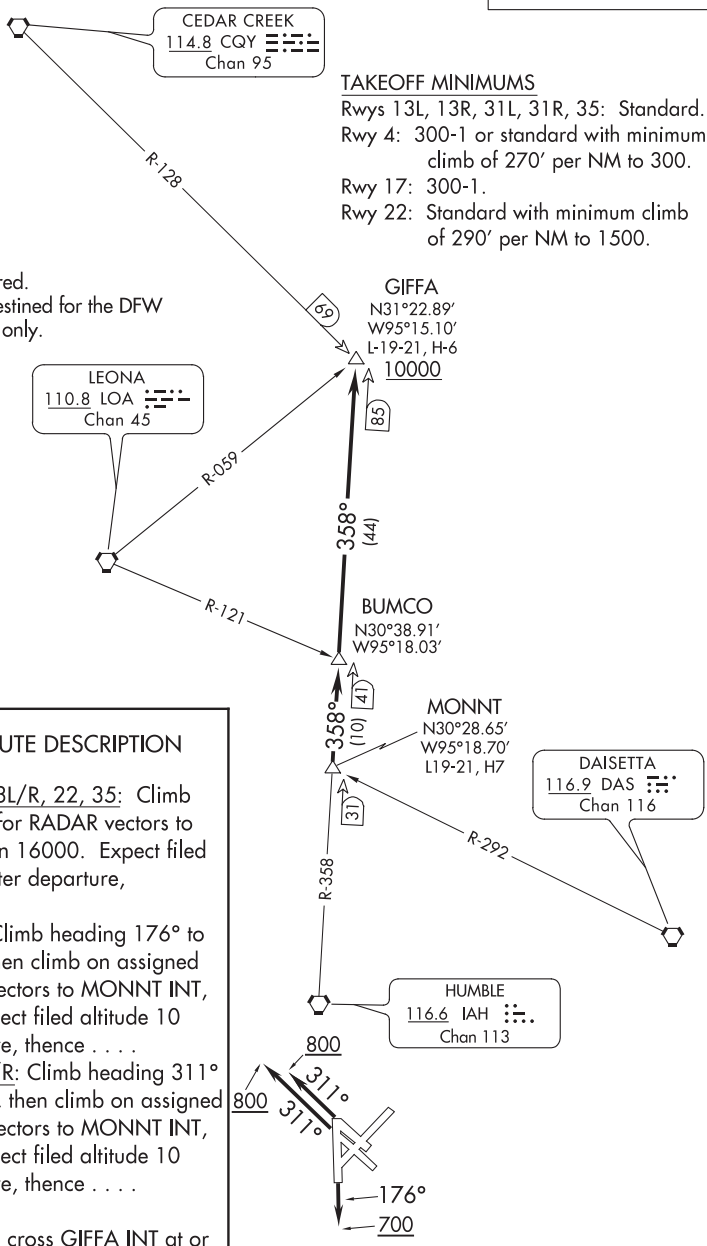
WILLIAM P HOBBY (HOU)
HOUSTON, TEXAS

D-ATIS
124.6
CLNC DEL
125.45
CPDLC
GND CON
121.9
HOBBY TOWER
118.7 256.9
HOUSTON DEP CON
132.25 285.425

TOP ALTITUDE: 16000

TAKEOFF MINIMUMS
Rwys 13L, 13R, 31L, 31R, 35: Standard.
Rwy 4: 300-1 or standard with minimum climb of 270′ per NM to 300.
Rwy 17: 300-1.
Rwy 22: Standard with minimum climb of 290′ per NM to 1500.

NOTE: RADAR required.
NOTE: For aircraft destined for the DFW terminal area only.



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWYS 4, 13L/R, 22, 35: Climb on assigned heading for RADAR vectors to MONNT INT, maintain 16000. Expect filed altitude 10 minutes after departure, thence . . . .

TAKEOFF RWY 17: Climb heading 176° to 700 before turning, then climb on assigned heading for RADAR vectors to MONNT INT, maintain 16000. Expect filed altitude 10 minutes after departure, thence . . . .

TAKEOFF RWYS 31L/R: Climb heading 311° to 800 before turning, then climb on assigned heading for RADAR vectors to MONNT INT, maintain 16000. Expect filed altitude 10 minutes after departure, thence . . . .

. . . . on IAH R-358 to cross GIFFA INT at or above 10000.

NOTE: Chart not to scale.

HOODO SIX DEPARTURE (RNAV)
(HOODO6.HOODO) 25APR19

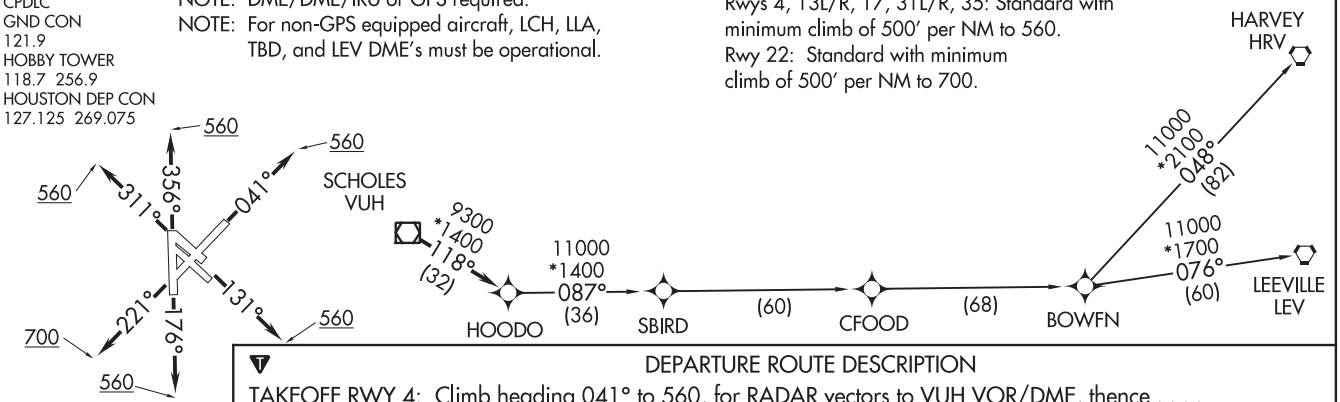
WILLIAM P HOBBY (HOU)
HOUSTON, TEXAS

D-ATIS
124.6
CLNC DEL
125.45
CPDLC
GND CON
121.9
HOBBY TOWER
118.7 256.9
HOUSTON DEP CON
127.125 269.075

NOTE: RNAV 1.
NOTE: RADAR required.
NOTE: ATC assigned only.
NOTE: DME/DME/IRU or GPS required.
NOTE: For non-GPS equipped aircraft, LCH, LLA, TBD, and LEV DME's must be operational.

TOP ALTITUDE: 16000

TAKEOFF MINIMUMS
Rwys 4, 13L/R, 17, 31L/R, 35: Standard with minimum climb of 500' per NM to 560.
Rwy 22: Standard with minimum climb of 500' per NM to 700.



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 4: Climb heading 041° to 560, for RADAR vectors to VUH VOR/DME, thence . . . .
TAKEOFF RWYS 13L/R: Climb on heading 131° to 560, for RADAR vectors to VUH VOR/DME, thence . . . .
TAKEOFF RWY 17: Climb on heading 176° to 560, for RADAR vectors to VUH VOR/DME, thence . . . .
TAKEOFF RWY 22: Climb on heading 221° to 700, for RADAR vectors to VUH VOR/DME, thence . . . .
TAKEOFF RWYS 31L/R: Climb on heading 311° to 560, for RADAR vectors to VUH VOR/DME, thence . . . .
TAKEOFF RWY 35: Climb on heading 356° to 560, for RADAR vectors to VUH VOR/DME, thence . . . .

. . . . on track 118° to HOODO, then on (transition). Maintain 16000.
Expect filed altitude 10 minutes after departure.

BOWFN TRANSITION (HOODO6.BOWFN)
CFOOD TRANSITION (HOODO6.CFOOD)
HARVEY TRANSITION (HOODO6.HRV)
LEEVILLE TRANSITION (HOODO6.LEV)
SBIRD TRANSITION (HOODO6.SBIRD)

NOTE: Chart not to scale.

(HOODO6.HOODO) 19115
HOODO SIX DEPARTURE (RNAV)
AL-198 (FAA)
WILLIAM P HOBBY (HOU)
HOUSTON, TEXAS

(INDIE7.INDIE) 19115

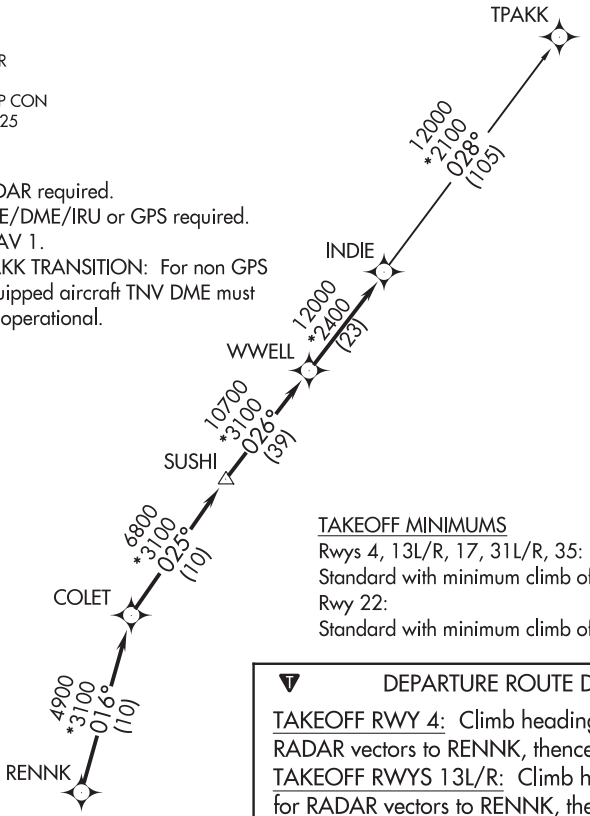
INDIE SEVEN DEPARTURE (RNAV)

WILLIAM P HOBBY (HOU)
HOUSTON, TEXAS

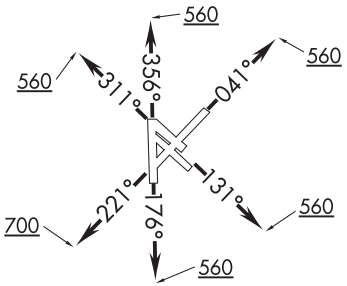
TOP ALTITUDE: 16000

D-ATIS 124.6
CLNC DEL
125.45
CPDLC
GND CON
121.9
HOBBY TOWER
118.7 256.9
HOUSTON DEP CON
132.25 285.425

NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV 1.
NOTE: TPAKK TRANSITION: For non GPS equipped aircraft TNV DME must be operational.



TAKEOFF MINIMUMS
Rwys 4, 13L/R, 17, 31L/R, 35:
Standard with minimum climb of 500′ per NM to 560.
Rwy 22:
Standard with minimum climb of 500′ per NM to 700.



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 4: Climb heading 041° to 560 for RADAR vectors to RENNK, thence . . . .
TAKEOFF RWYS 13L/R: Climb heading 131° to 560 for RADAR vectors to RENNK, thence . . . .
TAKEOFF RWY 17: Climb heading 176° to 560 for RADAR vectors to RENNK, thence . . . .
TAKEOFF RWY 22: Climb heading 221° to 700 for RADAR vectors to RENNK, thence . . . .
TAKEOFF RWYS 31L/R: Climb heading 311° to 560 for RADAR vectors to RENNK, thence . . . .
TAKEOFF RWY 35: Climb heading 356° to 560 for RADAR vectors to RENNK, thence . . . .

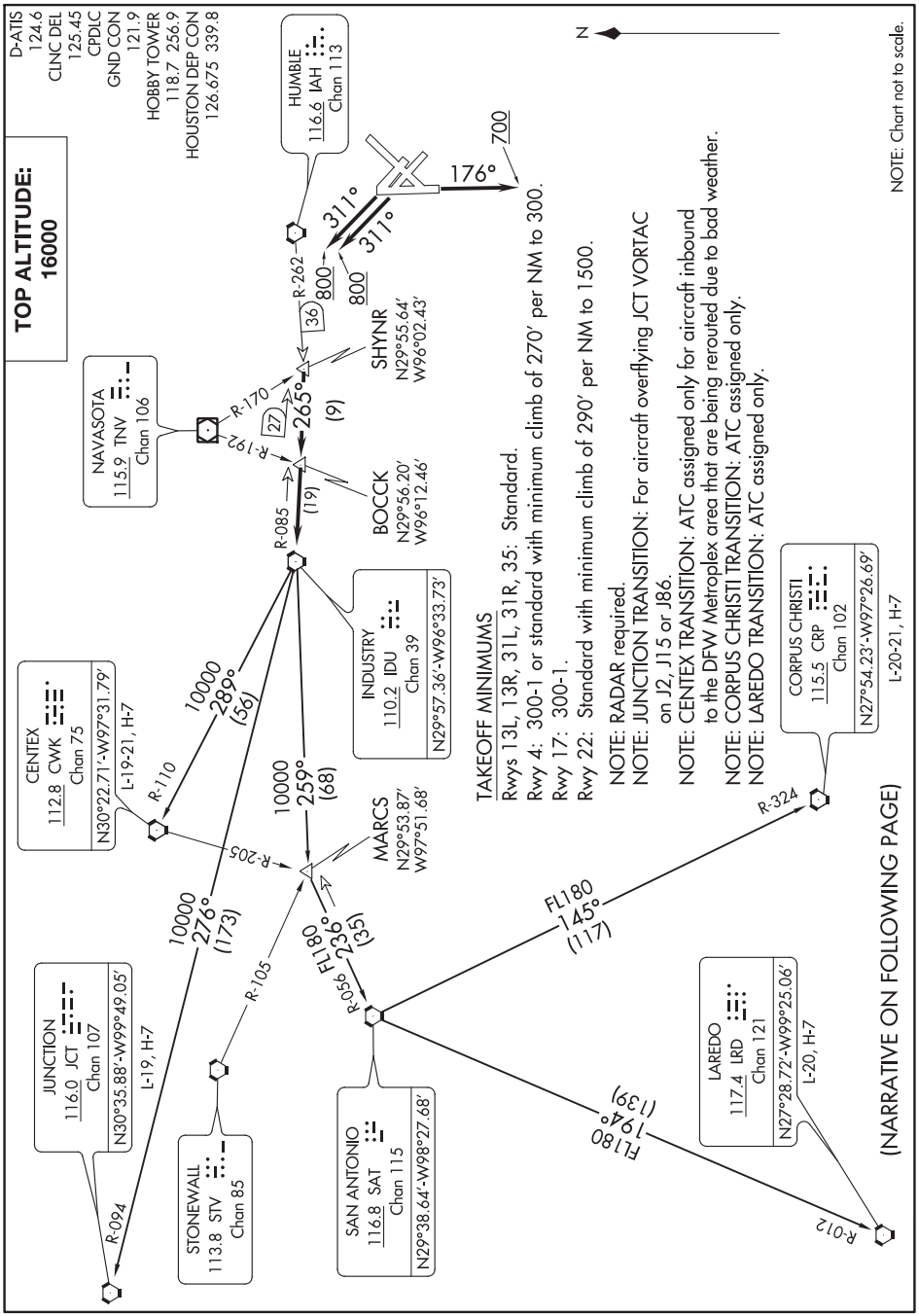
. . . . on track 016° to COLET, then on track 025° to SUSHI, then on track 026° to WWELL, then on track 026° to INDIE, then on (transition). Maintain 16000 or as assigned by ATC. Expect filed altitude 10 minutes after departure.

TPAKK TRANSITION (INDIE7.TPAKK)

SC-5, 25 FEB 2021 to 22 APR 2021

INDUSTRY NINE DEPARTURE

AL-198 (FAA)



SC-5, 25 FEB 2021 to 22 APR 2021

SC-5, 25 FEB 2021 to 22 APR 2021

(IDU9.IDU) 18032

INDUSTRY NINE DEPARTURE

AL-198 (FAA)

WILLIAM P HOBBY (HOU)
HOUSTON, TEXAS

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWYS 4, 13L/R, 22, 35: Climb on assigned heading for RADAR vectors to SHYNR INT, maintain 16000. Expect filed altitude 10 minutes after departure, thence . . . .
TAKEOFF RWY 17: Climb heading 176° to 700 before turning, then climb on assigned heading for RADAR vectors to SHYNR INT, maintain 16000. Expect filed altitude 10 minutes after departure, thence . . . .
TAKEOFF RWYS 31L/R: Climb heading 311° to 800 before turning, then climb on assigned heading for RADAR vectors to SHYNR INT, maintain 16000. Expect filed altitude 10 minutes after departure, thence . . . .
. . . . on IDU R-085 to BOCCK INT, then on IDU R-085 to IDU VORTAC.

CENTEX TRANSITION (IDU9.CWK): From over IDU VORTAC on IDU R-289 and CWK R-110 to CWK VORTAC.
CORPUS CHRISTI TRANSITION (IDU9.CRP): From over IDU VORTAC on IDU R-259 to MARCS INT, then on SAT R-056 to SAT VORTAC, then on SAT R-145 and CRP R-324 to CRP VORTAC.
JUNCTION TRANSITION (IDU9.JCT): From over IDU VORTAC on IDU R-276 and JCT R-094 to JCT VORTAC.
LAREDO TRANSITION (IDU9.LRD): From over IDU VORTAC on IDU R-259 to MARCS INT, then on SAT R-056 to SAT VORTAC, then on SAT R-194 and LRD R-012 to LRD VORTAC.

SC-5, 25 FEB 2021 to 22 APR 2021

LEONA THREE DEPARTURE

AL-198 (FAA)

TOP ALTITUDE: 16000

D-ATIS
124.6
CLNC DEL
125.45
CPDLC
HOUSTON DEP CON
132.25 285.425
GND CON
121.9
HOBBY TOWER
118.7 256.9

ARDMORE
116.7 ADM
Chan 114
N34°12.69′ - W97°10.10′
L-17, H-6

TULSA
114.4 TUL
Chan 91
N36°11.78′ - W95°47.29′

BONHAM
114.6 BYP
Chan 93
N33°32.25′ - W96°14.05′
L-17, H-6

RANGER
115.7 FUZ
Chan 104
N32°53.37′ - W97°10.77′
L-17, H-6

CEDAR CREEK
114.8 CQY
Chan 95
N32°11.14′ - W96°13.09′

DOLEY
N32°11.35′
W96°23.08′

WACO
115.3 ACT
Chan 100
N31°39.74′ - W97°16.14′

LEONA
110.8 LOA
Chan 45
N31° 07.44′ - W95° 58.08′

WLLIS
N30°32.08′
W95°39.10′

NAVASOTA
115.9 TNV
Chan 106

HUMBLE
116.6 IAH
Chan 113

R-156 FL180 336° (127)
R-130 FL180 310° (58)
R-173 FL180 353° (81)
R-163 10000 341° (65)
R-046 10000 334° (67)
R-147 4000 327° (39)
R-047 (38)
R-330

800 311°
176° 700

TAKEOFF MINIMUMS
Rwys 13L/R, 31L/R, 35: Standard.
Rwy 4: 300-1 or standard with minimum climb of 270′ per NM to 300.
Rwy 17: 300-1.
Rwy 22: Standard with minimum climb of 290′ per NM to 1500.

NOTE: RADAR required.
NOTE: Except for aircraft destined ACT or the DFW terminal area, all aircraft filing the LEONA SID must file one of the published transitions via FUZ (LOA3.FUZ) ADM (LOA3.ADM) or BYP (LOA3.BYP).
NOTE: RANGER TRANSITION: For aircraft overflying west/northwest of the DFW terminal area FL240 and above.
NOTE: ARDMORE TRANSITION: For aircraft overflying north/northwest of the DFW terminal area FL240 and above.
NOTE: BONHAM TRANSITION: For aircraft overflying/landing TUL VORTAC FL240 and above.

NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

SC-5, 25 FEB 2021 to 22 APR 2021
SC-5, 25 FEB 2021 to 22 APR 2021

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 4, 13L/R, 22, 35: Climb on assigned heading for RADAR vectors to WILLIS INT, maintain 16000. Expect filed altitude 10 minutes after departure, thence . . . .

TAKEOFF RUNWAY 17: Climb heading 176° to 700 before turning, then climb on assigned heading for RADAR vectors to WILLIS INT, maintain 16000. Expect filed altitude 10 minutes after departure, thence . . . .

TAKEOFF RUNWAYS 31L/R: Climb heading 311° to 800 before turning, then climb on assigned heading for RADAR vectors to WILLIS INT, maintain 16000. Expect filed altitude 10 minutes after departure, thence . . . .

. . . . on LOA R-147 to LOA VORTAC.

ARDMORE TRANSITION (LOA3.ADM): From over LOA VORTAC on LOA R-334 to DOLEY INT, then on ADM R-156 to ADM VORTAC.

BONHAM TRANSITION (LOA3.BYP): From over LOA VORTAC on LOA R-341 and CQY R-163 to CQY VORTAC, then on BYP R-173 to BYP VORTAC.

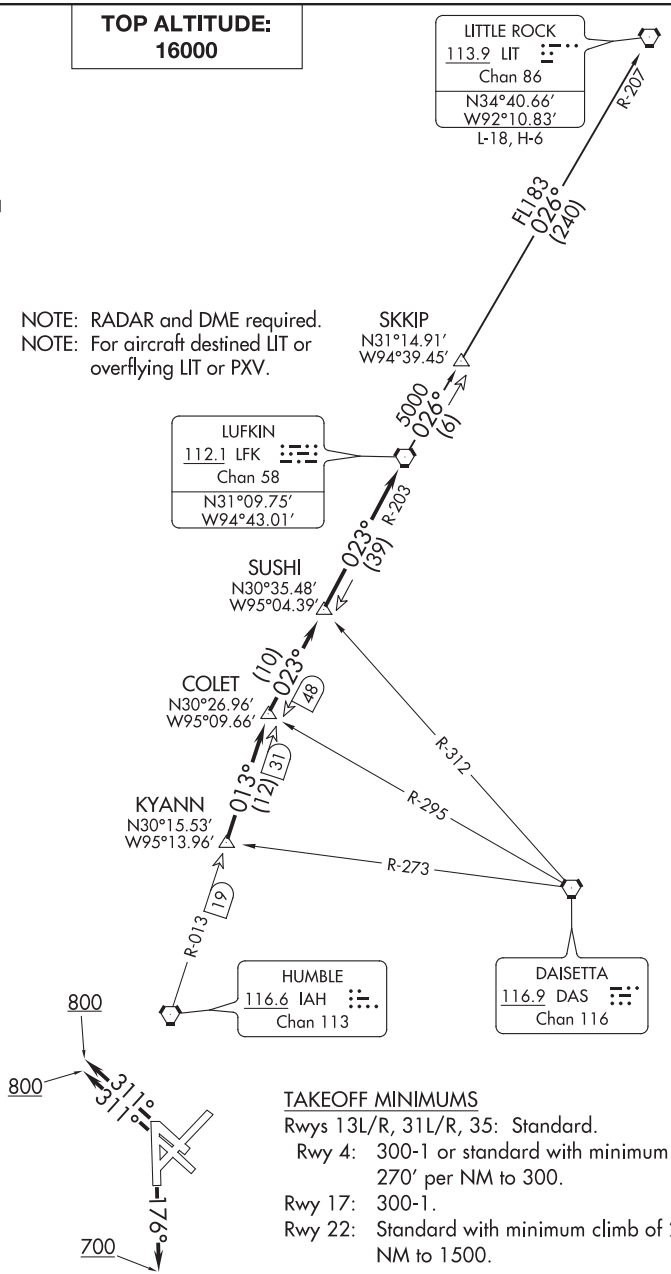
RANGER TRANSITION (LOA3.FUZ): From over LOA VORTAC on LOA R-334 to DOLEY INT, then on FUZ R-130 to FUZ VORTAC.

LUFKIN TWO DEPARTURE

D-ATIS
124.6
CLNC DEL
125.45
CPDLC
GND CON
121.9
HOBBY TOWER
118.7 256.9
HOUSTON DEP CON
132.25 285.425

TOP ALTITUDE: 16000

NOTE: RADAR and DME required.
NOTE: For aircraft destined LIT or overflying LIT or PXV.



TAKEOFF MINIMUMS

Rwys 13L/R, 31L/R, 35: Standard.
Rwy 4: 300-1 or standard with minimum climb of 270′ per NM to 300.
Rwy 17: 300-1.
Rwy 22: Standard with minimum climb of 290′ per NM to 1500.

NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

SC-5, 25 FEB 2021 to 22 APR 2021
SC-5, 25 FEB 2021 to 22 APR 2021

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWYS 4, 13L/R, 22, 35: Climb on assigned heading for RADAR vectors to KYANN INT, maintain 16000. Expect filed altitude 10 minutes after departure, thence. . . .
TAKEOFF RWY 17: Climb heading 176° to 700 before turning, then climb on assigned heading for RADAR vectors to KYANN INT, maintain 16000. Expect filed altitude 10 minutes after departure, thence. . . .
TAKEOFF RWYS 31L/R: Climb heading 311° to 800 before turning, then climb on assigned heading for RADAR vectors to KYANN INT, maintain 16000. Expect filed altitude 10 minutes after departure, thence. . . .

. . . .on IAH R-013 to COLET INT, then right turn on LFK R-203 to LFK VORTAC.

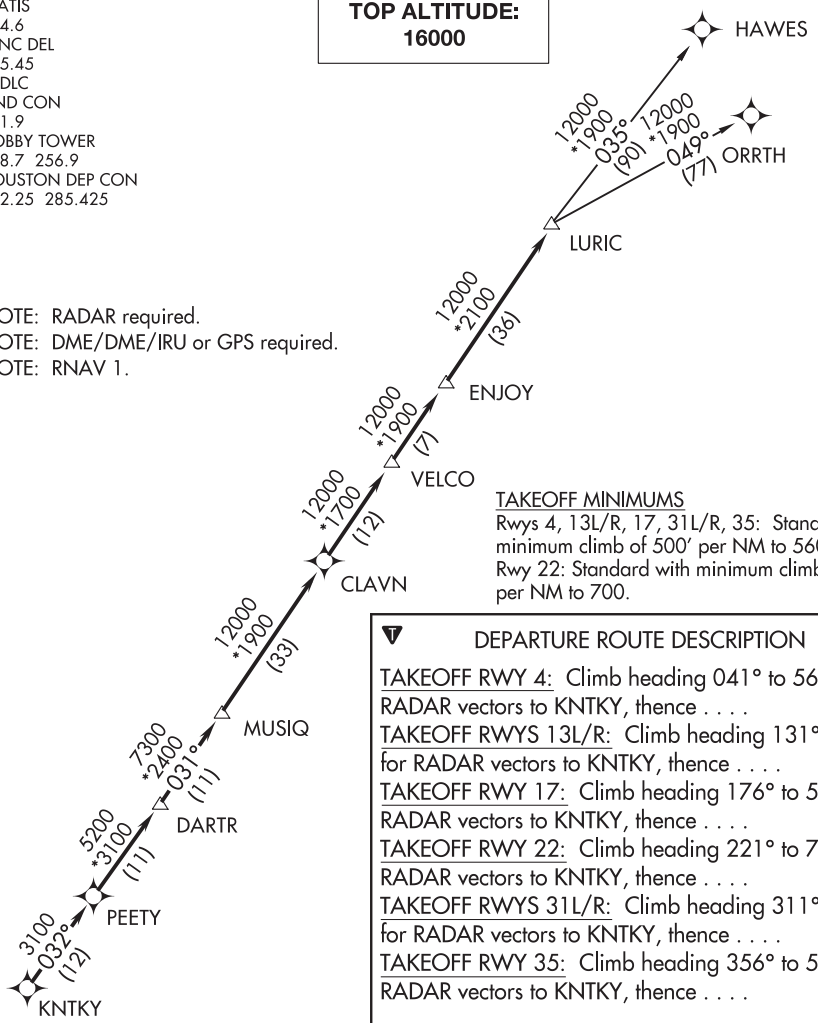
LITTLE ROCK TRANSITION (LFK2.LIT): From over LFK VORTAC on LFK R-026 to SKKIP INT, then on LFK R-026 and LIT R-207 to LIT VORTAC.

LURIC SEVEN DEPARTURE (RNAV)

D-ATIS
124.6
CLNC DEL
125.45
CPDLC
GND CON
121.9
HOBBY TOWER
118.7 256.9
HOUSTON DEP CON
132.25 285.425

TOP ALTITUDE: 16000

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



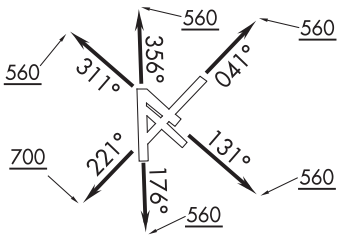
TAKEOFF MINIMUMS
Rwys 4, 13L/R, 17, 31L/R, 35: Standard with minimum climb of 500′ per NM to 560.
Rwy 22: Standard with minimum climb of 500′ per NM to 700.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 4: Climb heading 041° to 560 for RADAR vectors to KNTKY, thence . . . .
TAKEOFF RWYS 13L/R: Climb heading 131° to 560 for RADAR vectors to KNTKY, thence . . . .
TAKEOFF RWY 17: Climb heading 176° to 560 for RADAR vectors to KNTKY, thence . . . .
TAKEOFF RWY 22: Climb heading 221° to 700 for RADAR vectors to KNTKY, thence . . . .
TAKEOFF RWYS 31L/R: Climb heading 311° to 560 for RADAR vectors to KNTKY, thence . . . .
TAKEOFF RWY 35: Climb heading 356° to 560 for RADAR vectors to KNTKY, thence . . . .

. . . . on track 032° to PEETY, then on track 032° to DARTR, then on track 031° to MUSIQ, then on track 031° to CLAVN, then on track 031° to VELCO, then on track 031° to ENJOY, then on track 031° to LURIC, then on (transition). Maintain 16000 or as assigned by ATC. Expect filed altitude 10 minutes after departure.

HAWES TRANSITION (LURIC7.HAWES)
ORRTH TRANSITION (LURIC7.ORRTH)



NOTE: Chart not to scale

SC-5, 25 FEB 2021 to 22 APR 2021

SC-5, 25 FEB 2021 to 22 APR 2021

(PSX1.PSX) 20254

PALACIOS ONE DEPARTURE

AL-198 (FAA)

WILLIAM P HOBBY (HOU)
HOUSTON, TEXAS

TOP ALTITUDE: 16000

TAKEOFF MINIMUMS
Rwys 13L/R, 31L/R, 35: Standard.
Rwy 4: 300-1 or standard with minimum climb of 270′ per NM to 300.
Rwy 17: 300-1.
Rwy 22: Standard with minimum climb of 290′ per NM to 1500.

N

D-ATIS 124.6
CLNC DEL 125.45
CPDLC
GND CON 121.9
HOBBY TOWER 118.7 256.9
HOUSTON DEP CON 127.125 269.075

SAN ANTONIO 116.8 SAT Chan 115 N29°38.64′-W98°27.68′ L-19, H-7

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

EAGLE LAKE 116.4 ELA Chan 111

ROCKSPRINGS 114.55 RSG Chan 92 (Y) N30°00.88′-W100°17.99′

COTULLA 115.8 COT Chan 105 N28°27.72′-W99°07.11′

THREE RIVERS 111.4 THX Chan 51 N28°30.30′-W98°09.03′

PALACIOS 117.3 PSX Chan 120 N28°45.87′-W96°18.37′

SKUBA N29°11.72′ W95°47.47′ L-19-21, H-7

R-100 FL180 283° (150)
R-136 FL180 318° (112)
R-078 FL180 259° (51)
R-073 FL180 338° (70)
R-158
R-038 218° (37)
R-127
10000 253° (99)

311° 800
176° 700

(NARRATIVE ON FOLLOWING PAGE)

NOTE: RADAR required.
NOTE: Chart not to scale.

SC-5, 25 FEB 2021 to 22 APR 2021

PALACIOS ONE DEPARTURE

(PSX1.PSX) 20JUN19

HOUSTON, TEXAS
WILLIAM P HOBBY (HOU)

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWYS 4, 13L/R, 22, 35: Climb on assigned heading for RADAR vectors to SKUBA INT, maintain 16000. Expect filed altitude 10 minutes after departure, thence. . . .

TAKEOFF RWY 17: Climb heading 176° to 700 before turning, then climb on assigned heading for RADAR vectors to SKUBA INT, maintain 16000.
Expect filed altitude 10 minutes after departure, thence. . . .

TAKEOFF RWYS 31L/R: Climb heading 311° to 800 before turning, then climb on assigned heading for RADAR vectors to SKUBA INT, maintain 16000.
Expect filed altitude 10 minutes after departure, thence. . . .

. . . .on PSX R-038 to PSX VORTAC.

FORT STOCKTON TRANSITION (PSX1.FST): From over PSX VORTAC on PSX R-253 and THX R-073 to THX VORTAC, then on THX R-259 and COT R-078 to COT VORTAC, then on COT R-318 and RSG R-136 to RSG VORTAC, then on RSG R-283 and FST R-100 to FST VORTAC.

SAN ANTONIO TRANSITION (PSX1.SAT): From over PSX VORTAC on PSX R-253 and THX R-073 to THX VORTAC, then on SAT R-158 to SAT VORTAC.

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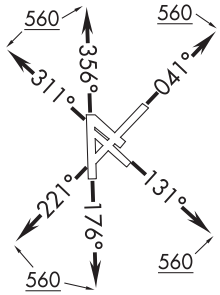
(PEECE4.PEECE) 18032 AL-198 (FAA)

PEECE FOUR DEPARTURE (RNAV)

WILLIAM P HOBBY (HOU)
HOUSTON, TEXAS

TOP ALTITUDE: 16000

D-ATIS
124.6
CLNC DEL
125.45
CPDLC
GND CON
121.9
HOBBY TOWER
118.7 256.9
HOUSTON DEP CON
127.125 269.075



TAKEOFF MINIMUMS
Rwy 4: Standard with minimum climb of 500′ per NM to 3800.
Rwys 13L, 17: Standard with minimum climb of 500′ per NM to 4200.
Rwy 13R: Standard with minimum climb of 500′ per NM to 4400.
Rwy 22: Standard with minimum climb of 500′ per NM to 3900.
Rwys 31L/R: Standard with minimum climb of 500′ per NM to 3300.
Rwy 35: Standard with minimum climb of 500′ per NM to 3400.

PEECE
6400
*1600
131°
(18)
SCHOLES
VUH
12000
*1700
146°
(76)
MUSYL
12000
*1700
134°
(130)
ANKRR
12000
*1700
125°
(199)
KELPP

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

NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

SC-5, 25 FEB 2021 to 22 APR 2021

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 4: Climb heading 041° to 560, expect RADAR vectors to PEECE, thence. . . .
TAKEOFF RWYS 13L/R: Climb heading 131° to 560, expect RADAR vectors to PEECE, thence. . . .
TAKEOFF RWY 17: Climb heading 176° to 560, expect RADAR vectors to PEECE, thence. . . .
TAKEOFF RWY 22: Climb heading 221° to 560, expect RADAR vectors to PEECE, thence. . . .
TAKEOFF RWYS 31L/R: Climb heading 311° to 560, expect RADAR vectors to PEECE, thence. . . .
TAKEOFF RWY 35: Climb heading 356° to 560, expect RADAR vectors to PEECE, thence. . . .

. . . .on track 131° to VUH VOR/DME, then on (transition). Maintain 16000, expect filed altitude 10 minutes after departure.

ANKRR TRANSITION (PEECE4.ANKRR): (GPS required).
KELPP TRANSITION (PEECE4.KELPP): (GPS required).
MUSYL TRANSITION (PEECE4.MUSYL): (GPS required).

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SC-5, 25 FEB 2021 to 22 APR 2021

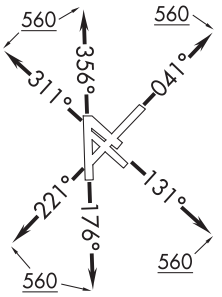
(PTRON6.PTRON) 19339 AL-198 (FAA) WILLIAM P HOBBY (HOU)

PTRON SIX DEPARTURE (RNAV)

HOUSTON, TEXAS

D-ATIS
124.6
CLNC DEL
125.45
CPDLC
GND CON
121.9
HOBBY TOWER
118.7 256.9
HOUSTON DEP CON
127.125 269.075

TOP ALTITUDE: 16000



TAKEOFF MINIMUMS
Rwy 4: Standard with minimum climb of 500′ per NM to 900.
Rwy 13L: Standard with minimum climb of 500′ per NM to 3600.
Rwy 13R: Standard with minimum climb of 500′ per NM to 3800.
Rwy 17: Standard with minimum climb of 500′ per NM to 3500.
Rwy 22: Standard with minimum climb of 500′ per NM to 1900.
Rwys 31L/R, 35: Standard with minimum climb of 500′ per NM to 560.

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

SAALT
3700
*2200
191°
(4)
PTRON
11100
*2200
241°
(34)
SKUBA
10900
*3000
210°
(38)
RIIGG
12000
*2600
224°
(37)
PALACIOS
PSX
12000
*1800
221°
(64)
12000
*1700
228°
(115)
12000
*2100
206°
(53)
YOMOM
12000
*1500
249°
(17)
CORPUS CHRISTI
CRP
WWREN
TRUAX
NGP

NOTE: Chart not to scale.

(NARRATIVE CONTINUED ON FOLLOWING PAGE)

SC-5, 25 FEB 2021 to 22 APR 2021
SC-5, 25 FEB 2021 to 22 APR 2021

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 4: Climb on heading 041° to 560, expect RADAR vectors to SAALT, thence. . . .
TAKEOFF RWYS 13L/R: Climb on heading 131° to 560, expect RADAR vectors to SAALT, thence. . . .
TAKEOFF RWY 17: Climb on heading 176° to 560, expect RADAR vectors to SAALT, thence. . . .
TAKEOFF RWY 22: Climb on heading 221° to 560, expect RADAR vectors to SAALT, thence. . . .
TAKEOFF RWYS 31L/R: Climb on heading 311° to 560, expect RADAR vectors to SAALT, thence. . . .
TAKEOFF RWY 35: Climb on heading 356° to 560, expect RADAR vectors to SAALT, thence. . . .

. . . .on track 191° to PTRON, then on (transition). Maintain 16000, expect filed altitude 10 minutes after departure.

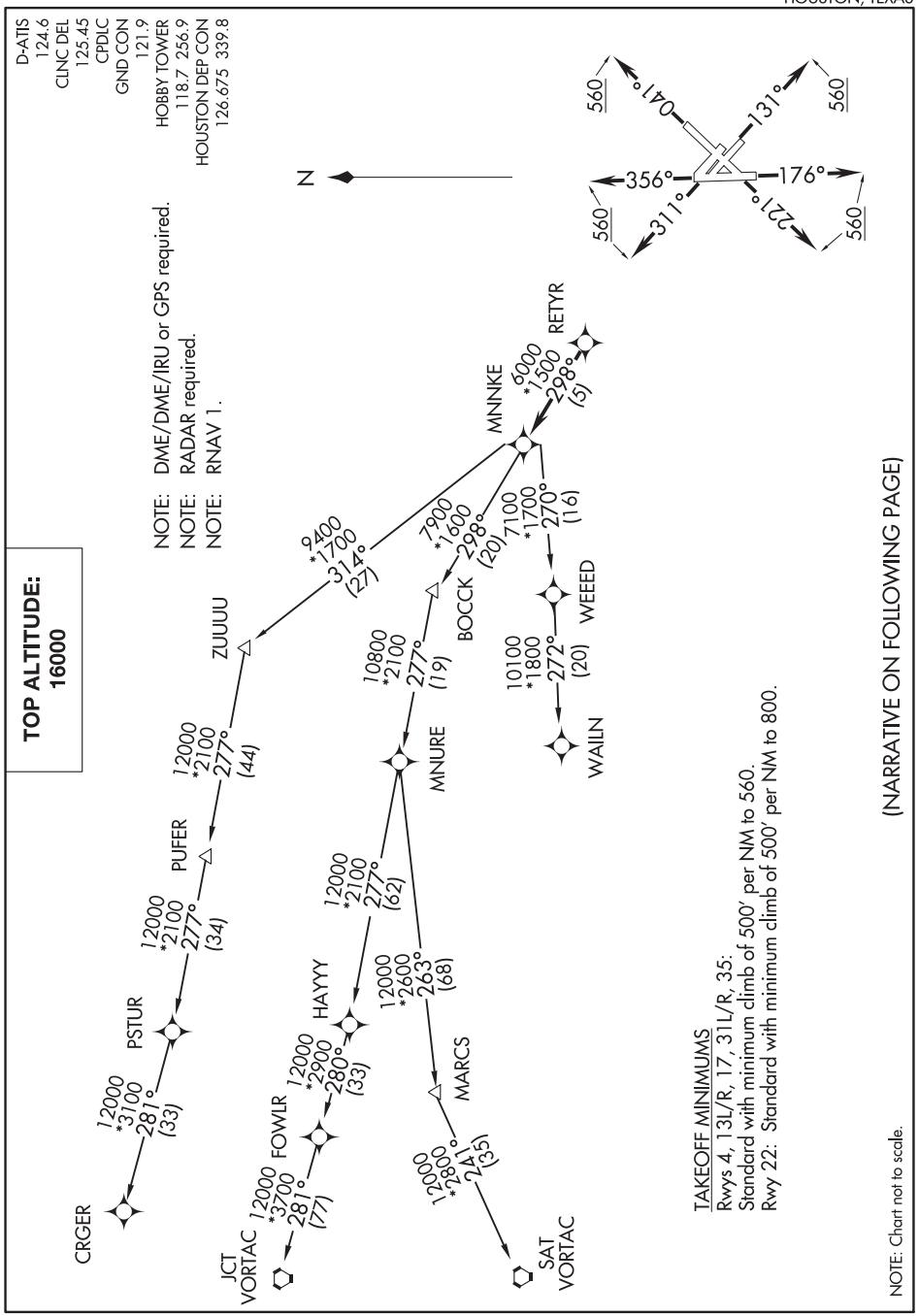
CORPUS CHRISTI TRANSITION (PTRON6.CRP)
PALACIOS TRANSITION (PTRON6.PSX)
TRUAX TRANSITION (PTRON6.NGP)
WWREN TRANSITION (PTRON6.WWREN)
YOMOM TRANSITION (PTRON6.YOMOM)

SC-5, 25 FEB 2021 to 22 APR 2021
SC-5, 25 FEB 2021 to 22 APR 2021

(RETYR5.RETYR) 18032

RETYR FIVE DEPARTURE (RNAV)

WILLIAM P HOBBY (HOU)
HOUSTON, TEXAS



SC-5, 25 FEB 2021 to 22 APR 2021

RETYR FIVE DEPARTURE (RNAV)

(RETYR5.RETYR) 10NOV16

HOUSTON, TEXAS
WILLIAM P HOBBY (HOU)

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 4: Climb heading 041° to 560, expect RADAR vectors to RETYR, thence . . . .
TAKEOFF RWYS 13L/R: Climb heading 131° to 560, expect RADAR vectors to RETYR, thence . . . .
TAKEOFF RWY 17: Climb heading 176° to 560, expect RADAR vectors to RETYR, thence . . . .
TAKEOFF RWY 22: Climb heading 221° to 560, expect RADAR vectors to RETYR, thence . . . .
TAKEOFF RWYS 31L/R: Climb heading 311° to 560, expect RADAR vectors to RETYR, thence . . . .
TAKEOFF RWY 35: Climb heading 356° to 560, expect RADAR vectors to RETYR, thence . . . .

. . . . on track 298° to MNNKE, then on (transition). Maintain 16000, expect filed altitude 10 minutes after departure.

CRGER TRANSITION (RETYR5.CRGER): (ATC assigned only)
JUNCTION TRANSITION (RETYR5.JCT)
MNURE TRANSITION (RETYR5.MNURE)
SAN ANTONIO TRANSITION (RETYR5.SAT)
WAILN TRANSITION (RETYR5.WAILN)

(STRYA7.STRYA) 19115 AL-198 (FAA)

STRYA SEVEN DEPARTURE (RNAV)

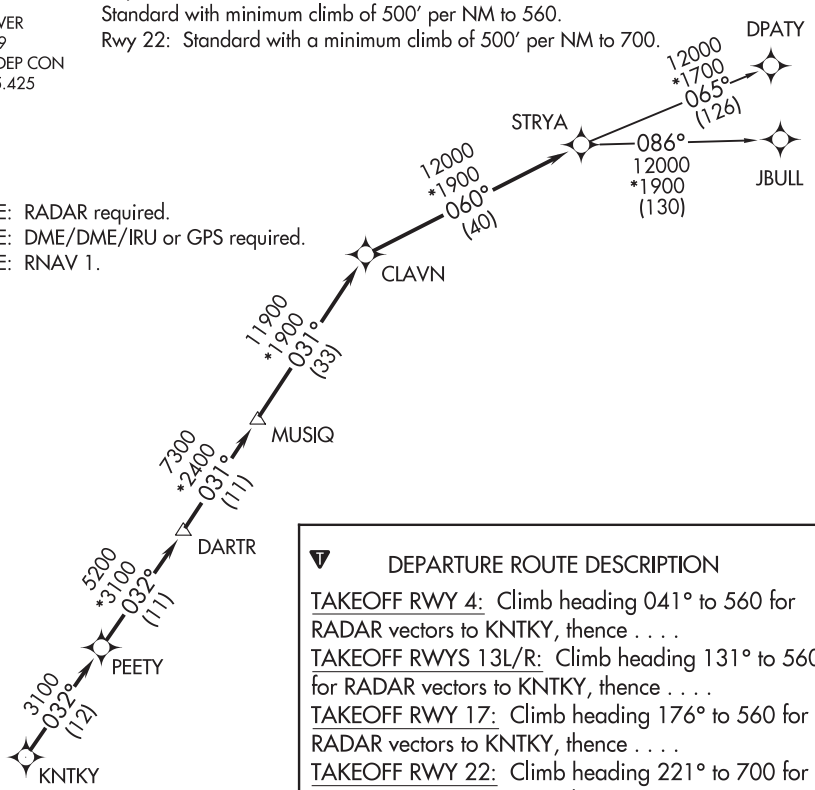
WILLIAM P HOBBY (HOU)
HOUSTON, TEXAS

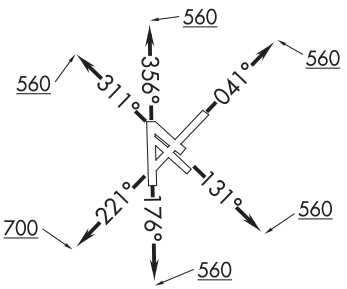
D-ATIS
124.6
CLNC DEL
125.45
CPDLC
GND CON
121.9
HOBBY TOWER
118.7 256.9
HOUSTON DEP CON
132.25 285.425

TOP ALTITUDE: 16000

TAKEOFF MINIMUMS
Rwys 4, 13L/R, 17, 31L/R, 35:
Standard with minimum climb of 500′ per NM to 560.
Rwy 22: Standard with a minimum climb of 500′ per NM to 700.

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





NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 4: Climb heading 041° to 560 for RADAR vectors to KNTKY, thence . . . .
TAKEOFF RWYS 13L/R: Climb heading 131° to 560 for RADAR vectors to KNTKY, thence . . . .
TAKEOFF RWY 17: Climb heading 176° to 560 for RADAR vectors to KNTKY, thence . . . .
TAKEOFF RWY 22: Climb heading 221° to 700 for RADAR vectors to KNTKY, thence . . . .
TAKEOFF RWYS 31L/R: Climb heading 311° to 560 for RADAR vectors to KNTKY, thence . . . .
TAKEOFF RWY 35: Climb heading 356° to 560 for RADAR vectors to KNTKY, thence . . . .

. . . . on track 032° to PEETY, then on track 032° to DARTR, then on track 031° to MUSIQ, then on track 031° to CLAVN, then on track 060° to STRYA, then on (transition). Maintain 16000 or as assigned by ATC. Expect filed altitude 10 minutes after departure.

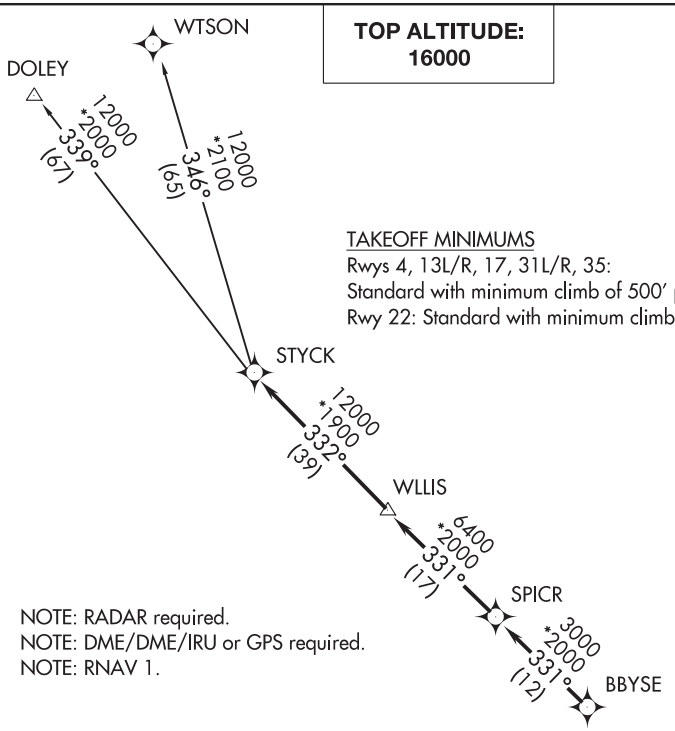
DPATY TRANSITION (STRYA7.DPATY)
JBULL TRANSITION (STRYA7.JBULL)

SC-5, 25 FEB 2021 to 22 APR 2021

TOP ALTITUDE: 16000

D-ATIS
124.6
CLNC DEL
125.45
CPDLC
GND CON
121.9
HOBBY TOWER
118.7 256.9
HOUSTON DEP CON
132.25 285.425

TAKEOFF MINIMUMS
Rwys 4, 13L/R, 17, 31L/R, 35:
Standard with minimum climb of 500′ per NM to 560.
Rwy 22: Standard with minimum climb of 500′ per NM to 700.

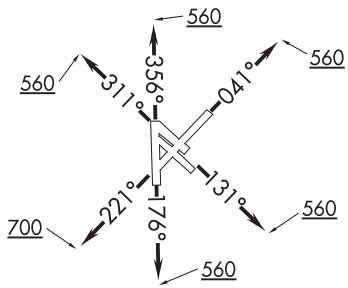


NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV 1.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 4: Climb heading 041° to 560 for RADAR vectors to BBYSE, thence. . . .
TAKEOFF RWYS 13L/R: Climb heading 131° to 560 for RADAR vectors to BBYSE, thence. . . .
TAKEOFF RWY 17: Climb heading 176° to 560 for RADAR vectors to BBYSE, thence. . . .
TAKEOFF RWY 22: Climb heading 221° to 700 for RADAR vectors to BBYSE, thence. . . .
TAKEOFF RWYS 31L/R: Climb heading 311° to 560 for RADAR vectors to BBYSE, thence. . . .
TAKEOFF RWY 35: Climb heading 356° to 560 for RADAR vectors to BBYSE, thence. . . .
. . . . on track 331° to SPICR, then on track 331° to WLLIS, then on track 332° to STYCK, then on (transition). Maintain 16000 or as assigned by ATC. Expect filed altitude 10 minutes after departure.

DOLEY TRANSITION (STYCK7.DOLEY)
WTSON TRANSITION (STYCK7.WTSON)



NOTE: Chart not to scale.

SC-5, 25 FEB 2021 to 22 APR 2021
SC-5, 25 FEB 2021 to 22 APR 2021

(WYLSN7.WYLSN) 19115 AL-198 (FAA)

WYLSN SEVEN DEPARTURE (RNAV)

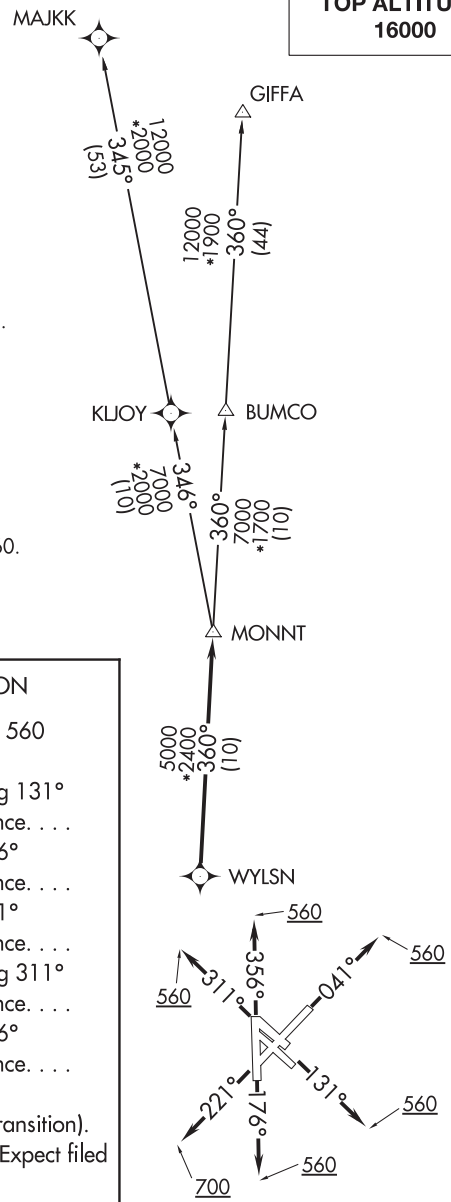
WILLIAM P HOBBY (HOU)
HOUSTON, TEXAS

D-ATIS
124.6
CLNC DEL
125.45
CPDLC
GND CON
121.9
HOBBY TOWER
118.7 256.9
HOUSTON DEP CON
132.25 285.425

TOP ALTITUDE: 16000

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

TAKEOFF MINIMUMS
Rwys 4, 13L/R, 17, 31L/R, 35: Standard with minimum climb of 500′ per NM to 560.
Rwy 22: Standard with minimum climb of 500′ per NM to 700.



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 4: Climb heading 041° to 560 for RADAR vectors to WYLSN, thence. . . .
TAKEOFF RWYS 13L/R: Climb on heading 131° to 560 for RADAR vectors to WYLSN, thence. . . .
TAKEOFF RWY 17: Climb on heading 176° to 560 for RADAR vectors to WYLSN, thence. . . .
TAKEOFF RWY 22: Climb on heading 221° to 700 for RADAR vectors to WYLSN, thence. . . .
TAKEOFF RWYS 31L/R: Climb on heading 311° to 560 for RADAR vectors to WYLSN, thence. . . .
TAKEOFF RWY 35: Climb on heading 356° to 560 for RADAR vectors to WYLSN, thence. . . .

. . . .on track 360° to MONNT, then on (transition). Maintain 16000 or as assigned by ATC. Expect filed altitude 10 minutes after departure.

GIFFA TRANSITION (WYLSN7.GIFFA)
MAJKK TRANSITION (WYLSN7.MAJKK)

NOTE: Chart not to scale.

SC-5, 25 FEB 2021 to 22 APR 2021

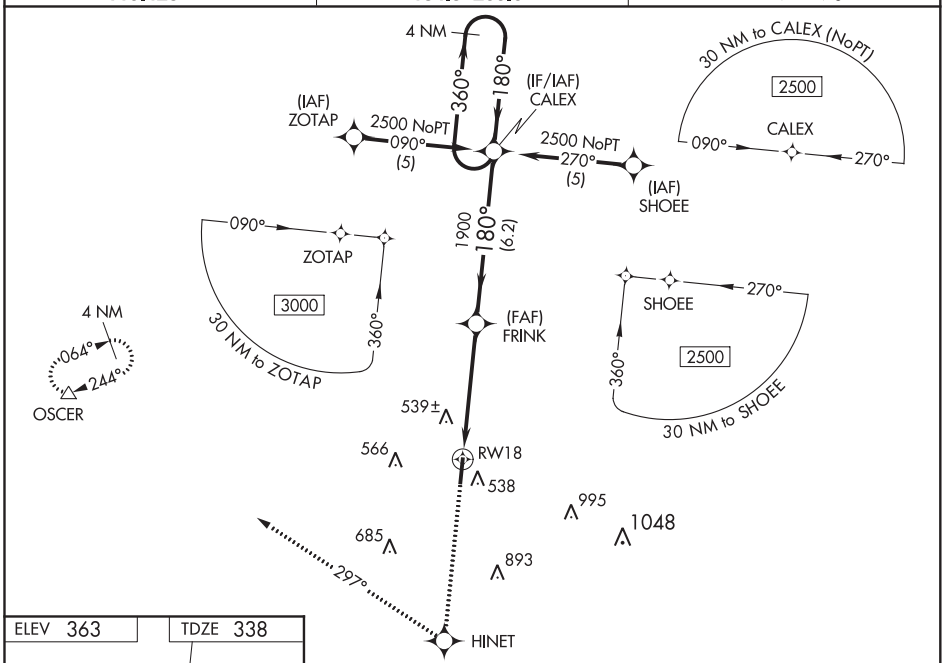
WAAS CH 72811 W18A	APP CRS 180°	Rwy ldg 5005 TDZE 338 Apt Elev 363

RNAV (GPS) RWY 18
HUNTSVILLE MUNI (UTS)

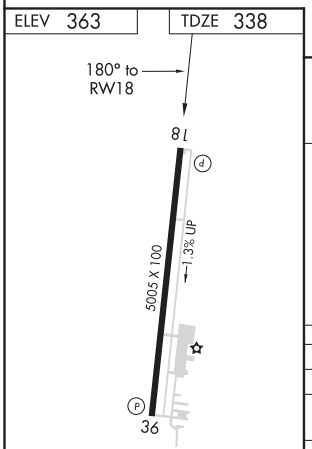
Baro-VNAV NA when using Lone Star Executive altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. VDP NA when using Lone Star Executive altimeter setting. When local altimeter setting not received, use Lone Star Executive altimeter setting and increase all DA 75 feet and all MDA 80 feet; increase LPV and LNAV/VNAV all Cats and Circling Cat C visibility ¼ mile.

MISSED APPROACH: Climb to 4000 direct HINET and right turn via track 297° to OSCER and hold.

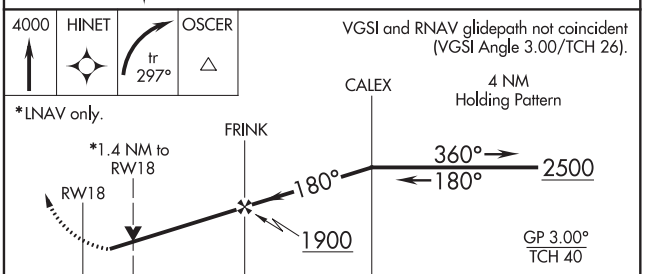
ASOS	HOUSTON CENTER	UNICOM
119.425	134.8 269.6	122.8 (CTAF) L



ELEV 363 TDZE 338



REIL Rwys 18 and 36 L
MIRL Rwy 18-36 L



CATEGORY	A	B	C	D
LPV DA	588-1 250 (300-1)			NA
LNAV/VNAV DA	886-2 548 (600-2)			NA
LNAV MDA	840-1 502 (500-1)		840-1½ 502 (500-1½)	NA
CIRCLING	900-1 537 (600-1)		900-1½ 537 (600-1½)	NA

SC-5, 25 FEB 2021 to 22 APR 2021

HUNTSVILLE, TEXAS

AL-5813 (FAA)

20254

VOR/DME-A

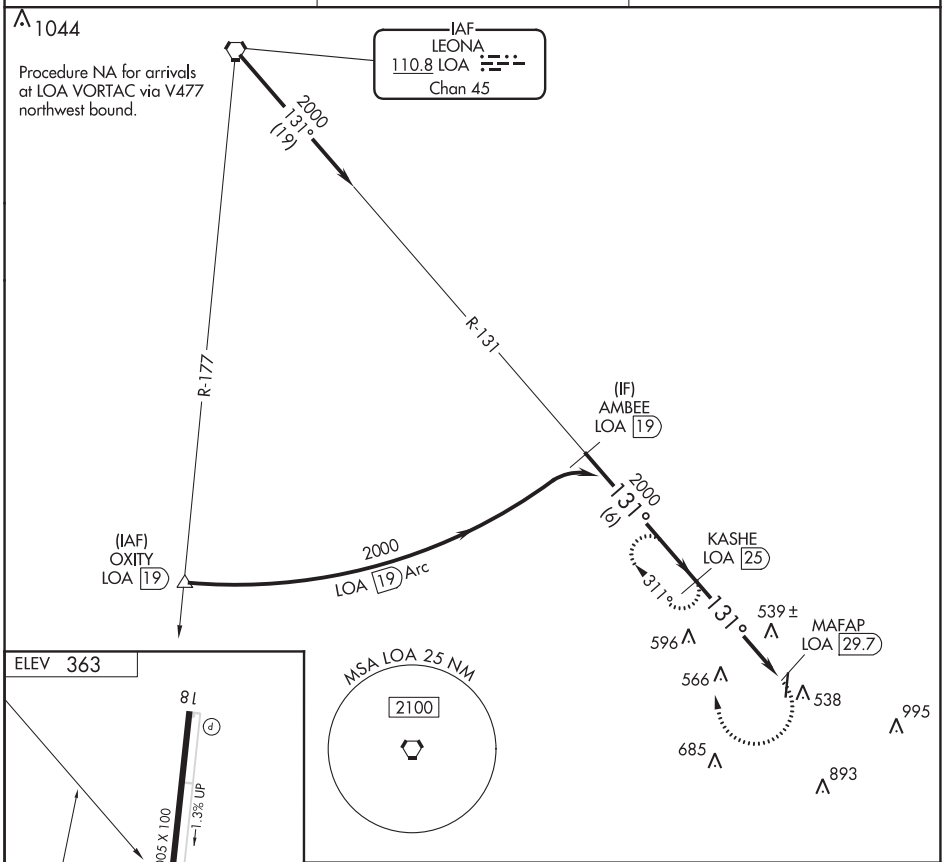
HUNTSVILLE MUNI (UTS)

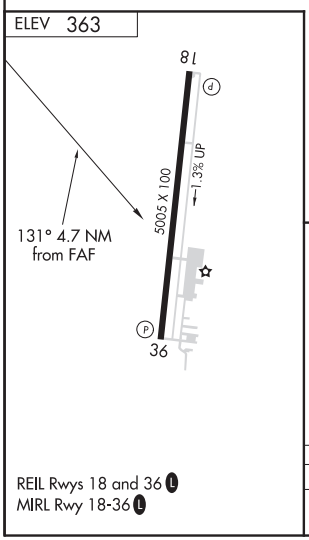
VOR LOA 110.8 Chan 45	APP CRS 131°	Rwy ldg NA TDZE NA Apt Elev 363

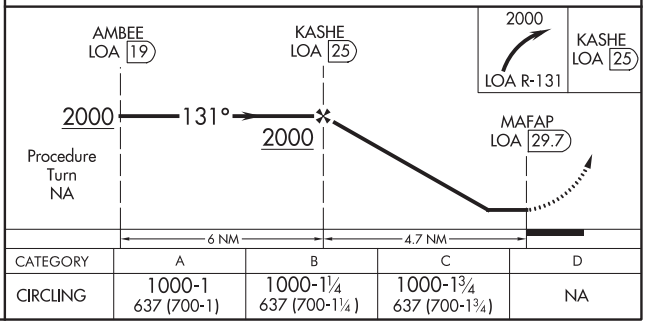
When local altimeter setting not received, use Lone Star Executive altimeter setting and increase MDA 80 feet, increase circling Cat C visibility ¼ mile.

MISSED APPROACH: Climbing right turn to 2000 via LOA VORTAC R-131 to KASHE/25 DME and hold.

ASOS	HOUSTON CENTER	UNICOM
119.425	134.8 269.6	122.8 (CTAF) L







CATEGORY	A	B	C	D
CIRCLING	1000-1 637 (700-1)	1000-1¼ 637 (700-1¼)	1000-1¾ 637 (700-1¾)	NA

HUNTSVILLE, TEXAS
Amdt 6 12MAR09

30°45'N-95°35'W

HUNTSVILLE MUNI (UTS)
VOR/DME-A

SC-5, 25 FEB 2021 to 22 APR 2021

SC-5, 25 FEB 2021 to 22 APR 2021

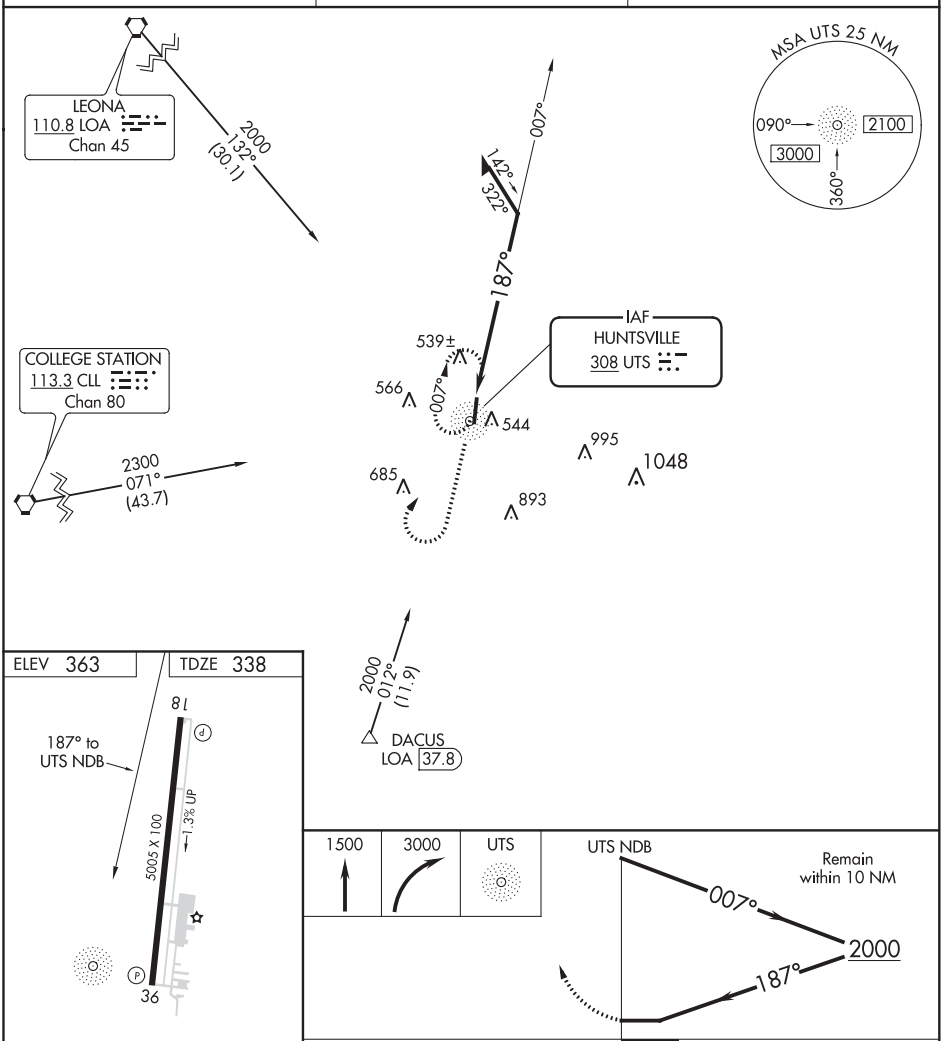
NDB UTS 308	APP CRS 187°	Rwy ldg 5005 TDZE 338 Apt Elev 363

NDB RWY 18
HUNTSVILLE MUNI (UTS)

T NA Visibility reduction by helicopters NA. When local altimeter setting not received use Lone Star Executive altimeter setting and increase all MDA 80 feet, increase S-18 and Circling Cat C visibility ¼ mile.

MISSED APPROACH: Climb to 1500 then climbing right turn to 3000 direct UTS NDB and hold, continue climb-in-hold to 3000.

ASOS	HOUSTON CENTER	UNICOM
119.425	134.8 269.6	122.8 (CTAF) L



CATEGORY	A	B	C	D
S-18	960-1	622 (700-1)	960-1¾ 622 (700-1¾)	NA
CIRCLING	960-1	597 (600-1)	960-1¾ 597 (600-1¾)	NA

REIL Rwys 18 and 36 L
MIRL Rwy 18-36 L

SC-5, 25 FEB 2021 to 22 APR 2021
SC-5, 25 FEB 2021 to 22 APR 2021

JACKSONVILLE, TEXAS | AL-6470 (FAA) | 19115

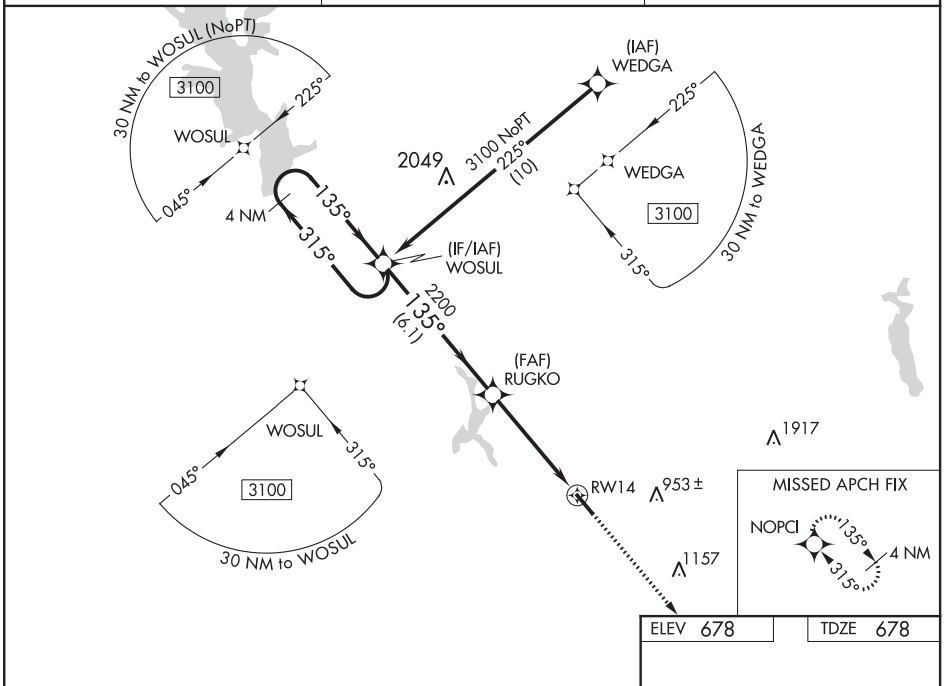
RNAV (GPS) RWY 14
CHEROKEE COUNTY (JSO)

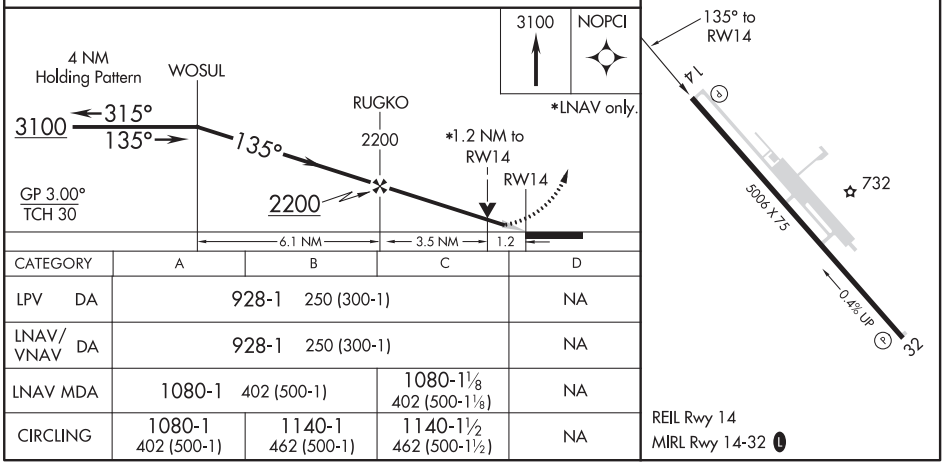
WAAS CH 56429 W14A	APP CRS 135°	Rwy ldg 5006 TDZE 678 Apt Elev 678

Baro-VNAV NA when using Nacogdoches 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 Nacogdoches altimeter setting and increase DA 118 feet, increase MDA 120 feet and LPV visibility all Cats ⅛ mile, LNAV/VNAV visibility all Cats ¼ mile, LNAV visibility Cat C ⅜ mile. DME/DME RNP-0.3 NA. VDP NA with Nacogdoches altimeter setting.

MISSED APPROACH: Climb to 3100 direct NOPCI and hold.

AWOS-3	LONGVIEW APP CON★	UNICOM
119.075	128.75 379.15	122.7 (CTAF) L





CATEGORY	A	B	C	D
LPV DA	928-1 250 (300-1)			NA
LNAV/VNAV DA	928-1 250 (300-1)			NA
LNAV MDA	1080-1 402 (500-1)		1080-1⅛ 402 (500-1⅛)	NA
CIRCLING	1080-1 402 (500-1)	1140-1 462 (500-1)	1140-1½ 462 (500-1½)	NA

SC-5, 25 FEB 2021 to 22 APR 2021

SC-5, 25 FEB 2021 to 22 APR 2021

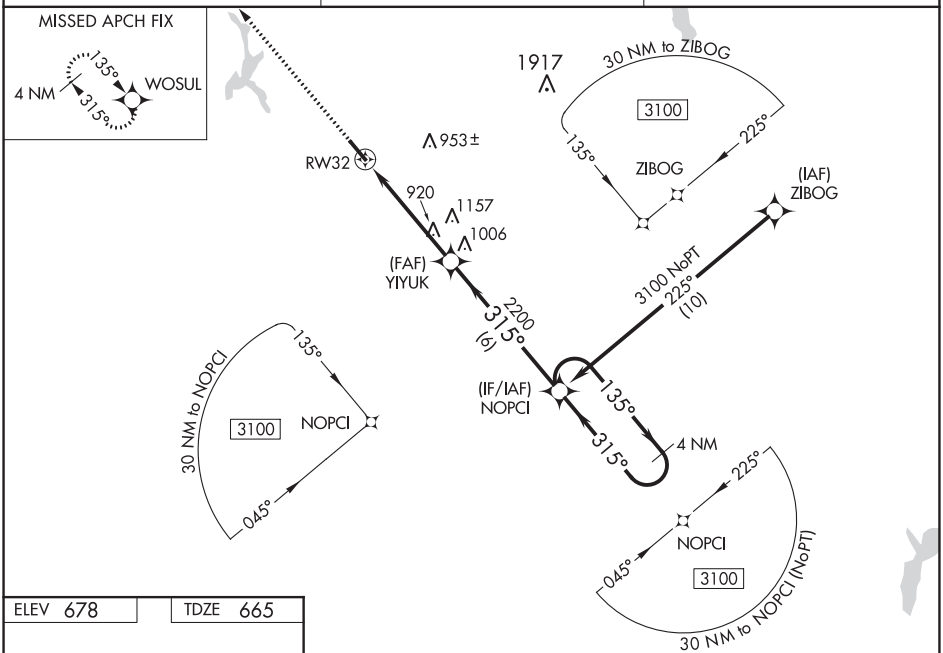
WAAS CH 90327 W32A	APP CRS 315°	Rwy ldg 5006 TDZE 665 Apt Elev 678

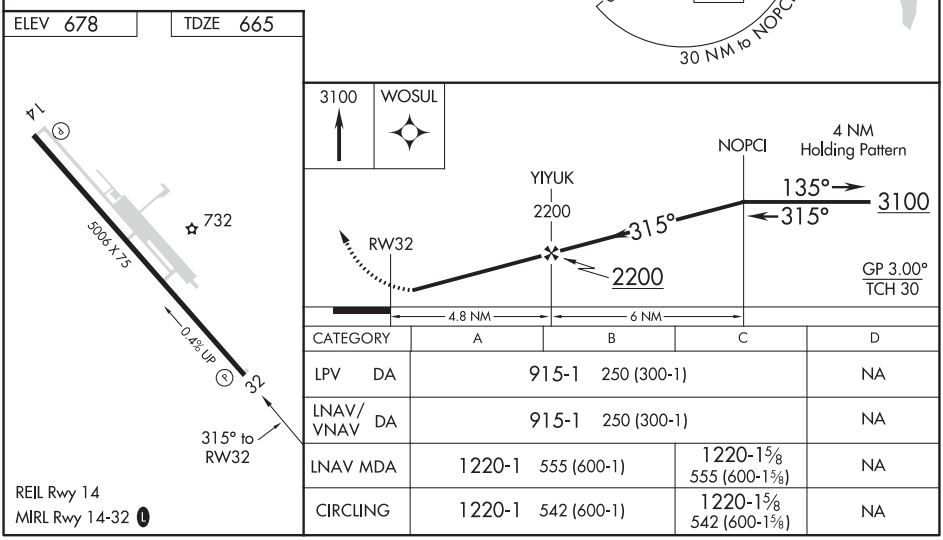
RNAV (GPS) RWY 32
CHEROKEE COUNTY (JSO)

Baro-VNAV NA when using Nacogdoches 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 Nacogdoches altimeter setting and increase DA 118 feet, increase all MDA 120 feet and LPV, LNAV/VNAV visibility all Cats ¼ mile, LNAV and Circling Cat C visibility ⅜ mile. When VGSI inop, Straight-in/Circling Rwy 32 procedure NA at night. DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 3100 direct WOSUL and hold.

AWOS-3	LONGVIEW APP CON ★	UNICOM
119.075	128.75 379.15	122.7 (CTAF) L





CATEGORY	A	B	C	D
LPV DA	915-1 250 (300-1)			NA
LNAV/VNAV DA	915-1 250 (300-1)			NA
LNAV MDA	1220-1 555 (600-1)		1220-1⅝ 555 (600-1⅝)	NA
CIRCLING	1220-1 542 (600-1)		1220-1⅝ 542 (600-1⅝)	NA

SC-5, 25 FEB 2021 to 22 APR 2021

JACKSONVILLE, TEXAS | AL-6470 (FAA) | 20254

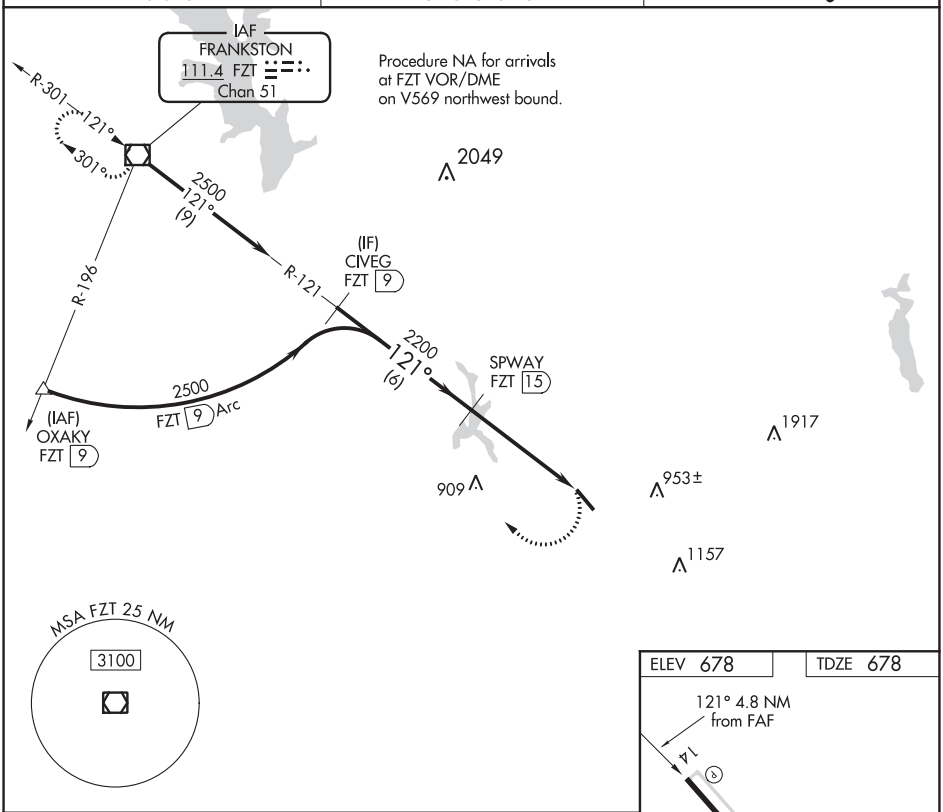
VOR RWY 14
CHEROKEE COUNTY (JSO)

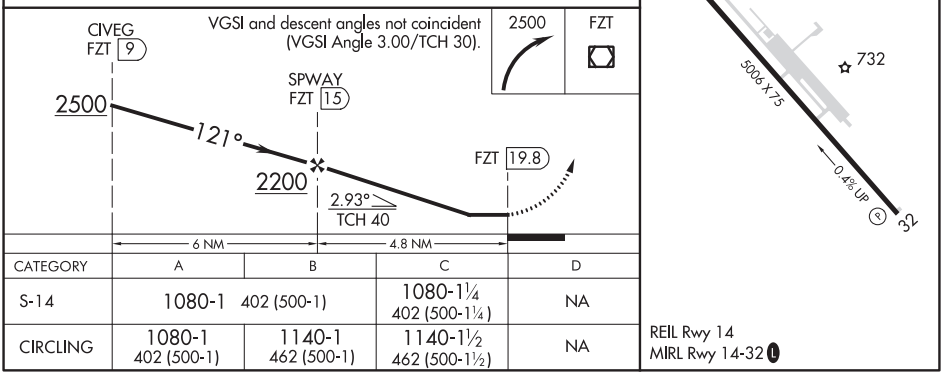
VOR/DME FZT	APP CRS	Rwy ldg	5006
111.4	121°	TDZE	678
Chan 51		Apt Elev	678

DME required.

MISSED APPROACH: Climbing right turn to 2500 direct FZT VOR/DME and hold.

AWOS-3	LONGVIEW APP CON ★	UNICOM
119.075	128.75 379.15	122.7 (CTAF) L





CATEGORY	A	B	C	D
S-14	1080-1 402 (500-1)		1080-1¼ 402 (500-1¼)	NA
CIRCLING	1080-1 402 (500-1)	1140-1 462 (500-1)	1140-1½ 462 (500-1½)	NA

REIL Rwy 14
MIRL Rwy 14-32 L

JACKSONVILLE, TEXAS
Amdt 4B 10SEP20

31°52'N-95°13'W

CHEROKEE COUNTY (JSO)
VOR RWY 14

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SC-5, 25 FEB 2021 to 22 APR 2021

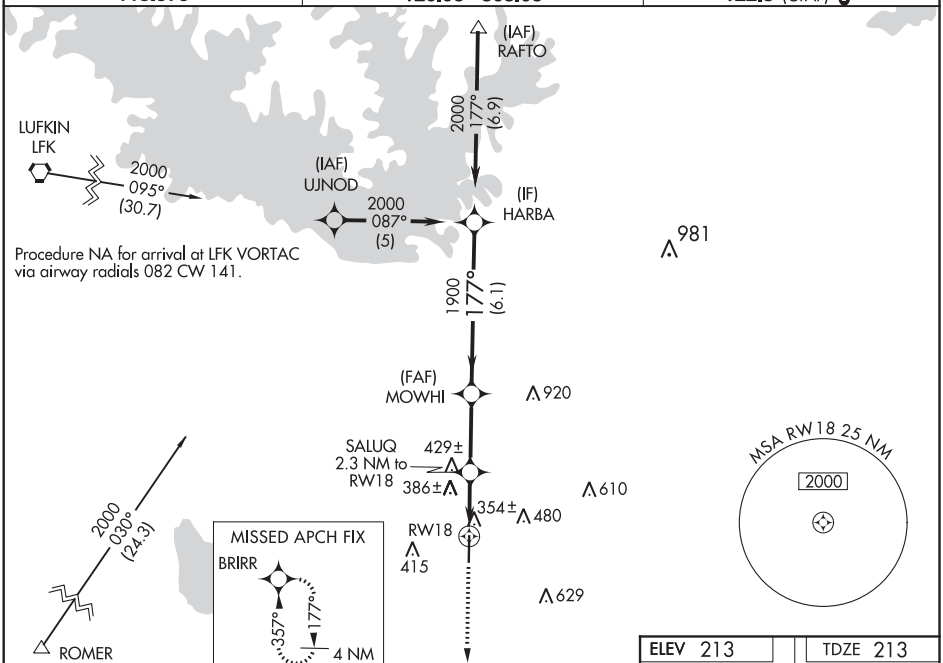
WAAS CH 87013 W18A	APP CRS 177°	Rwy ldg 5500 TDZE 213 Apt Elev 213

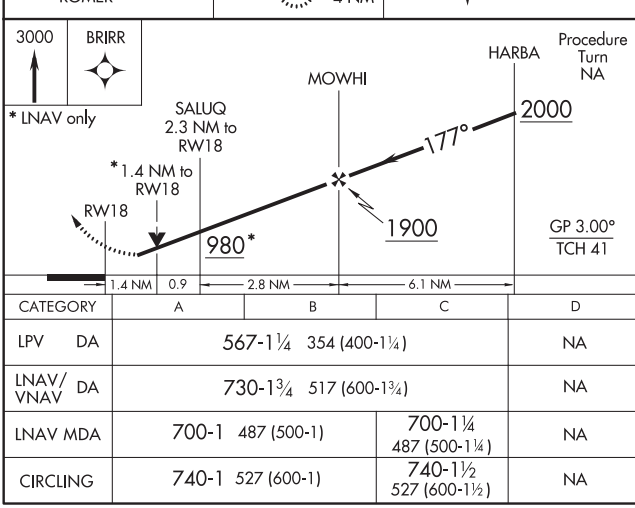
RNAV (GPS) RWY 18
JASPER COUNTY-BELL FIELD (JAS)

Baro-VNAV NA when using De Ridder 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. Visibility reduction by helicopters NA. VDP NA when using De Ridder altimeter setting. When local altimeter setting not received, use De Ridder altimeter setting and increase all DA 85 feet, all MDA 100 feet, increase LPV all Cats visibility ¼ mile, LNAV/VNAV all Cats visibility ½ mile, LNAV Cat C visibility ¼ mile, Circling Cat C ¼ mile.

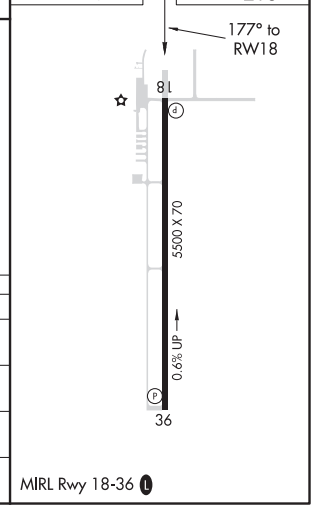
MISSED APPROACH: Climb to 3000 direct BRIRR and hold.

AWOS-3	HOUSTON CENTER	UNICOM
118.375	126.95 363.05	122.8 (CTAF) L





CATEGORY	A	B	C	D
LPV DA	567-1¼ 354 (400-1¼)			NA
LNAV/VNAV DA	730-1¾ 517 (600-1¾)			NA
LNAV MDA	700-1 487 (500-1)		700-1¼ 487 (500-1¼)	NA
CIRCLING	740-1 527 (600-1)		740-1½ 527 (600-1½)	NA



MIRL Rwy 18-36 L

SC-5, 25 FEB 2021 to 22 APR 2021

SC-5, 25 FEB 2021 to 22 APR 2021

JASPER, TEXAS

AL-5773 (FAA)

19115

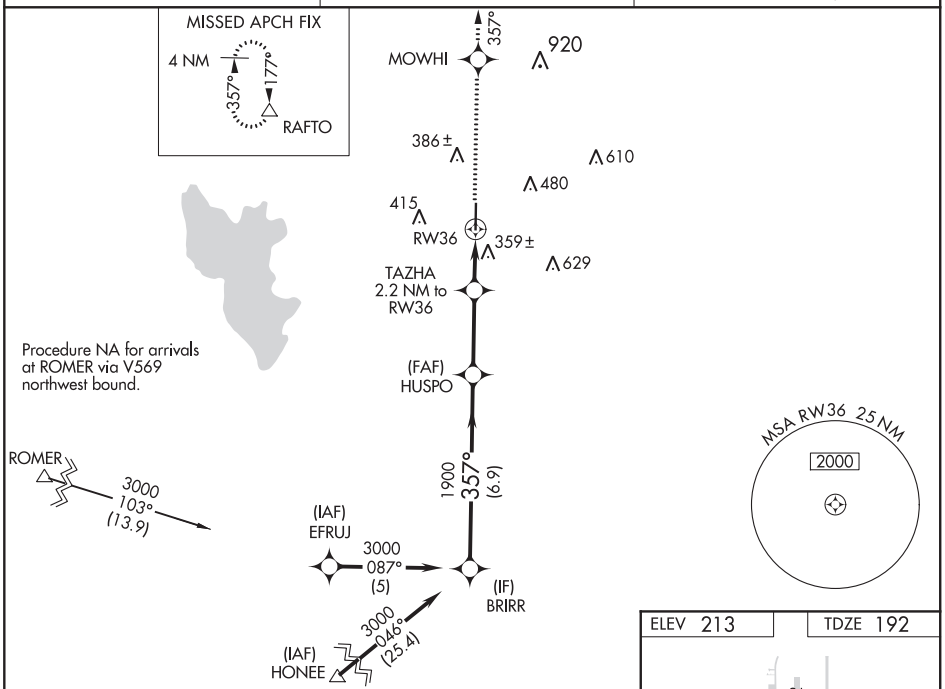
RNAV (GPS) RWY 36
JASPER COUNTY-BELL FIELD (JAS)

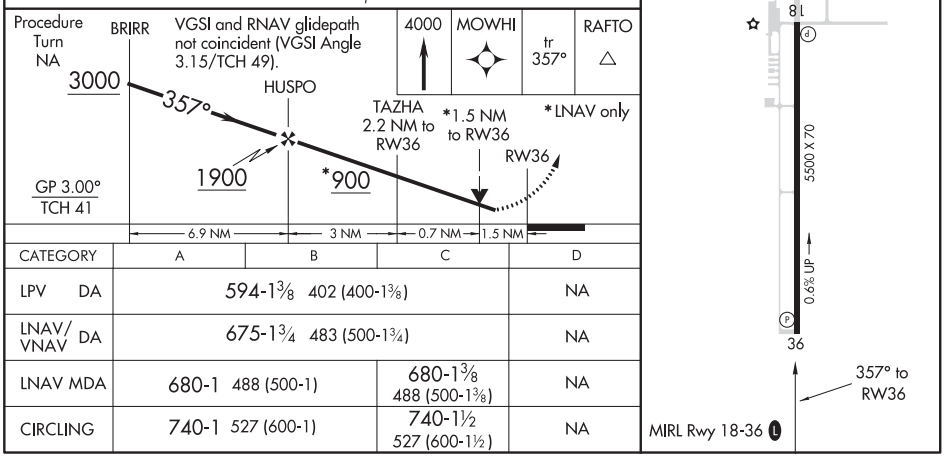
WAAS CH 42813 W36A	APP CRS 357°	Rwy ldg 5500 TDZE 192 Apt Elev 213

Baro-VNAV NA when using De Ridder 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. VDP NA when using De Ridder altimeter setting. When local altimeter setting not received, use De Ridder altimeter setting and increase all DA 85 feet, all MDA 100 feet; increase LPV visibility all Cats and LNAV Cat C ⅜ mile, LNAV/VNAV visibility all Cats and Circling Cat C ¼ mile.

MISSED APPROACH: Climb to 4000 direct MOWHI and via track 357° to RAFTO and hold.

AWOS-3	HOUSTON CENTER	UNICOM
118.375	126.95 363.05	122.8 (CTAF) L





CATEGORY	A	B	C	D
LPV DA	594-1⅜ 402 (400-1⅜)			NA
LNAV/VNAV DA	675-1¾ 483 (500-1¾)			NA
LNAV MDA	680-1 488 (500-1)		680-1⅜ 488 (500-1⅜)	NA
CIRCLING	740-1 527 (600-1)		740-1½ 527 (600-1½)	NA

JASPER, TEXAS

Orig-B 23JUN16

30°53'N-94°02'W

JASPER COUNTY-BELL FIELD (JAS)

RNAV (GPS) RWY 36

SC-5, 25 FEB 2021 to 22 APR 2021

SC-5, 25 FEB 2021 to 22 APR 2021

WAAS CH 58242 W13A	APP CRS 136°	Rwy ldg 4303 TDZE 71 Apt Elev 71

RNAV (GPS) RWY 13
HAWTHORNE FIELD (45R)

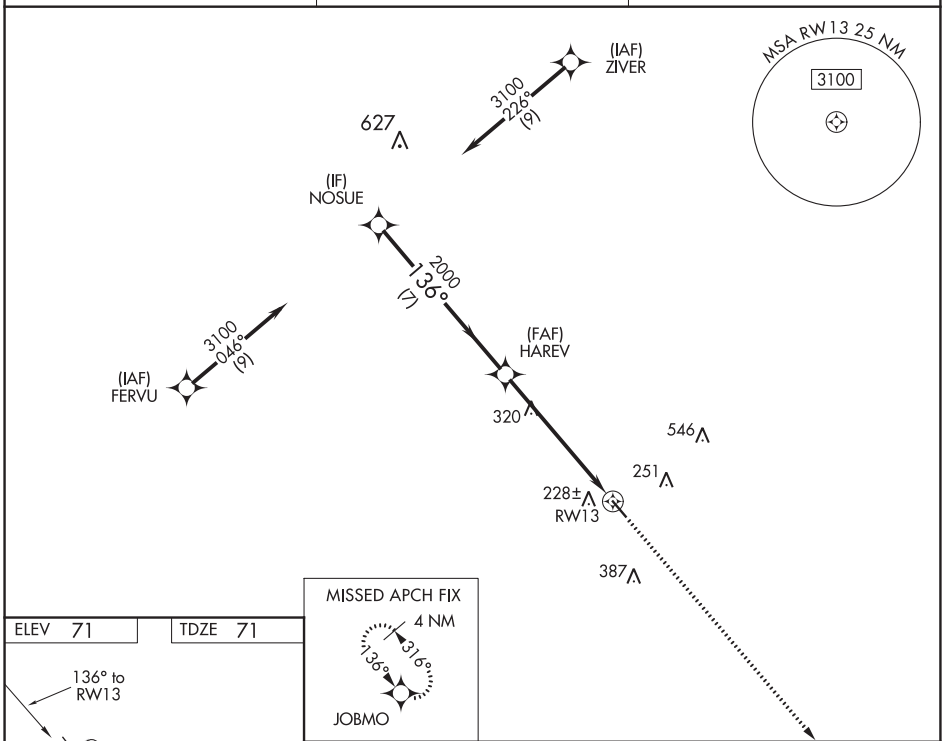
RNP APCH.

NA

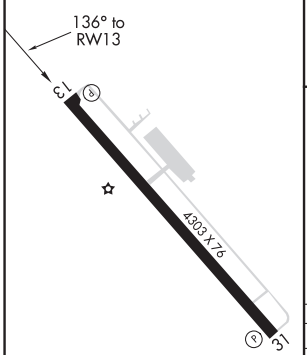
Procedure NA at night. Rwy 13 helicopter visibility reduction below 1 SM NA. Use Beaumont/Port Arthur altimeter setting; when not received use Orange altimeter setting.

MISSED APPROACH: Climb to 2000 direct JOBMO and hold.

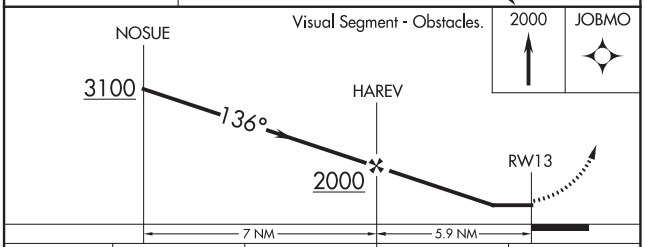
BPT ASOS	HOUSTON APP CON	UNICOM
126.3	121.3 377.1	122.8 (CTAF)



ELEV 71 TDZE 71



MIRL Rwy 13-31



CATEGORY	A	B	C	D
LP MDA	700-1	629 (700-1)	700-1¾ 629 (700-1¾)	NA
LNAV MDA	720-1	649 (700-1)	720-1⅞ 649 (700-1⅞)	NA
CIRCLING	720-1	649 (700-1)	780-2 709 (800-2)	NA

SC-5, 25 FEB 2021 to 22 APR 2021

LA GRANGE, TEXAS | AL-9154 (FAA) | 19311

WAAS CH 42928 W16A	APP CRS 156°	Rwy ldg 5000 TDZE 318 Apt Elev 324

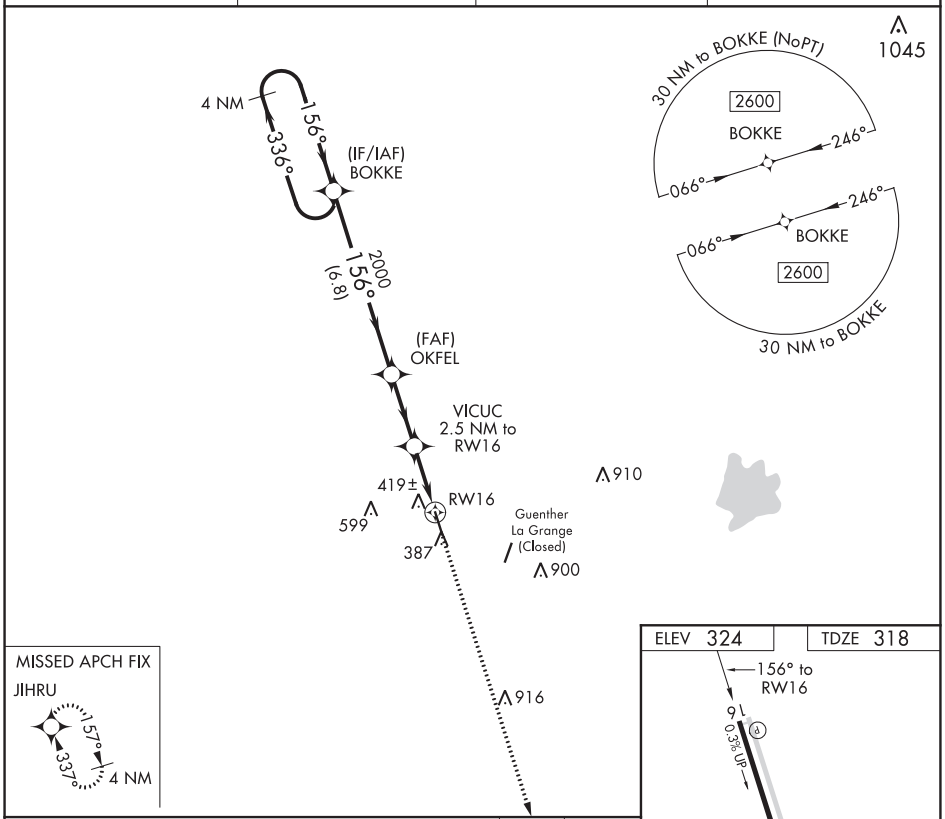
RNAV (GPS) RWY 16
FAYETTE RGNL AIR CENTER (3T5)

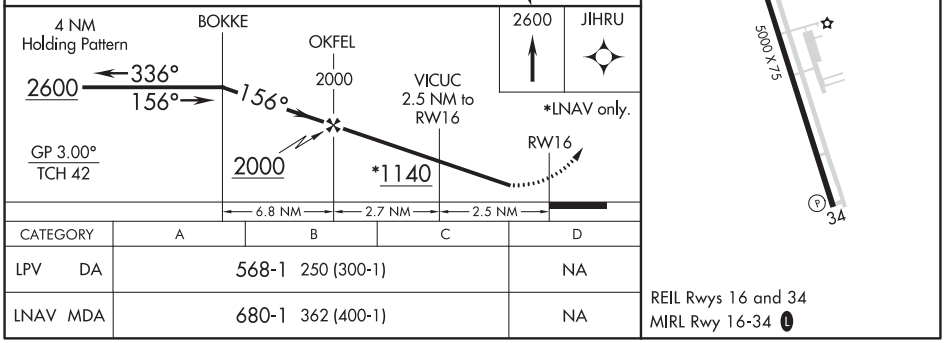
RNP APCH.

When local altimeter setting not received, use Giddings-Lee altimeter setting and increase DA 59 feet, all MDA 60 feet, increase LNAV Cat C visibility ¼ mile. Rwy 16 helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 2600 direct JIHRU and hold.

AWOS-3	AUSTIN APP CON	GCO	UNICOM
124.175	120.875 270.25	121.725	122.7 (CTAF) L





CATEGORY	A	B	C	D
LPV DA	568-1 250 (300-1)			NA
LNAV MDA	680-1 362 (400-1)			NA

LA GRANGE, TEXAS
Amdt 2C 07NOV19

29°54′N-96°57′W

FAYETTE RGNL AIR CENTER (3T5)
RNAV (GPS) RWY 16

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SC-5, 25 FEB 2021 to 22 APR 2021

WAAS CH 86929 W34A	APP CRS 336°	Rwy ldg 5000 TDZE 324 Apt Elev 324

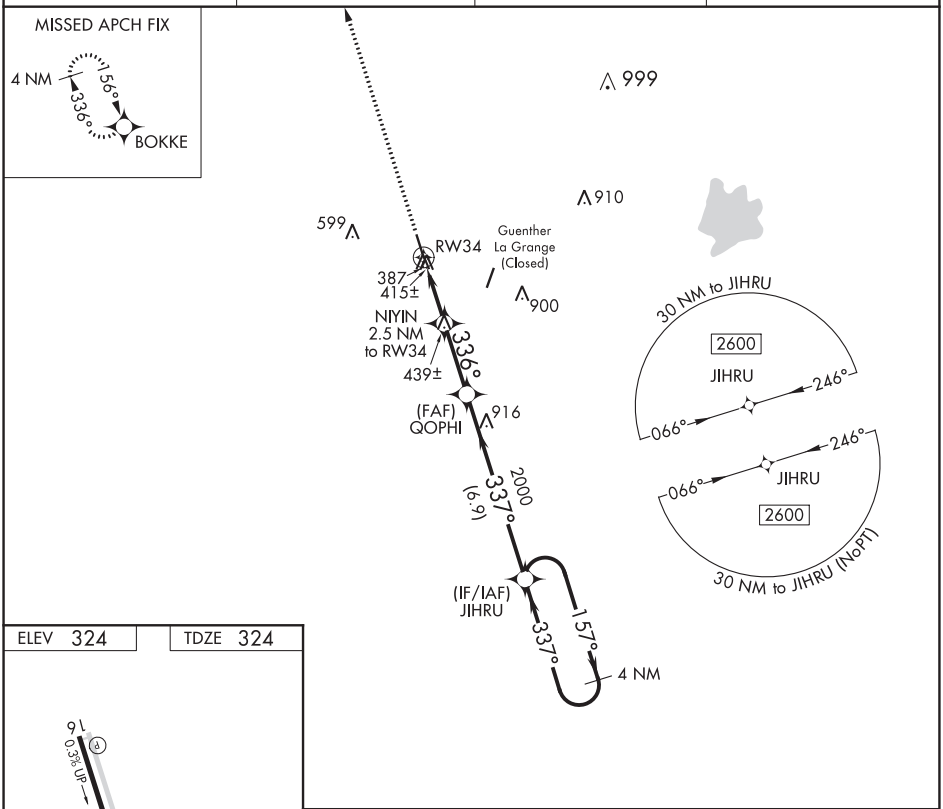
RNAV (GPS) RWY 34
FAYETTE RGNL AIR CENTER (3T5)

RNP APCH.

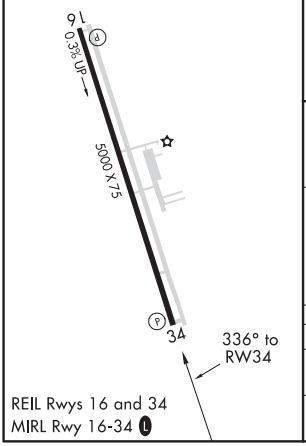
When local altimeter setting not received, use Giddings-Lee altimeter setting and increase all MDA 60 feet, increase LP and LNAV Cat C visibility ¼ mile. Rwy 34 helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 2600 direct BOKKE and hold.

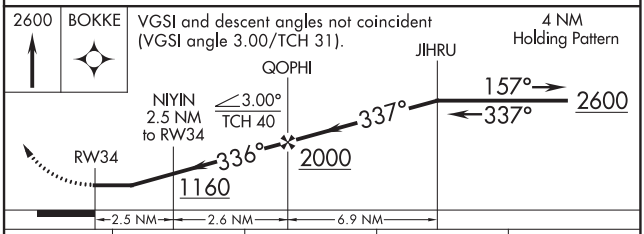
AWOS-3	AUSTIN APP CON	GCO	UNICOM
124.175	120.875 270.25	121.725	122.7 (CTAF) L



ELEV 324 TDZE 324



REIL Rwys 16 and 34
MIRL Rwy 16-34 L



CATEGORY	A	B	C	D
LP MDA	700-1 376 (400-1)			NA
LNAV MDA	740-1 416 (500-1)		740-1⅛ 416 (500-1⅛)	NA

SC-5, 25 FEB 2021 to 22 APR 2021
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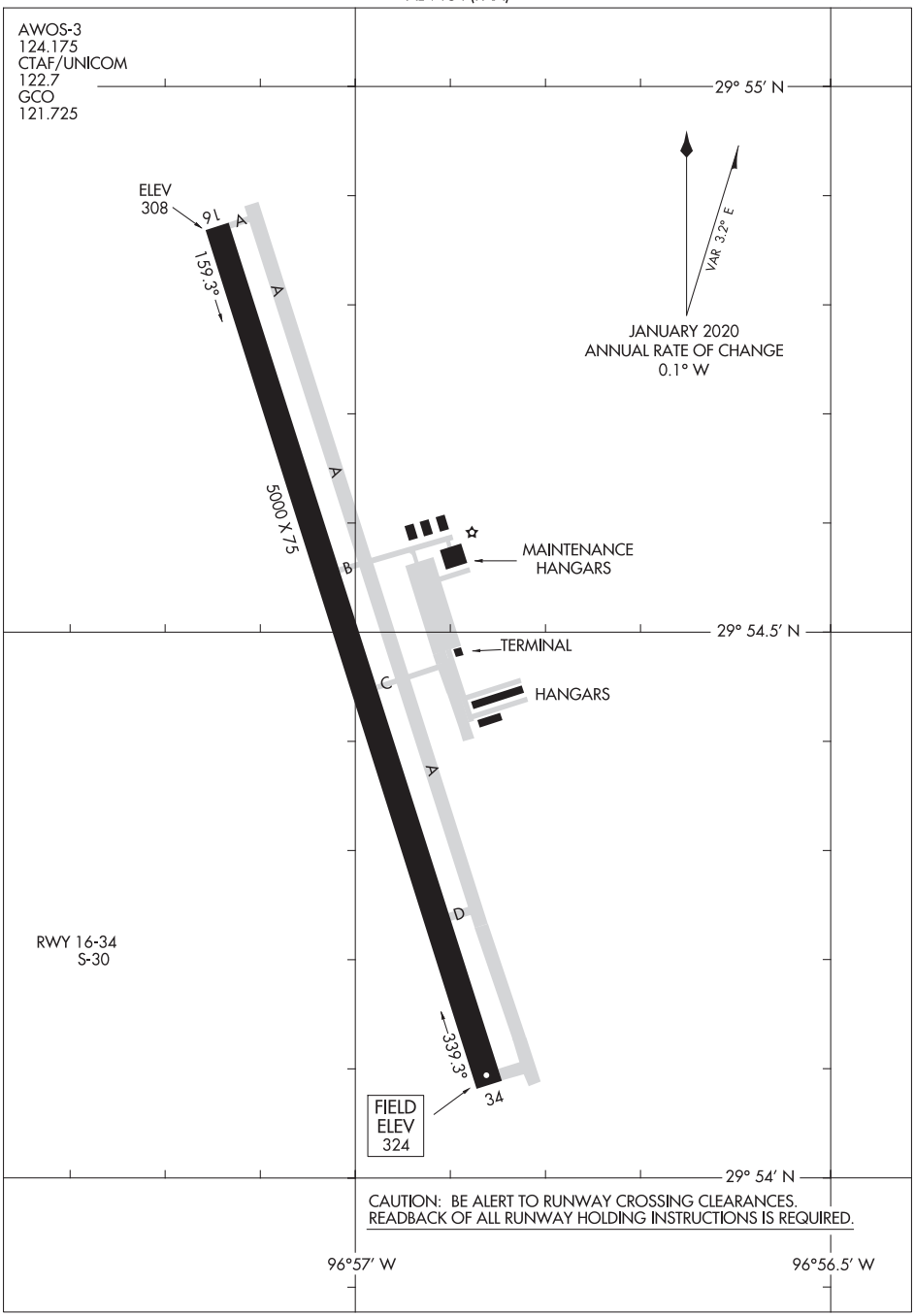
20086

AIRPORT DIAGRAM

FAYETTE RGNL AIR CENTER (3T5)
LA GRANGE, TEXAS

AL-9154 (FAA)



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AIRPORT DIAGRAM
20086
LA GRANGE, TEXAS
FAYETTE RGNL AIR CENTER (3T5)

WAAS CH 93928 W30A	APP CRS 301°	Rwy ldg 3760 TDZE 25 Apt Elev 25

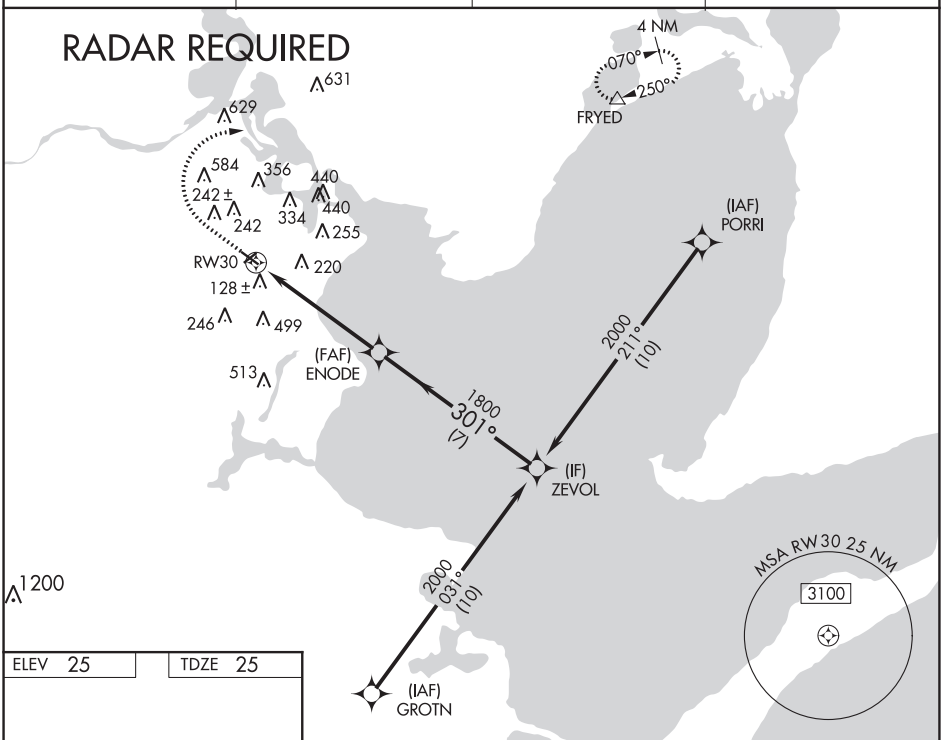
RNAV (GPS) RWY 30
LA PORTE MUNI (T41)

RNP APCH.

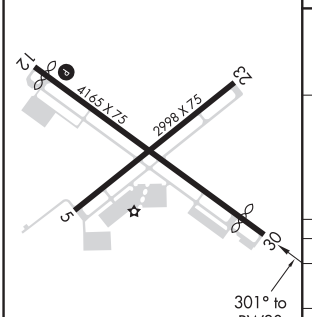
Baro-VNAV NA. Use Ellington altimeter setting. Rwy 30 helicopter visibility reduction below ¾ SM NA. Circling Rwy 5, 23, NA at night.

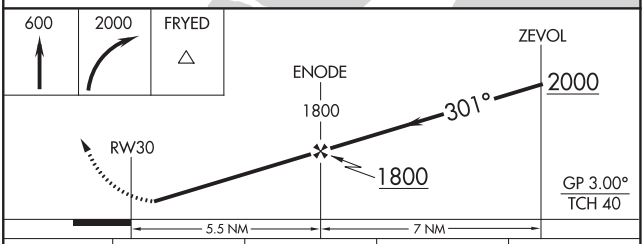
MISSED APPROACH: Climb to 600 then climbing right turn to 2000 direct FRYED and hold.

AW0S-3PT	HOUSTON APP CON	CLNC DEL	UNICOM
120.275	134.45 284.0	125.6	122.7 (CTAF) L



ELEV 25 TDZE 25





CATEGORY		A	B	C	D
LPV	DA	291-1 266 (300-1)			NA
LNAV/VNAV	DA	454-1¼ 429 (500-1¼)			NA
LNAV	MDA	520-1 495 (500-1)		520-1⅜ 495 (500-1⅜)	NA
CIRCLING		600-1 575 (600-1)	620-1 595 (600-1)	620-1½ 595 (600-1½)	NA

REIL Rwy 12 L
MIRL Rwys 5-23 and 12-30 L

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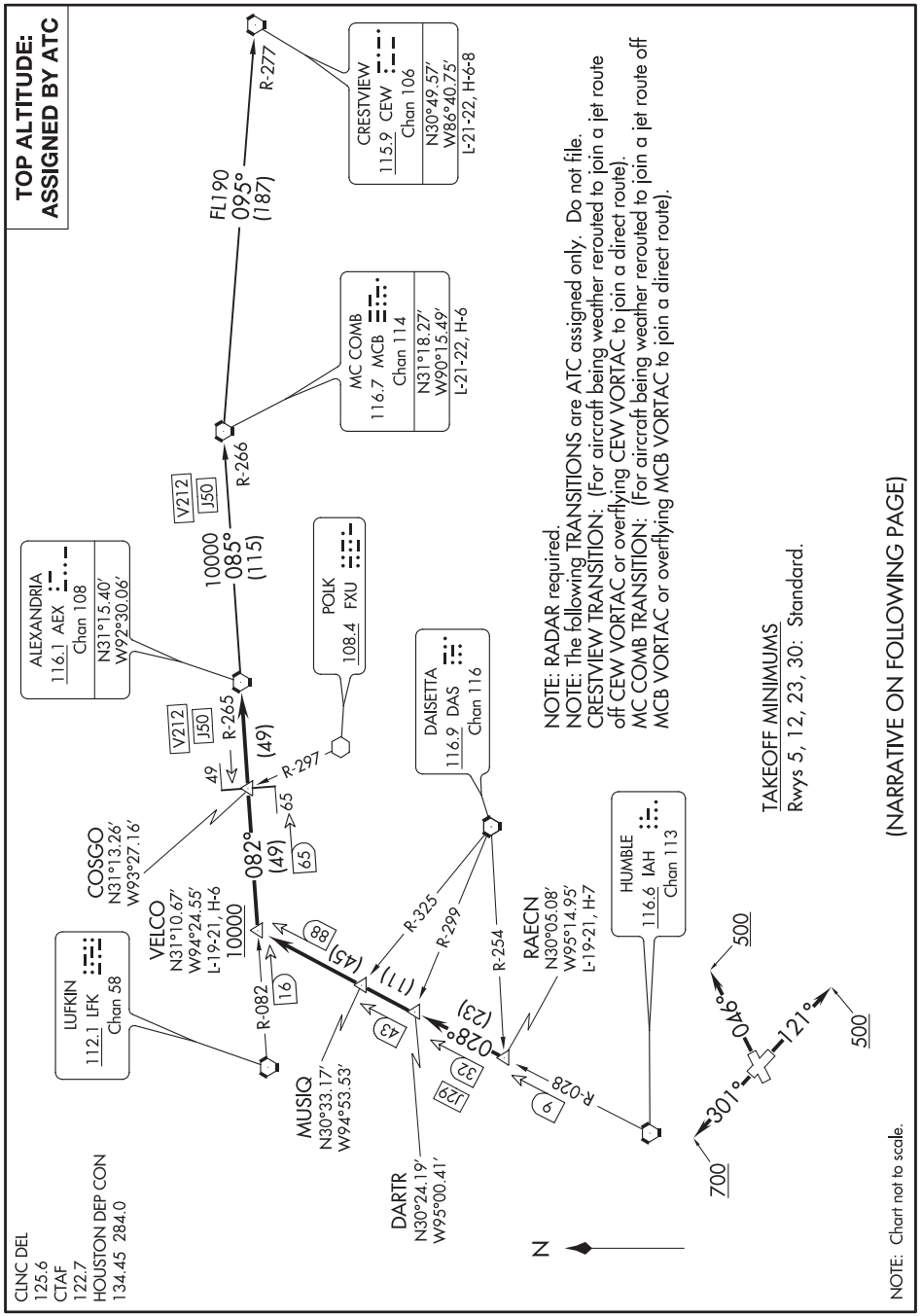
(AEX2.AEX) 19339 AL-5433 (FAA)

ALEXANDRIA TWO DEPARTURE

LA PORTE MUNI (T41)
LA PORTE, TEXAS



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ALEXANDRIA TWO DEPARTURE

(AEX2.AEX) 05DEC19

LA PORTE, TEXAS
LA PORTE MUNI (T41)

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 5: Climb heading 046° to 500 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to RAECN INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .
TAKEOFF RWY 12: Climb heading 121° to 500 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to RAECN INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .
TAKEOFF RWY 23: When entering controlled airspace, climb on assigned heading for RADAR vectors to RAECN INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .
TAKEOFF RWY 30: Climb heading 301° to 700 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to RAECN INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .

. . . .on IAH R-028 to VELCO INT, cross VELCO INT at or above 10000, then right turn on LFK R-082 and AEX R-265 to AEX VORTAC.

CRESTVIEW TRANSITION (AEX2.CEW): From over AEX VORTAC on AEX R-085 and MCB R-266 to MCB VORTAC, then on MCB R-095 and CEW R-277 to CEW VORTAC.

MC COMB TRANSITION (AEX2.MCB): From over AEX VORTAC on AEX R-085 and MCB R-266 to MCB VORTAC.

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(BLTWY6.BLTWY) 19115

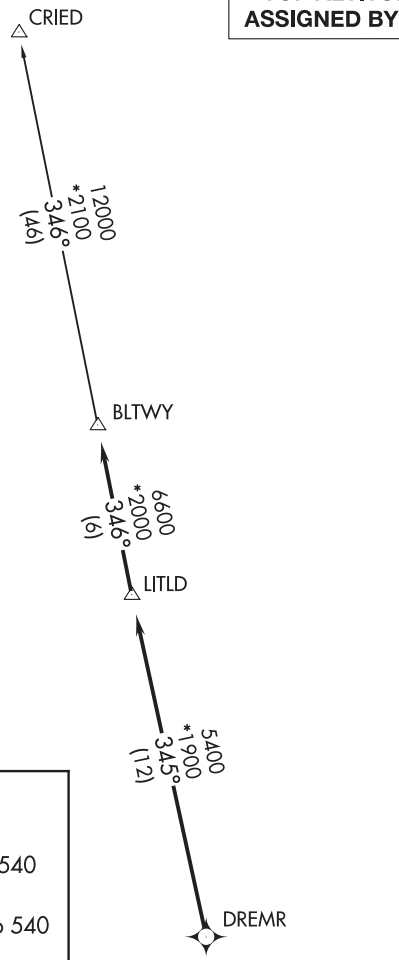
AL-5433 (FAA)

LA PORTE MUNI (T41)
LA PORTE, TEXAS

BLTWY SIX DEPARTURE (RNAV)

CLNC DEL
125.6
CTAF
122.7
HOUSTON DEP CON
134.45 284.0

TOP ALTITUDE: ASSIGNED BY ATC



NOTE: RADAR required.

NOTE: DME/DME/IRU or GPS required.

NOTE: RNAV 1.

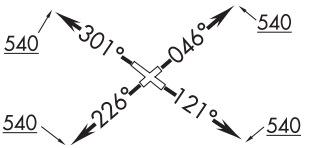
TAKEOFF MINIMUMS
Rwys 5, 12, 23, 30:
Standard with minimum climb of 500′ per NM to 540.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 5: Climb on heading 046° to 540 for RADAR vectors to DREMR, thence . . . .
TAKEOFF RWY 12: Climb on heading 121° to 540 for RADAR vectors to DREMR, thence . . . .
TAKEOFF RWY 23: Climb on heading 226° to 540 for RADAR vectors to DREMR, thence . . . .
TAKEOFF RWY 30: Climb on heading 301° to 540 for RADAR vectors to DREMR, thence . . . .

...on track 345° to LITLD, then on track 346° to BLTWY, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

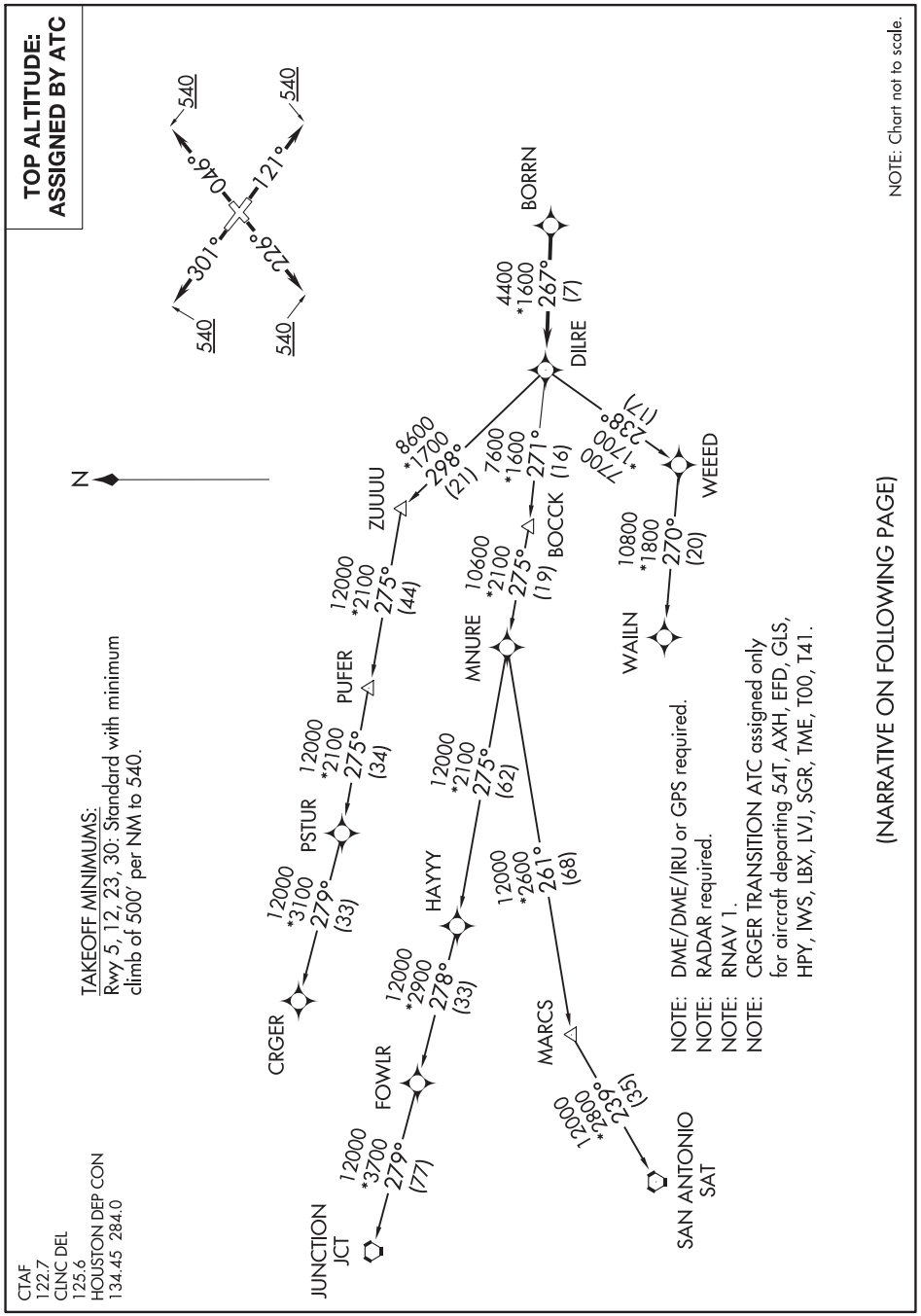
CRIED TRANSITION (BLTWY6.CRIED)



NOTE: Chart not to scale.

BORRN FOUR DEPARTURE (RNAV)

LA PORTE, TEXAS



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DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 5: Climb on heading 046° to 540, for RADAR vectors to BORRN, thence. . . .
TAKEOFF RWY 12: Climb on heading 121° to 540, for RADAR vectors to BORRN, thence. . . .
TAKEOFF RWY 23: Climb on heading 226° to 540, for RADAR vectors to BORRN, thence. . . .
TAKEOFF RWY 30: Climb on heading 301° to 540, for RADAR vectors to BORRN, thence. . . .

. . . .on track 267° to DILRE, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

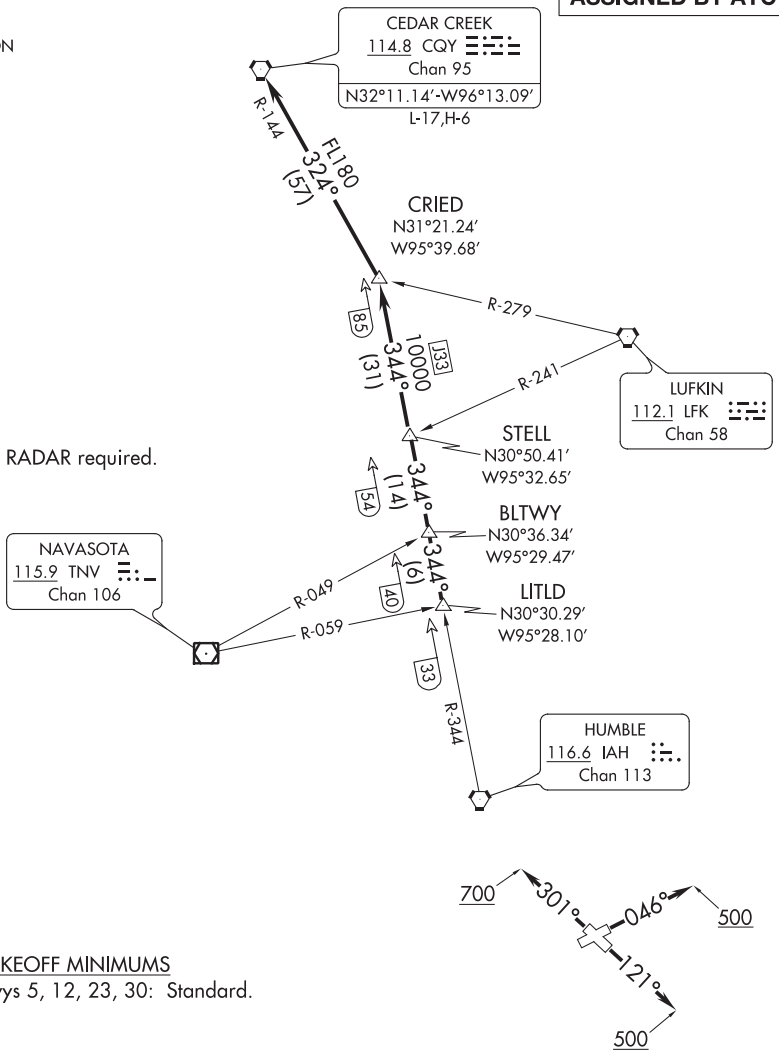
CRGER TRANSITION (BORRN4.CRGER)
JUNCTION TRANSITION (BORRN4.JCT)
MNURE TRANSITION (BORRN4.MNURE)
SAN ANTONIO TRANSITION (BORRN4.SAT)
WAILN TRANSITION (BORRN4.WAILN)

CRIED NINE DEPARTURE

AL-5433 (FAA)

CLNC DEL
125.6
CTAF
122.7
HOUSTON DEP CON
134.45 284.0

TOP ALTITUDE: ASSIGNED BY ATC



NOTE: RADAR required.

TAKEOFF MINIMUMS
Rwys 5, 12, 23, 30: Standard.

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

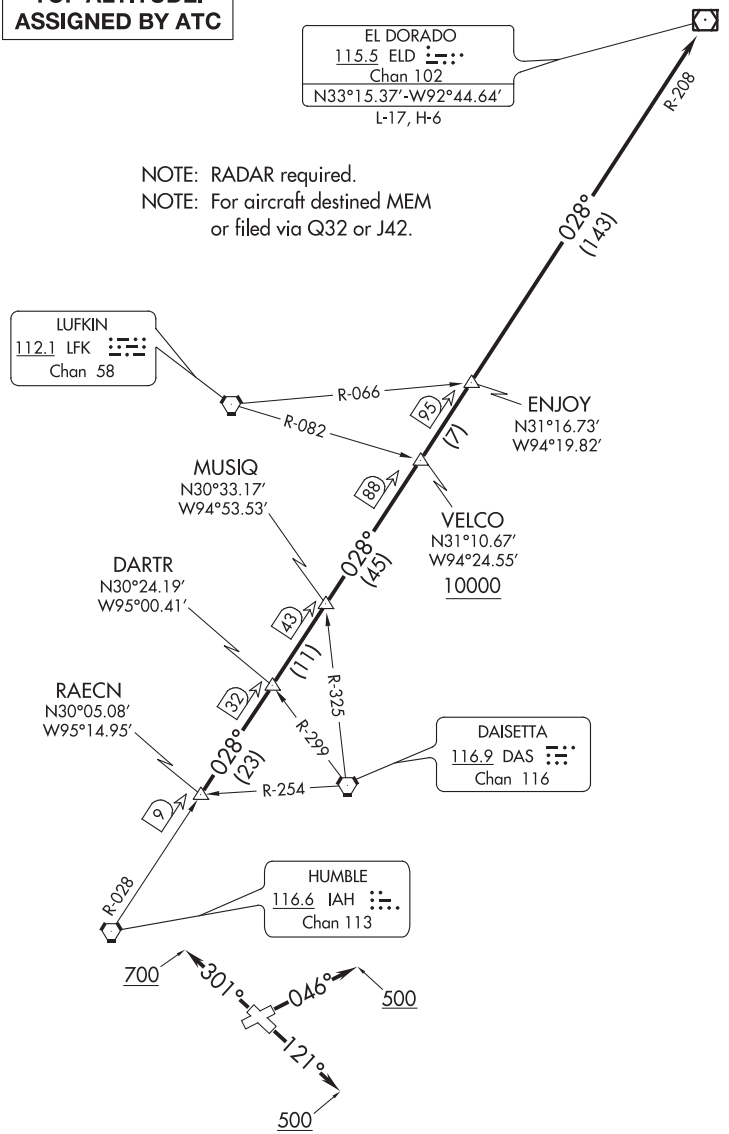
TAKEOFF RWY 5: Climb heading 046° to 500 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to LITLD INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .
TAKEOFF RWY 12: Climb heading 121° to 500 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to LITLD INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .
TAKEOFF RWY 23: When entering controlled airspace, climb on assigned heading for RADAR vectors to LITLD INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .
TAKEOFF RWY 30: Climb heading 301° to 700 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to LITLD INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .

. . . . on IAH R-344 to STELL INT, then on IAH R-344 to CRIED INT then left turn on CQY R-144 to CQY VORTAC.

EL DORADO NINE DEPARTURE

CLNC DEL
125.6
CTAF
122.7
HOUSTON DEP CON
134.45 284.0

TOP ALTITUDE: ASSIGNED BY ATC



TAKEOFF MINIMUMS
Rwys 5, 12, 23, 30: Standard.

NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

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DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 5: Climb heading 046° to 500 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to RAECN INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .
TAKEOFF RWY 12: Climb heading 121° to 500 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to RAECN INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .
TAKEOFF RWY 23: When entering controlled airspace, climb on assigned heading for RADAR vectors to RAECN INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .
TAKEOFF RWY 30: Climb heading 301° to 700 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to RAECN INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .

. . . .on IAH R-028 and the ELD R-208 to ELD VOR/DME, cross VELCO INT at or above 10000.

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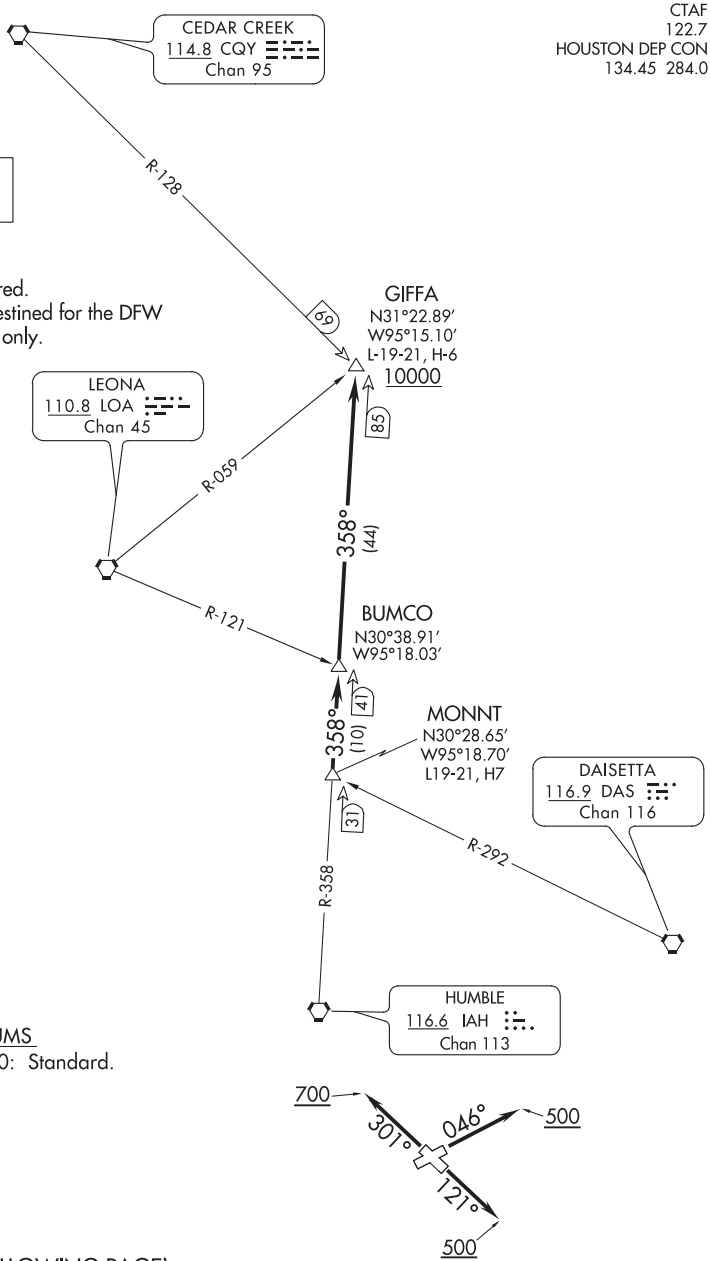
GIFFA NINE DEPARTURE

AL-5433 (FAA)

CLNC DEL
125.6
CTAF
122.7
HOUSTON DEP CON
134.45 284.0

TOP ALTITUDE: ASSIGNED BY ATC

NOTE: RADAR required.
NOTE: For aircraft destined for the DFW terminal area only.



TAKEOFF MINIMUMS
Rwys 5, 12, 23, 30: Standard.

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.

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SC-5, 25 FEB 2021 to 22 APR 2021

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 5: Climb heading 046° to 500 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to MONNT INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .
TAKEOFF RWY 12: Climb heading 121° to 500 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to MONNT INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .
TAKEOFF RWY 23: When entering controlled airspace, climb on assigned heading for RADAR vectors to MONNT INT. Maintain ATC assigned altitude . Expect filed altitude 10 minutes after departure,thence. . . .
TAKEOFF RWY 30: Climb heading 301° to 700 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to MONNT INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .

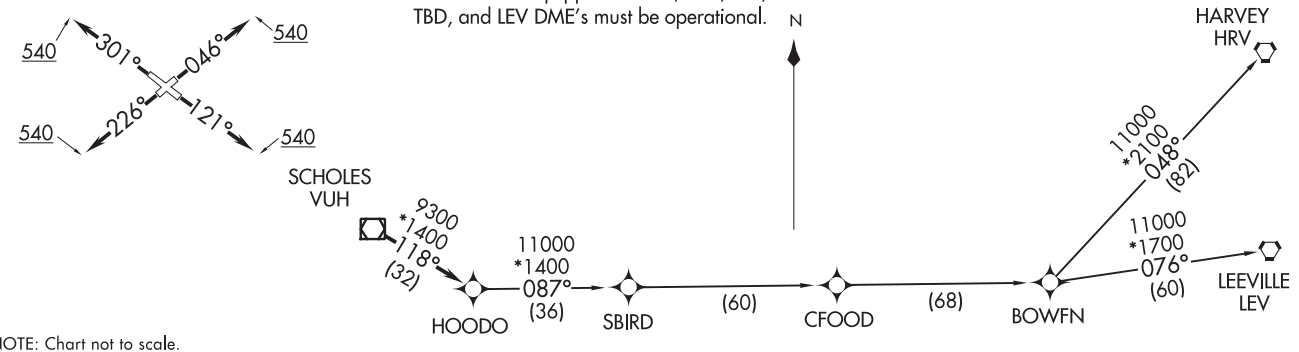
. . . . on IAH R-358 to cross GIFFA INT at or above 10000.

CLNC DEL
125.6
CTAF
122.7
HOUSTON DEP CON
134.45 284.0

NOTE: RNAV 1.
NOTE: RADAR required.
NOTE: ATC assigned only.
NOTE: DME/DME/IRU or GPS required.
NOTE: For non-GPS equipped aircraft, LCH, LLA, TBD, and LEV DME's must be operational.

TOP ALTITUDE: ASSIGNED BY ATC

TAKEOFF MINIMUMS
Rwys 5, 12, 23, 30: Standard with a minimum climb of 500' per NM to 540.



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 5: Climb heading 046° to 540, for RADAR vectors to VUH VOR/DME, thence . . . .
TAKEOFF RUNWAY 12: Climb heading 121° to 540, for RADAR vectors to VUH VOR/DME, thence . . . .
TAKEOFF RUNWAY 23: Climb heading 226° to 540, for RADAR vectors to VUH VOR/DME, thence . . . .
TAKEOFF RUNWAY 30: Climb heading 301° to 540, for RADAR vectors to VUH VOR/DME, thence . . . .

. . . . on track 118° to HOODO, then on (transition). Maintain ATC assigned altitude.
Expect filed altitude 10 minutes after departure.

BOWFN TRANSITION (HOODO6.BOWFN)
CFOOD TRANSITION (HOODO6.CFOOD)
HARVEY TRANSITION (HOODO6.HRV)
LEEVILLE TRANSITION (HOODO6.LEV)
SBIRD TRANSITION (HOODO6.SBIRD)

(INDIE7.INDIE) 19115

INDIE SEVEN DEPARTURE (RNAV)

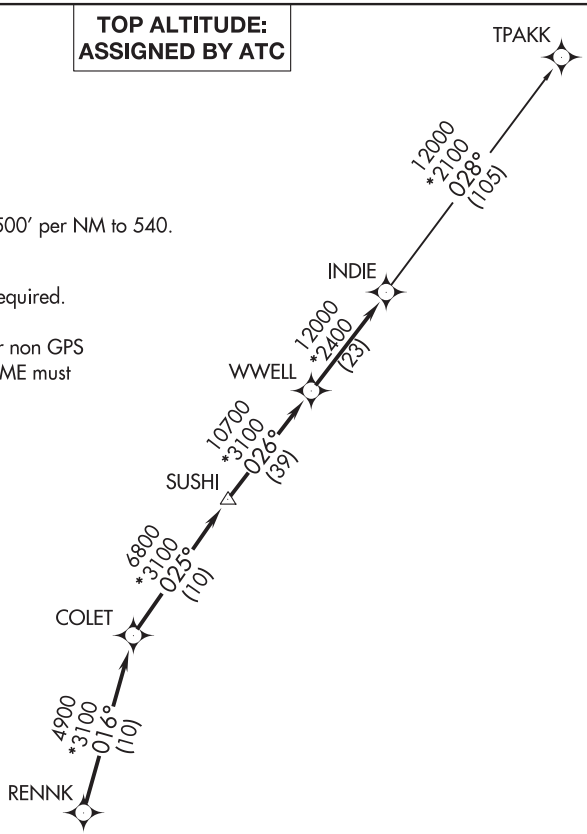
LA PORTE MUNI (T41)
LA PORTE, TEXAS

CLNC DEL
125.6
CTAF
122.7
HOUSTON DEP CON
134.45 284.0

TOP ALTITUDE: ASSIGNED BY ATC

TAKEOFF MINIMUMS
Rwys 5, 12, 23, 30:
Standard with minimum climb of 500′ per NM to 540.

NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV 1.
NOTE: TPAKK TRANSITION: For non GPS equipped aircraft TNV DME must be operational.

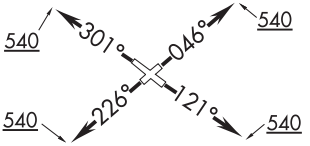


DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 5: Climb heading 046° to 540 for RADAR vectors to RENNK, thence . . . .
TAKEOFF RWY 12: Climb heading 121° to 540 for RADAR vectors to RENNK, thence . . . .
TAKEOFF RWY 23: Climb heading 226° to 540 for RADAR vectors to RENNK, thence . . . .
TAKEOFF RWY 30: Climb heading 301° to 540 for RADAR vectors to RENNK, thence . . . .

. . . . on track 016° to COLET, then on track 025° to SUSHI, then on track 026° to WWELL, then on track 026° to INDIE, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

TPAKK TRANSITION (INDIE7.TPAKK)



NOTE: Chart not to scale.

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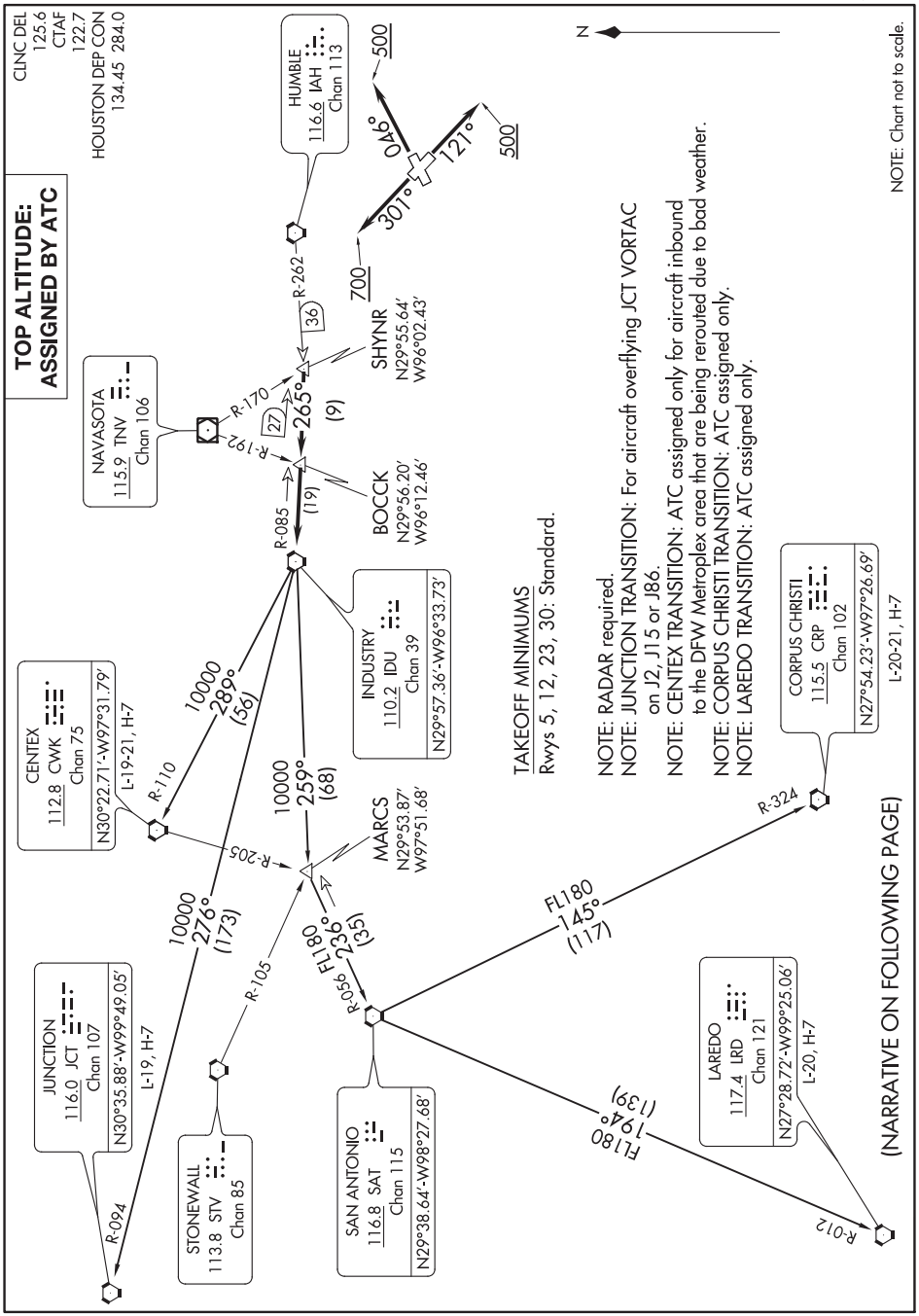
CLNC DEL 125.6
CTAF 122.7
HOUSTON DEP CON 134.45 284.0
TOP ALTITUDE: ASSIGNED BY ATC
HUMBLE
116.6 IAH
Chan 113
500
046°
121°
500
301°
700
R-262
36
SHYNR
N29°55.64′
W96°02.43′
NAVASOTA
115.9 TNV
Chan 106
R-170
R-192
27
265°
(9)
BOCCK
N29°56.20′
W96°12.46′
R-085
(19)
INDUSTRY
110.2 IDU
Chan 39
N29°57.36′-W96°33.73′
CENTEX
112.8 CWK
Chan 75
N30°22.71′-W97°31.79′
L-19-21, H-7
R-110
10000
289°
(56)
10000
259°
(68)
MARCS
N29°53.87′
W97°51.68′
R-205
10000
276°
(173)
R-105
FL180
236°
(35)
R-056
JUNCTION
116.0 JCT
Chan 107
N30°35.88′-W99°49.05′
L-19, H-7
R-094
STONEWALL
113.8 STV
Chan 85
SAN ANTONIO
116.8 SAT
Chan 115
N29°38.64′-W98°27.68′
FL180
194°
(139)
R-012
LAREDO
117.4 LRD
Chan 121
N27°28.72′-W99°25.06′
L-20, H-7
FL180
145°
(117)
R-324
CORPUS CHRISTI
115.5 CRP
Chan 102
N27°54.23′-W97°26.69′
L-20-21, H-7
TAKEOFF MINIMUMS
Rwys 5, 12, 23, 30: Standard.
NOTE: RADAR required.
NOTE: JUNCTION TRANSITION: For aircraft overflying JCT VORTAC on J2, J15 or J86.
NOTE: CENTEX TRANSITION: ATC assigned only for aircraft inbound to the DFW Metroplex area that are being rerouted due to bad weather.
NOTE: CORPUS CHRISTI TRANSITION: ATC assigned only.
NOTE: LAREDO TRANSITION: ATC assigned only.
N
NOTE: Chart not to scale.
(NARRATIVE ON FOLLOWING PAGE)

(IDU9.IDU) 18032

INDUSTRY NINE DEPARTURE

AL-5433 (FAA)

LA PORTE MUNI (T41)
LA PORTE, TEXAS

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 5: Climb heading 046° to 500 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to SHYNR INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .
TAKEOFF RWY 12: Climb heading 121° to 500 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to SHYNR INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .
TAKEOFF RWY 23: When entering controlled airspace, climb on assigned heading for RADAR vectors to SHYNR INT. Maintain ATC assigned altitude . Expect filed altitude 10 minutes after departure,thence. . . .
TAKEOFF RWY 30: Climb heading 301° to 700 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to SHYNR INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .
. . . . on IDU R-085 to BOCCK INT, then on IDU R-085 to IDU VORTAC.

CENTEX TRANSITION (IDU9.CWK): From over IDU VORTAC on IDU R-289 and CWK R-110 to CWK VORTAC.
CORPUS CHRISTI TRANSITION (IDU9.CRP): From over IDU VORTAC on IDU R-259 to MARCS INT, then on SAT R-056 to SAT VORTAC, then on SAT R-145 and CRP R-324 to CRP VORTAC.
JUNCTION TRANSITION (IDU9.JCT): From over IDU VORTAC on IDU R-276 and JCT R-094 to JCT VORTAC.
LAREDO TRANSITION (IDU9.LRD): From over IDU VORTAC on IDU R-259 to MARCS INT, then on SAT R-056 to SAT VORTAC, then on SAT R-194 and LRD R-012 to LRD VORTAC.

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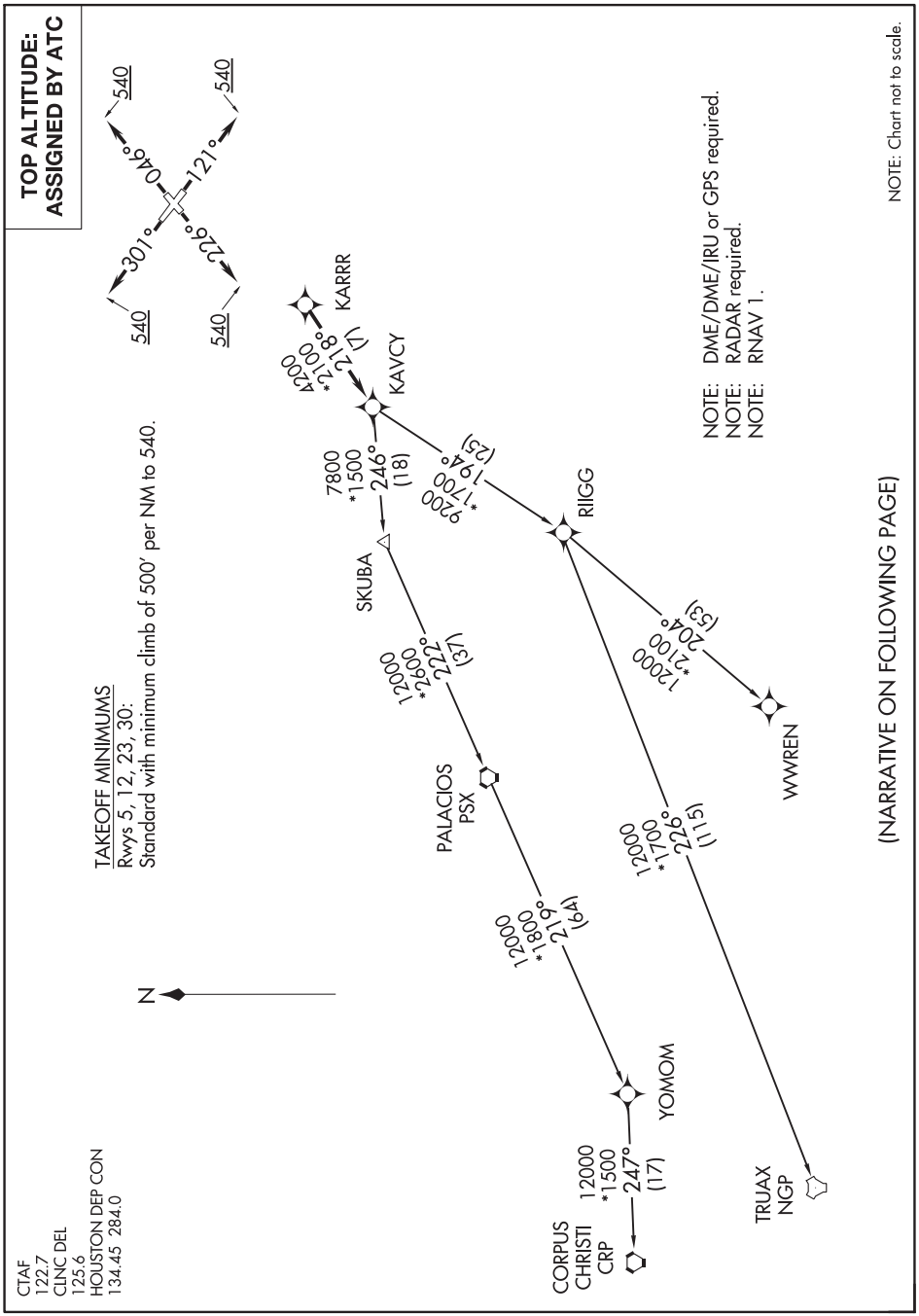
KARRR SIX DEPARTURE (RNAV)



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 5: Climb on heading 046° to 540, for RADAR vectors to KARRR, thence. . . .
TAKEOFF RWY 12: Climb on heading 121° to 540, for RADAR vectors to KARRR, thence. . . .
TAKEOFF RWY 23: Climb on heading 226° to 540, for RADAR vectors to KARRR, thence. . . .
TAKEOFF RWY 30: Climb on heading 301° to 540, for RADAR vectors to KARRR, thence. . . .

. . . .on track 218° to KAVCY, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

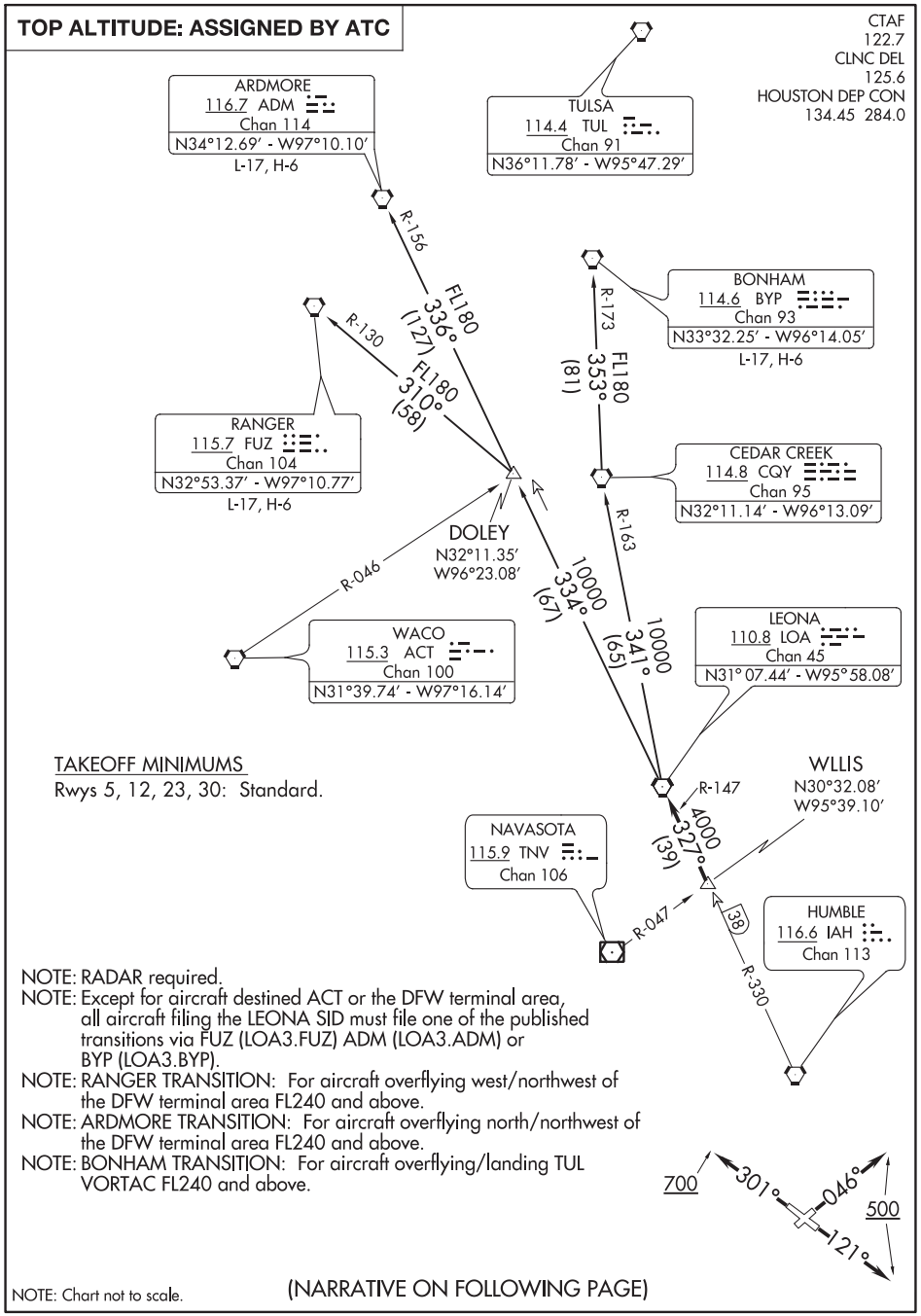
CORPUS CHRISTI TRANSITION (KARRR6.CRP)
PALACIOS TRANSITION (KARRR6.PSX)
TRUAX TRANSITION (KARRR6.NGP)
WWREN TRANSITION (KARRR6.WWREN)
YOMOM TRANSITION (KARRR6.YOMOM)

LEONA THREE DEPARTURE

AL-5433 (FAA)

TOP ALTITUDE: ASSIGNED BY ATC

CTAF
122.7
CLNC DEL
125.6
HOUSTON DEP CON
134.45 284.0



TAKEOFF MINIMUMS
Rwys 5, 12, 23, 30: Standard.

NOTE: RADAR required.
NOTE: Except for aircraft destined ACT or the DFW terminal area, all aircraft filing the LEONA SID must file one of the published transitions via FUZ (LOA3.FUZ) ADM (LOA3.ADM) or BYP (LOA3.BYP).
NOTE: RANGER TRANSITION: For aircraft overflying west/northwest of the DFW terminal area FL240 and above.
NOTE: ARDMORE TRANSITION: For aircraft overflying north/northwest of the DFW terminal area FL240 and above.
NOTE: BONHAM TRANSITION: For aircraft overflying/landing TUL VORTAC FL240 and above.

NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

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SC-5, 25 FEB 2021 to 22 APR 2021

(LOA3.LOA) 18032

LEONA THREE DEPARTURE

AL-5433 (FAA)

LA PORTE MUNI (T41)
LA PORTE, TEXAS

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 5: Climb heading 046° to 500 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to WILLIS INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence . . . .

TAKEOFF RUNWAY 12: Climb heading 121° to 500 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to WILLIS INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence . . . .

TAKEOFF RUNWAY 23: When entering controlled airspace, climb on assigned heading for RADAR vectors to WILLIS INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence . . . .

TAKEOFF RWY 30: Climb heading 301° to 700 before turning.

. . . . on LOA R-147 to LOA VORTAC.

ARDMORE TRANSITION (LOA3.ADM): From over LOA VORTAC on LOA R-334 to DOLEY INT, then on ADM R-156 to ADM VORTAC.

BONHAM TRANSITION (LOA3.BYP): From over LOA VORTAC on LOA R-341 and CQY R-163 to CQY VORTAC, then on BYP R-173 to BYP VORTAC.

RANGER TRANSITION (LOA3.FUZ): From over LOA VORTAC on LOA R-334 to DOLEY INT, then on FUZ R-130 to FUZ VORTAC.

SC-5, 25 FEB 2021 to 22 APR 2021

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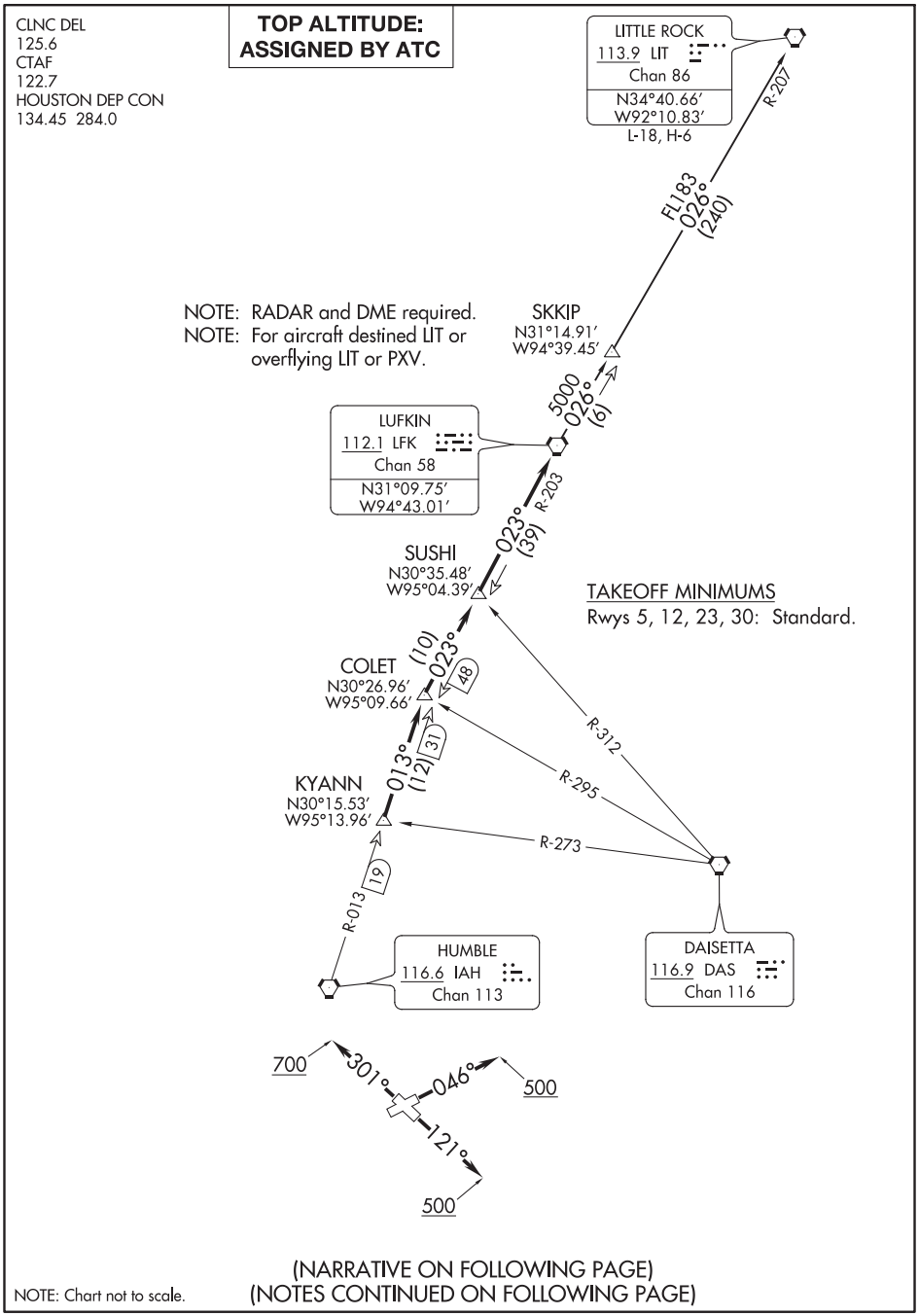
LUFKIN TWO DEPARTURE



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

NOTE: Chart not to scale.

SC-5, 25 FEB 2021 to 22 APR 2021

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DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 5: Climb heading 046° to 500 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to KYANN INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .
TAKEOFF RWY 12: Climb heading 121° to 500 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to KYANN INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .
TAKEOFF RWY 23: When entering controlled airspace, climb on assigned heading for RADAR vectors to KYANN INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .
TAKEOFF RWY 30: Climb heading 301° to 700 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to KYANN INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .

. . . .on IAH R-013 to COLET INT, then right turn on LFK R-203 to LFK VORTAC.

LITTLE ROCK TRANSITION (LFK2.LIT): From over LFK VORTAC on LFK R-026 to SKKIP INT, then on LFK R-026 and LIT R-207 to LIT VORTAC.

SC-5, 25 FEB 2021 to 22 APR 2021
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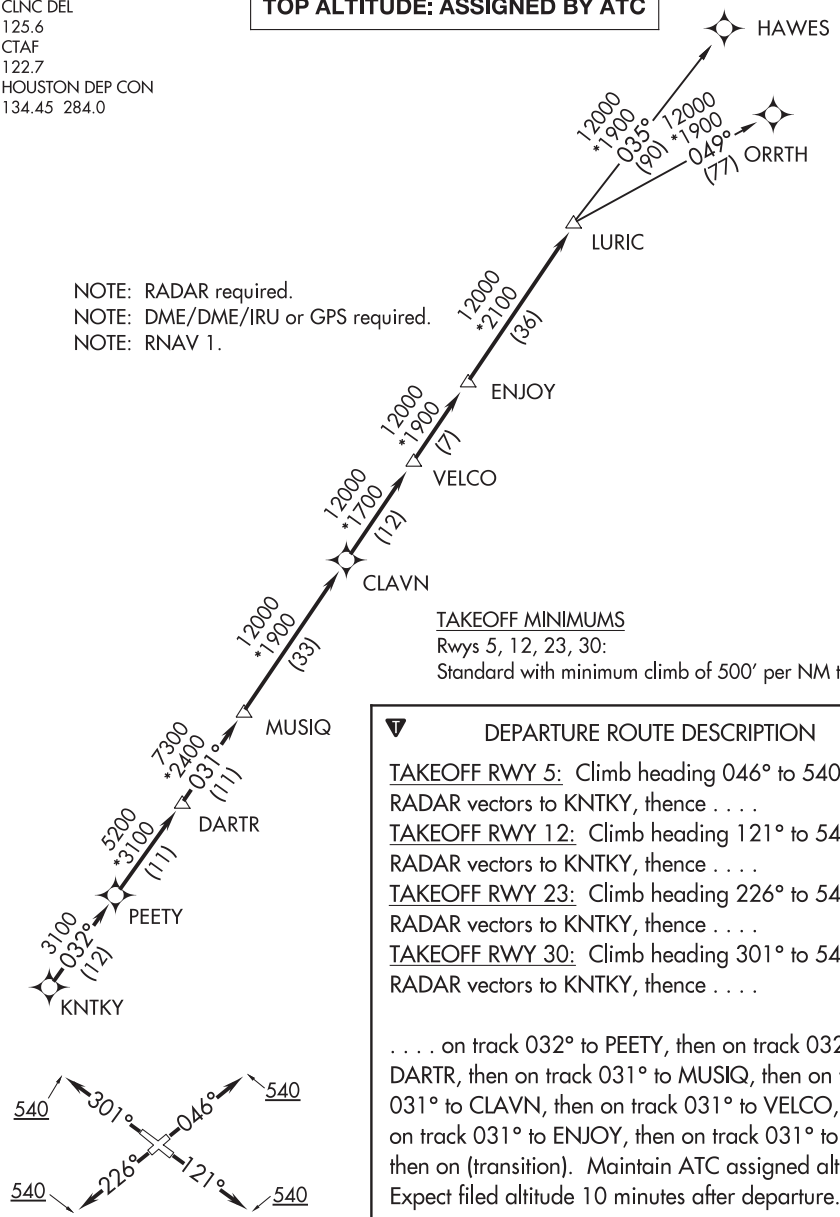
LURIC SEVEN DEPARTURE (RNAV)

LA PORTE, TEXAS

TOP ALTITUDE: ASSIGNED BY ATC

CLNC DEL
125.6
CTAF
122.7
HOUSTON DEP CON
134.45 284.0

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



TAKEOFF MINIMUMS
Rwys 5, 12, 23, 30:
Standard with minimum climb of 500′ per NM to 540.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 5: Climb heading 046° to 540 for RADAR vectors to KNTKY, thence . . . .
TAKEOFF RWY 12: Climb heading 121° to 540 for RADAR vectors to KNTKY, thence . . . .
TAKEOFF RWY 23: Climb heading 226° to 540 for RADAR vectors to KNTKY, thence . . . .
TAKEOFF RWY 30: Climb heading 301° to 540 for RADAR vectors to KNTKY, thence . . . .

. . . . on track 032° to PEETY, then on track 032° to DARTR, then on track 031° to MUSIQ, then on track 031° to CLAVN, then on track 031° to VELCO, then on track 031° to ENJOY, then on track 031° to LURIC, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

HAWES TRANSITION (LURIC7.HAWES)
ORRTH TRANSITION (LURIC7.ORRTH)

NOTE: Chart not to scale.

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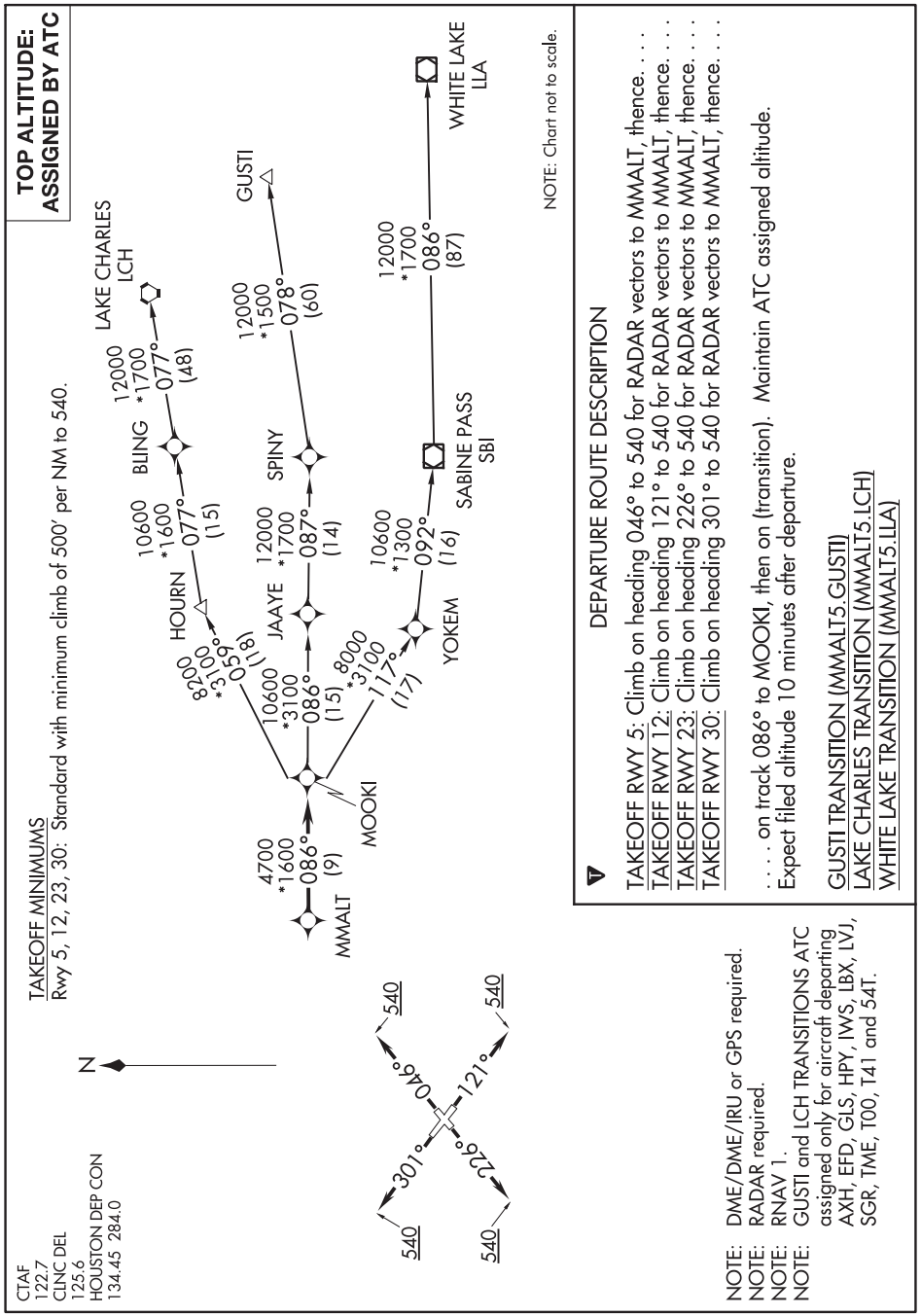
(MMALT5.MMALT) 19115 AL-5433 (FAA) LA PORTE MUNI (T41)

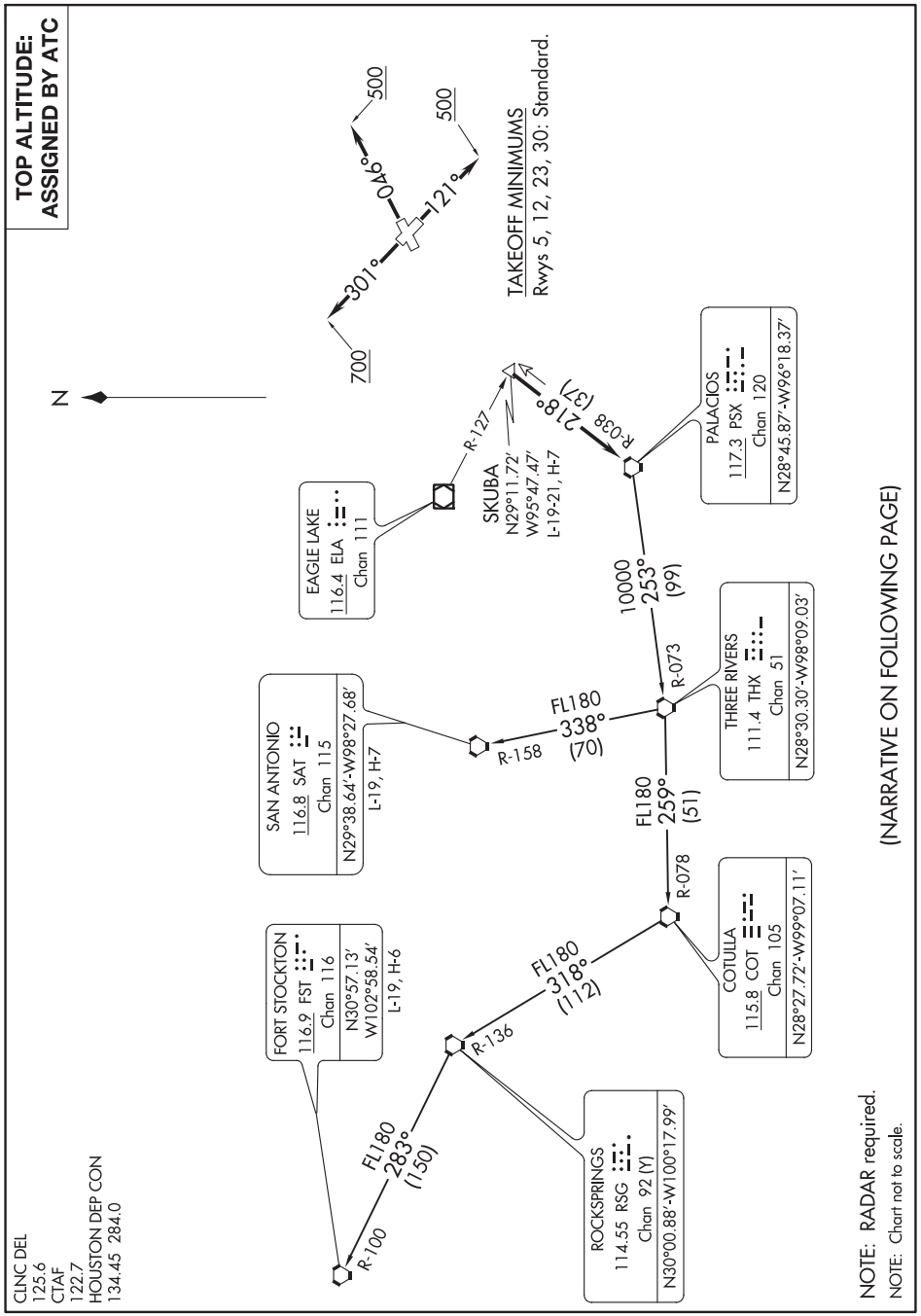
MMALT FIVE DEPARTURE (RNAV)

LA PORTE, TEXAS



SC-5, 25 FEB 2021 to 22 APR 2021

SC-5, 25 FEB 2021 to 22 APR 2021


TOP ALTITUDE: ASSIGNED BY ATC
N
500
500
090°
121°
301°
700
TAKEOFF MINIMUMS
Rwys 5, 12, 23, 30: Standard.
R-127
SKUBA
N29°11.72'
W95°47.47'
L-19-21, H-7
218°
(37)
R-038
PALACIOS
117.3 PSX
Chan 120
N28°45.87'-W96°18.37'
EAGLE LAKE
116.4 ELA
Chan 111
10000
253°
(99)
R-073
THREE RIVERS
111.4 THX
Chan 51
N28°30.30'-W98°09.03'
SAN ANTONIO
116.8 SAT
Chan 115
N29°38.64'-W98°27.68'
L-19, H-7
R-158
FL180
338°
(70)
FL180
259°
(51)
R-078
COTULLA
115.8 COT
Chan 105
N28°27.72'-W99°07.11'
FORT STOCKTON
116.9 FST
Chan 116
N30°57.13'
W102°58.54'
L-19, H-6
FL180
318°
(112)
R-136
ROCKSPRINGS
114.55 RSG
Chan 92 (Y)
N30°00.88'-W100°17.99'
FL180
283°
(150)
R-100
CLNC DEL
125.6
CTAF
122.7
HOUSTON DEP CON
134.45 284.0
(NARRATIVE ON FOLLOWING PAGE)
NOTE: RADAR required.
NOTE: Chart not to scale.

(PSX1.PSX) 19171

PALACIOS ONE DEPARTURE

AL-5433 (FAA)

LA PORTE MUNI (T41)
LA PORTE, TEXAS

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 5: Climb heading 046° to 500 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to SKUBA INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .

TAKEOFF RWY 12: Climb heading 121° to 500 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to SKUBA INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .

TAKEOFF RWY 23: When entering controlled airspace, climb on assigned heading for RADAR vectors to SKUBA INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .

TAKEOFF RWY 30: Climb heading 301° to 700 before turning. When entering controlled airspace, climb on assigned heading for RADAR vectors to SKUBA INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .

. . . .on PSX R-038 to PSX VORTAC.

FORT STOCKTON TRANSITION (PSX1.FST): From over PSX VORTAC on PSX R-253 and THX R-073 to THX VORTAC, then on THX R-259 and COT R-078 to COT VORTAC, then on COT R-318 and RSG R-136 to RSG VORTAC, then on RSG R-283 and FST R-100 to FST VORTAC.

SAN ANTONIO TRANSITION (PSX1.SAT): From over PSX VORTAC on PSX R-253 and THX R-073 to THX VORTAC, then on SAT R-158 to SAT VORTAC.

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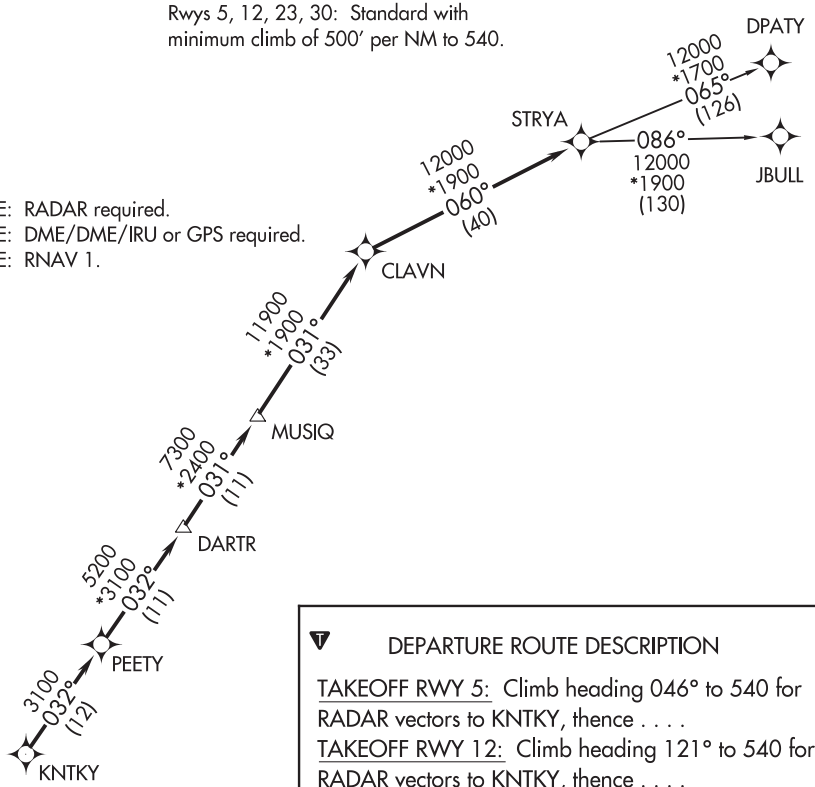
STRYA SEVEN DEPARTURE (RNAV)

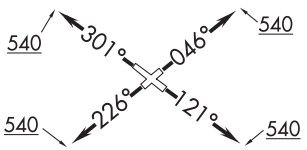
TOP ALTITUDE: ASSIGNED BY ATC

CTAF
122.7
CLNC DEL
125.6
HOUSTON DEP CON
134.45 284.0

TAKEOFF MINIMUMS
Rwys 5, 12, 23, 30: Standard with minimum climb of 500′ per NM to 540.

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





NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 5: Climb heading 046° to 540 for RADAR vectors to KNTKY, thence . . . .
TAKEOFF RWY 12: Climb heading 121° to 540 for RADAR vectors to KNTKY, thence . . . .
TAKEOFF RWY 23: Climb heading 226° to 540 for RADAR vectors to KNTKY, thence . . . .
TAKEOFF RWY 30: Climb heading 301° to 540 for RADAR vectors to KNTKY, thence . . . .

. . . . on track 032° to PEETY, then on track 032° to DARTR, then on track 031° to MUSIQ, then on track 031° to CLAVN, then on track 060° to STRYA, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

DPATY TRANSITION (STRYA7.DPATY)
JBULL TRANSITION (STRYA7.JBULL)

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SC-5, 25 FEB 2021 to 22 APR 2021

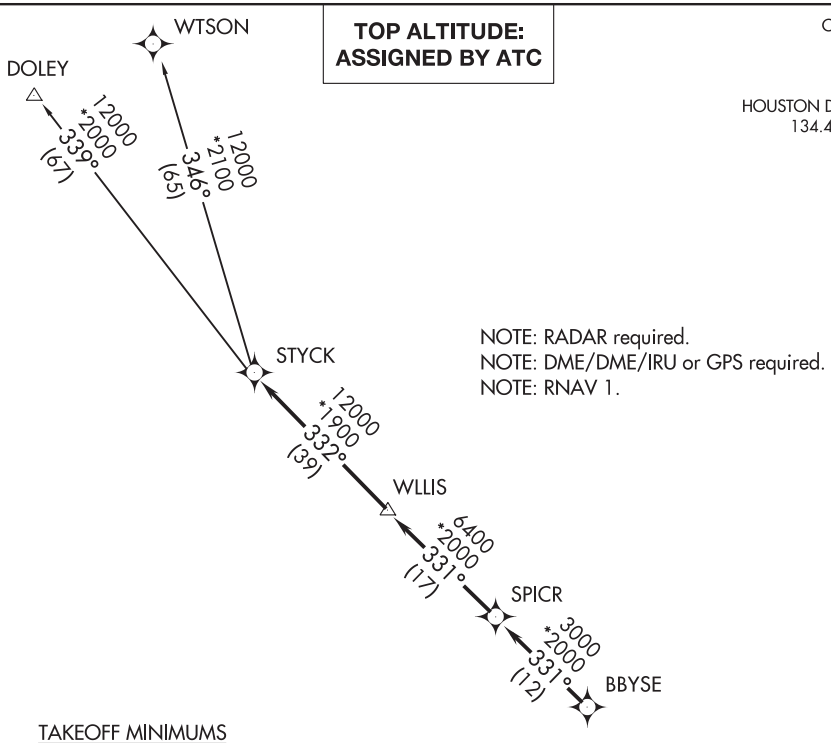
(STYCK7.STYCK) 19115 AL-5433 (FAA)

STYCK SEVEN DEPARTURE (RNAV)

LA PORTE MUNI (T41)
LA PORTE, TEXAS

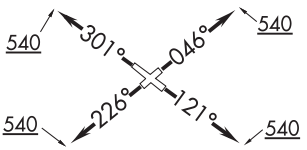
TOP ALTITUDE: ASSIGNED BY ATC

CLNC DEL
125.6
CTAF
122.7
HOUSTON DEP CON
134.45 284.0



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

TAKEOFF MINIMUMS
Rwys 5, 12, 23, 30:
Standard with minimum climb of 500′ per NM to 540.



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 5: Climb heading 046° to 540 for RADAR vectors to BBYSE, thence. . . .
TAKEOFF RWY 12: Climb heading 121° to 540 for RADAR vectors to BBYSE, thence. . . .
TAKEOFF RWY 23: Climb heading 226° to 540 for RADAR vectors to BBYSE, thence. . . .
TAKEOFF RWY 30: Climb heading 301° to 540 for RADAR vectors to BBYSE, thence. . . .

. . . .on track 331° to SPICR, then on track 331° to WLLIS, then on track 332° to STYCK, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

DOLEY TRANSITION (STYCK7.DOLEY)
WTSON TRANSITION (STYCK7.WTSON)

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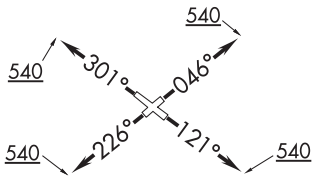
SC-5, 25 FEB 2021 to 22 APR 2021

WATFO FIVE DEPARTURE (RNAV)

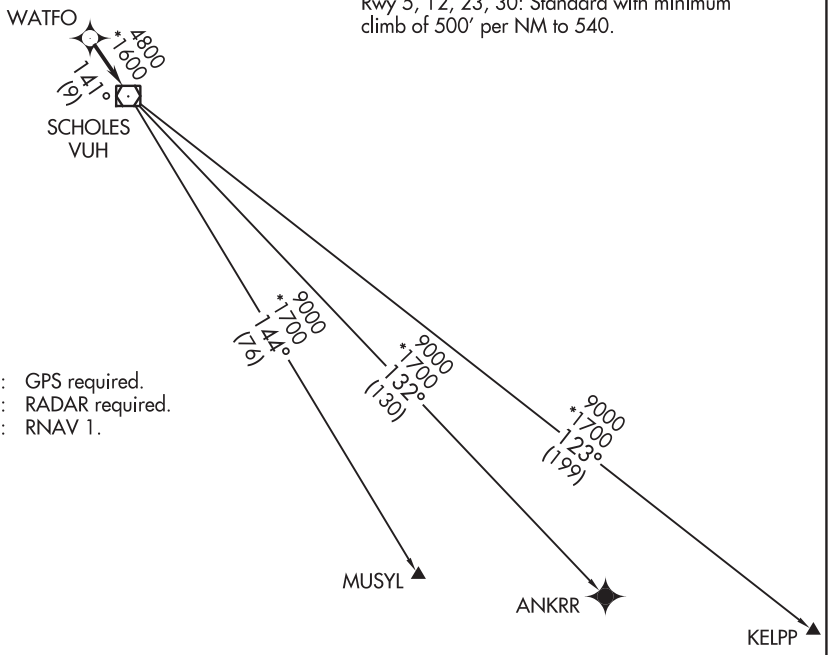
LA PORTE MUNI (T41)
LA PORTE, TEXAS

TOP ALTITUDE: ASSIGNED BY ATC

CTAF
122.7
CLNC DEL
125.6
HOUSTON DEP CON
134.45 284.0



TAKEOFF MINIMUMS:
Rwy 5, 12, 23, 30: Standard with minimum climb of 500′ per NM to 540.



NOTE: GPS required.
NOTE: RADAR required.
NOTE: RNAV 1.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 5: Climb on heading 046° to 540, for RADAR vectors to WATFO, thence. . . .
TAKEOFF RWY 12: Climb on heading 121° to 540, for RADAR vectors to WATFO, thence. . . .
TAKEOFF RWY 23: Climb on heading 226° to 540, for RADAR vectors to WATFO, thence. . . .
TAKEOFF RWY 30: Climb on heading 301° to 540, for RADAR vectors to WATFO, thence. . . .

. . . .on track 141° to VUH VOR/DME, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

ANKRR TRANSITION (WATFO5.ANKRR)
KELPP TRANSITION (WATFO5.KELPP)
MUSYL TRANSITION (WATFO5.MUSYL)

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(WYLSN7.WYLSN) 19115 AL-5433 (FAA)

LA PORTE MUNI (T41)

WYLSN SEVEN DEPARTURE (RNAV)

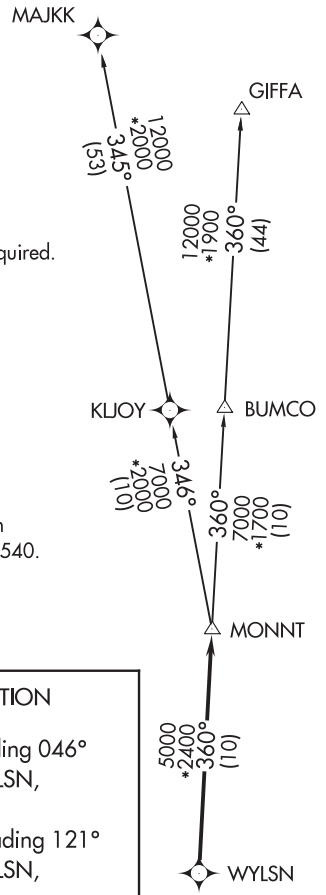
LA PORTE, TEXAS

CLNC DEL
125.6
CTAF
122.7
HOUSTON DEP CON
134.45 284.0

TOP ALTITUDE: ASSIGNED BY ATC

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

TAKEOFF MINIMUMS
Rwys 5, 12, 23, 30: Standard with minimum climb of 500′ per NM to 540.

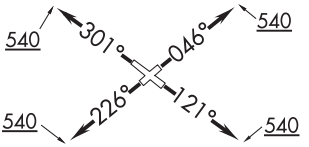


DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 5: Climb on heading 046° to 540 for RADAR vectors to WYLSN, thence. . . .
TAKEOFF RWY 12: Climb on heading 121° to 540 for RADAR vectors to WYLSN, thence. . . .
TAKEOFF RWY 23: Climb on heading 226° to 540 for RADAR vectors to WYLSN, thence. . . .
TAKEOFF RWY 30: Climb on heading 301° to 540 for RADAR vectors to WYLSN, thence. . . .

. . . .on track 360° to MONNT, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

GIFFA TRANSITION (WYLSN7.GIFFA)
MAJKK TRANSITION (WYLSN7.MAJKK)



NOTE: Chart not to scale.

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WYLSN SEVEN DEPARTURE (RNAV)

(WYLSN7.WYLSN) 25APR19

LA PORTE, TEXAS

LA PORTE MUNI (T41)

RNAV (GPS) RWY 16

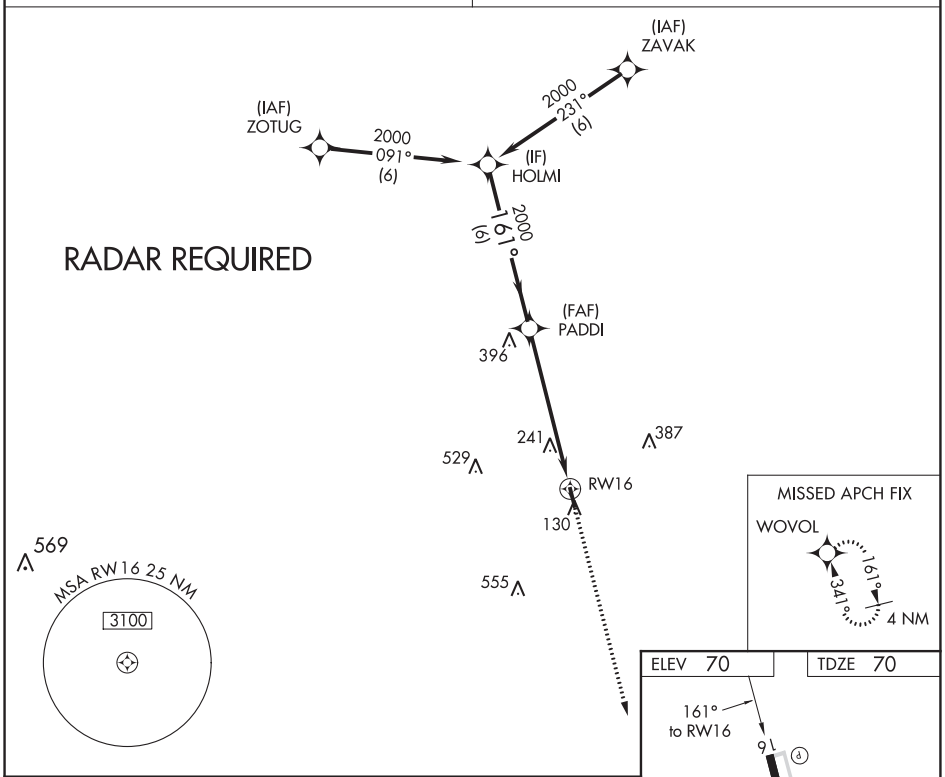
LIBERTY MUNI (T78)

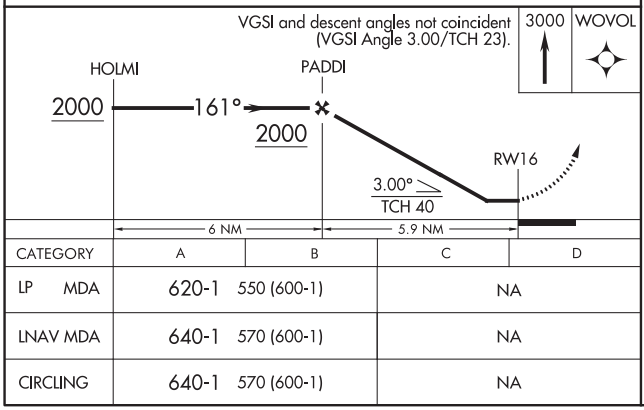
WAAS CH 78130 W16A	APP CRS 161°	Rwy ldg 3801 TDZE 70 Apt Elev 70

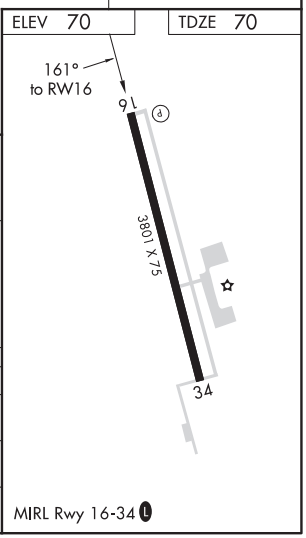
Procedure NA at night. Use George Bush Intercontinental/ Houston altimeter setting. DME/DME RNP-0.3 NA. Helicopter visibility reduction below 1 SM NA.

MISSED APPROACH: Climb to 3000 direct WOVOL and hold.

HOUSTON APP CON	CTAF
119.7 281.4	122.9 L







CATEGORY	A	B	C	D
LP MDA	620-1 550 (600-1)		NA	
LNAV MDA	640-1 570 (600-1)		NA	
CIRCLING	640-1 570 (600-1)		NA	

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LIBERTY, TEXAS

AL-5196 (FAA)

20254

VOR-A

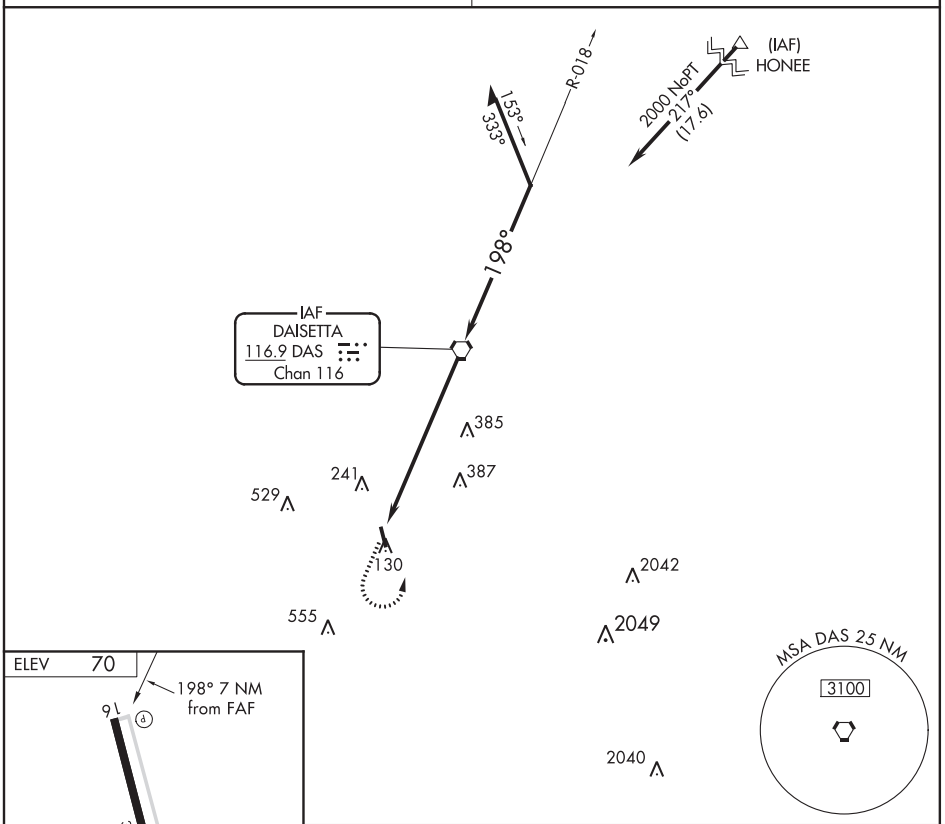
LIBERTY MUNI (T78)

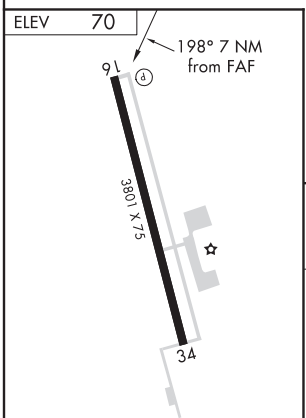
VORTAC DAS	APP CRS	Rwy ldg	N/A
116.9	198°	TDZE	N/A
Chan 116		Apt Elev	70

Use George Bush Intercontinental/Houston altimeter setting. Procedure NA at night. Helicopter visibility reduction below 1 SM NA.

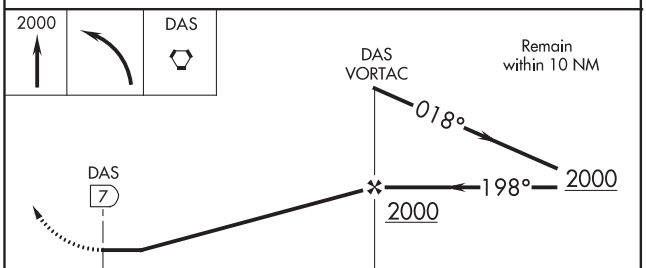
MISSED APPROACH: Climb to 2000, then left turn direct DAS VORTAC.

HOUSTON APP CON	CTAF
119.7 281.4	122.9 L





MIRL Rwy 16-34 L



FAF to MAP 7 NM					
Knots	60	90	120	150	180
Min:Sec	7:00	4:40	3:30	2:48	2:20

CATEGORY	A	B	C	D
CIRCLING	600-1 530 (600-1)		NA	

LIBERTY, TEXAS
Amdt 5B 26MAY16

30°05'N-94°42'W

LIBERTY MUNI (T78)
VOR-A

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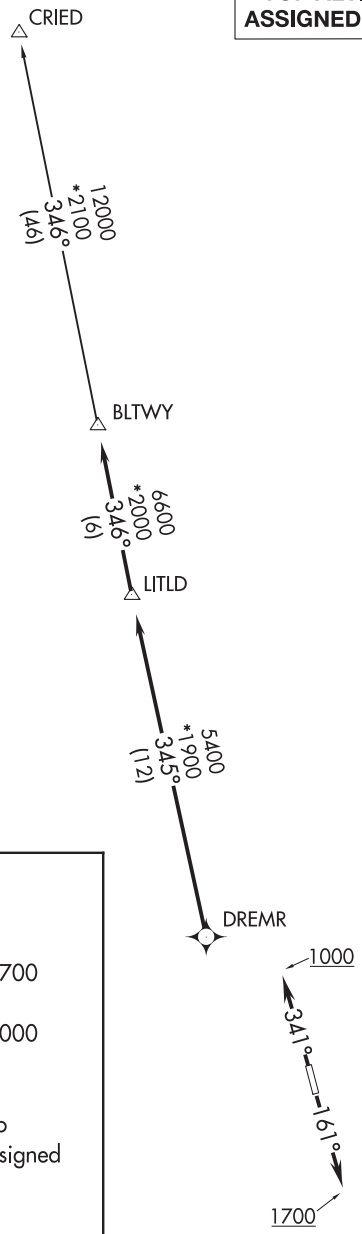
SC-5, 25 FEB 2021 to 22 APR 2021

BLTWY SIX DEPARTURE (RNAV)

CTAF
122.9
HOUSTON DEP CON
119.7 281.4

TOP ALTITUDE: ASSIGNED BY ATC



NOTE: RADAR required.

NOTE: DME/DME/IRU or GPS required.

NOTE: RNAV 1.

TAKEOFF MINIMUMS
Rwys 16, 34: Standard with minimum climb of 500′ per NM to 580.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 16: Climb heading 161° to 1700 for RADAR vectors to DREMR, thence . . . .
TAKEOFF RWY 34: Climb heading 341° to 1000 for RADAR vectors to DREMR, thence . . . .

...on track 345° to LITLD, then on track 346° to BLTWY, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

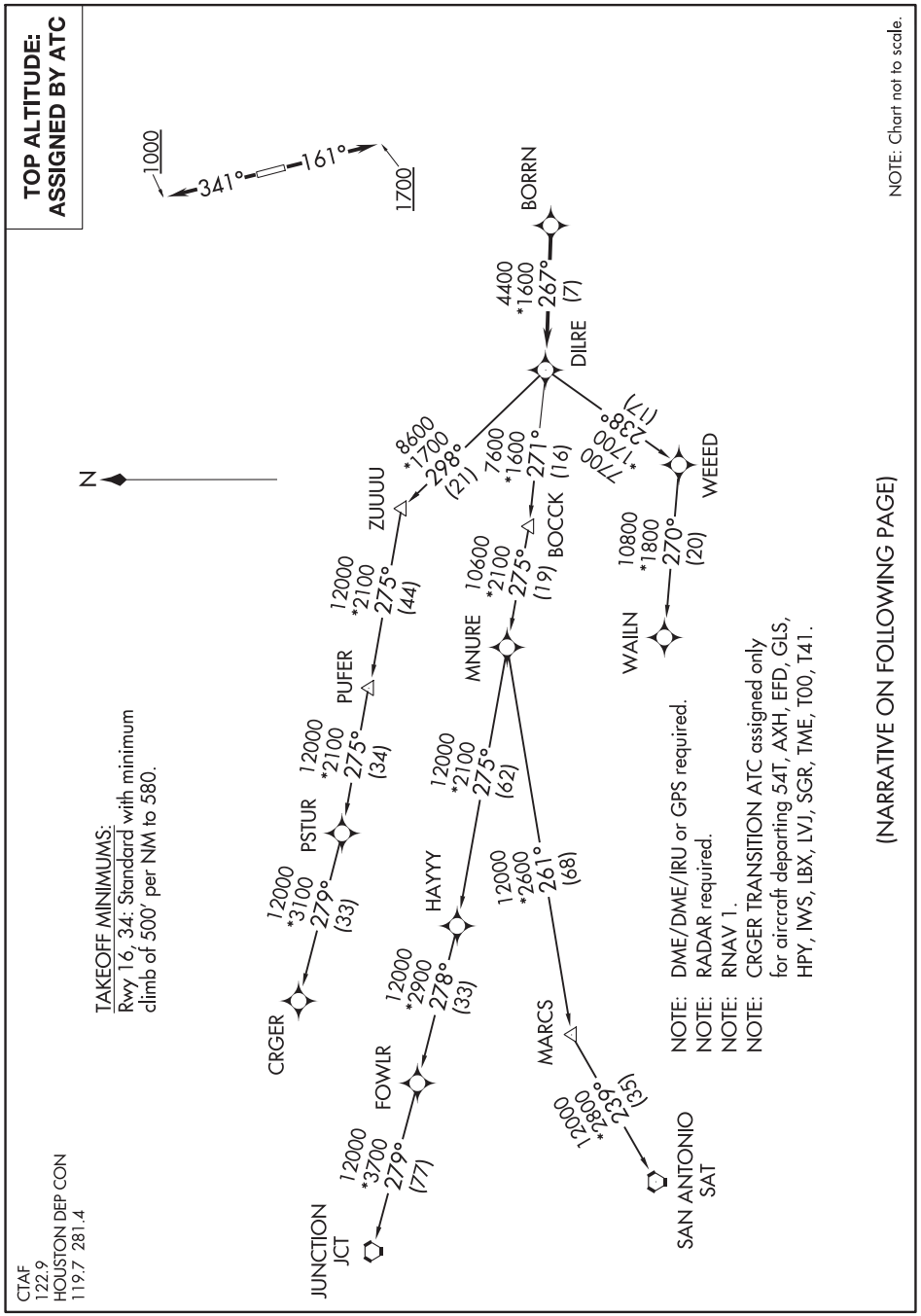
CRIED TRANSITION (BLTWY6.CRIED)

NOTE: Chart not to scale.

(BORRN4.BORRN) 19115 AL-5196 (FAA) LIBERTY MUNI (T78)

BORRN FOUR DEPARTURE (RNAV)

LIBERTY, TEXAS



SC-5, 25 FEB 2021 to 22 APR 2021

BORRN FOUR DEPARTURE (RNAV)

(BORRN4.BORRN) 25APR19 LIBERTY, TEXAS LIBERTY MUNI (T78)

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 16: Climb on heading 161° to 1700, for RADAR vectors to BORRN, thence. . . .
TAKEOFF RWY 34: Climb on heading 341° to 1000, for RADAR vectors to BORRN, thence. . . .

. . . .on track 267° to DILRE, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

CRGER TRANSITION (BORRN4.CRGER)
JUNCTION TRANSITION (BORRN4.JCT)
MNURE TRANSITION (BORRN4.MNURE)
SAN ANTONIO TRANSITION (BORRN4.SAT)
WAILN TRANSITION (BORRN4.WAILN)

HOODO SIX DEPARTURE (RNAV)
(HOODO6.HOODO) 25APR19

LIBERTY MUNI (T78)
LIBERTY, TEXAS

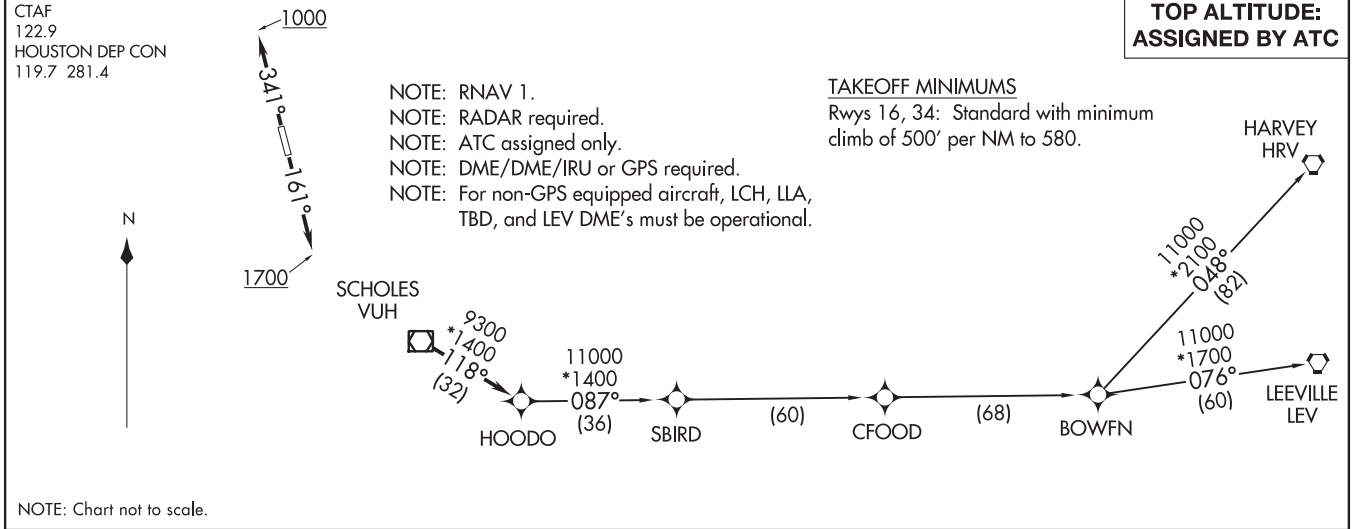
(HOODO6.HOODO) 19115
HOODO SIX DEPARTURE (RNAV)
AL-5196 (FAA)
LIBERTY MUNI (T78)
LIBERTY, TEXAS

TOP ALTITUDE: ASSIGNED BY ATC

CTAF
122.9
HOUSTON DEP CON
119.7 281.4

NOTE: RNAV 1.
NOTE: RADAR required.
NOTE: ATC assigned only.
NOTE: DME/DME/IRU or GPS required.
NOTE: For non-GPS equipped aircraft, LCH, LLA, TBD, and LEV DME's must be operational.

TAKEOFF MINIMUMS
Rwys 16, 34: Standard with minimum climb of 500′ per NM to 580.



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 16: Climb heading 161° to 1700, for RADAR vectors to VUH VOR/DME, thence . . . .
TAKEOFF RWY 34: Climb heading 341° to 1000, for RADAR vectors to VUH VOR/DME, thence . . . .

. . . . on track 118° to HOODO, then on (transition). Maintain ATC assigned altitude.
Expect filed altitude 10 minutes after departure.

BOWFN TRANSITION (HOODO6.BOWFN)
CFOOD TRANSITION (HOODO6.CFOOD)
HARVEY TRANSITION (HOODO6.HRV)
LEEVILLE TRANSITION (HOODO6.LEV)
SBIRD TRANSITION (HOODO6.SBIRD)

(INDIE7.INDIE) 19115

INDIE SEVEN DEPARTURE (RNAV)

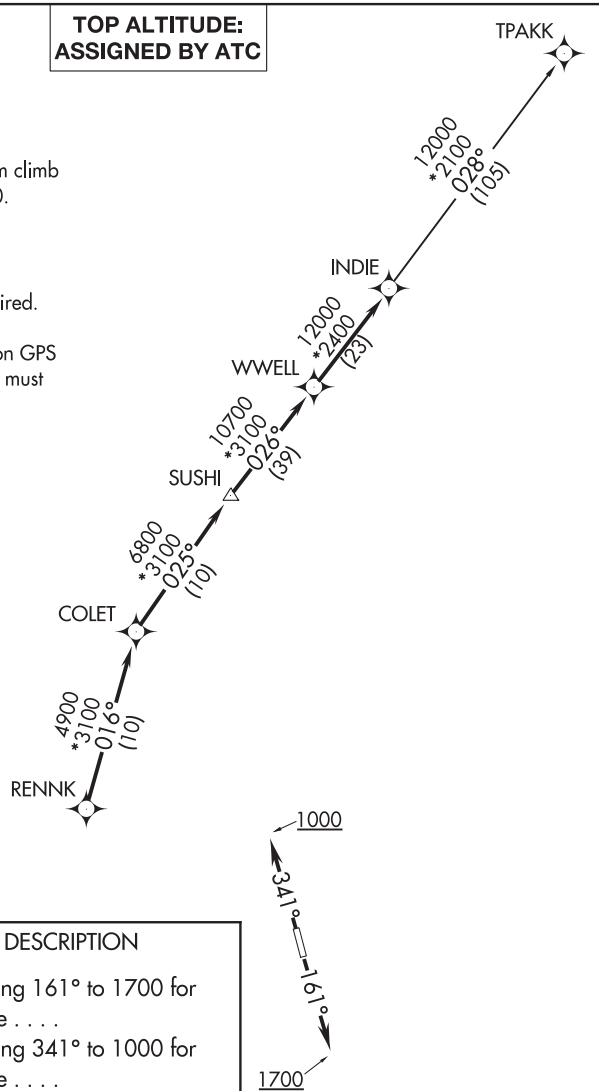
LIBERTY MUNI (T78)
LIBERTY, TEXAS

CTAF
122.9
HOUSTON DEP CON
119.7 281.4

TOP ALTITUDE: ASSIGNED BY ATC

TAKEOFF MINIMUMS
Rwy 16, 34: Standard with minimum climb of 500′ per NM to 580.

NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV 1.
NOTE: TPAKK TRANSITION: For non GPS equipped aircraft TNV DME must be operational.



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 16: Climb heading 161° to 1700 for RADAR vectors to RENNK, thence . . . .
TAKEOFF RWY 34: Climb heading 341° to 1000 for RADAR vectors to RENNK, thence . . . .

. . . . on track 016° to COLET, then on track 025° to SUSHI, then on track 026° to WWELL, then on track 026° to INDIE, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

TPAKK TRANSITION (INDIE7.TPAKK)

NOTE: Chart not to scale.

SC-5, 25 FEB 2021 to 22 APR 2021

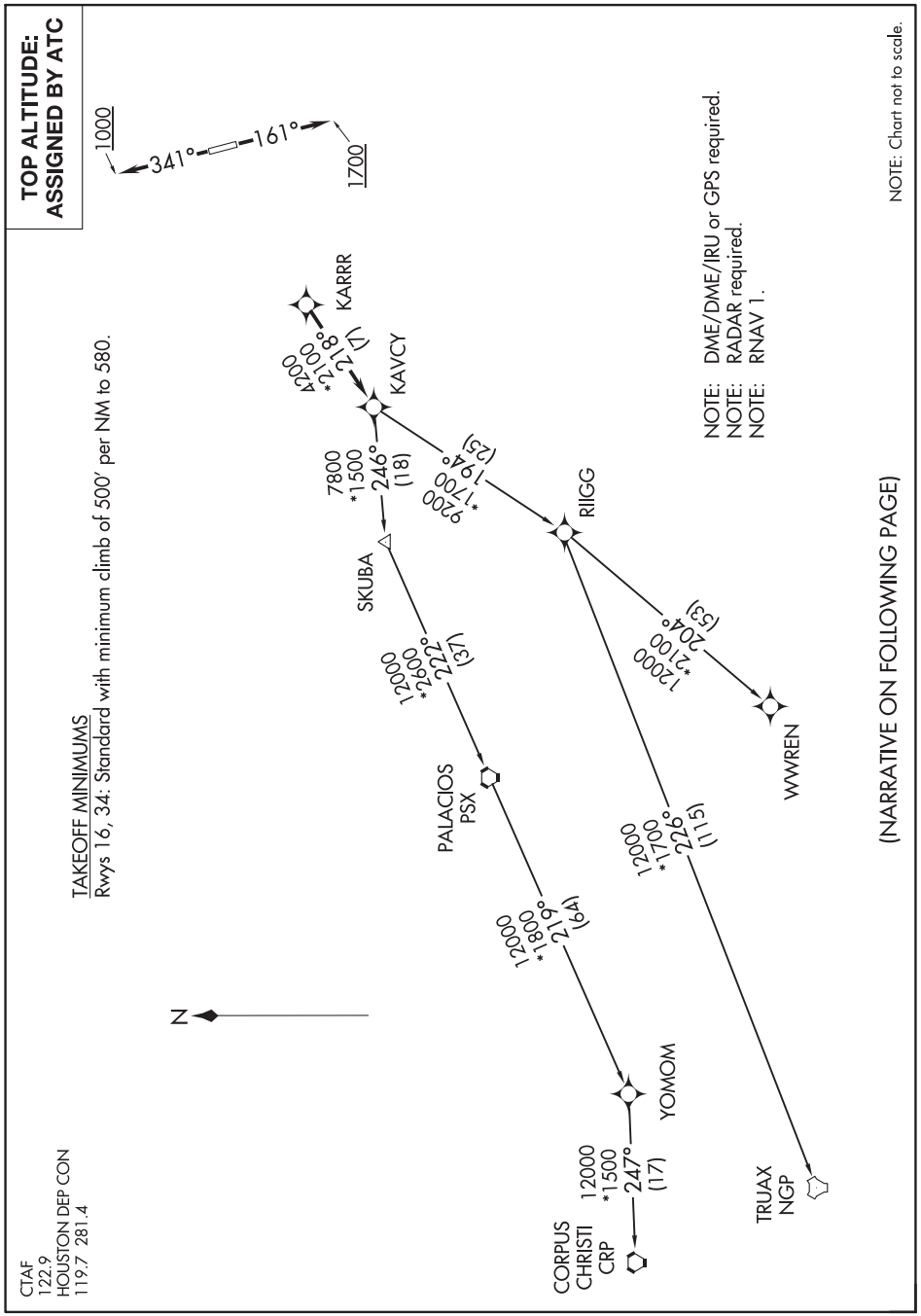
INDIE SEVEN DEPARTURE (RNAV)
(INDIE7.INDIE) 25APR19

LIBERTY, TEXAS
LIBERTY MUNI (T78)

(KARRR6.KARRR) 19339 AL-5196 (FAA)

KARRR SIX DEPARTURE (RNAV)

LIBERTY MUNI (T78)
LIBERTY, TEXAS



SC-5, 25 FEB 2021 to 22 APR 2021

KARRR SIX DEPARTURE (RNAV)

(KARRR6.KARRR) 05DEC19

LIBERTY, TEXAS
LIBERTY MUNI (T78)

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 16: Climb on heading 161° to 1700, for RADAR vectors to KARRR, thence. . . .
TAKEOFF RWY 34: Climb on heading 341° to 1000, for RADAR vectors to KARRR, thence. . . .

. . . .on track 218° to KAVCY, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

CORPUS CHRISTI TRANSITION (KARRR6.CRP)
PALACIOS TRANSITION (KARRR6.PSX)
TRUAX TRANSITION (KARRR6.NGP)
WWREN TRANSITION (KARRR6.WWREN)
YOMOM TRANSITOIN (KARRR6.YOMOM)

(LURIC7.LURIC) 19115 AL-5196 (FAA) LIBERTY MUNI (T78)

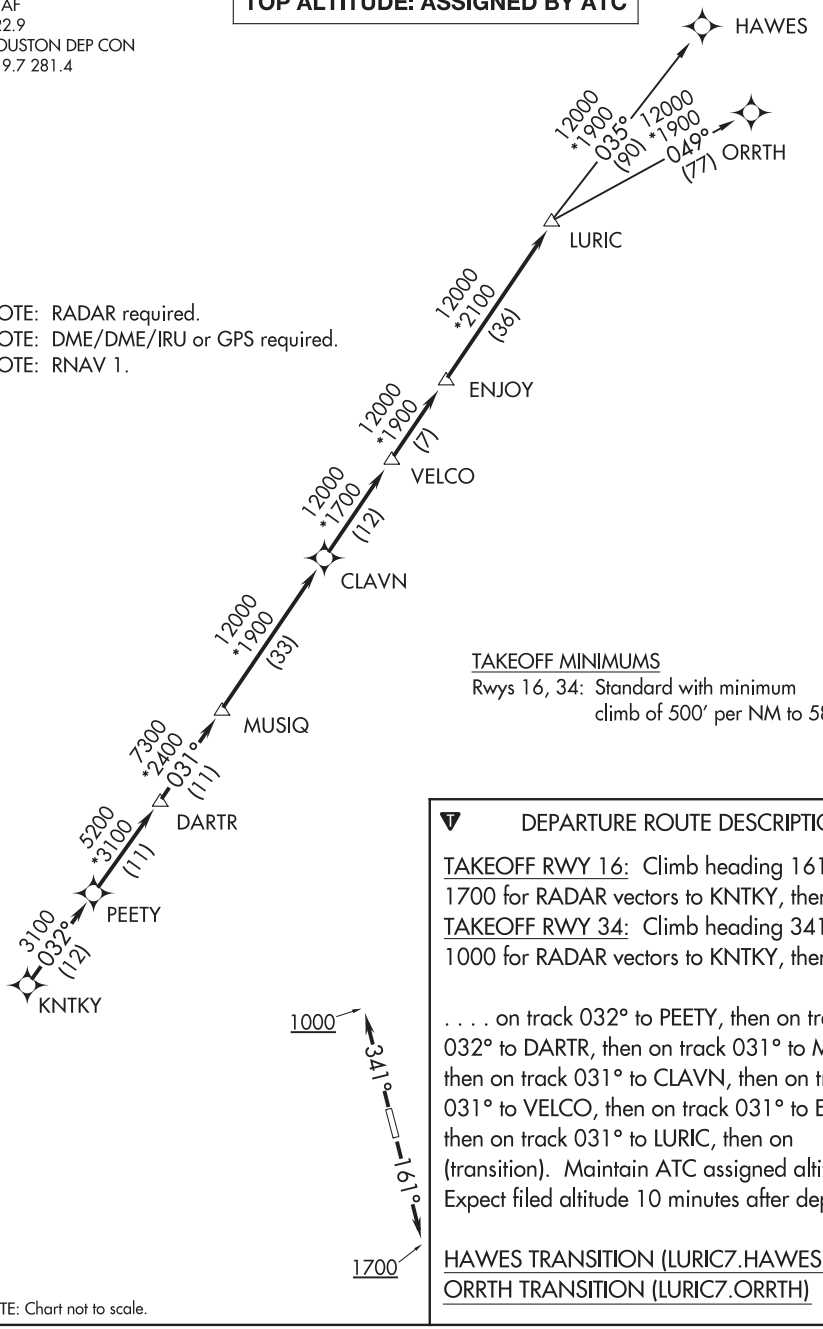
LURIC SEVEN DEPARTURE (RNAV)

LIBERTY, TEXAS

TOP ALTITUDE: ASSIGNED BY ATC

CTAF
122.9
HOUSTON DEP CON
119.7 281.4

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



TAKEOFF MINIMUMS
Rwys 16, 34: Standard with minimum climb of 500′ per NM to 580.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 16: Climb heading 161° to 1700 for RADAR vectors to KNTKY, thence ....
TAKEOFF RWY 34: Climb heading 341° to 1000 for RADAR vectors to KNTKY, thence ....

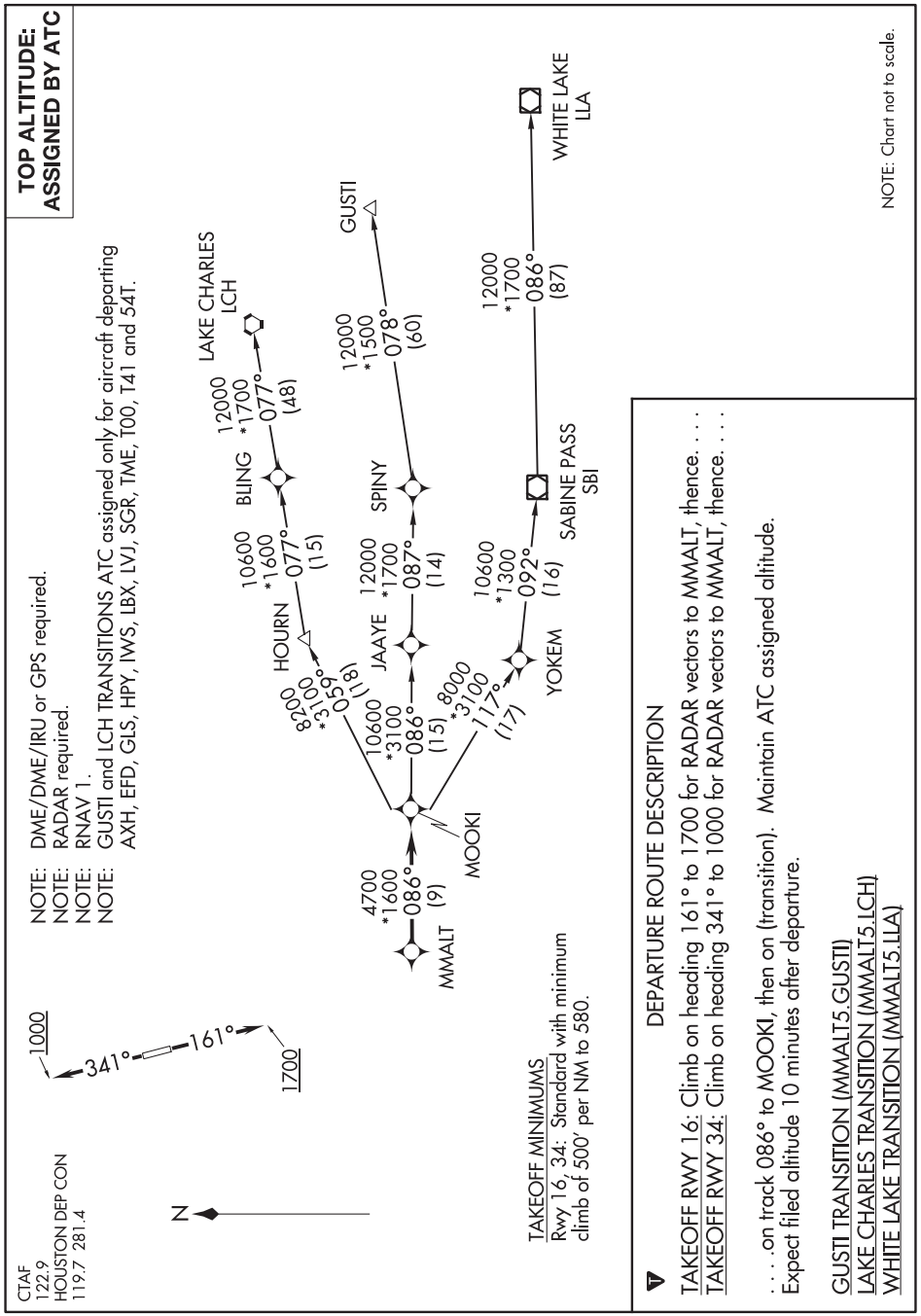
. . . . on track 032° to PEETY, then on track 032° to DARTR, then on track 031° to MUSIQ, then on track 031° to CLAVN, then on track 031° to VELCO, then on track 031° to ENJOY, then on track 031° to LURIC, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

HAWES TRANSITION (LURIC7.HAWES)
ORRTH TRANSITION (LURIC7.ORRTH)

NOTE: Chart not to scale.

SC-5, 25 FEB 2021 to 22 APR 2021

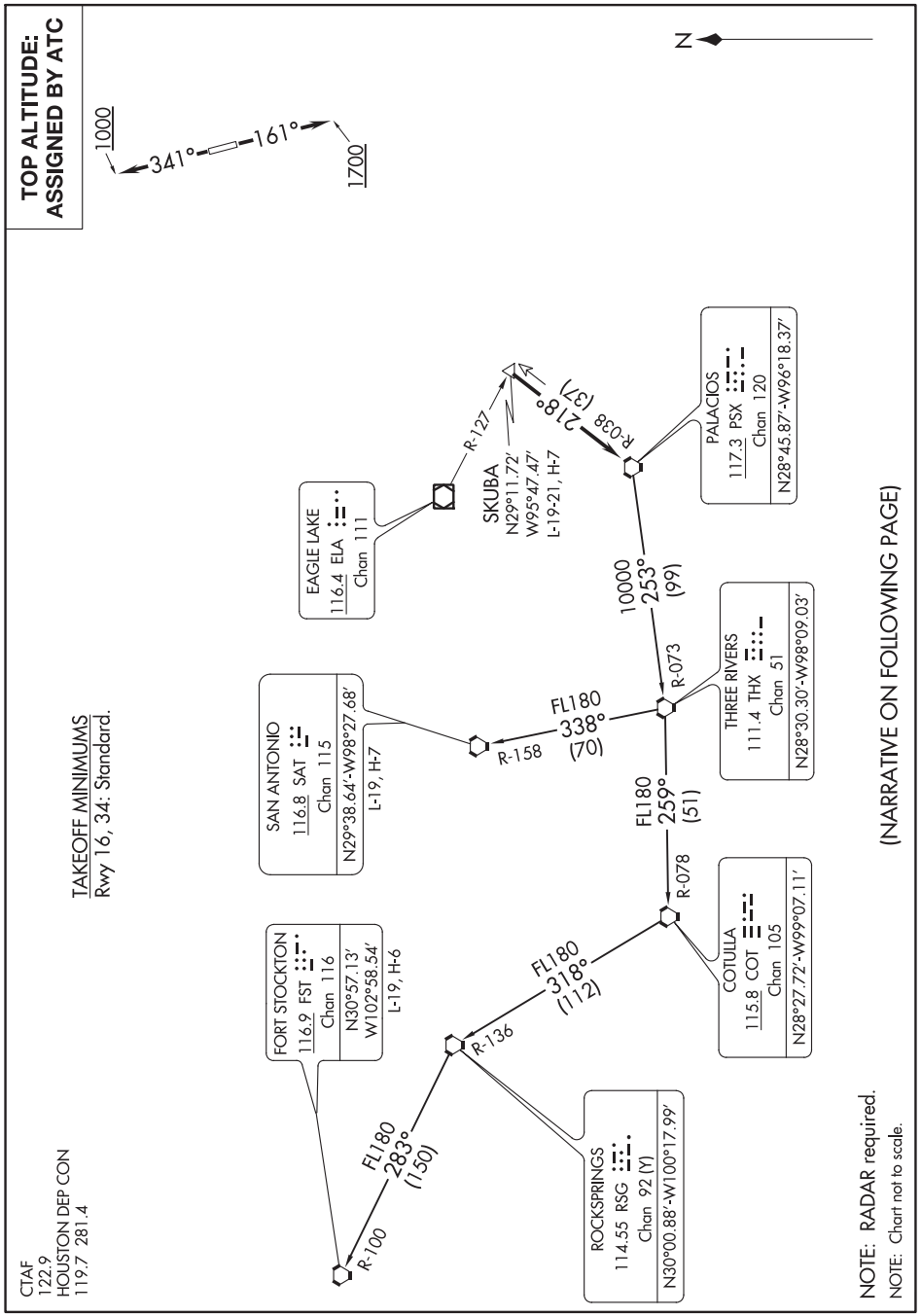
MMALT FIVE DEPARTURE (RNAV)



(PSX1.PSX) 20254 AL-5196 (FAA)

PALACIOS ONE DEPARTURE

LIBERTY MUNI (T78)
LIBERTY, TEXAS



SC-5, 25 FEB 2021 to 22 APR 2021

PALACIOS ONE DEPARTURE

(PSX1.PSX) 20JUN19

LIBERTY, TEXAS
LIBERTY MUNI (T78)

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 16: Climb heading 161° to 1700 before turning, when entering controlled airspace, climb on assigned heading for RADAR vectors to SKUBA INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .
TAKEOFF RWY 34: Climb heading 341° to 1000 before turning, when entering controlled airspace, climb on assigned heading for RADAR vectors to SKUBA INT. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence. . . .

. . . .on PSX R-038 to PSX VORTAC.

FORT STOCKTON TRANSITION (PSX1.FST): From over PSX VORTAC on PSX R-253 and THX R-073 to THX VORTAC, then on THX R-259 and COT R-078 to COT VORTAC, then on COT R-318 and RSG R-136 to RSG VORTAC, then on RSG R-283 and FST R-100 to FST VORTAC.

SAN ANTONIO TRANSITION (PSX1.SAT): From over PSX VORTAC on PSX R-253 and THX R-073 to THX VORTAC, then on SAT R-158 to SAT VORTAC.

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SC-5, 25 FEB 2021 to 22 APR 2021

(STRYA7.STRYA) 19115 AL-5196 (FAA)

STRYA SEVEN DEPARTURE (RNAV)

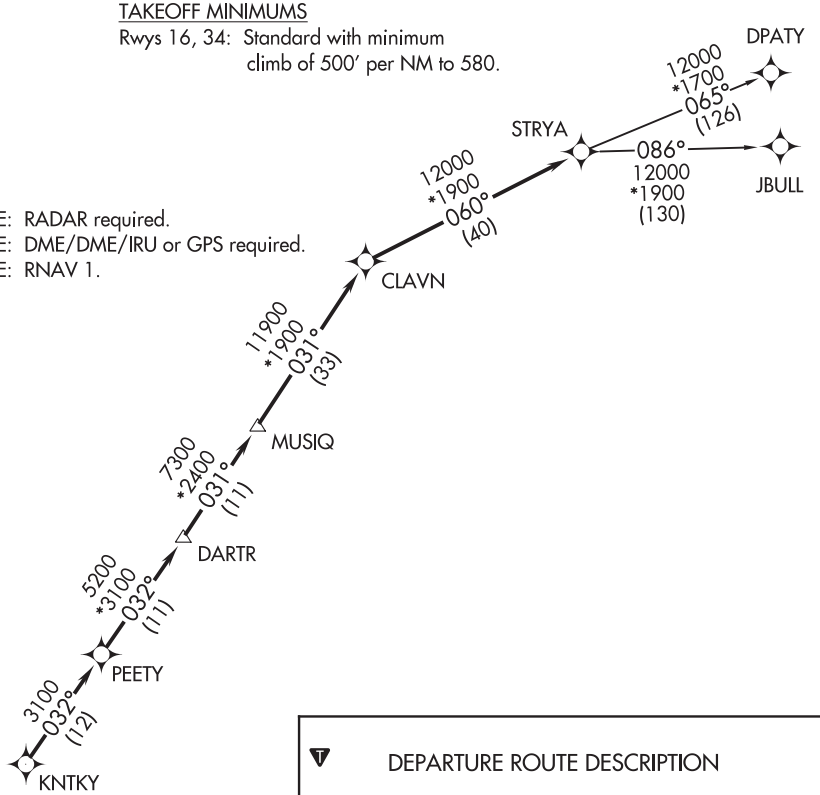
LIBERTY MUNI (T78)
LIBERTY, TEXAS

TOP ALTITUDE: ASSIGNED BY ATC

CTAF
122.9
HOUSTON DEP CON
119.7 281.4

TAKEOFF MINIMUMS
Rwys 16, 34: Standard with minimum climb of 500′ per NM to 580.

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



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 16: Climb heading 161° to 1700 for RADAR vectors to KNTKY, thence . . . .
TAKEOFF RWY 34: Climb heading 341° to 1000 for RADAR vectors to KNTKY, thence . . . .

. . . . on track 032° to PEETY, then on track 032° to DARTR, then on track 031° to MUSIQ, then on track 031° to CLAVN, then on track 060° to STRYA, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

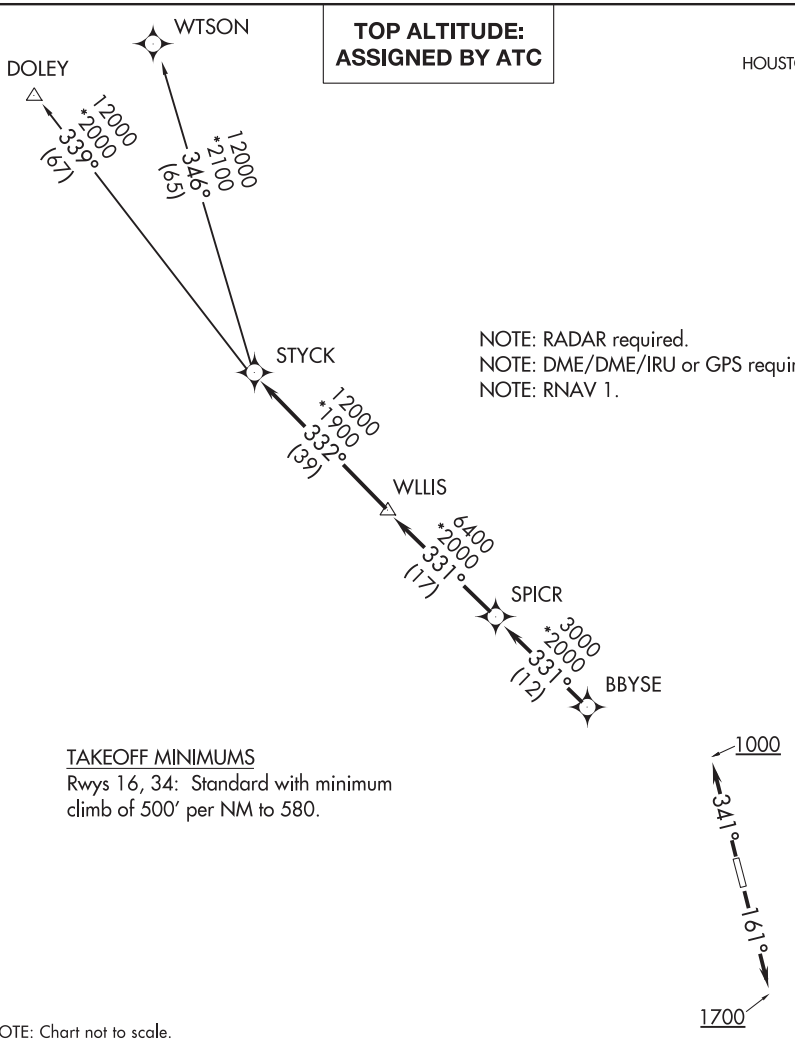
DPATY TRANSITION (STRYA7.DPATY)
JBULL TRANSITION (STRYA7.JBULL)

SC-5, 25 FEB 2021 to 22 APR 2021

STYCK SEVEN DEPARTURE (RNAV)

TOP ALTITUDE: ASSIGNED BY ATC

CTAF
122.9
HOUSTON DEP CON
119.7 281.4



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

TAKEOFF MINIMUMS
Rwys 16, 34: Standard with minimum climb of 500′ per NM to 580.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 16: Climb heading 161° to 1700 for RADAR vectors to BBYSE, thence. . . .
TAKEOFF RWY 34: Climb heading 341° to 1000 for RADAR vectors to BBYSE, thence. . . .

. . . .on track 331° to SPICR, then on track 331° to WLLIS, then on track 332° to STYCK, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

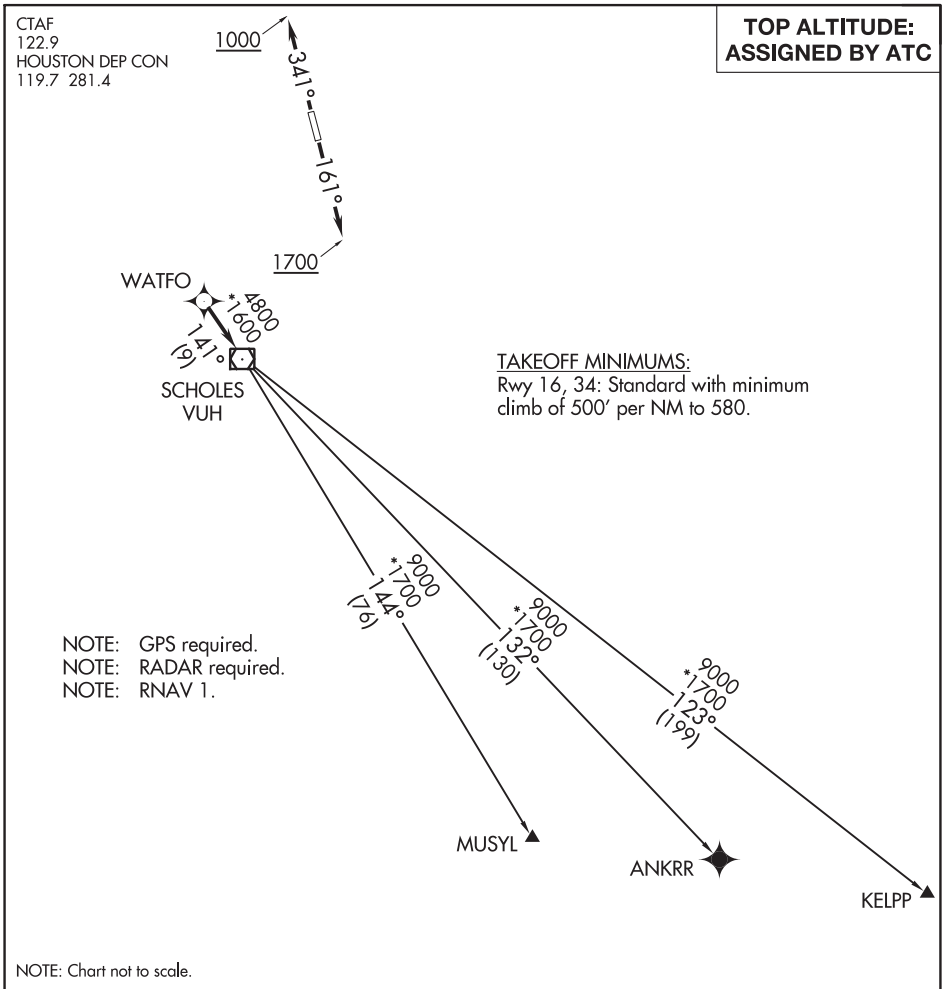
DOLEY TRANSITION (STYCK7.DOLEY)
WTSON TRANSITION (STYCK7.WTSON)

SC-5, 25 FEB 2021 to 22 APR 2021
SC-5, 25 FEB 2021 to 22 APR 2021

(WATFO5.WATFO) 19115 AL-5196 (FAA)

WATFO FIVE DEPARTURE (RNAV)

LIBERTY MUNI (T78)
LIBERTY, TEXAS



SC-5, 25 FEB 2021 to 22 APR 2021

SC-5, 25 FEB 2021 to 22 APR 2021

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 16: Climb on heading 161° to 1700, for RADAR vectors to WATFO, thence. . . .
TAKEOFF RWY 34: Climb on heading 341° to 1000, for RADAR vectors to WATFO, thence. . . .

. . . .on track 141° to VUH VOR/DME, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

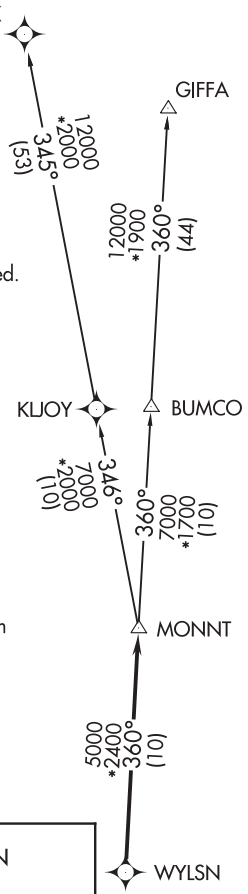
ANKRR TRANSITION (WATFO5.ANKRR)
KELPP TRANSITION (WATFO5.KELPP)
MUSYL TRANSITION (WATFO5.MUSYL)

WYLSN SEVEN DEPARTURE (RNAV)

TOP ALTITUDE: ASSIGNED BY ATC

CTAF
122.9
HOUSTON DEP CON
119.7 281.4

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



TAKEOFF MINIMUMS
Rwy 16, 34: Standard with minimum climb of 500′ per NM to 580.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 16: Climb on heading 161° to 1700 for RADAR vectors to WYLSN, thence. . . .
TAKEOFF RWY 34: Climb on heading 341° to 1000 for RADAR vectors to WYLSN, thence. . . .

. . . .on track 360° to MONNT, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

GIFFA TRANSITION (WYLSN7.GIFFA)
MAJKK TRANSITION (WYLSN7.MAJKK)

NOTE: Chart not to scale.

LIVINGSTON, TEXAS | AL-9044 (FAA) | 20198

RNAV (GPS) RWY 30
LIVINGSTON MUNI (ØØR)

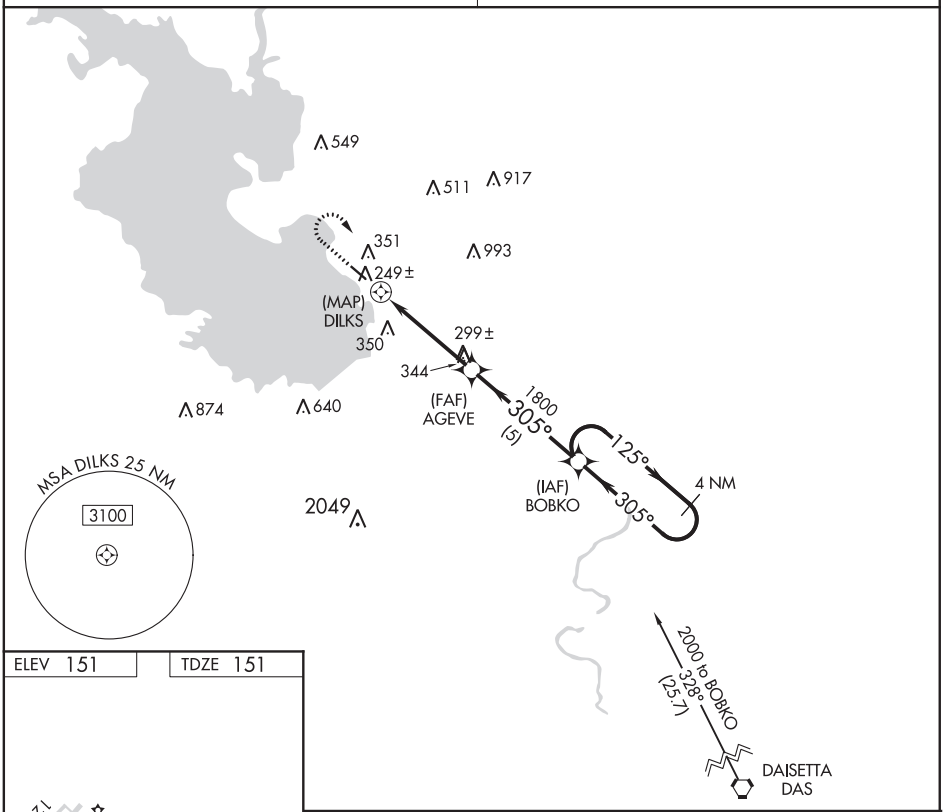
APP CRS	Rwy ldg	3704
305°	TDZE	151
	Apt Elev	151

NA

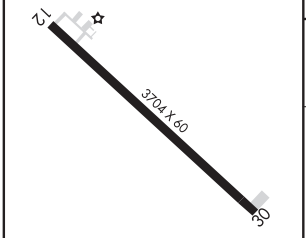
Use Houston/Lone Star Executive altimeter setting. DME/DME RNP-0.3 NA. Helicopter visibility reduction below 1 SM NA. Night landing: Rwy 30 NA.

MISSED APPROACH: Climb to 1000 then climbing right turn to 2000 direct BOBKO WP and hold.

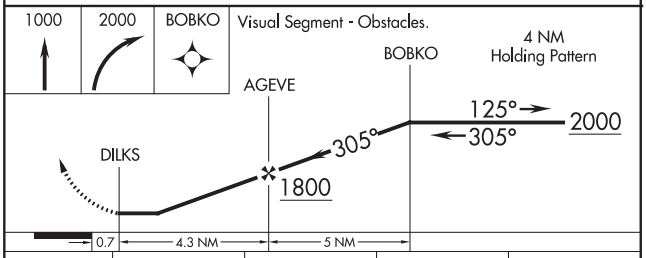
HOUSTON CENTER	UNICOM
125.175 285.575	122.7 (CTAF)



ELEV 151 | TDZE 151



MIRL Rwy 12-30



CATEGORY	A	B	C	D
LNAV MDA	620-1	469 (500-1)	620-1¼ 469 (500-1¼)	NA
CIRCLING	800-1	649 (700-1)	800-1¾ 649 (700-1¾)	NA

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ILS or LOC RWY 7
ANGELINA COUNTY (LFK)

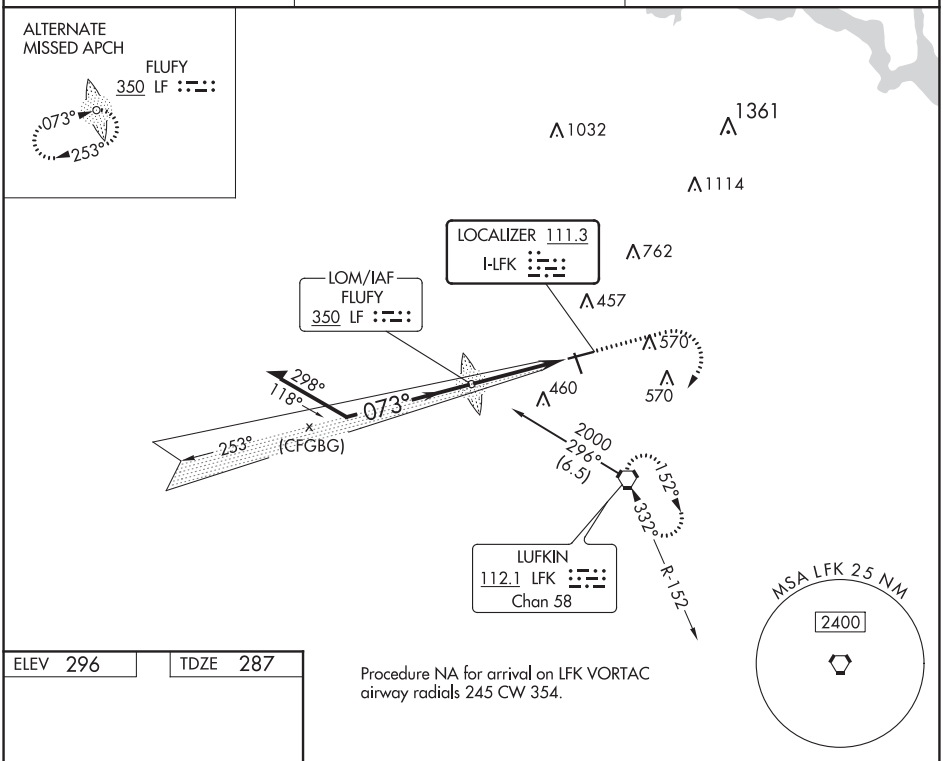
LOC I-LFK	APP CRS	Rwy ldg	5400
111.3	073°	TDZE	287
		Apt Elev	296

NA — Circling Rwy 16, 25 NA at night.

MALSR

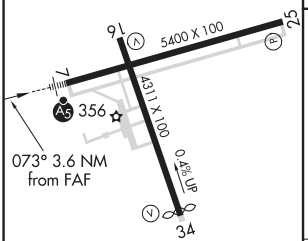
MISSED APPROACH: Climb to 800 then climbing right turn to 2000 direct LFK VORTAC and hold, continue climb-in-hold.

ASOS	HOUSTON CENTER	UNICOM
120.625	125.175 285.575	123.0 (CTAF)



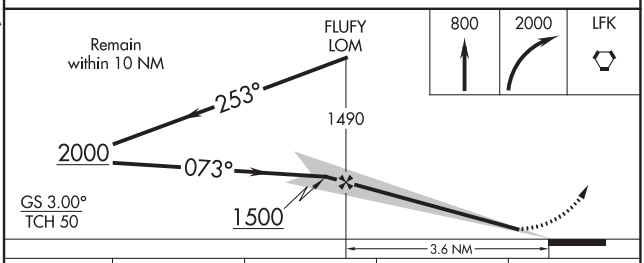
Procedure NA for arrival on LFK VORTAC airway radials 245 CW 354.

ELEV 296 TDZE 287



MIRL Rwys 7-25 and 16-34

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
S-ILS 7	537-½ 250 (300-½)			
S-LOC 7	680-½ 393 (400-½)		680-⅝ 393 (400-⅝)	
C CIRCLING	740-1 444 (500-1)	760-1 464 (500-1)	880-1½ 584 (600-1½)	1140-2¾ 844 (900-2¾)

SC-5, 25 FEB 2021 to 22 APR 2021
SC-5, 25 FEB 2021 to 22 APR 2021

LUFKIN, TEXAS

AL-870 (FAA)

20142

RNAV (GPS) RWY 7
ANGELINA COUNTY (LFK)

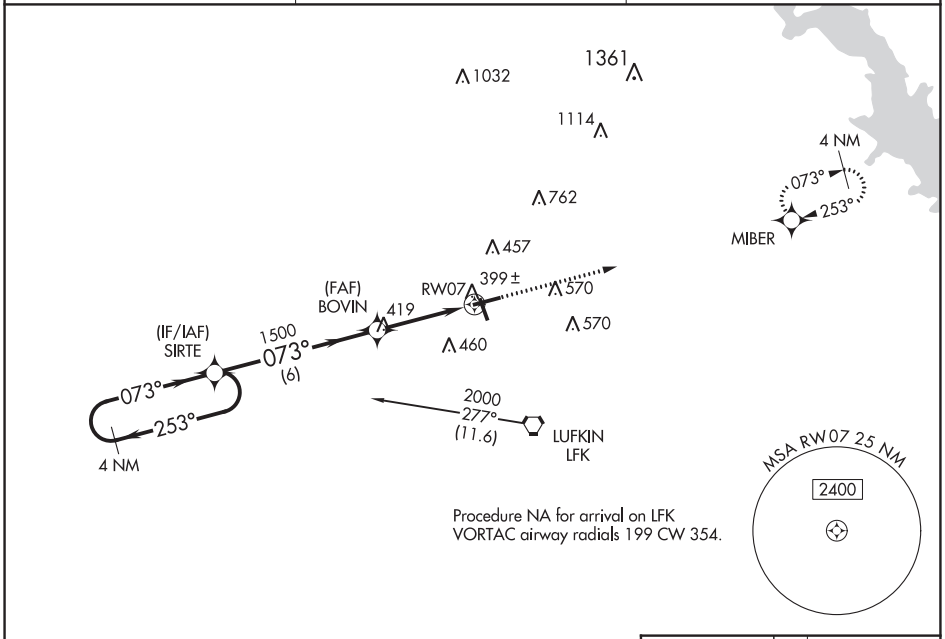
WAAS CH 50105 W07A	APP CRS 073°	Rwy ldg 5400 TDZE 287 Apt Elev 296

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -4°C (25°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. Circling Rwy 16, 25 NA at night.

MALSR

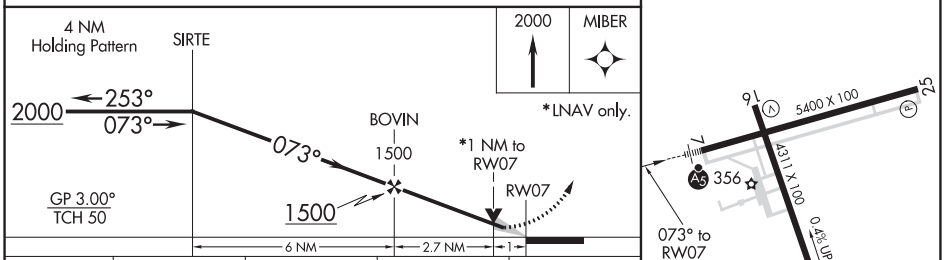
MISSED APPROACH: Climb to 2000 direct MIBER and hold.

ASOS	HOUSTON CENTER	UNICOM
120.625	125.175 285.575	123.0 (CTAF) L



Procedure NA for arrival on LFK VORTAC airway radials 199 CW 354.

ELEV 296	TDZE 287



CATEGORY	A	B	C	D
LPV DA	537-½ 250 (300-½)			
LNAV/VNAV DA	563-½ 276 (300-½)			
LNAV MDA	660-½ 373 (400-½)		660-⅝ 373 (400-⅝)	
C CIRCLING	740-1 444 (500-1)	760-1 464 (500-1)	880-1½ 584 (600-1½)	1140-2¾ 844 (900-2¾)

MIRL Rwys 7-25 and 16-34 L

SC-5, 25 FEB 2021 to 22 APR 2021

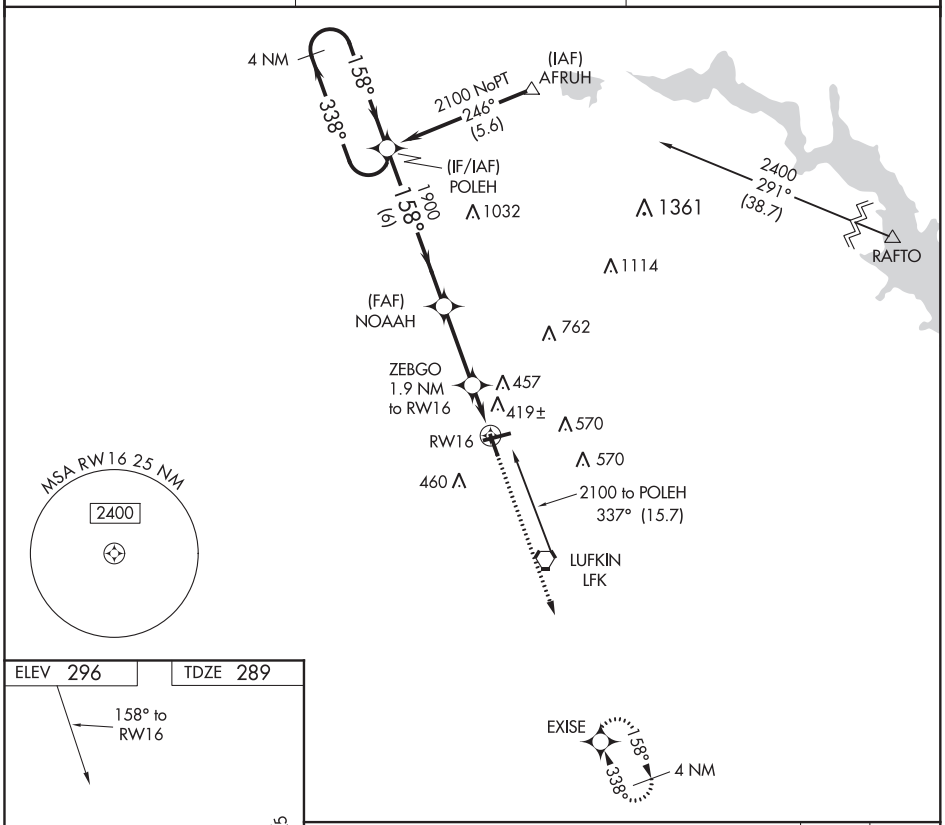
APP CRS	Rwy ldg	4311
158°	TDZE	289
	Apt Elev	296

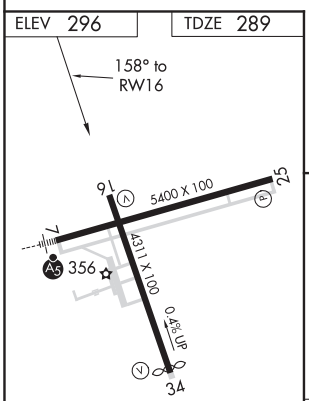
RNAV (GPS) RWY 16
ANGELINA COUNTY (LFK)

DME/DME RNP-0.3 NA.
Straight in Rwy 16 NA at night, Circling Rwy 16, 25 NA at night.
Rwy 16 helicopter visibility reduction below 1 SM NA.

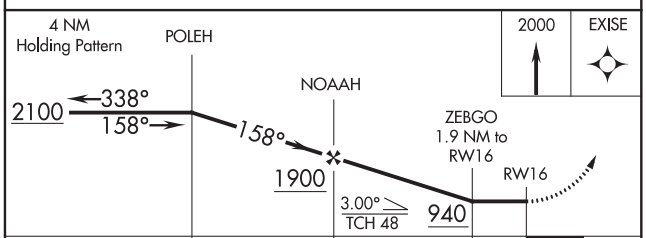
MISSED APPROACH: Climb to 2000 direct EXISE and hold.

ASOS	HOUSTON CENTER	UNICOM
120.625	125.175 285.575	123.0 (CTAF) L





MIRL Rwys 7-25 and 16-34 L



CATEGORY	A	B	C	D
LNAV MDA	680-1 391 (400-1)		680-1⅛ 391 (400-1⅛)	
C CIRCLING	740-1 444 (500-1)	760-1 464 (500-1)	880-1½ 584 (600-1½)	1140-2¾ 844 (900-2¾)

SC-5, 25 FEB 2021 to 22 APR 2021

SC-5, 25 FEB 2021 to 22 APR 2021

LUFKIN, TEXAS | AL-870 (FAA) | 20142

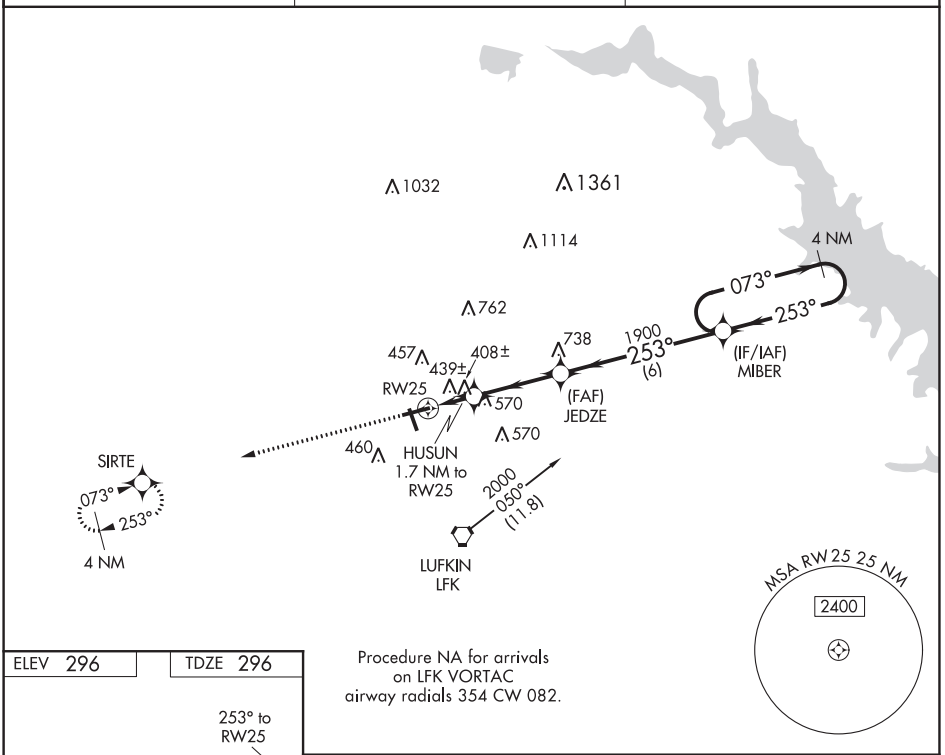
WAAS CH 72641 W25A	APP CRS 253°	Rwy ldg 5400 TDZE 296 Apt Elev 296

RNAV (GPS) RWY 25
ANGELINA COUNTY (LFK)

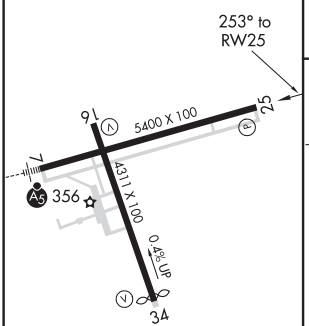
T A W: DME/DME RNP- 0.3 NA. Straight-in Rwy 25 NA at night, Circling Rwy 16, 25 NA at night. Rwy 25 helicopter visibility reduction below 1 SM NA.

MISSED APPROACH: Climb to 2000 direct SIRTE and hold.

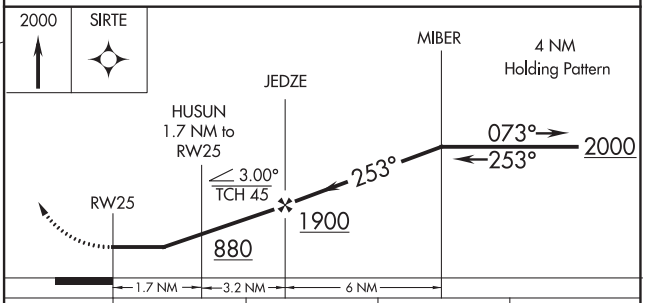
ASOS	HOUSTON CENTER	UNICOM
120.625	125.175 285.575	123.0 (CTAF) L



ELEV 296 | TDZE 296



MIRL Rwys 7-25 and 16-34 L



CATEGORY	A	B	C	D
LP MDA	660-1 364 (400-1)			
LNAV MDA	700-1 404 (500-1)		700-1⅛ 404 (500-1⅛)	
C CIRCLING	740-1 444 (500-1)	760-1 464 (500-1)	880-1½ 584 (600-1½)	1140-2¾ 844 (900-2¾)

SC-5, 25 FEB 2021 to 22 APR 2021

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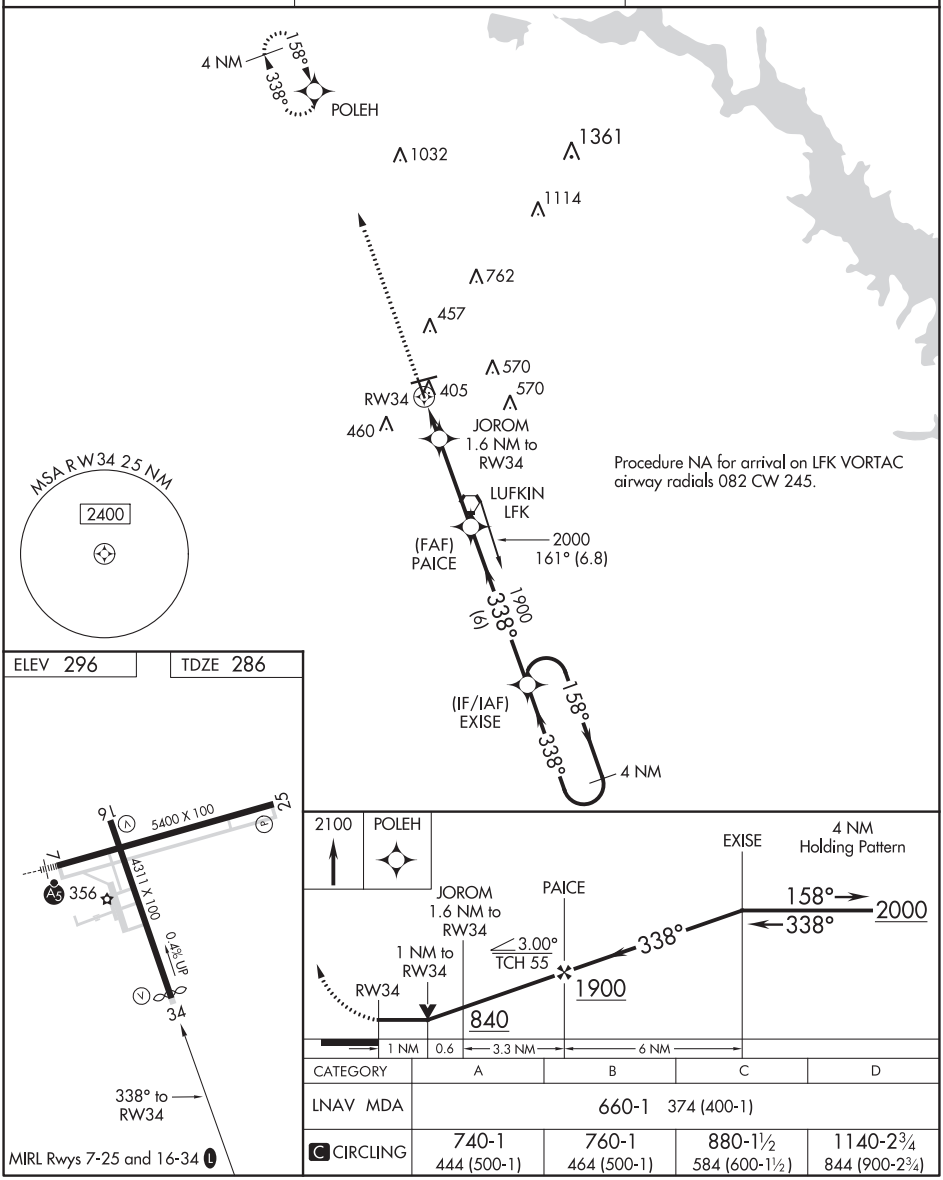
RNAV (GPS) RWY 34
ANGELINA COUNTY (LFK)

APP CRS	Rwy ldg	4204
338°	TDZE	286
	Apt Elev	296

DME/DME RNP-0.3 NA. Circling Rwy 16, 25 NA at night.
Rwy 34 helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 2100 direct POLEH and hold.

ASOS	HOUSTON CENTER	UNICOM
120.625	125.175 285.575	123.0 (CTAF) L



CATEGORY	A	B	C	D
LNAV MDA	660-1 374 (400-1)			
C CIRCLING	740-1 444 (500-1)	760-1 464 (500-1)	880-1½ 584 (600-1½)	1140-2¾ 844 (900-2¾)

SC-5, 25 FEB 2021 to 22 APR 2021
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LUFKIN, TEXAS

AL-870 (FAA)

20142

VOR RWY 16

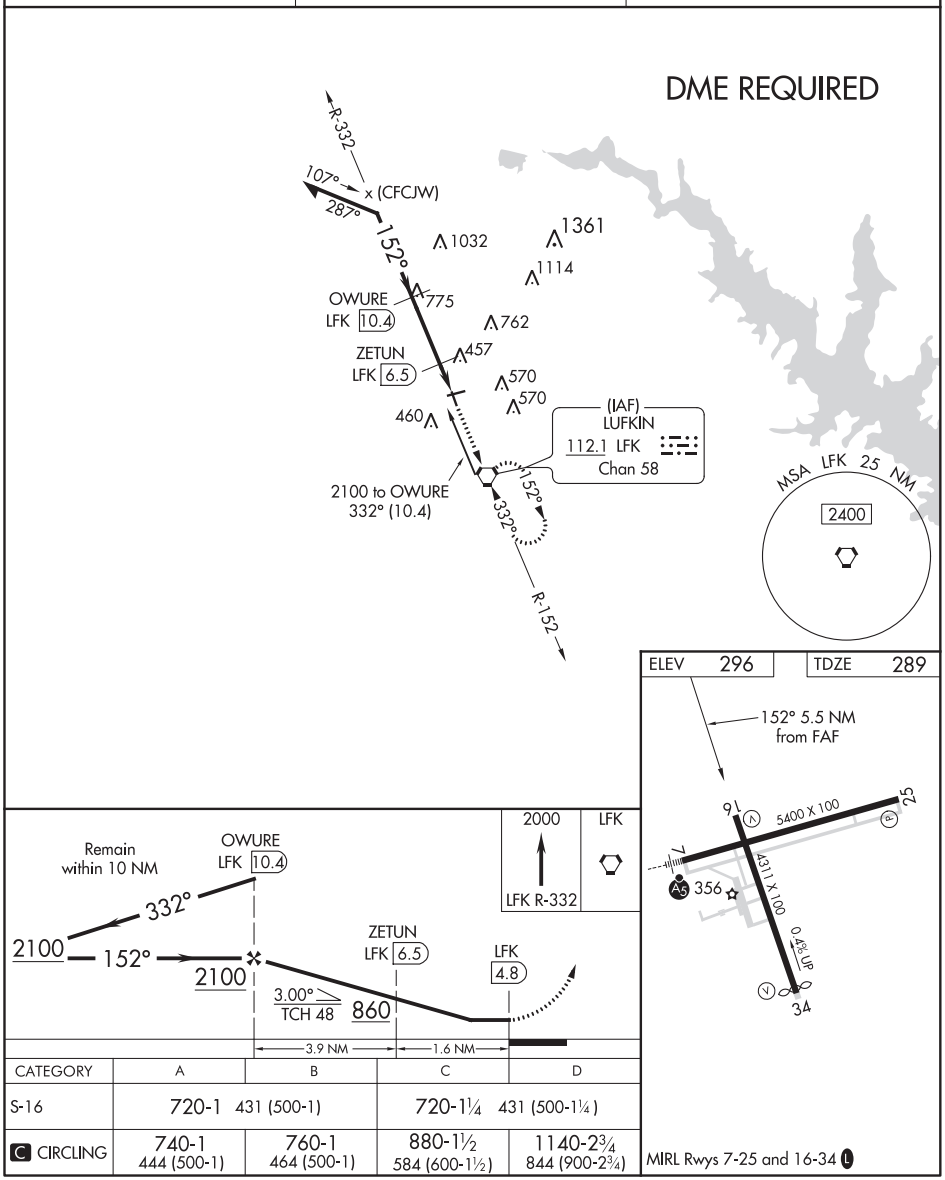
ANGELINA COUNTY (LFK)

VORTAC LFK	APP CRS	Rwy ldg	4311
112.1	152°	TDZE	289
Chan 58		Apt Elev	296

Rwy 16 helicopter visibility reduction below 1 SM NA.
DME Required. Straight-in Rwy 16 NA at night,
Circling Rwy 16, 25 NA at night.

MISSED APPROACH: Climb to 2000 on LFK VORTAC R-332 to LFK VORTAC and hold.

ASOS	HOUSTON CENTER	UNICOM
120.625	125.175 285.575	123.0 (CTAF) L



CATEGORY	A	B	C	D
S-16	720-1 431 (500-1)		720-1¼ 431 (500-1¼)	
C CIRCLING	740-1 444 (500-1)	760-1 464 (500-1)	880-1½ 584 (600-1½)	1140-2¾ 844 (900-2¾)

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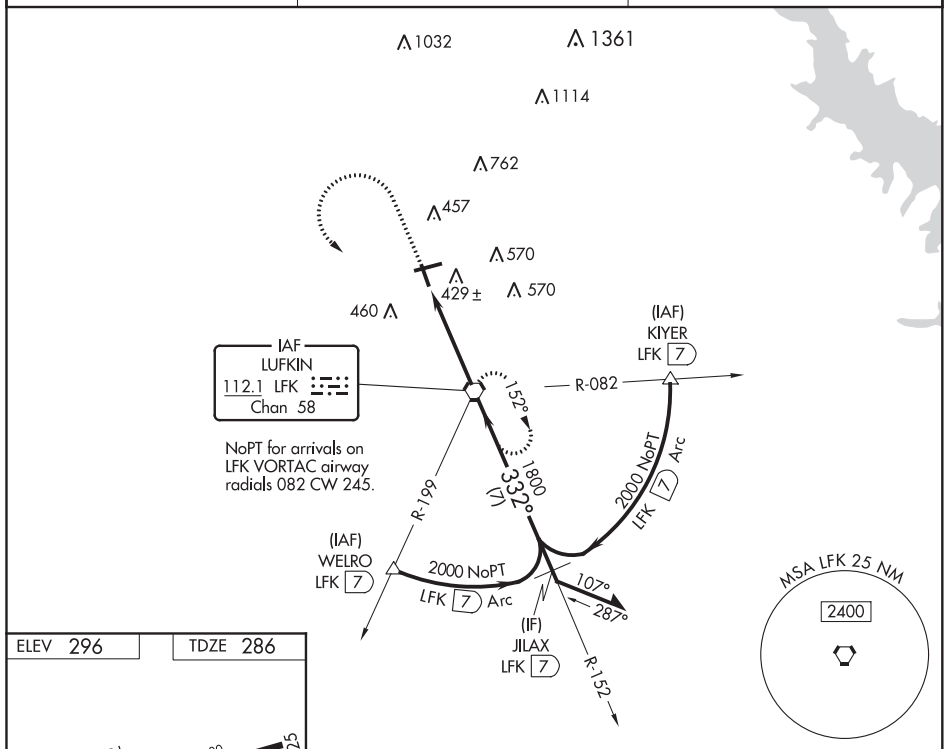
VORTAC LFK	APP CRS	Rwy ldg	4204
112.1	332°	TDZE	286
Chan 58		Apt Elev	296

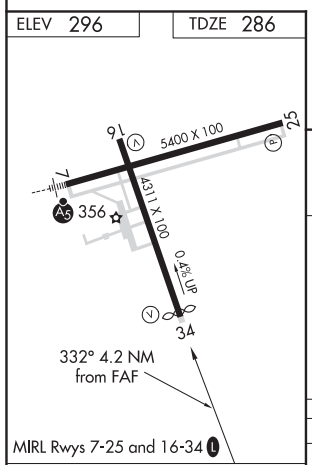
VOR RWY 34
ANGELINA COUNTY (LFK)

Rwy 34 helicopter visibility reduction below 1 SM NA.
Straight-In Rwy 34 NA at night, Circling to Rwy 16, 25, 34 NA at night.

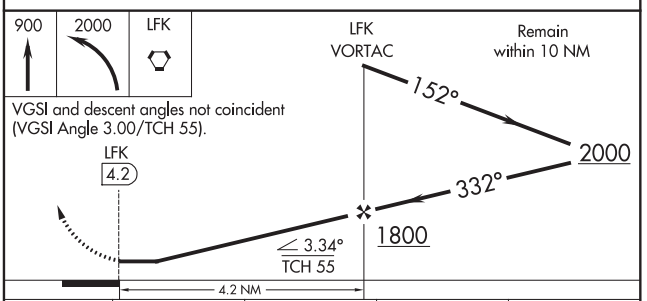
MISSED APPROACH: Climb to 900 then climbing left turn to 2000 direct LFK VORTAC and hold.

ASOS	HOUSTON CENTER	UNICOM
120.625	125.175 285.575	123.0 (CTAF) L





FAF to MAP 4.2 NM					
Knots	60	90	120	150	180
Min:Sec	4:12	2:48	2:06	1:41	1:24



CATEGORY	A	B	C	D
S-34	680-1 394 (400-1)		680-1⅛ 394 (400-1⅛)	
C CIRCLING	740-1 444 (500-1)	760-1 464 (500-1)	880-1½ 584 (600-1½)	1140-2¾ 844 (900-2¾)

SC-5, 25 FEB 2021 to 22 APR 2021
SC-5, 25 FEB 2021 to 22 APR 2021

MADISONVILLE, TEXAS | AL-6843 (FAA) | 19311

RNAV (GPS) RWY 18

MADISONVILLE MUNI (51R)

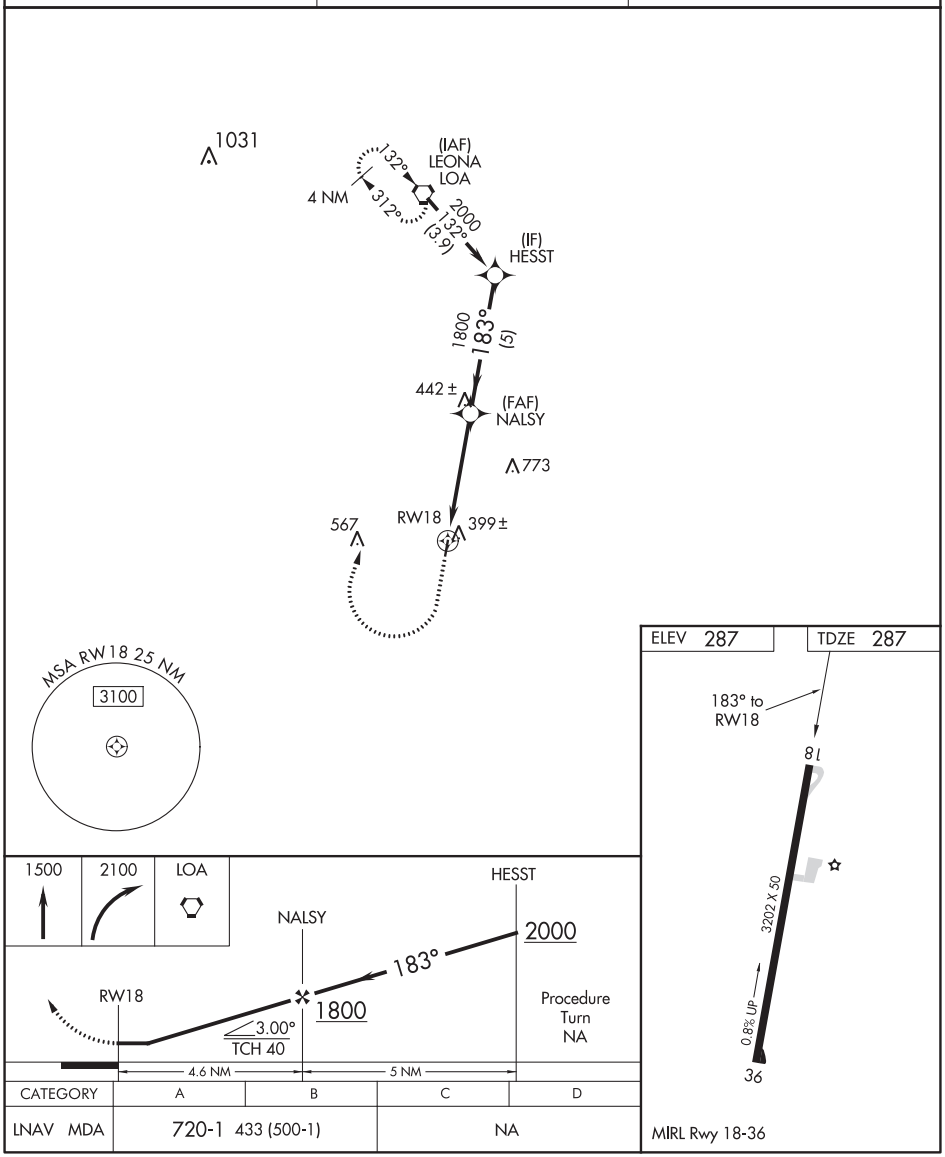
APP CRS	Rwy ldg	3202
183°	TDZE	287
	Apt Elev	287

RNP APCH.

Use Huntsville Muni altimeter setting.
NA Procedure NA at night.
Rwy 18 helicopter visibility reduction below 1 SM NA.

MISSED APPROACH: Climb to 1500, then climbing right turn to 2100 direct LOA VORTAC and hold.

UTS ASOS	HOUSTON CENTER	CTAF
119.425	134.8 269.6	122.9



CATEGORY	A	B	C	D
LNAV MDA	720-1 433 (500-1)		NA	

SC-5, 25 FEB 2021 to 22 APR 2021

SC-5, 25 FEB 2021 to 22 APR 2021

APP CRS	Rwy ldg	3202
003°	TDZE	283
	Apt Elev	287

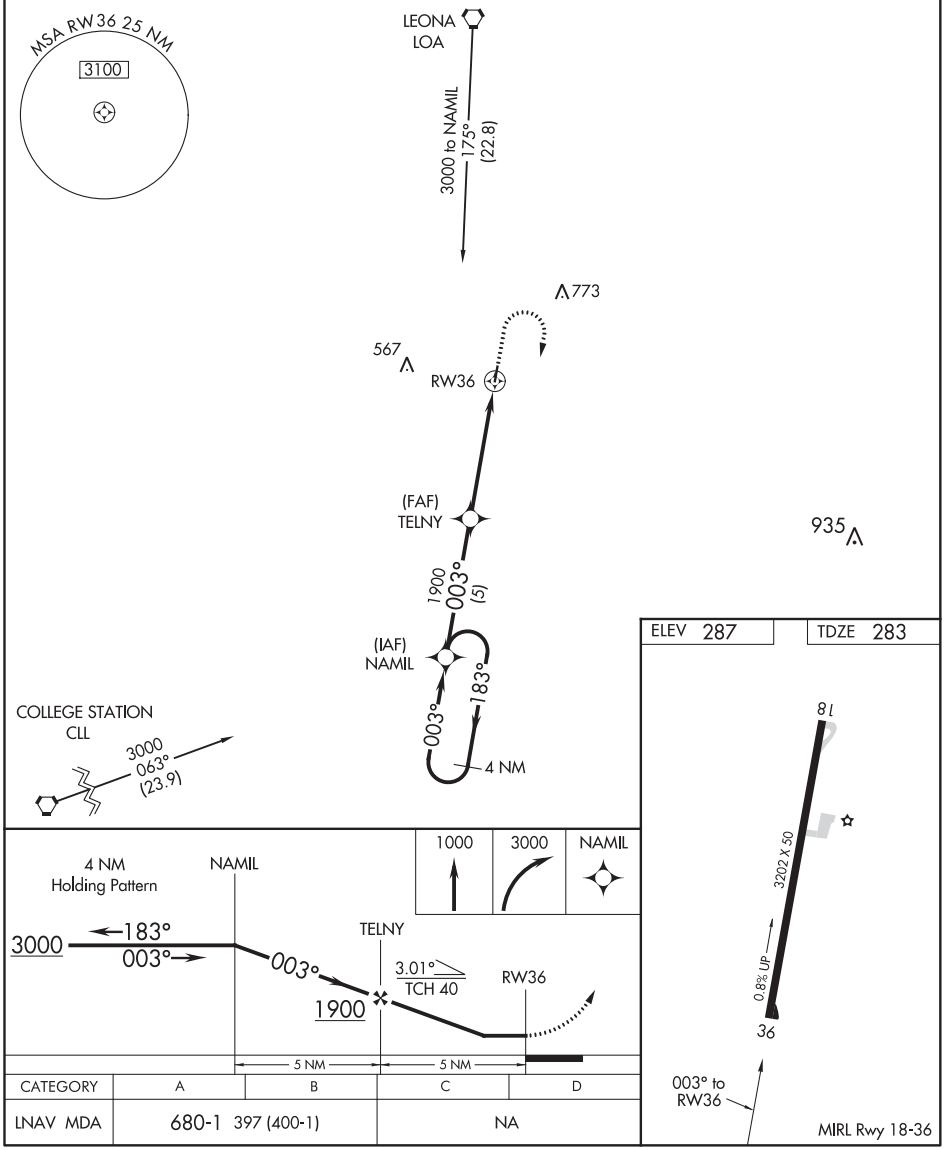
RNAV (GPS) RWY 36
MADISONVILLE MUNI (51R)

RNP APCH.

Use Huntsville Muni altimeter setting.
NA Procedure NA at night.
Rwy 36 helicopter visibility reduction below 1 SM NA.

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

UTS ASOS	HOUSTON CENTER	CTAF
119.425	134.8 269.6	122.9



CATEGORY	A	B	C	D
LNAV MDA	680-1 397 (400-1)		NA	

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MADISONVILLE, TEXAS | AL-6843 (FAA) | 19283

VOR/DME RWY 18

MADISONVILLE MUNI (51R)

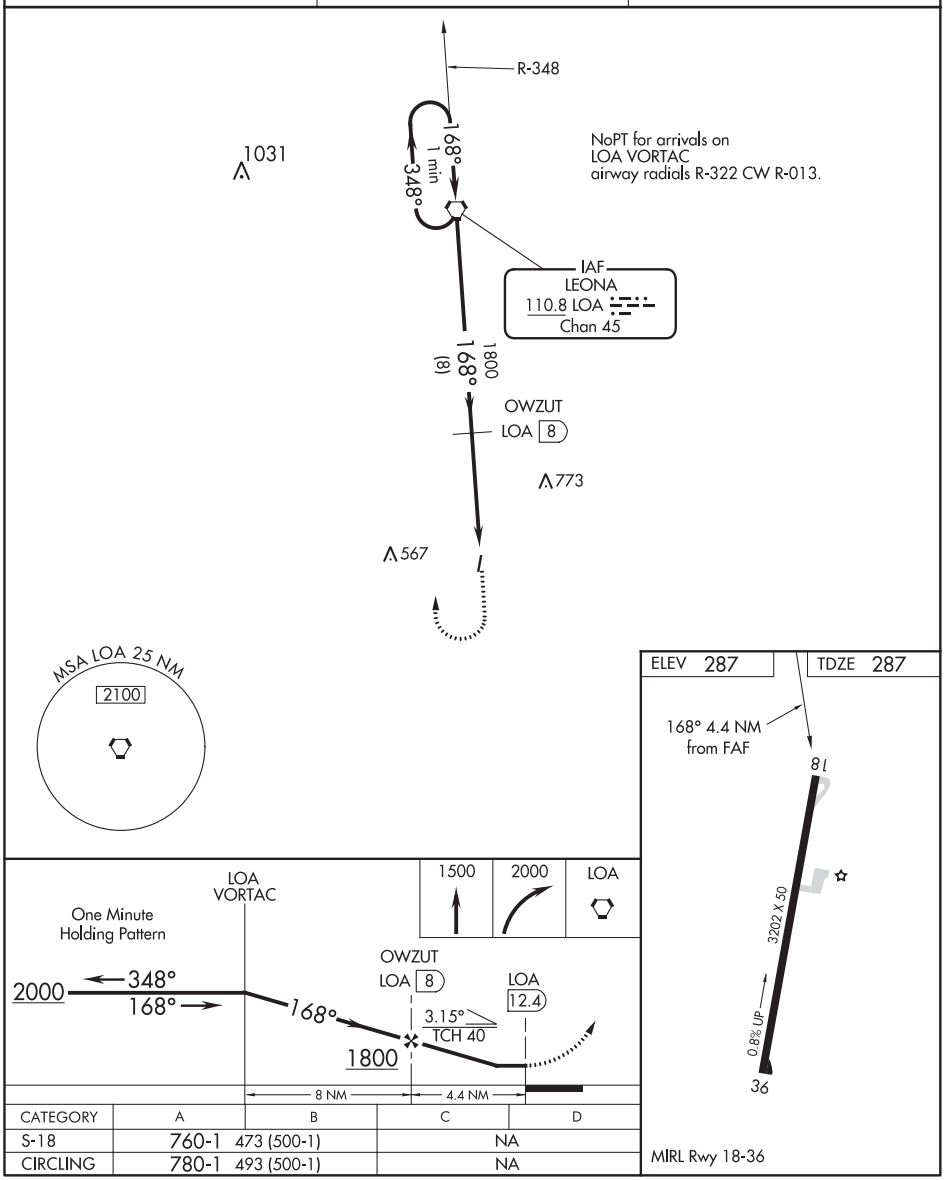
VORTAC LOA	APP CRS	Rwy ldg	3202
110.8	168°	TDZE	287
Chan 45		Apt Elev	287

Use Huntsville Muni altimeter setting.
Procedure NA at night.
Helicopter visibility reduction below 1 SM NA.

NA

MISSED APPROACH: Climb to 1500, then climbing right turn to 2000 direct LOA VORTAC and hold.

UTS ASOS	HOUSTON APP CON	CTAF
119.425	134.8 269.6	122.9



CATEGORY	A	B	C	D
S-18	760-1	473 (500-1)	NA	
CIRCLING	780-1	493 (500-1)	NA	

MADISONVILLE, TEXAS
Amdt 2B 12NOV15

30°55′N-95°57′W

MADISONVILLE MUNI (51R)

VOR/DME RWY 18

SC-5, 25 FEB 2021 to 22 APR 2021

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VOR/DME or GPS-A
MARLIN (T15)

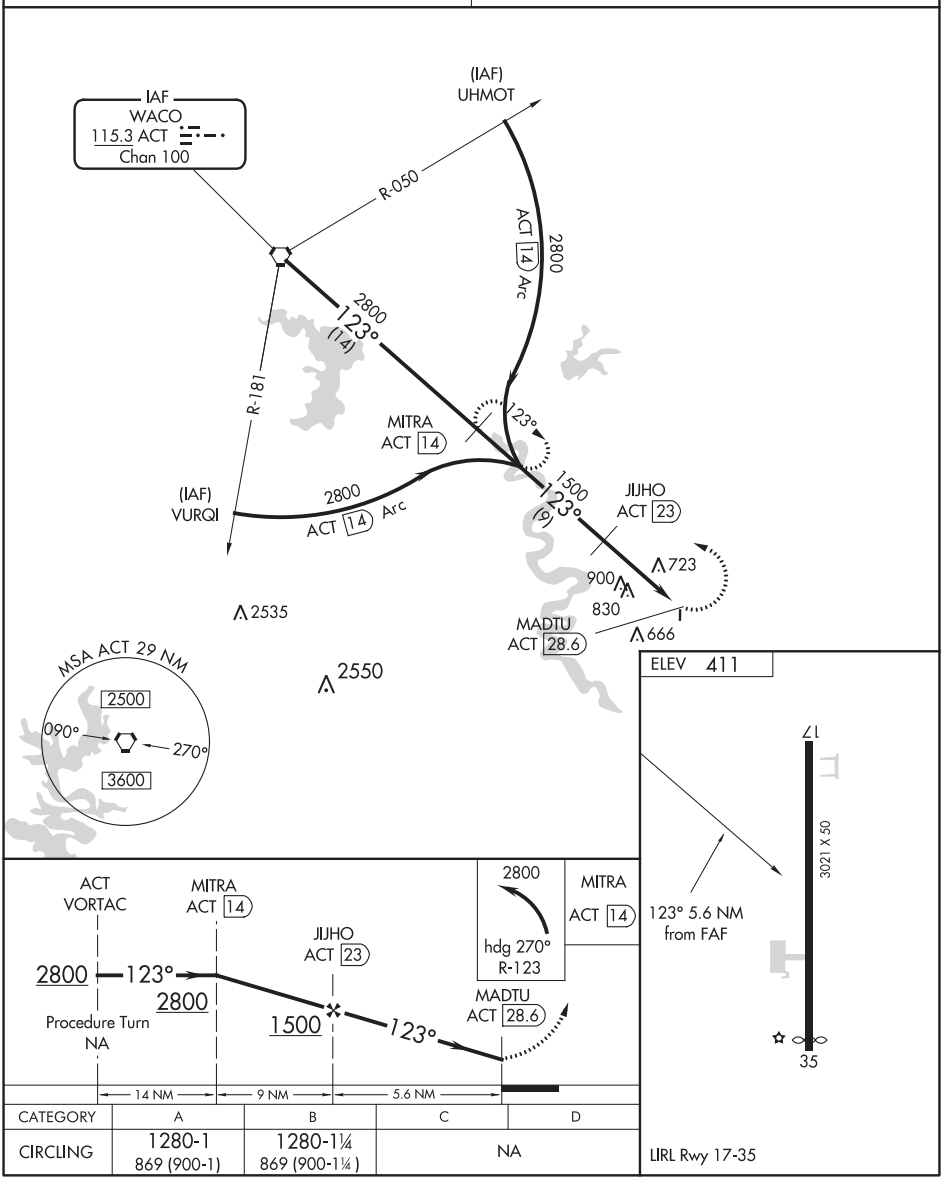
VOR ACT	APP CRS	Rwy ldg	N/A
115.3 Chan 100	123°	TDZE	N/A
		Apt Elev	411

Use Waco Rgnl altimeter setting.

NA

MISSED APPROACH: Climbing left turn to 2800 via heading 270° and R-123 to MITRA/14 DME and hold.

WACO APP CON ★	CTAF
127.65 352.0	122.9



CATEGORY	A	B	C	D
CIRCLING	1280-1 869 (900-1)	1280-1¼ 869 (900-1¼)	NA	

LIRL Rwy 17-35

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MEXIA, TEXAS

AL-6438 (FAA)

21056

RNAV (GPS) RWY 36
MEXIA-LIMESTONE COUNTY (LXY)

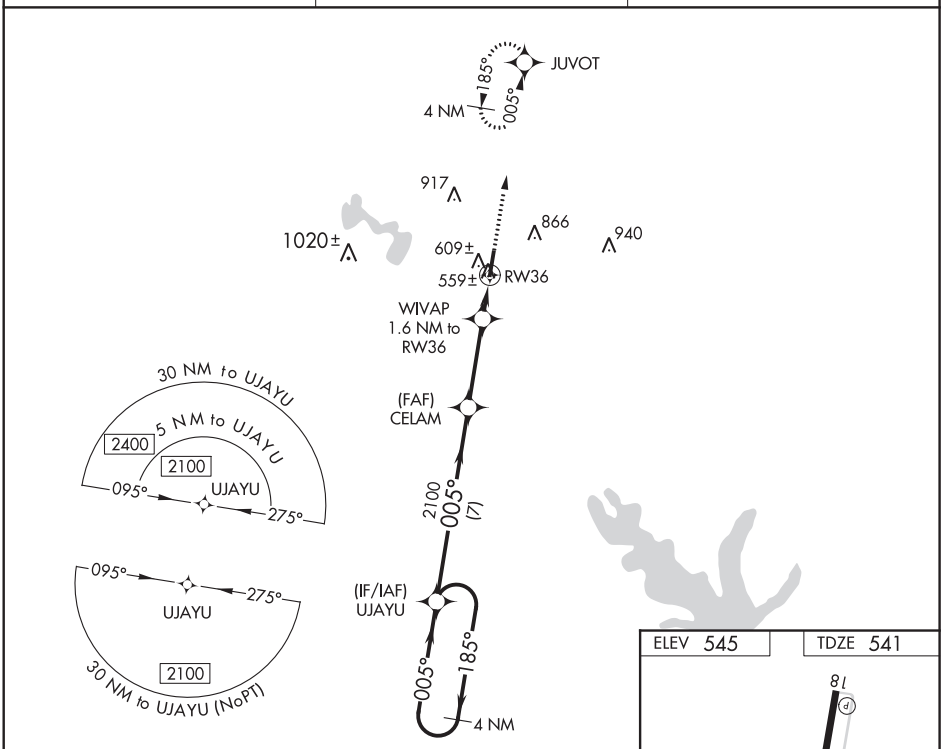
WAAS CH 69228 W36A	APP CRS 005°	Rwy ldg 5000 TDZE 541 Apt Elev 545

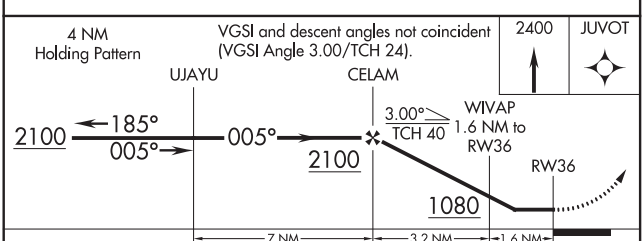
DME/DME RNP-0.3 NA. Helicopter visibility reduction below ¾ SM NA. Obtain local altimeter setting on CTAF; when not received, use Waco Rgnl altimeter setting and increase all MDA 100 feet; increase LP Cat C visibility ⅛ mile and LNAV and circling Cat C visibility ¼ mile.

NA

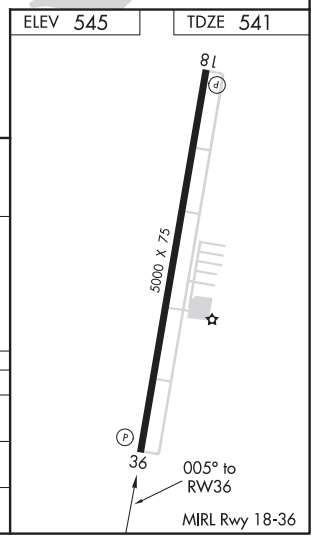
MISSED APPROACH: Climb to 2400 direct JUVOT and hold.

AWOS-3	WACO APP CON★	UNICOM
127.275	127.65 352.0	122.8 (CTAF)





CATEGORY	A	B	C	D
LP MDA	860-1 319 (400-1)			NA
LNAV MDA	880-1 339 (400-1)			NA
CIRCLING	960-1 415 (500-1)	1000-1 456 (500-1)	1180-1¾ 636 (700-1¾)	NA



SC-5, 25 FEB 2021 to 22 APR 2021

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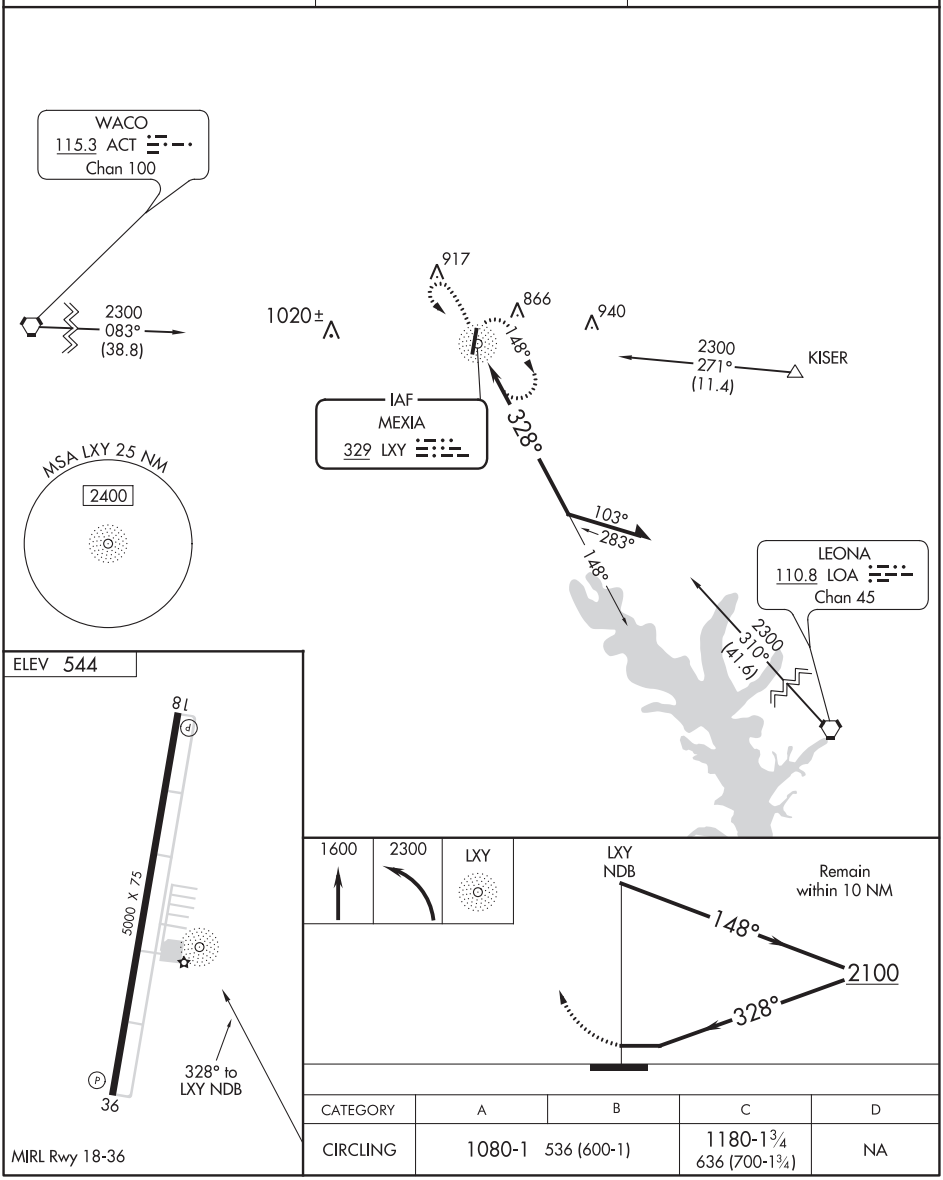
NDB-A
MEXIA-LIMESTONE COUNTY (LXY)

NDB LXY	APP CRS	Rwy ldg	N/A
329	328°	TDZE	N/A
		Apt Elev	544

T A NA — Obtain local altimeter setting on CTAF; when not received, use Waco Rgnl altimeter setting and increase all MDA 100 feet and Cat C visibility ¼ mile. Rwy 36 helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 1600 then climbing left turn to 2300 direct LXY NDB and hold.

AWOS-3	WACO APP CON ★	UNICOM
127.275	127.65 352.0	122.8 (CTAF)



CATEGORY	A	B	C	D
CIRCLING	1080-1	536 (600-1)	1180-1¾ 636 (700-1¾)	NA

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NACOGDOCHES, TEXAS | AL-5647 (FAA) | 20086

ILS or LOC RWY 36
NACOGDOCHES A L MANGHAM JR RGNL (OCH)

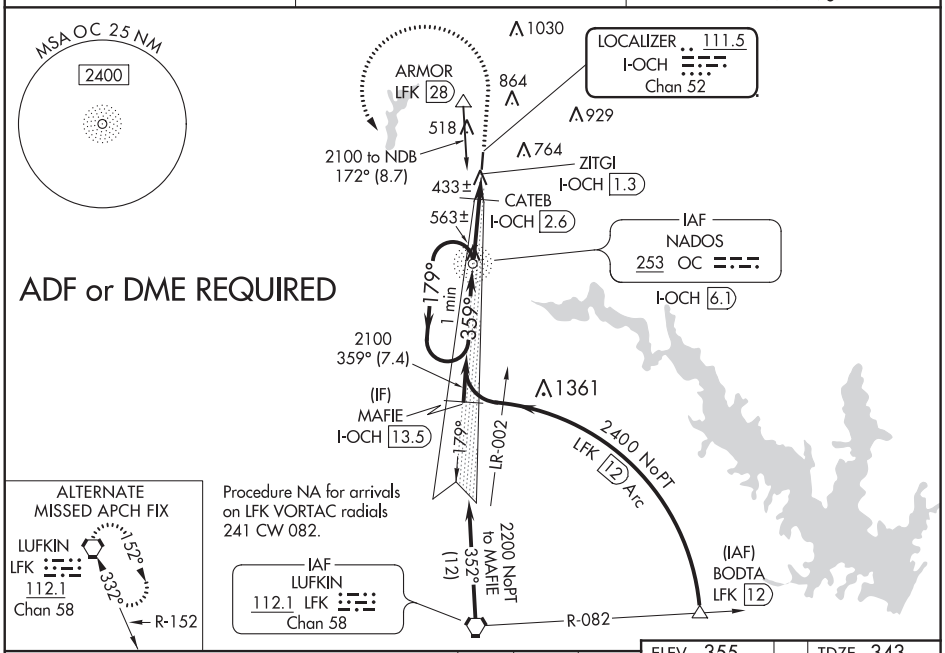
LOC/DME I-OCH	APP CRS	Rwy ldg	5000
111.5	359°	TDZE	343
Chan 52		Apt Elev	355

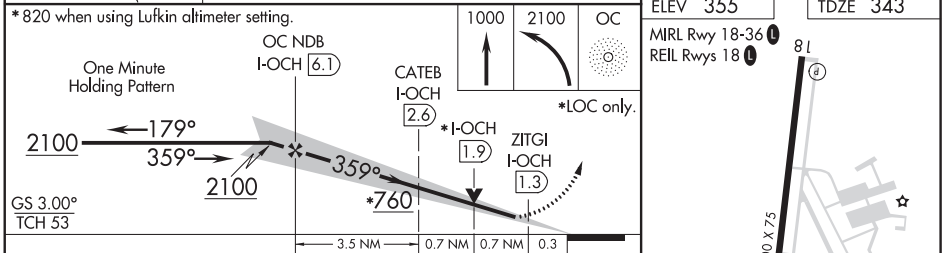
T A NA — ADF required. When local altimeter setting not received, use Lufkin altimeter setting and increase all DA 56 feet and all MDA 60 feet and increase all S-LOC 36 Cat C visibilities ¼ SM. VDP NA when using Lufkin altimeter setting. Localizer unusable inside 0.3 NM from threshold. Autopilot coupled approach NA below 740.

MALSR A5

MISSED APPROACH: Climb to 1000 then climbing left turn to 2100 direct NADOS/OC NDB and hold.

AWOS-3PT	HOUSTON CENTER	UNICOM
135.625	125.175 285.575	123.0 (CTAF) L

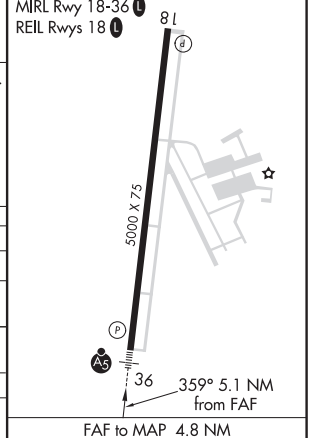




CATEGORY	A	B	C	D
S-ILS 36	543-½ 200 (200-½)			NA
S-LOC 36	760-½ 417 (500-½)		760-¾ 417 (500-¾)	NA
CIRCLING	860-1 505 (600-1)		860-1½ 505 (600-1½)	NA
CATEB FIX MINIMUMS (DME REQUIRED)				
S-LOC 36	700-½ 357 (400-½)		700-⅝ 357 (400-⅝)	NA
CIRCLING	860-1 505 (600-1)		860-1½ 505 (600-1½)	NA

ELEV 355 | TDZE 343

MIRL Rwy 18-36 L
REIL Rwys 18 L



FAF to MAP 4.8 NM

Knots	60	90	120	150	180
Min:Sec	4:48	3:12	2:24	1:55	1:36

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APP CRS	Rwy ldg	5000
173°	TDZE	343
	Apt Elev	355

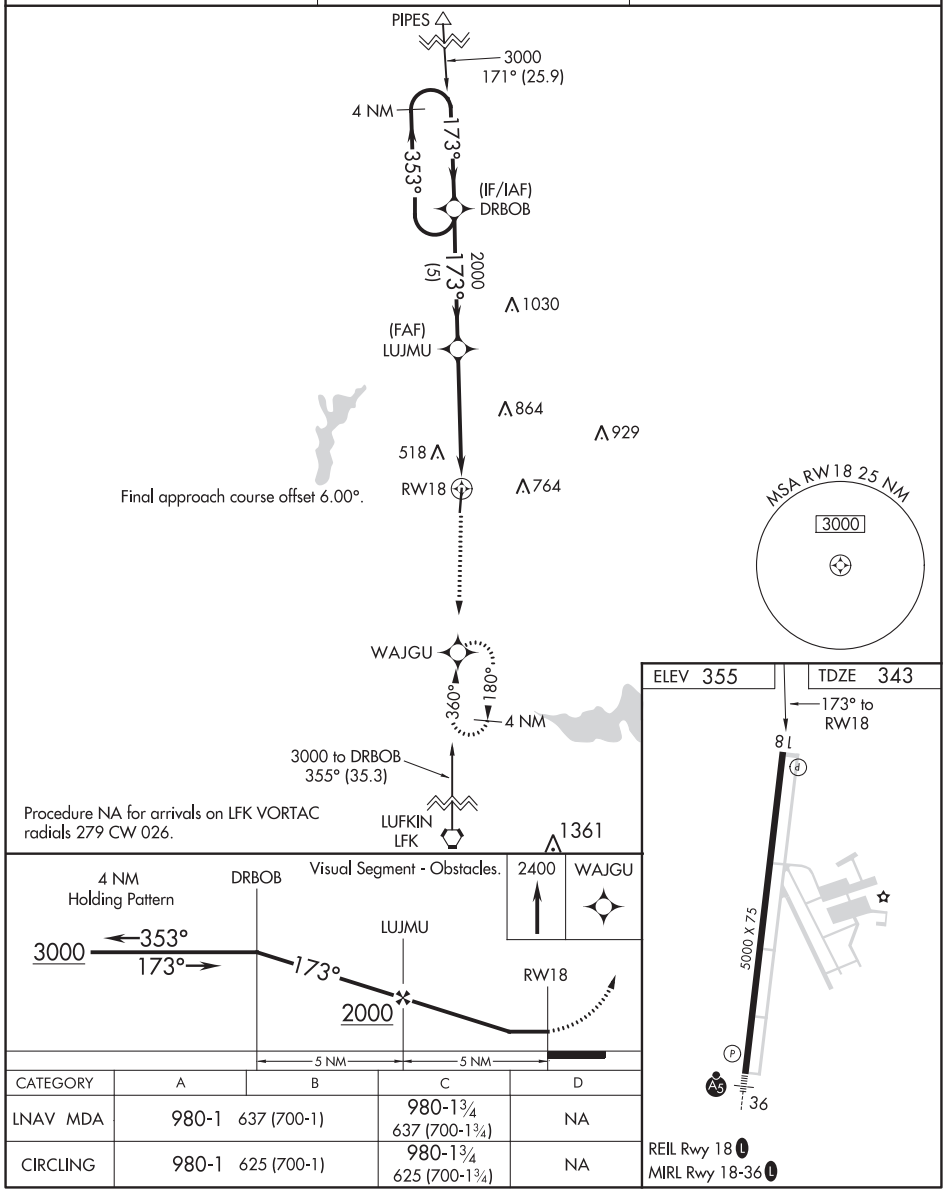
RNAV (GPS) RWY 18

NACOGDOCHES A L MANGHAM JR RGNL (OCH)

DME/DME RNP-0.3 NA. Rwy 18 helicopter visibility reduction below 1 SM NA. When local altimeter not received, use Lufkin altimeter setting and increase all MDA 60 feet and increase LNAV and Circling Cat C visibility to 2 SM.

MISSED APPROACH: Climb to 2400 direct WAJGU and hold.

AWOS-3PT	HOUSTON CENTER	UNICOM
135.625	125.175 285.575	123.0 (CTAF) L



CATEGORY	A	B	C	D
LNAV MDA	980-1 637 (700-1)		980-1¾ 637 (700-1¾)	NA
CIRCLING	980-1 625 (700-1)		980-1¾ 625 (700-1¾)	NA

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NACOGDOCHES, TEXAS | AL-5647 (FAA) | 20086

WAAS CH 93528 W36A	APP CRS 359°	Rwy ldg 5000 TDZE 343 Apt Elev 355

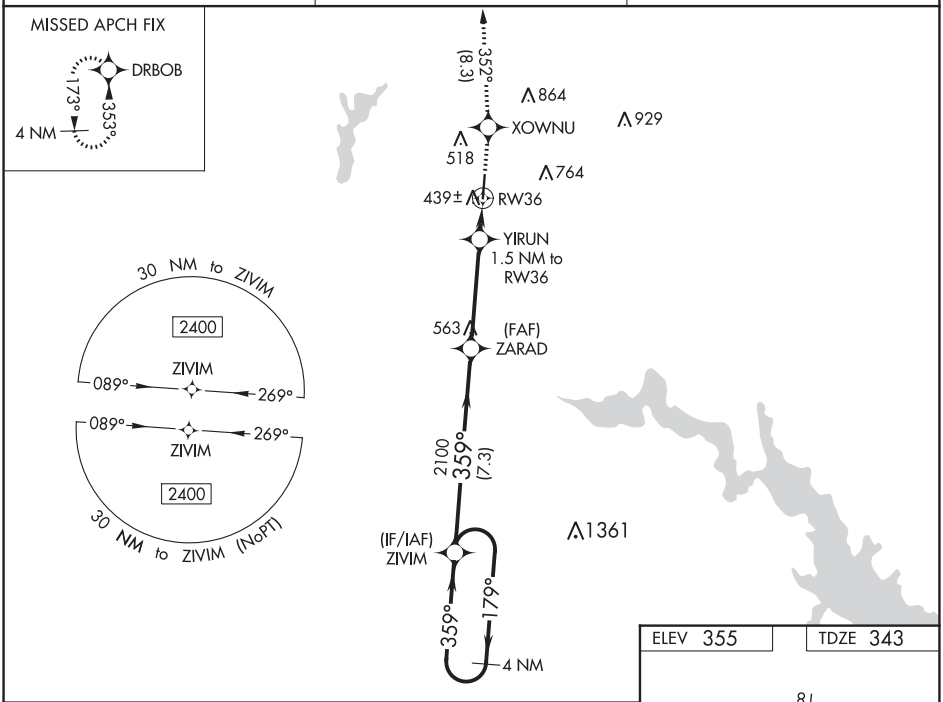
RNAV (GPS) RWY 36
NACOGDOCHES A L MANGHAM JR RGNL (OCH)

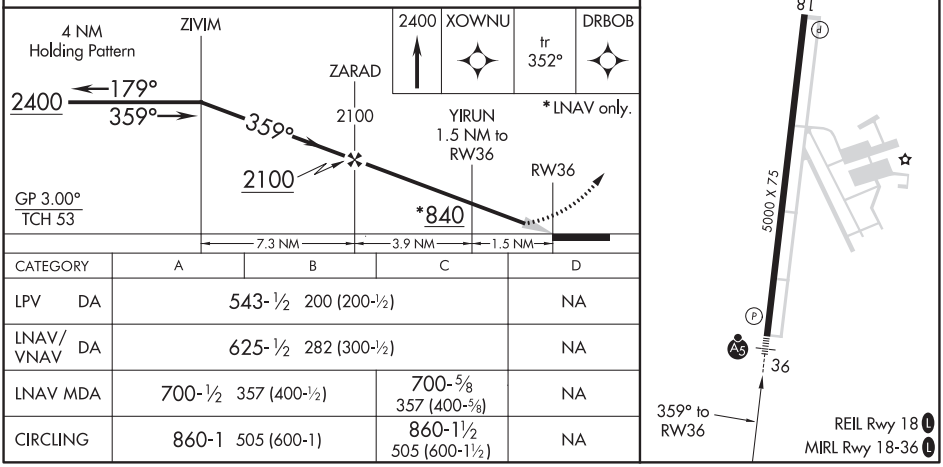
T A Baro-VNAV NA when using Lufkin altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. When local altimeter setting not received, use Lufkin altimeter setting and increase all DA 56 feet and all MDA 60 feet; increase LNAV/VNAV all Cats visibility ⅛ SM, increase LNAV Cat C visibility ⅛ SM.

MALSR A5

MISSED APPROACH: Climb to 2400 direct XOWNU and on track 352° to DRBOB and hold.

AWOS-3PT	HOUSTON CENTER	UNICOM
135.625	125.175 285.575	123.0 (CTAF) L





CATEGORY	A	B	C	D
LPV DA	543-½ 200 (200-½)			NA
LNAV/VNAV DA	625-½ 282 (300-½)			NA
LNAV MDA	700-½ 357 (400-½)		700-⅝ 357 (400-⅝)	NA
CIRCLING	860-1 505 (600-1)		860-1½ 505 (600-1½)	NA

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WAAS CH 42931 W17A	APP CRS 174°	Rwy ldg 5003 TDZE 229 Apt Elev 229

RNAV (GPS) RWY 17
NAVASOTA MUNI (60R)

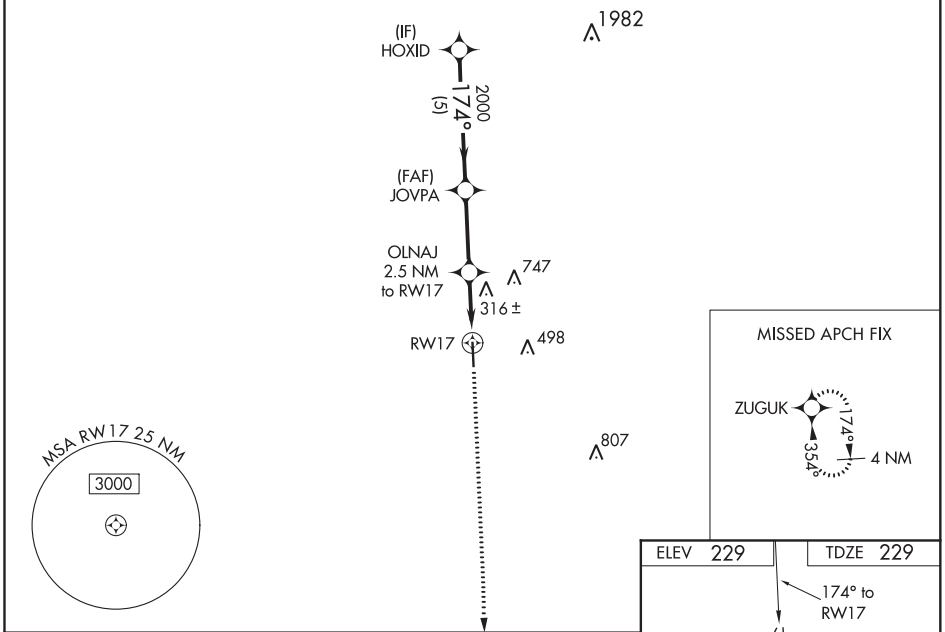
RNP APCH.

T A NA Use Brenham altimeter setting; when not received, use College Station altimeter setting and increase all DA 6 feet and all MDA 20 feet. Baro-VNAV NA. Rwy 17 helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 3000 direct ZUGUK and hold.

11R AWOS-3	HOUSTON APP CON	CTAF	
121.125	134.3 360.85	122.9	123.3 L

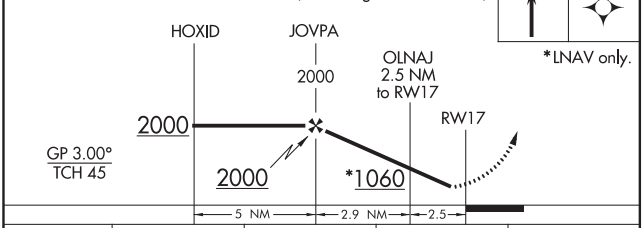
RADAR REQUIRED

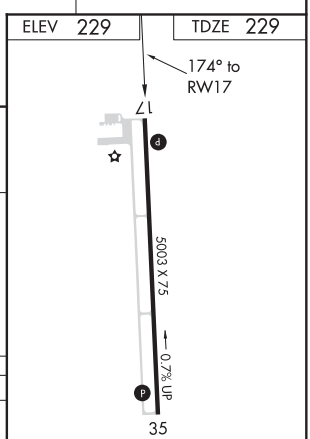


VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 45).

3000 ZUGUK

*LNAV only.





REIL Rwys 17 and 35
MIRL Rwy 17-35 L

CATEGORY	A	B	C	D
LPV DA	529-1 300 (300-1)			
LNAV/VNAV DA	635-1⅜ 406 (500-1⅜)			
LNAV MDA	620-1 391 (400-1)		620-1⅛ 391 (400-1⅛)	

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NAVASOTA, TEXAS | AL-6576 (FAA) | 21056

RNAV (GPS) RWY 35
NAVASOTA MUNI (6ØR)

WAAS CH 42831 W35A	APP CRS 354°	Rwy ldg 5003 TDZE 215 Apt Elev 229

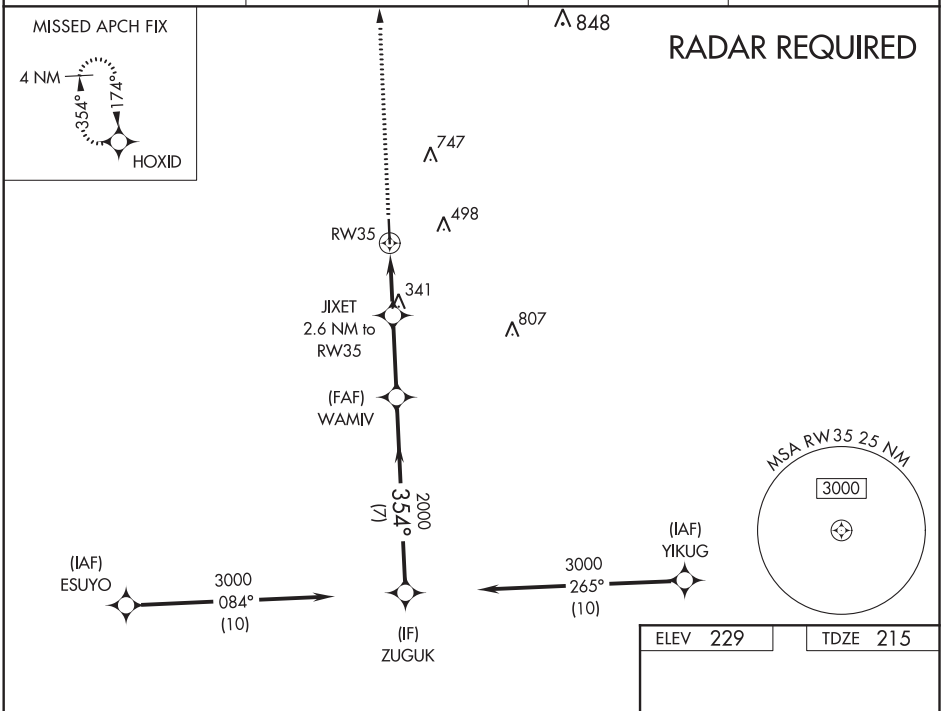
RNP APCH.

T NA

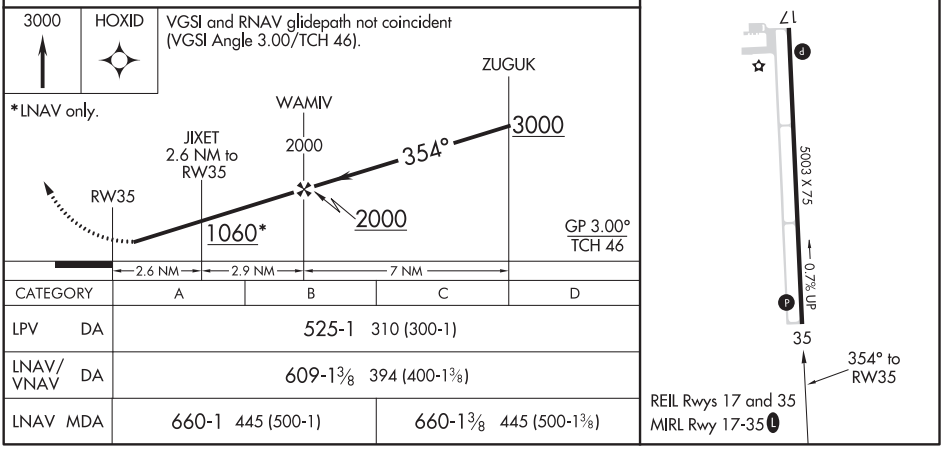
Use Brenham altimeter setting, when not received use College Station altimeter setting and increase all DA 6 feet and all MDA 20 feet.
Rwy 35 helicopter visibility reduction below ¾ SM NA. Baro-VNAV NA.

MISSED APPROACH: Climb to 3000 direct HOXID and hold.

11R AWOS-3	HOUSTON APP CON	CTAF	
121.125	134.3 360.85	122.9	123.3 L



ELEV 229 | TDZE 215



CATEGORY	A	B	C	D
LPV DA	525-1 310 (300-1)			
LNAV/VNAV DA	609-1⅜ 394 (400-1⅜)			
LNAV MDA	660-1 445 (500-1)		660-1⅜ 445 (500-1⅜)	

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VOR/DME TNV 115.9 Chan 106	APP CRS 321°	Rwy ldg N/A TDZE N/A Apt Elev 229

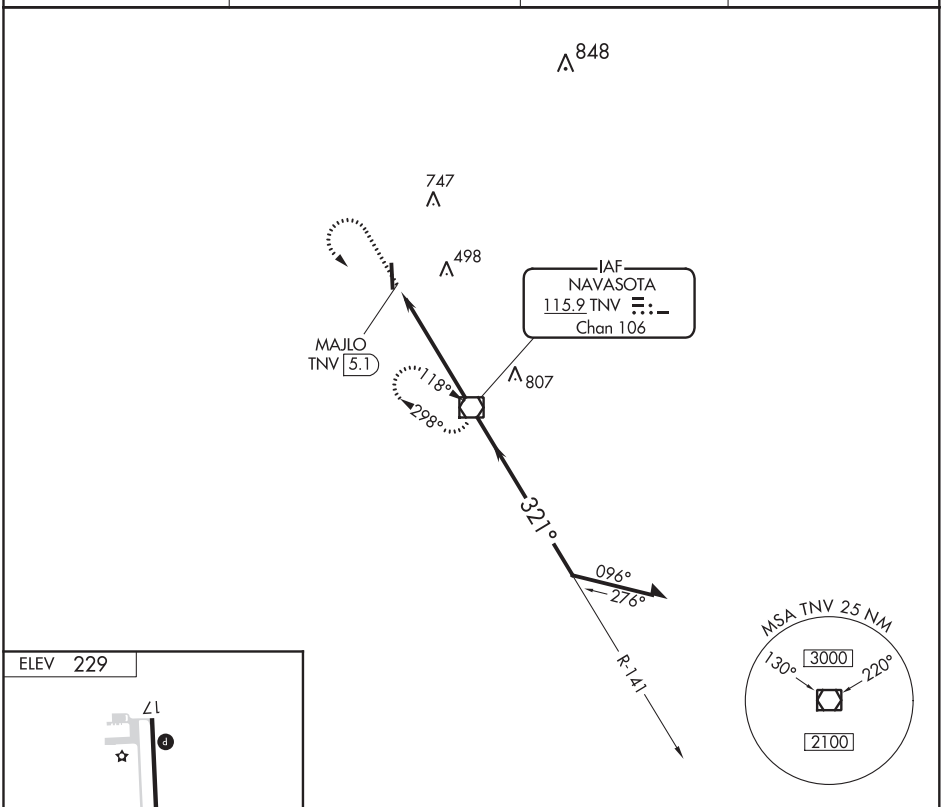
VOR-A
NAVASOTA MUNI (6ØR)

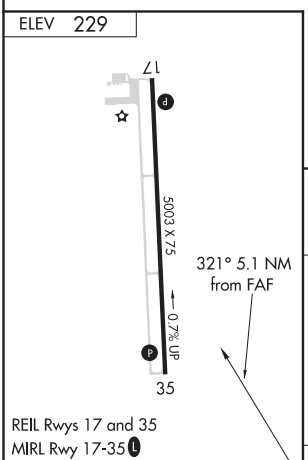
Use Brenham altimeter setting; when not received, use College Station altimeter setting and increase all MDA 20 feet and increase Cat C visibility ¼ mile.

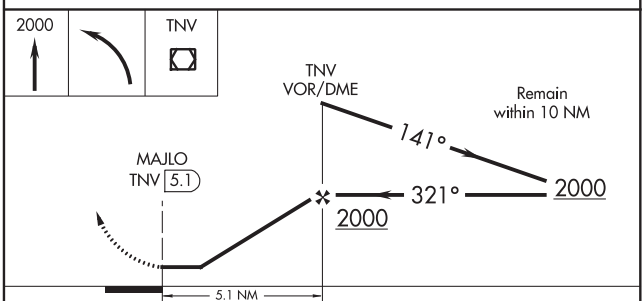
NA

MISSED APPROACH: Climb to 2000 then left turn direct TNV VOR/DME and hold.

11R AWOS-3	HOUSTON APP CON	CTAF	
121.125	134.3 360.85	122.9	123.3 L







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
CIRCLING	820-1 591 (600-1)		820-1½ 591 (600-1½)	980-2½ 751 (800-2½)

SC-5, 25 FEB 2021 to 22 APR 2021
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ORANGE, TEXAS AL-6312 (FAA) 20198

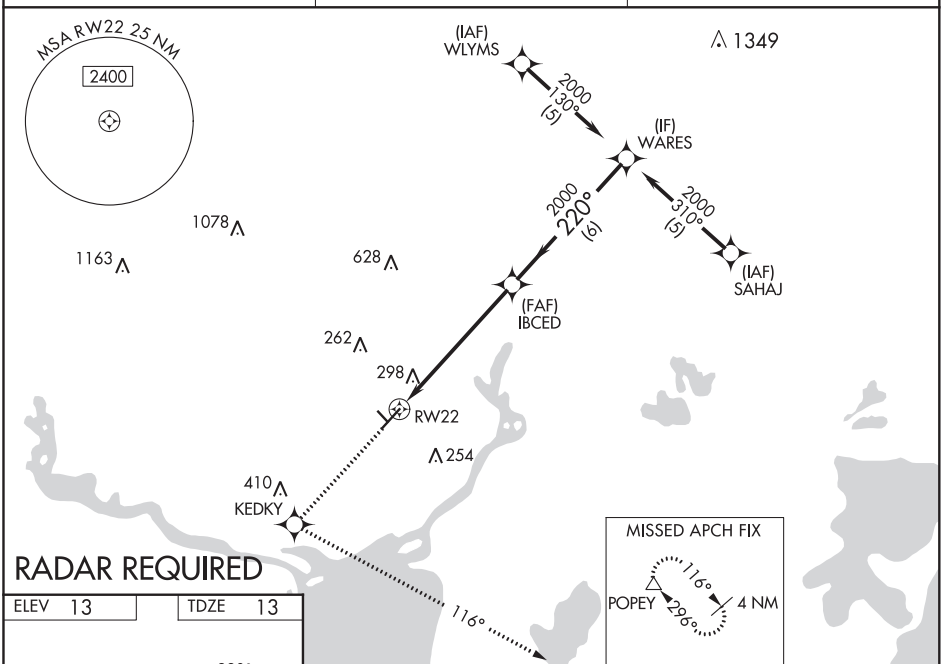
RNAV (GPS) RWY 22
ORANGE COUNTY (ORG)

WAAS CH 56614 W22A	APP CRS 220°	Rwy ldg 5500 TDZE 13 Apt Elev 13

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 Jack Brooks Rgnl altimeter setting and increase all DA 32 feet and all MDA 40 feet, increase LPV and LNAV/VNAV all Cats visibility ¼ mile, and LNAV and Circling Cat C visibility ¼ mile. Baro-VNAV and VDP NA when using Jack Brooks Rgnl altimeter setting. Circling NA to Rwy 13/31.

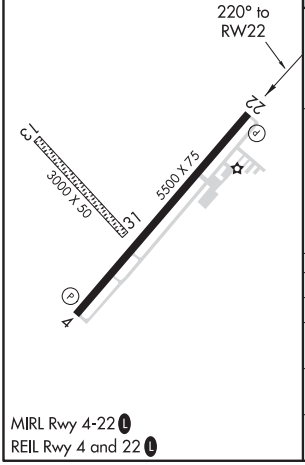
MISSED APPROACH: Climb to 2000 direct KEDKY and left turn via track 116° to POPEY and hold.

AWOS-3	HOUSTON APP CON	UNICOM
118.975	121.3 377.1	122.8 (CTAF) L

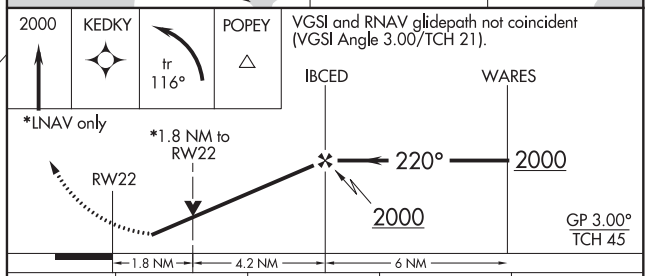


RADAR REQUIRED

ELEV 13	TDZE 13



MIRL Rwy 4-22 L
REIL Rwy 4 and 22 L



CATEGORY	A	B	C	D
LPV DA	329-1 316 (400-1)			NA
LNAV/VNAV DA	674-2¼ 661 (700-2¼)			NA
LNAV MDA	600-1 587 (600-1)		600-1½ 587 (600-1½)	NA
CIRCLING	660-1 647 (700-1)		660-1¾ 647 (700-1¾)	NA

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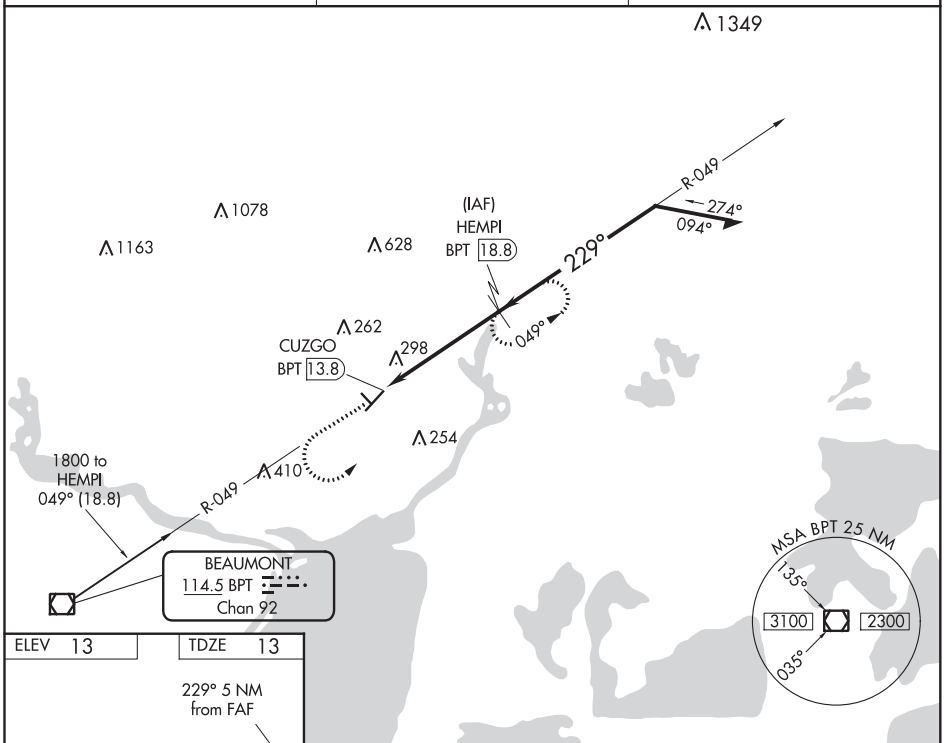
VOR/DME RWY 22
ORANGE COUNTY (ORG)

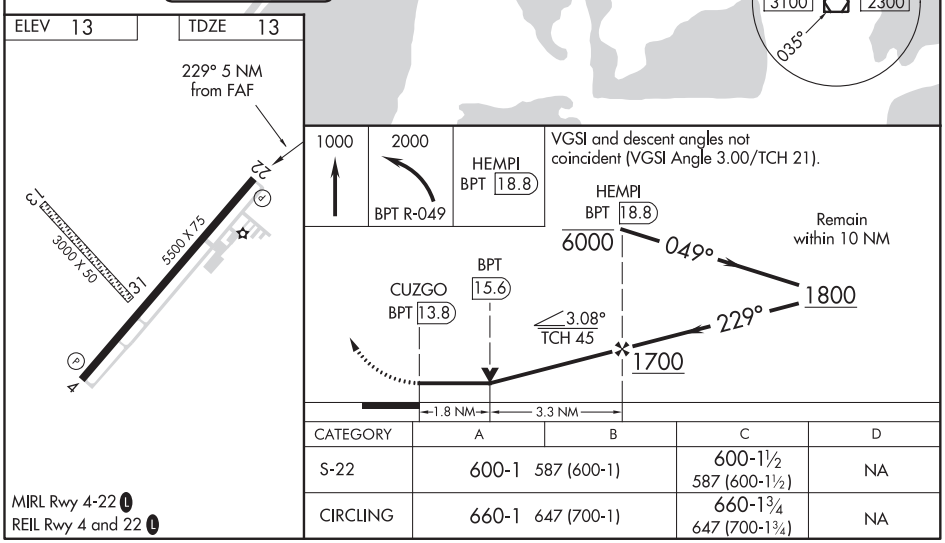
VOR/DME BPT	APP CRS	Rwy ldg	5500
114.5	229°	TDZE	13
Chan 92		Apt Elev	13

Visibility reduction by helicopters NA. Circling NA to Rwy 13/31.
VDP NA when using Jack Brooks Rgnl altimeter setting.
When local altimeter setting not received, use Jack Brooks Rgnl altimeter setting and increase all MDA 40 feet and increase S-22 and Circling Cat C visibility ¼ mile.

MISSED APPROACH: Climb to 1000 then climbing left turn to 2000 via BPT R-049 to HEMPI/18.8 DME and hold.

AWOS-3	HOUSTON APP CON	UNICOM
118.975	121.3 377.1	122.8 (CTAF) L





CATEGORY	A	B	C	D
S-22	600-1 587 (600-1)		600-1½ 587 (600-1½)	NA
CIRCLING	660-1 647 (700-1)		660-1¾ 647 (700-1¾)	NA

MIRL Rwy 4-22 L
REIL Rwy 4 and 22 L

SC-5, 25 FEB 2021 to 22 APR 2021
SC-5, 25 FEB 2021 to 22 APR 2021

PALACIOS, TEXAS

AL-309 (FAA)

19311

RNAV (GPS) RWY 13
PALACIOS MUNI (PSX)

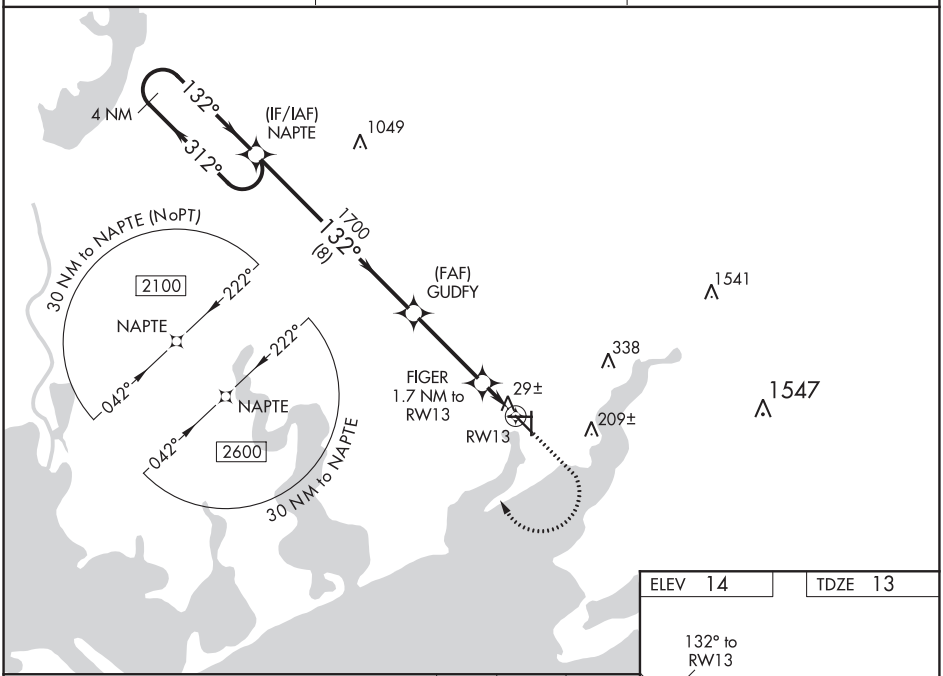
WAAS CH 53630 W13A	APP CRS 132°	Rwy ldg 5001 TDZE 13 Apt Elev 14

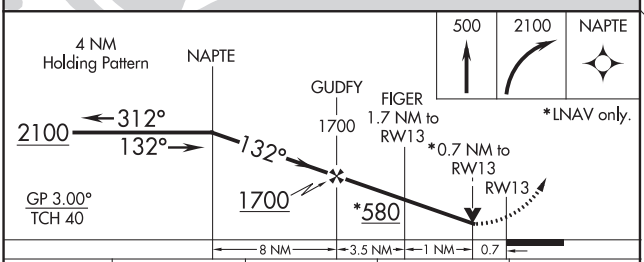
RNP APCH.

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -20°C or above 54°C. When local altimeter setting not received, use Port Lavaca altimeter setting and increase all MDA 60 feet; increase LPV and LNAV/VNAV all Cats visibility 1/8 SM and LNAV Cat C and D and Circling Cat C visibility 1/4 SM. Baro-VNAV and VDP NA when using Port Lavaca altimeter setting. Rwy 13 helicopter visibility reduction below 3/4 SM NA. Circling Rwy 8, 18, 26, 31, 36 NA at night.

MISSED APPROACH: Climb to 500 then climbing right turn to 2100 direct NAPTE and hold.

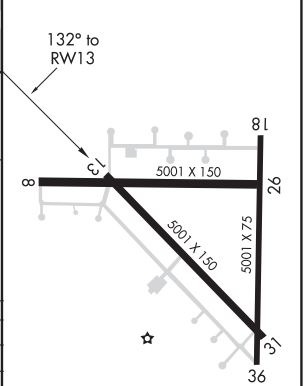
ASOS	HOUSTON CENTER	UNICOM
118.025	128.6 360.8	122.8 (CTAF) L





CATEGORY	A	B	C	D
LPV DA	263-7/8 250 (300-7/8)			
LNAV/VNAV DA	263-7/8 250 (300-7/8)			
LNAV MDA	280-1 267 (300-1)		280-7/8 267 (300-7/8)	
CIRCLING	460-1 446 (500-1)	480-1 466 (500-1)	480-1½ 466 (500-1½)	580-2 566 (600-2)

ELEV 14 | TDZE 13



REIL Rwys 13 and 31
MIRL Rwy 13-31 L

PALACIOS, TEXAS
Orig-C 07NOV19

28°44'N-96°15'W

PALACIOS MUNI (PSX)
RNAV (GPS) RWY 13

SC-5, 25 FEB 2021 to 22 APR 2021

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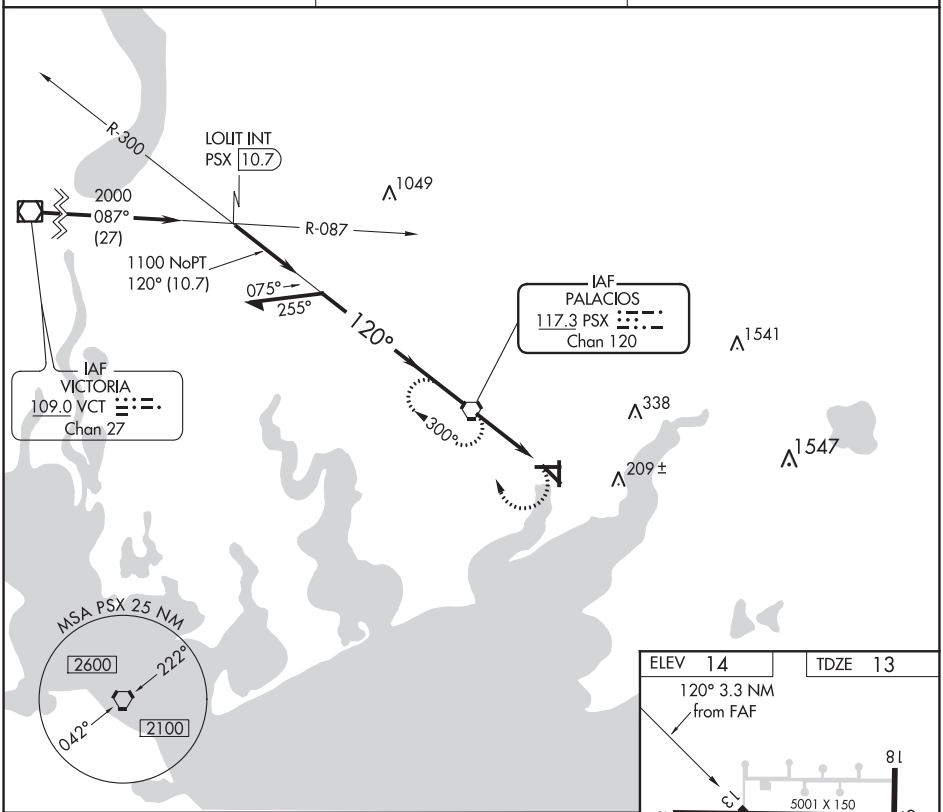
VORTAC PSX 117.3 Chan 120	APP CRS 120°	Rwy ldg 5001 TDZE 13 Apt Elev 14

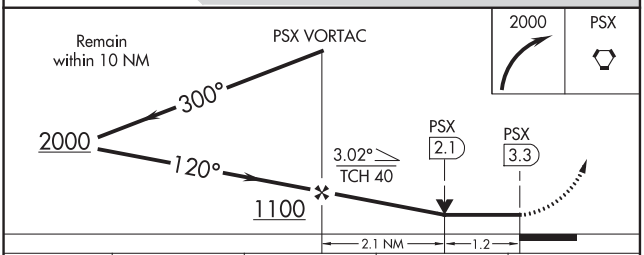
VOR RWY 13
PALACIOS MUNI (PSX)

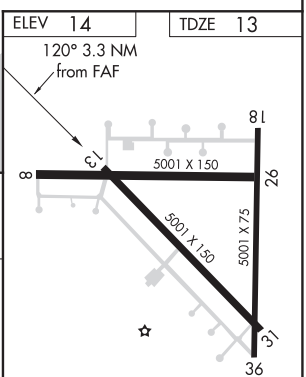
Rwy 13 helicopter visibility reduction below ¾ SM NA.
Circling Rwy 8, 18, 26, 31, 36 NA at night.

MISSED APPROACH: Climbing right turn to 2000 direct PSX VORTAC and hold.

ASOS	HOUSTON CENTER	UNICOM
118.025	128.6 360.8	122.8 (CTAF) L







REIL Rwys 13 and 31
MIRL Rwy 13-31 L

CATEGORY	A	B	C	D
S-13	380-1 367 (400-1)			380-1¼ 367 (400-1¼)
CIRCLING	460-1 446 (500-1)	480-1 466 (500-1)	480-1½ 466 (500-1½)	580-2 566 (600-2)

FAF to MAP 3.3 NM					
Knots	60	90	120	150	180
Min:Sec	3:18	2:12	1:39	1:19	1:06

SC-5, 25 FEB 2021 to 22 APR 2021
SC-5, 25 FEB 2021 to 22 APR 2021

PALESTINE, TEXAS

AL-871 (FAA)

20142

RNAV (GPS) RWY 18

PALESTINE MUNI (PSN)

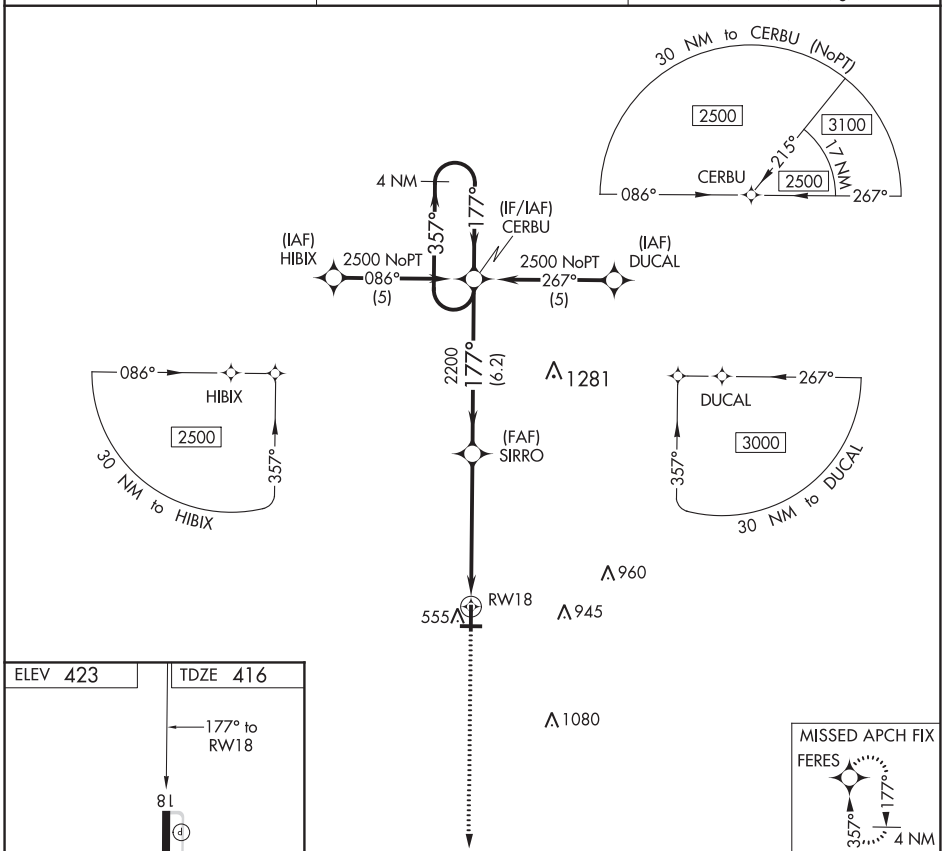
APP CRS	Rwy ldg	5005
177°	TDZE	416
	Apt Elev	423

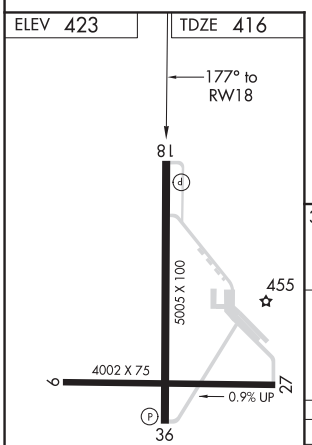
RNP APCH.

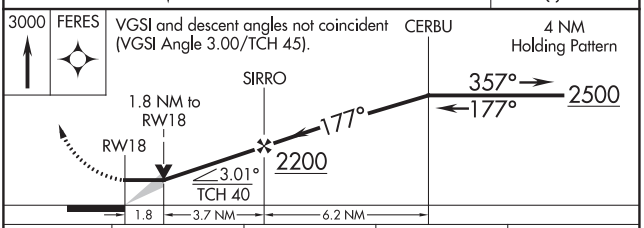
VDP NA with C. David Campbell Field-Corsicana Muni altimeter setting. Circling to Rwy 9-27, NA at night. When local altimeter setting not received, use C. David Campbell Field-Corsicana Muni altimeter setting and increase all MDA 100 feet.

MISSED APPROACH: Climb to 3000 direct FERES and hold.

AWOS-3	FORT WORTH CENTER	UNICOM
118.025	135.25 265.1	122.7 (CTAF) L







CATEGORY	A	B	C	D
LNAV MDA	1040-1	624 (700-1)	1040-1¾ 624 (700-1¾)	1040-2 624 (700-2)
CIRCLING	1040-1	617 (700-1)	1040-1¾ 617 (700-1¾)	1060-2 637 (700-2)

REIL Rwy 36
MIRL Rwys 18-36 and 9-27 L

SC-5, 25 FEB 2021 to 22 APR 2021

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RNAV (GPS) RWY 36
PALESTINE MUNI (PSN)

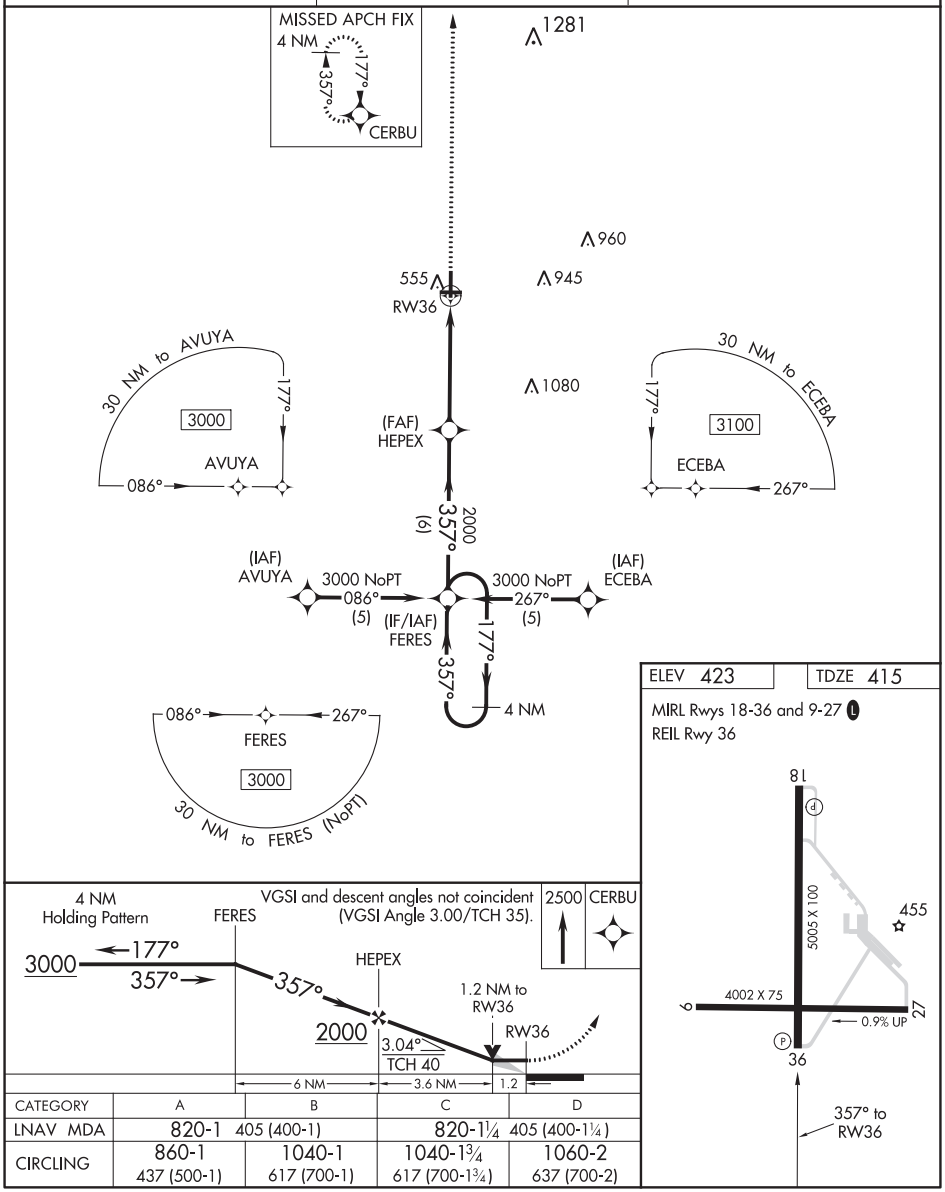
APP CRS	Rwy ldg	5005
357°	TDZE	415
	Apt Elev	423

RNP APCH.

VDP NA with C. David Campbell Field-Corsicana Muni altimeter setting. When local altimeter setting not received, use C. David Campbell Field-Corsicana Muni altimeter setting and increase all MDA 100 feet. Circling Rwy 9, 27 NA at night.

MISSED APPROACH: Climb to 2500 direct CERBU WP and hold.

AWOS-3	FORT WORTH CENTER	UNICOM
118.025	135.25 265.1	122.7 (CTAF) L



CATEGORY	A	B	C	D
LNAV MDA	820-1 405 (400-1)		820-1¼ 405 (400-1¼)	
CIRCLING	860-1 437 (500-1)	1040-1 617 (700-1)	1040-1¾ 617 (700-1¾)	1060-2 637 (700-2)

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SC-5, 25 FEB 2021 to 22 APR 2021

PALESTINE, TEXAS

AL-871 (FAA)

20142

VOR RWY 18

PALESTINE MUNI (PSN)

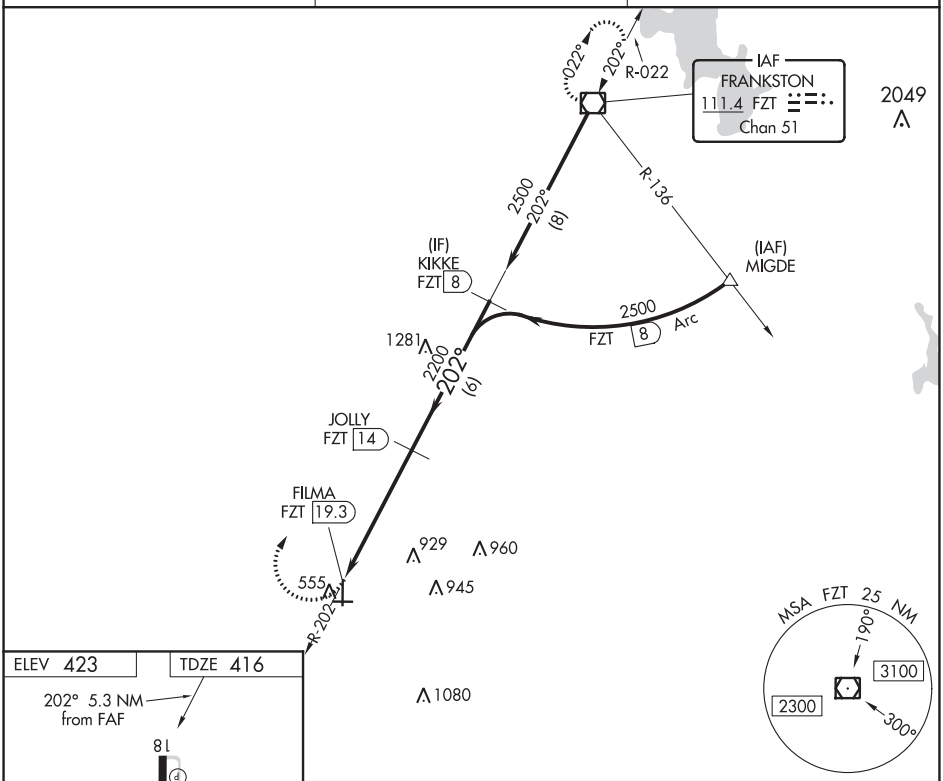
VOR/DME FZT	APP CRS	Rwy ldg 5005
111.4	202°	TDZE 416
Chan 51		Apt Elev 423

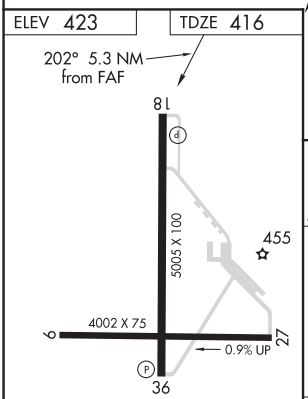
DME required.

T A NA Rwy 18 helicopter visibility reduction below ¾ SM NA.

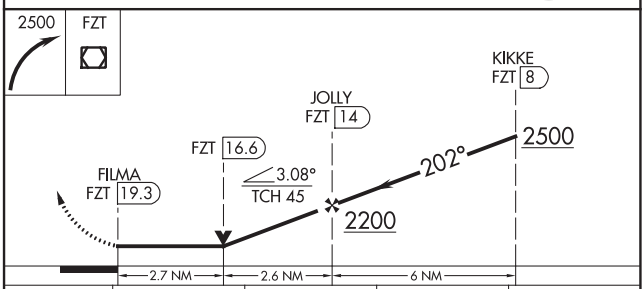
MISSING APPROACH: Climbing right turn to 2500 direct FZT VOR/DME and hold.

AWOS-3	FORT WORTH CENTER	UNICOM
118.025	135.25 265.1	122.7 (CTAF) L





REIL Rwy 36
MIRL Rwys 18-36 and 9-27 L



CATEGORY	A	B	C	D
S-18	1320-1¼	904 (900-1¼)	1320-2½	904 (900-2½)
C CIRCLING	1320-1¼	897 (900-1¼)	1360-2¾ 937 (1000-2¾)	1360-3 937 (1000-3)

SC-5, 25 FEB 2021 to 22 APR 2021

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PALESTINE, TEXAS
Amdt 6 15AUG19

31°47′N - 95°42′W

PALESTINE MUNI (PSN)

VOR RWY 18

NDB RWY 36
PALESTINE MUNI (PSN)

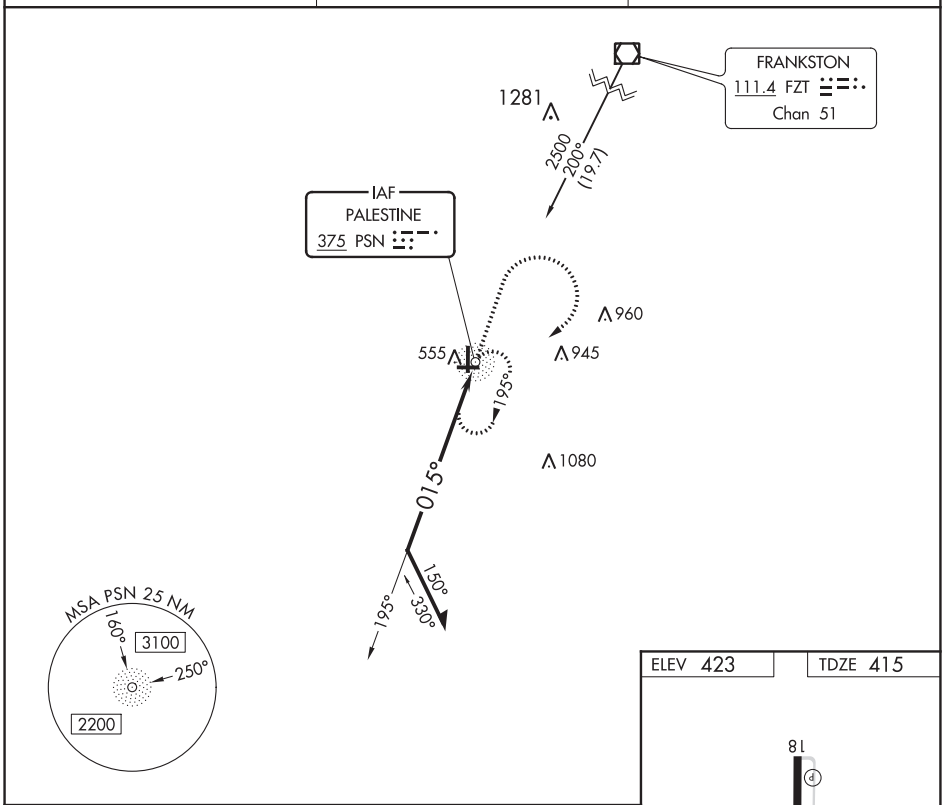
NDB PSN	APP CRS	Rwy ldg / TDZE / Apt Elev
375	015°	5005 / 415 / 423

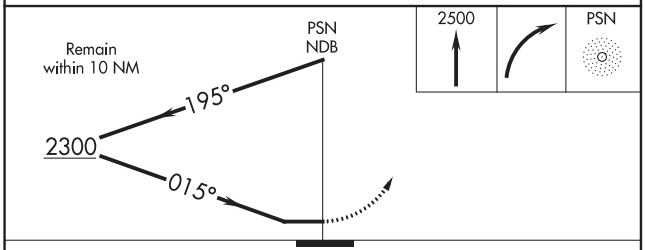
When local altimeter setting not received, use C. David Campbell Field-Corsicana Muni altimeter setting and increase all MDA 100 feet. Circling Rwy 9, 27 NA at night.

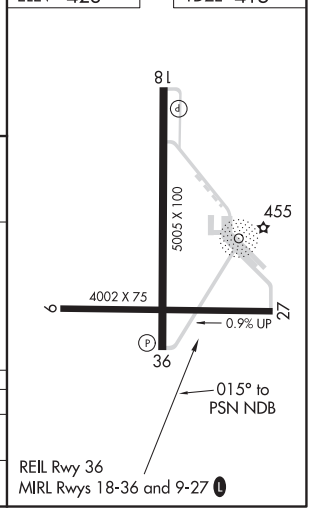
NA

MISSED APPROACH: Climb to 2500 then right turn direct PSN NDB and hold.

AWOS-3	FORT WORTH CENTER	UNICOM
118.025	135.25 265.1	122.7 (CTAF) L







CATEGORY	A	B	C	D
S-36	1000-1 585 (600-1)		1000-1½ 585 (600-1½)	1000-1¾ 585 (600-1¾)
CIRCLING	1000-1 577 (600-1)	1040-1 617 (700-1)	1040-1¾ 617 (700-1¾)	1060-2 637 (700-2)

SC-5, 25 FEB 2021 to 22 APR 2021

PORT LAVACA, TEXAS

AL-5904 (FAA)

20142

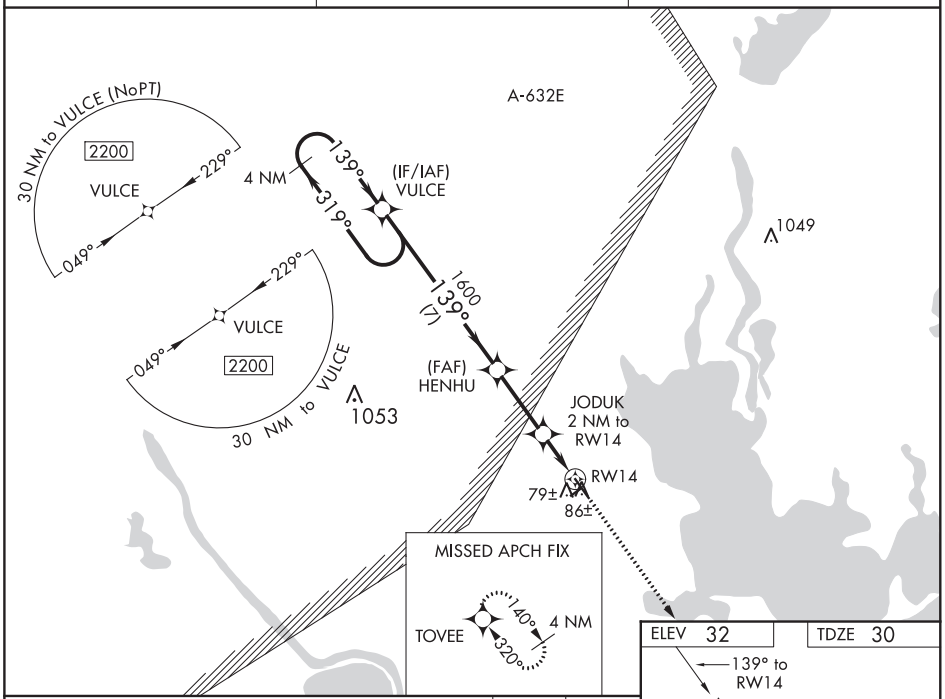
RNAV (GPS) RWY 14
CALHOUN COUNTY (PKV)

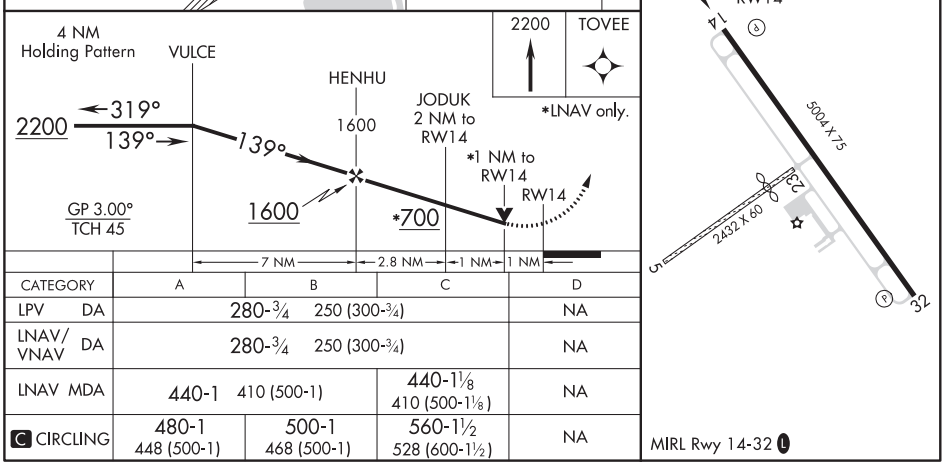
WAAS CH 53437 W14A	APP CRS 139°	Rwy ldg 5004 TDZE 30 Apt Elev 32

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 54°C (130°F). When local altimeter setting not received, use Victoria altimeter setting and increase all DA/MDA 60 feet and visibilities ¼ mile. DME/DME RNP-0.3 NA. Baro-VNAV and VDP NA with Victoria altimeter setting. Helicopter visibility reduction below ¾ SM NA. Night landing: Rwy 32 NA. Circling NA to Rwys 5 and 23.

MISSED APPROACH: Climb to 2200 direct TOVEE and hold.

AWOS-3	HOUSTON CENTER	UNICOM
118.275	128.15 350.3	122.8 (CTAF) L





CATEGORY	A	B	C	D
LPV DA	280-¾ 250 (300-¾)			NA
LNAV/VNAV DA	280-¾ 250 (300-¾)			NA
LNAV MDA	440-1 410 (500-1)		440-1⅛ 410 (500-1⅛)	NA
C CIRCLING	480-1 448 (500-1)	500-1 468 (500-1)	560-1½ 528 (600-1½)	NA

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SC-5, 25 FEB 2021 to 22 APR 2021

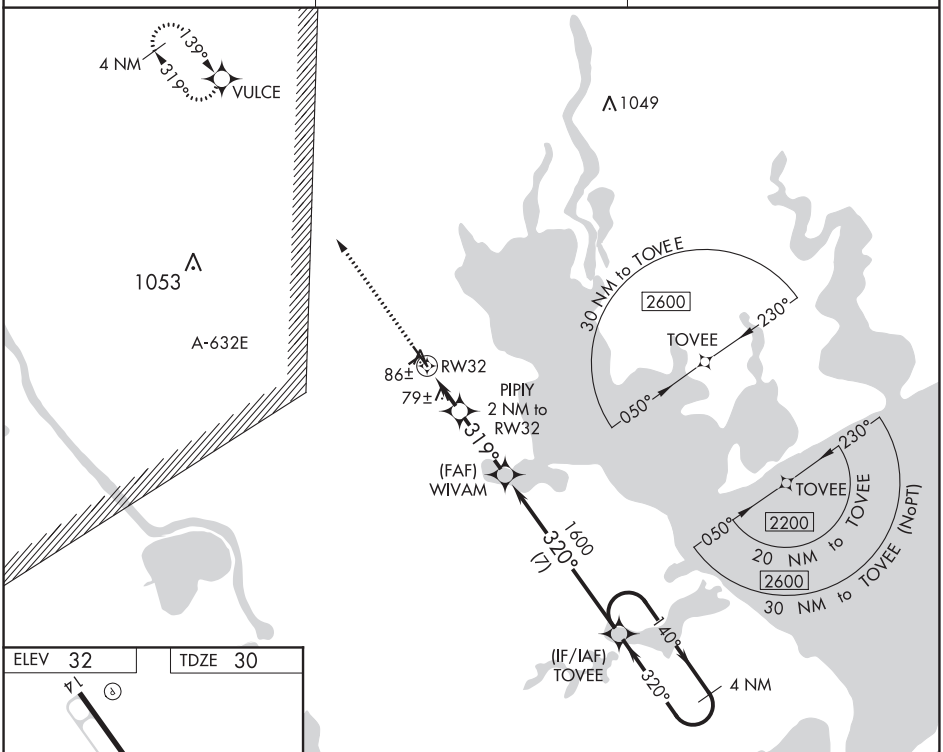
WAAS CH 58037 W32A	APP CRS 319°	Rwy ldg 5004 TDZE 30 Apt Elev 32

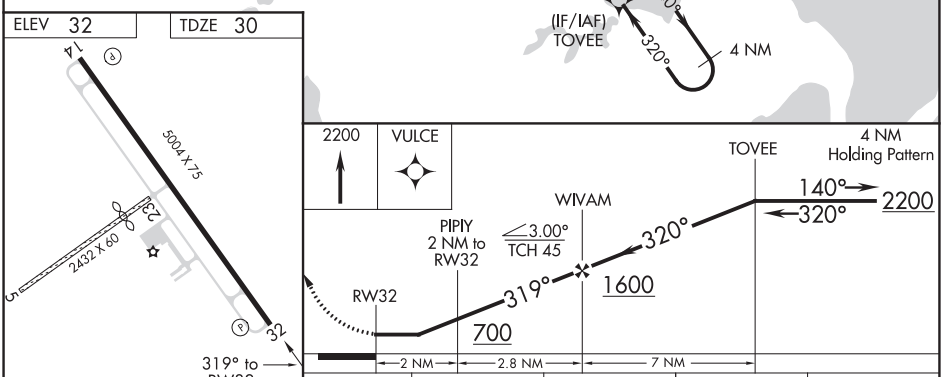
RNAV (GPS) RWY 32
CALHOUN COUNTY (PKV)

When local altimeter setting not received, use Victoria altimeter setting and increase all MDA 60 feet and increase LNAV Cat C and Circling Cat C visibilities ¼ mile. DME/DME RNP-0.3 NA. Helicopter visibility reduction below 1 SM NA. Night landing: Rwy 32 NA. Circling NA to Rwys 5 and 23.

MISSED APPROACH: Climb to 2200 direct VULCE and hold.

AWOS-3	HOUSTON CENTER	UNICOM
118.275	128.15 350.3	122.8 (CTAF) L





CATEGORY	A	B	C	D
LP MDA	340-1	310 (400-1)		NA
LNAV MDA	400-1	370 (400-1)		NA
C CIRCLING	480-1 448 (500-1)	500-1 468 (500-1)	560-1½ 528 (600-1½)	NA

MIRL Rwy 14-32 L

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SC-5, 25 FEB 2021 to 22 APR 2021

PORT LAVACA, TEXAS

AL-5904 (FAA)

20282

VOR/DME-A

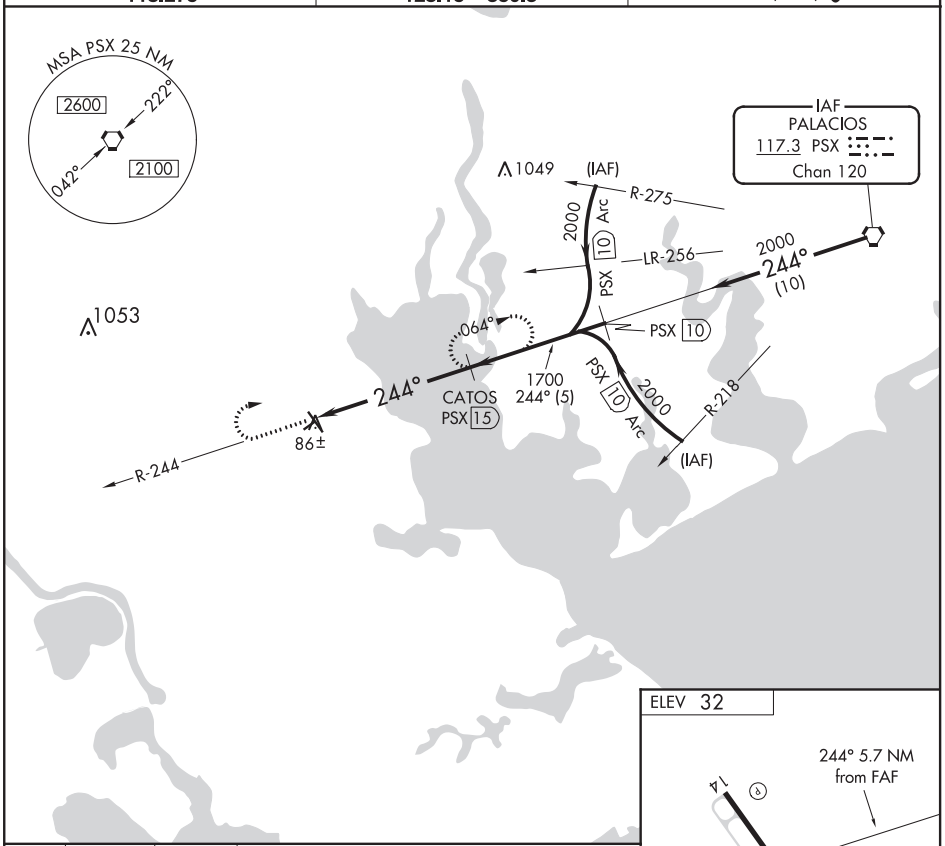
CALHOUN COUNTY (PKV)

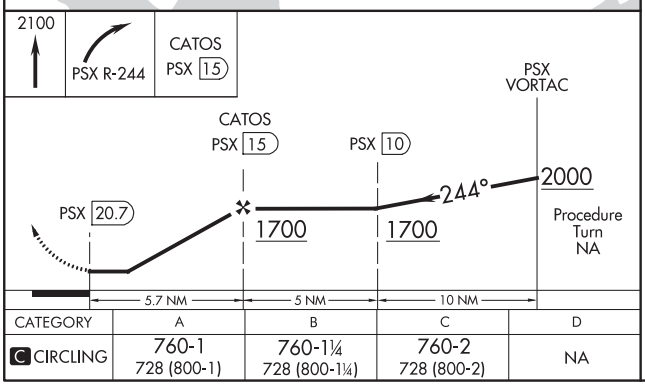
VORTAC PSX 117.3 Chan 120	APP CRS 244°	Rwy ldg N/A TDZE N/A Apt Elev 32

When local altimeter setting not received, use Victoria altimeter setting. Circling NA to Rwys 5 and 23. Night landing: Rwy 32 NA.

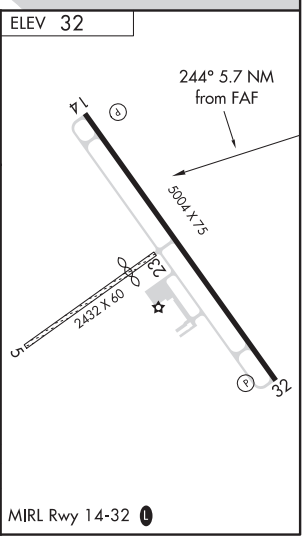
MISSED APPROACH: Climb to 2100, then right turn via PSX VORTAC R-244 to CATOS/PSX 15 DME and hold.

AWOS-3	HOUSTON CENTER	UNICOM
118.275	128.15 350.3	122.8 (CTAF) L





CATEGORY	A	B	C	D
C CIRCLING	760-1 728 (800-1)	760-1¼ 728 (800-1¼)	760-2 728 (800-2)	NA



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ILS or LOC/DME RWY 13L
VICTORIA RGNL (VCT)

LOC/DME I-VCT	APP CRS	Rwy ldg	9111
111.5	128°	TDZE	115
Chan 52		Apt Elev	115

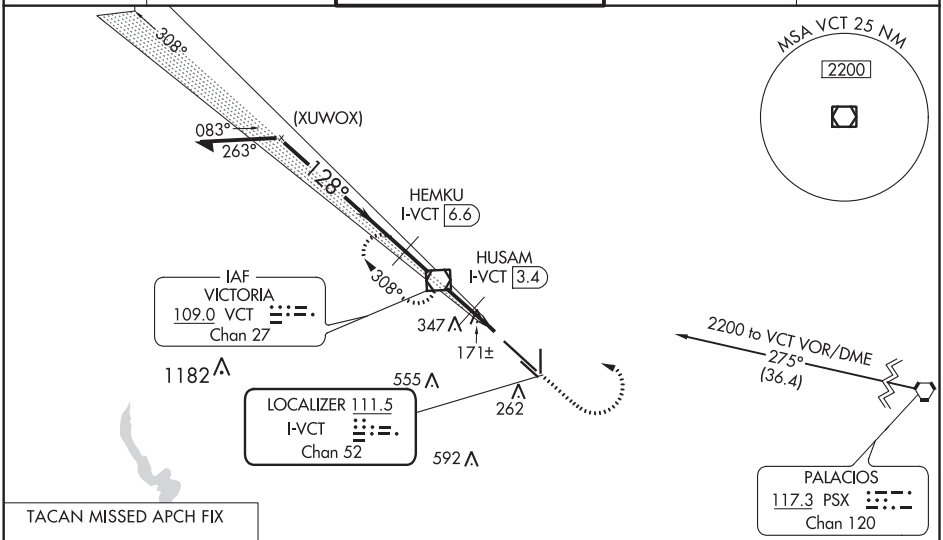
When local altimeter setting not received, use Port Lavaca altimeter setting and increase all DA 58 feet and all MDA 60 feet. increase S-LOC 13L Cat C/D/E visibility to ⅝ mile. For inop MALSR, increase S-ILS 13L Cat E visibility to ¾ mile and S-LOC 13L Cat E visibility to 1 mile. VDP NA with Port Lavaca altimeter setting. For inop MALSR, when using Port Lavaca altimeter setting, increase S-ILS 13L Cat E visibility to ¾ mile and S-LOC 13L Cat C/D/E visibility to 1⅛ mile.

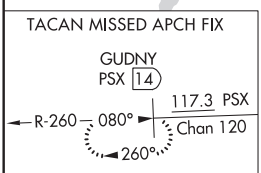
NA

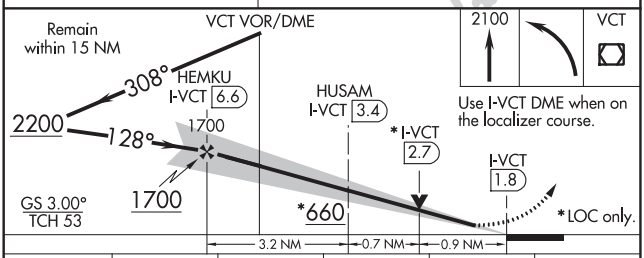
MALSR

MISSED APPROACH: Climb to 2100 then left turn direct VCT VOR/DME and hold. (TACAN aircraft climb to 2100 then left turn on heading 120° and PSX VORTAC R-260 to GUDNY/14 DME and hold W, RT, 080° inbound.)

ATIS	HOUSTON CENTER	VICTORIA TOWER ★	GND CON	UNICOM
119.025	135.05 353.6	126.075 (CTAF) L 257.95	120.525 239.25	122.7



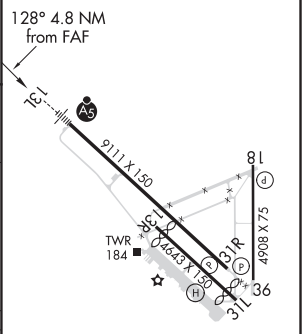




CATEGORY	A	B	C	D	E
S-ILS 13L	315-½ 200 (200-½)				
S-LOC 13L	440-½ 325 (400-½)				
CIRCLING	580-1 465 (500-1)		580-1½ 465 (500-1½)	680-2 565 (600-2)	NA

ELEV 115 D TDZE 115

128° 4.8 NM
from FAF



MIRL Rwy 18-36
REIL Rwy 18 and 36
HIRL Rwy 13L-31R L

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VICTORIA, TEXAS

AL-438 (FAA)

20142

RNAV (GPS) RWY 13L
VICTORIA RGNL (VCT)

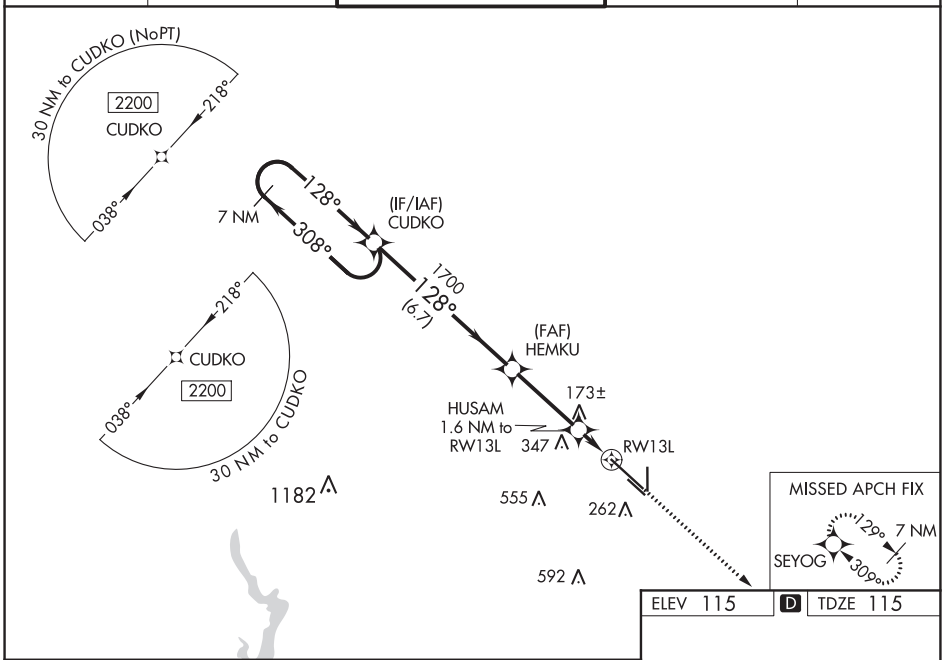
WAAS CH 82709 W13A	APP CRS 128°	Rwy ldg 9111 TDZE 115 Apt Elev 115

T A Baro-VNAV NA when using Port Lavaca altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 43°C (109°F). When local altimeter setting not received, use Port Lavaca altimeter setting and increase all DA 52 feet and all MDA 60 feet. Increase LNAV Cats C/D/E visibility to ⅝ mile. DME/DME RNP-0.3 NA. VDP NA with Port Lavaca altimeter setting. For inop MALSR, increase LPV and LNAV/VNAV Cat E visibility to ¾ mile and LNAV Cat E visibility to 1 mile. For inop MALSR when using Port Lavaca altimeter setting, increase LPV Cat E visibility to ¾ mile, LNAV/VNAV all Cats visibility to 1 mile and LNAV Cats C/D/E visibility to 1⅛ mile.

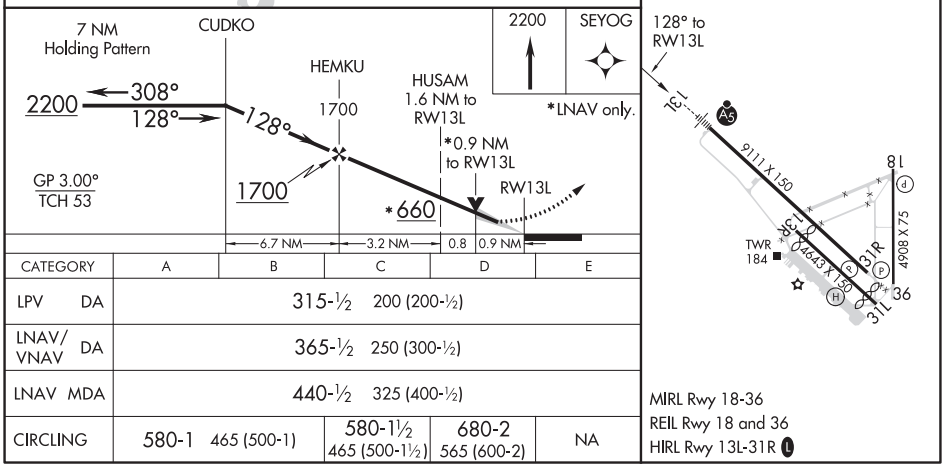
MALSR

MISSED APPROACH: Climb to 2200 direct SEYOG and hold.

ATIS	HOUSTON CENTER	VICTORIA TOWER ★	GND CON	UNICOM
119.025	135.05 353.6	126.075 (CTAF) L 257.95	120.525 239.25	122.7



ELEV 115 | D | TDZE 115



CATEGORY	A	B	C	D	E
LPV DA	315-½ 200 (200-½)				
LNAV/VNAV DA	365-½ 250 (300-½)				
LNAV MDA	440-½ 325 (400-½)				
CIRCLING	580-1 465 (500-1)		580-1½ 465 (500-1½)	680-2 565 (600-2)	NA

MIRL Rwy 18-36
REIL Rwy 18 and 36
HIRL Rwy 13L-31R L

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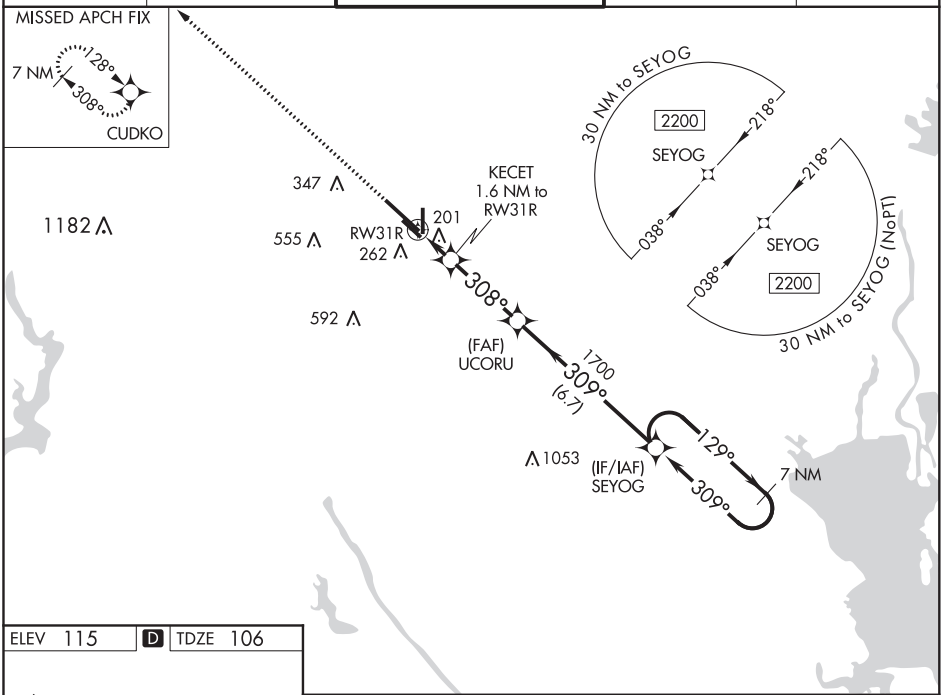
RNAV (GPS) RWY 31R
VICTORIA RGNL (VCT)

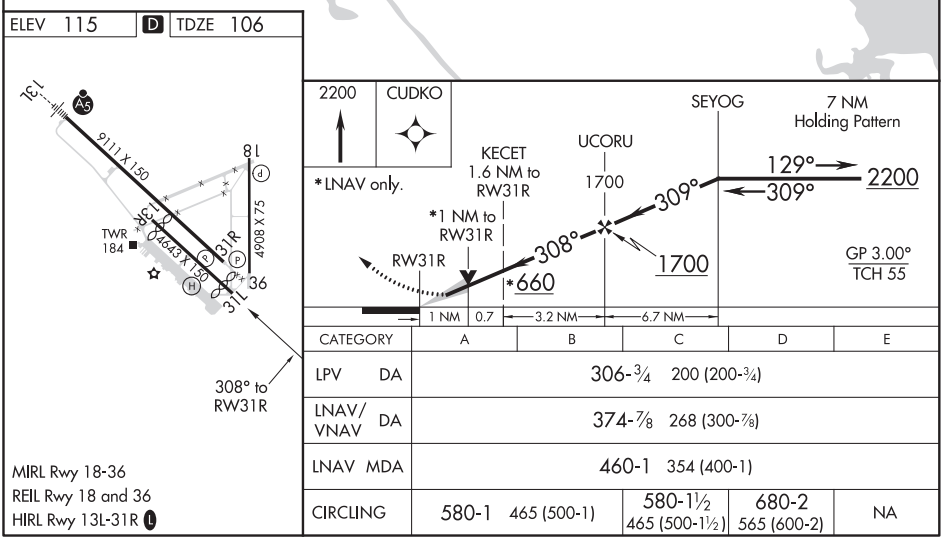
WAAS CH 82726 W31A	APP CRS 308°	Rwy ldg 9111 TDZE 106 Apt Elev 115

Baro-VNAV NA when using Port Lavaca altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 43°C (109°F). When local altimeter setting not received, use Port Lavaca altimeter setting and increase all DA 52 feet and all MDA 60 feet. Increase LNAV/VNAV all Cats visibility to 1 mile and LNAV Cats C/D/E visibility to 1⅛ mile. DME/DME RNP-0.3 NA. VDP NA with Port Lavaca altimeter setting.

MISSED APPROACH: Climb to 2200 direct CUDKO and hold.

ATIS	HOUSTON CENTER	VICTORIA TOWER *	GND CON	UNICOM
119.025	135.05 353.6	126.075 (CTAF) L 257.95	120.525 239.25	122.7





MIRL Rwy 18-36
REIL Rwy 18 and 36
HIRL Rwy 13L-31R L

CATEGORY	A	B	C	D	E
LPV DA	306-¾ 200 (200-¾)				
LNAV/VNAV DA	374-⅞ 268 (300-⅞)				
LNAV MDA	460-1 354 (400-1)				
CIRCLING	580-1 465 (500-1)		580-1½ 465 (500-1½)	680-2 565 (600-2)	NA

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VICTORIA, TEXAS

AL-438 (FAA)

20142

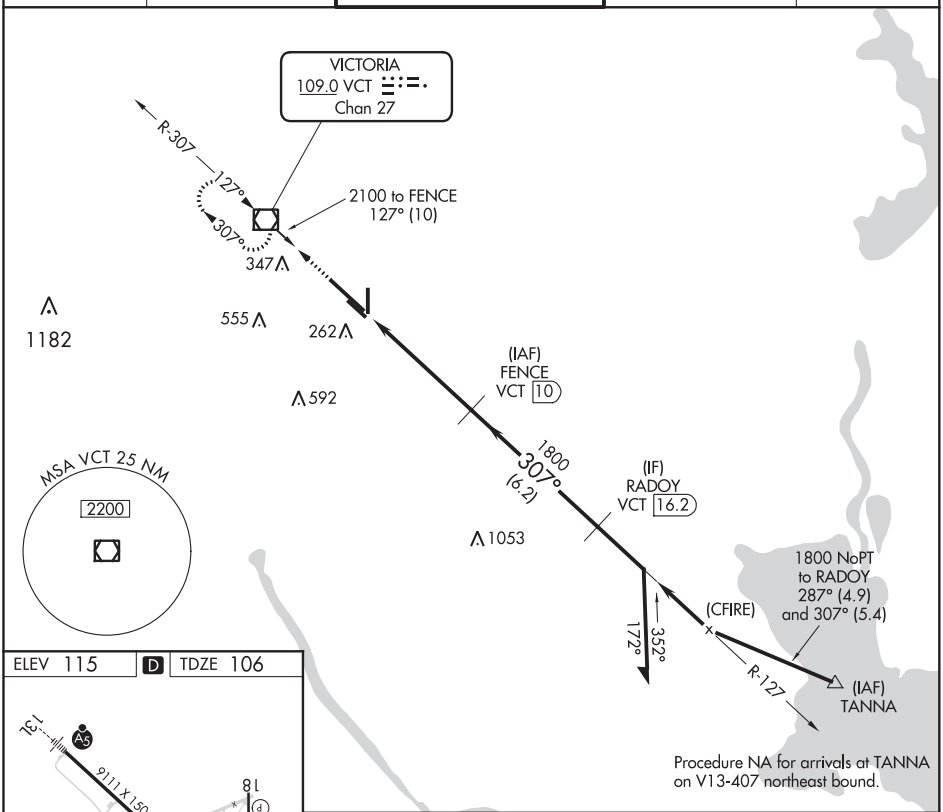
VOR/DME RWY 31R
VICTORIA RGNL (VCT)

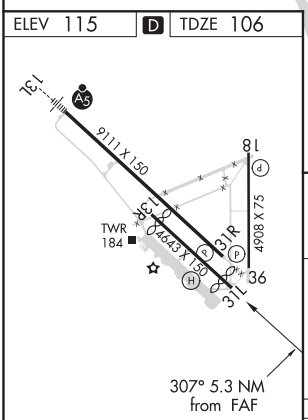
VOR/DME VCT	APP CRS	Rwy ldg	9111
109.0	307°	TDZE	106
Chan 27		Apt Elev	115

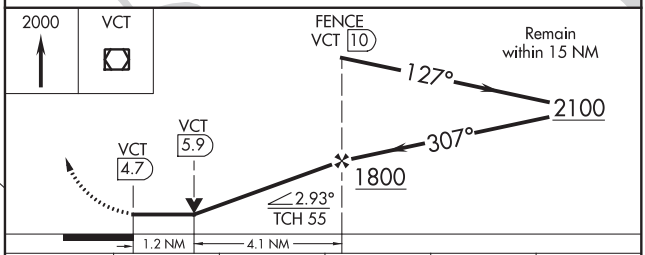
When local altimeter setting not received, use Port Lavaca altimeter setting and increase all MDA 60 feet. Increase S-31R Cats C/D/E visibility to 1⅜ mile. VDP NA when using Port Lavaca altimeter setting.

MISSED APPROACH: Climb to 2000 direct VCT VOR/DME and hold.

ATIS	HOUSTON CENTER	VICTORIA TOWER ★	GND CON	UNICOM
119.025	135.05 353.6	126.075 (CTAF) L 257.95	120.525 239.25	122.7







CATEGORY	A	B	C	D	E
S-31R	540-1 434 (500-1)		540-1¼ 434 (500-1¼)		
CIRCLING	580-1 465 (500-1)		580-1½ 465 (500-1½)	680-2 565 (600-2)	NA

MIRL Rwy 18-36
REIL Rwy 18 and 36
HIRL Rwy 13L-31R L

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VOR RWY 13L
VICTORIA RGNL (VCT)

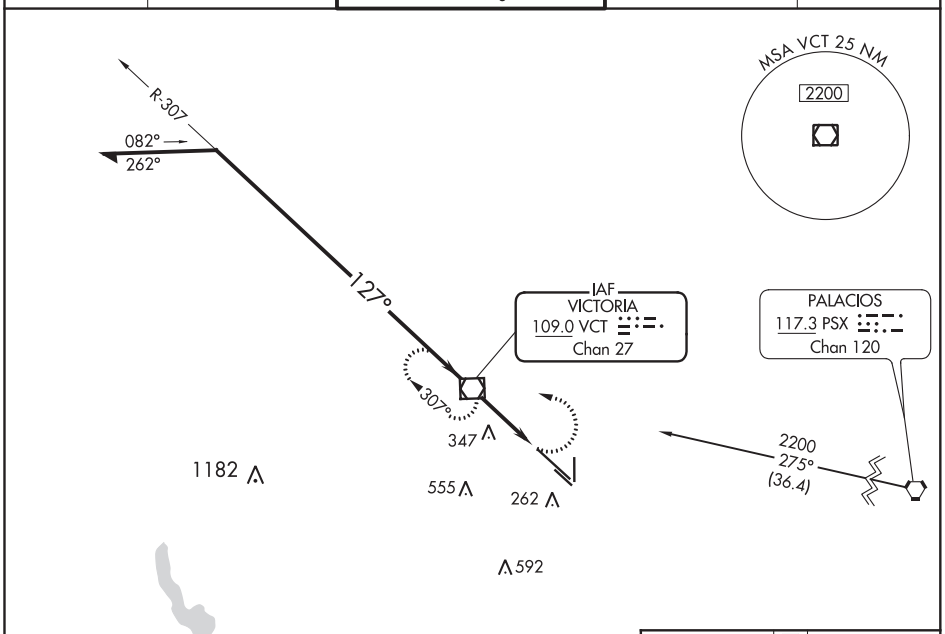
VOR/DME VCT	APP CRS	Rwy ldg	9111
109.0	127°	TDZE	115
Chan 27		Apt Elev	115

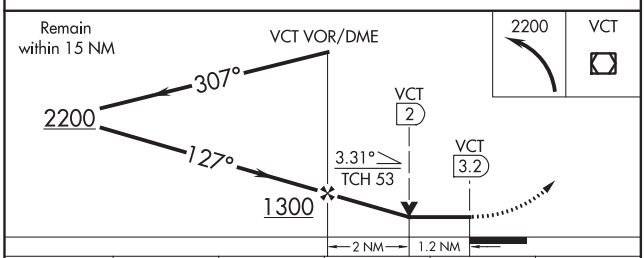
VDP NA when using Port Lavaca altimeter setting. When local altimeter setting not received, use Port Lavaca altimeter setting and increase all MDA 60 feet. Increase S-13L Cats C/D/E visibility to 1⅛ mile. For inop MALSR, increase S-13L Cat C/D/E visibility to 1⅜ mile. For inop MALSR, when using Port Lavaca altimeter setting, increase S-13L Cat C/D/E visibility to 1⅝ mile.

MALSR

MISSED APPROACH: Climbing left turn to 2200 direct VCT VOR/DME and hold, continue climb-in-hold to 2200.

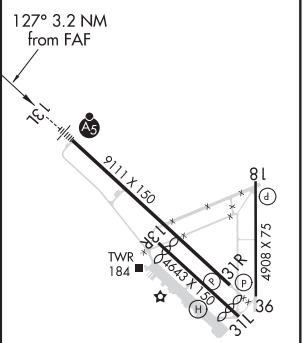
ATIS	HOUSTON CENTER	VICTORIA TOWER ★	GND CON	UNICOM
119.025	135.05 353.6	126.075 (CTAF) L 257.95	120.525 239.25	122.7





CATEGORY	A	B	C	D	E
S-13L	600-½ 485 (500-½)		600-1 485 (500-1)		
CIRCLING	600-1 485 (500-1)		600-1½ 485 (500-1½)	680-2 565 (600-2)	NA

ELEV 115 D TDZE 115



MIRL Rwy 18-36
REIL Rwy 18 and 36
HIRL Rwy 13L-31R L

FAF to MAP 3.2 NM

Knots	60	90	120	150	180
Min:Sec	3:12	2:08	1:36	1:17	1:04

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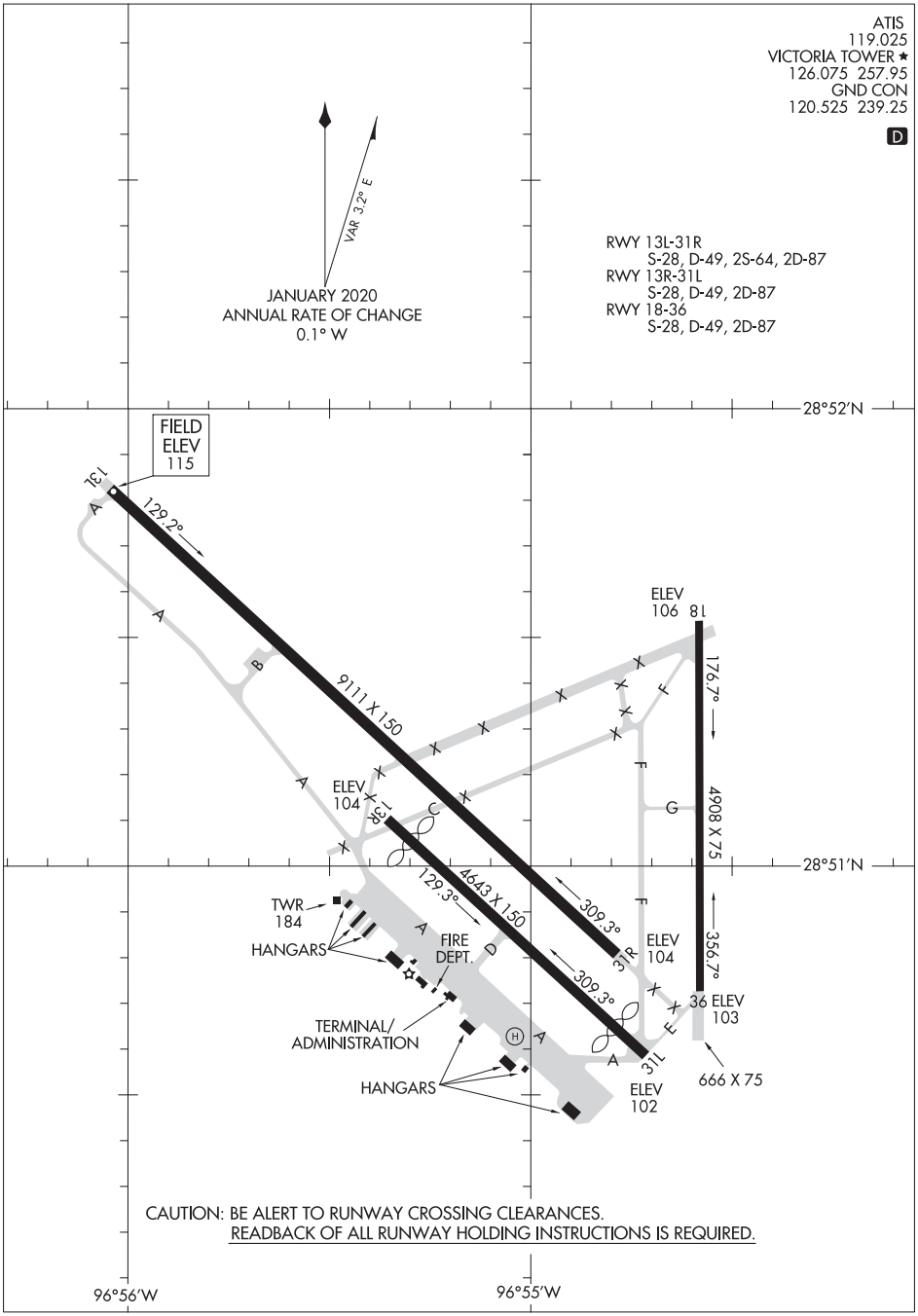
20086

AIRPORT DIAGRAM

AL-438 (FAA)

VICTORIA RGNL (VCT)
VICTORIA, TEXAS



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AIRPORT DIAGRAM
20086
VICTORIA, TEXAS
VICTORIA RGNL (VCT)

RNAV (GPS) RWY 14
WHARTON RGNL (ARM)

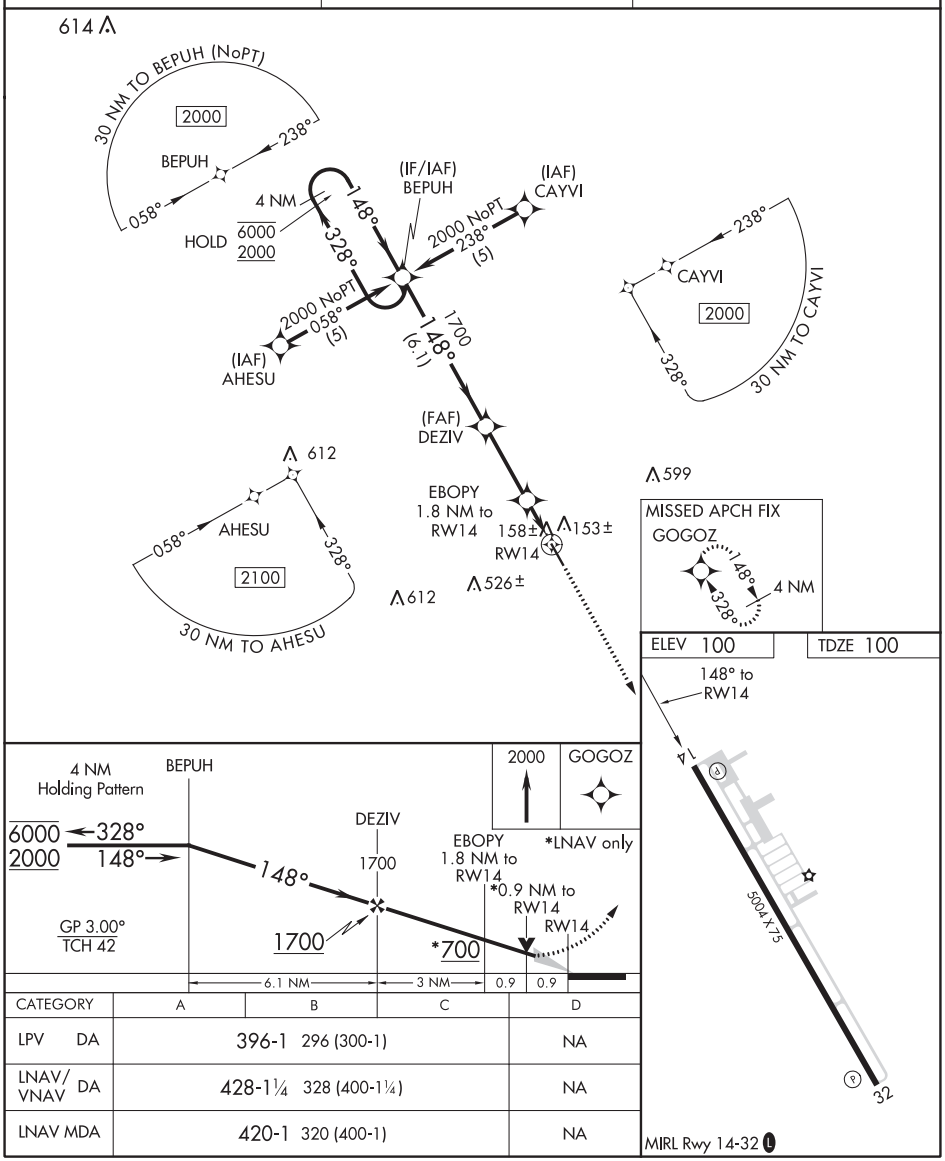
WAAS CH 77714 W14A	APP CRS 148°	Rwy ldg 5004 TDZE 100 Apt Elev 100

RNP APCH.

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C or above 54°C.

MISSED APPROACH: Climb to 2000 direct GOGOZ and hold.

AWOS-3	HOUSTON CENTER	UNICOM
118.475	128.6 360.8	122.7 (CTAF) L



CATEGORY	A	B	C	D
LPV DA	396-1 296 (300-1)			NA
LNAV/VNAV DA	428-1¼ 328 (400-1¼)			NA
LNAV MDA	420-1 320 (400-1)			NA

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WHARTON, TEXAS AL-6032 (FAA) 19311

RNAV (GPS) RWY 32
WHARTON RGNL (ARM)

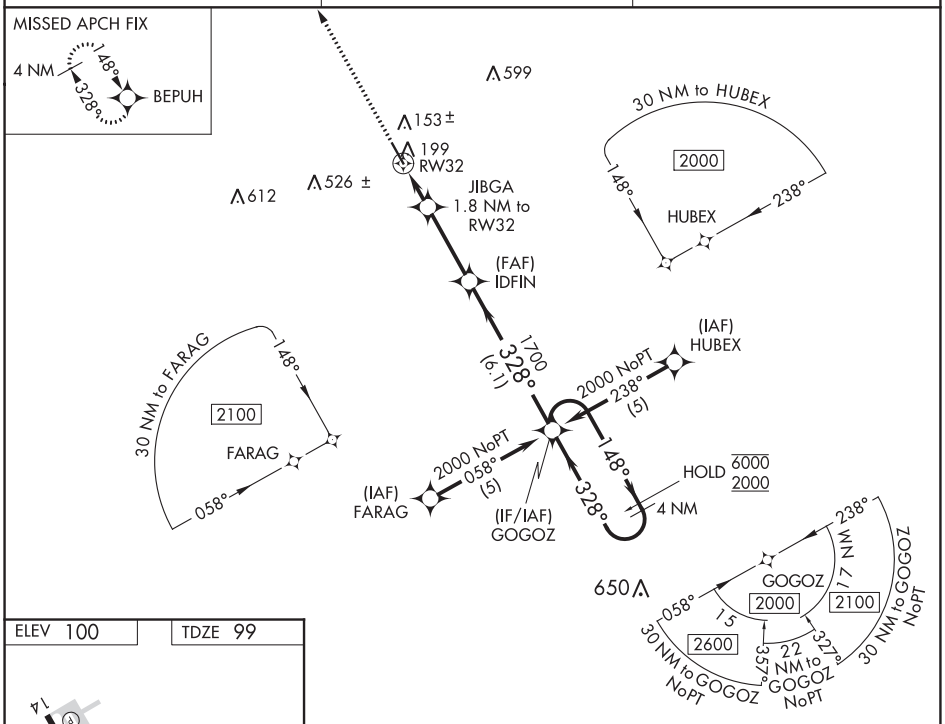
WAAS CH 58114 W32A	APP CRS 328°	Rwy ldg 5004 TDZE 99 Apt Elev 100

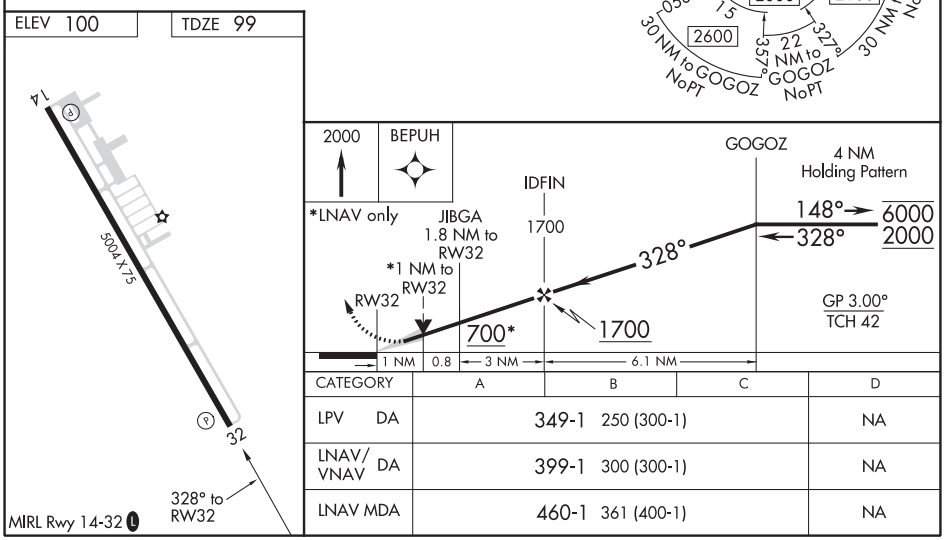
RNP APCH.

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C or above 54°C.

MISSED APPROACH: Climb to 2000 direct BEPUH and hold.

AWOS-3	HOUSTON CENTER	UNICOM
118.475	128.6 360.8	122.7 (CTAF)





CATEGORY	A	B	C	D
LPV DA	349-1	250 (300-1)		NA
LNAV/VNAV DA	399-1	300 (300-1)		NA
LNAV MDA	460-1	361 (400-1)		NA

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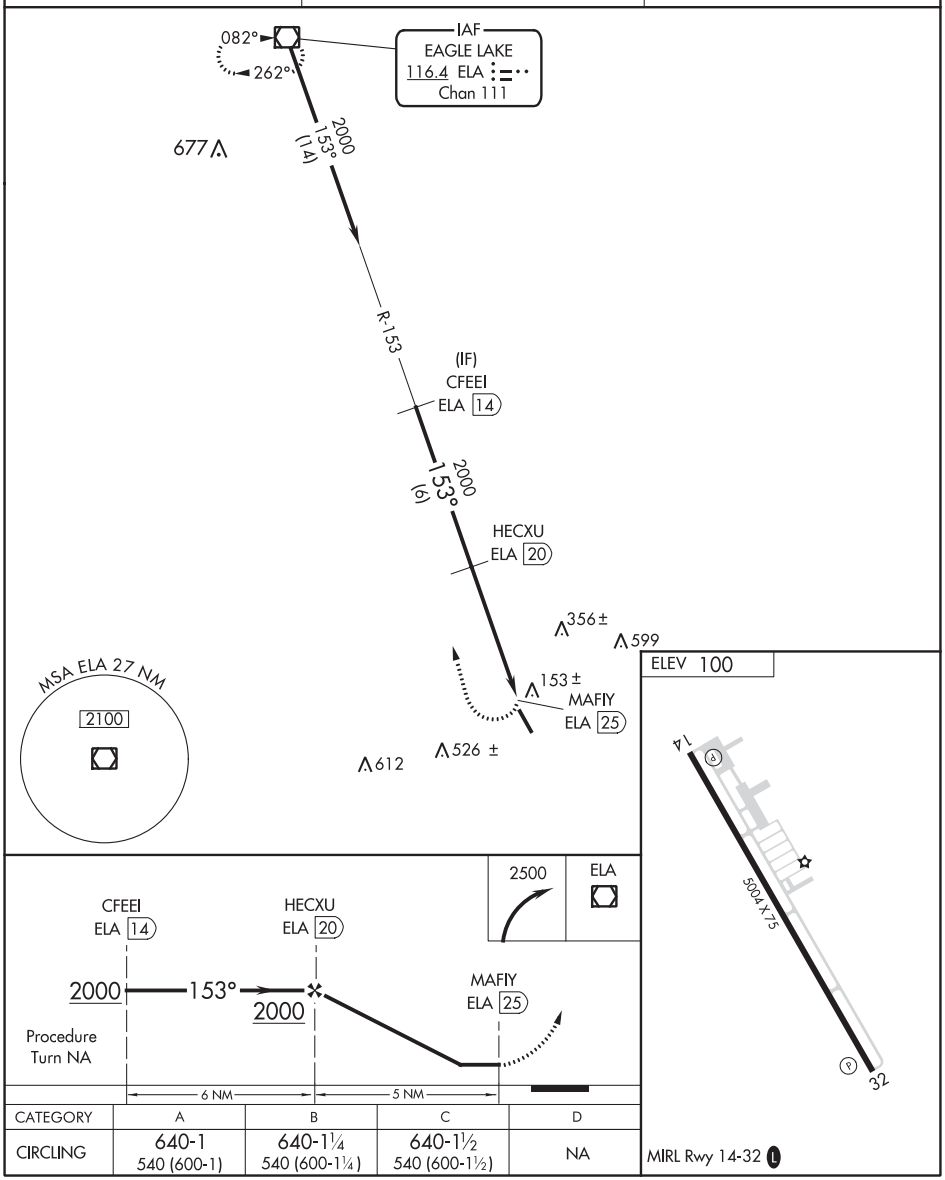
VOR/DME ELA	APP CRS	Rwy ldg	N/A
116.4	153°	TDZE	N/A
Chan 111		Apt Elev	100

VOR/DME-A
WHARTON RGNL (ARM)

When local altimeter setting not received, use Victoria altimeter setting and increase all MDA 120 feet, increase Circling Cat C visibility ¼ mile.

MISSED APPROACH: Climbing right turn to 2500 direct ELA VOR/DME and hold.

AWOS-3	HOUSTON CENTER	UNICOM
118.475	128.6 360.8	122.7 (CTAF) L



CATEGORY	A	B	C	D
CIRCLING	640-1 540 (600-1)	640-1¼ 540 (600-1¼)	640-1½ 540 (600-1½)	NA

MIRL Rwy 14-32 L

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WHARTON, TEXAS

AL-6032 (FAA)

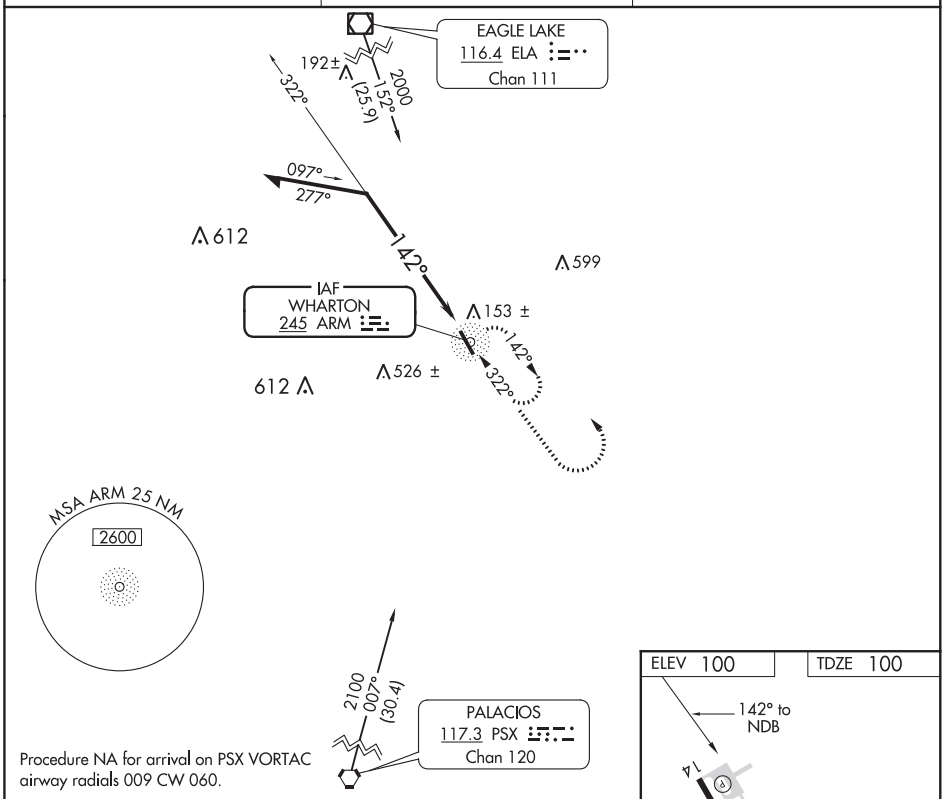
20254

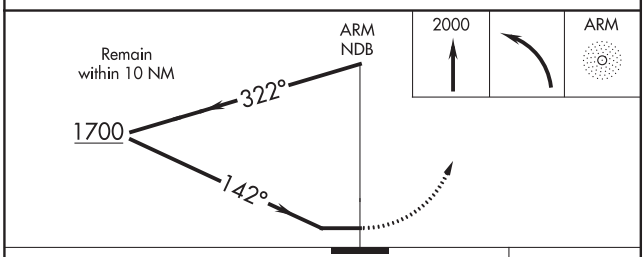
NDB RWY 14
WHARTON RGNL (ARM)

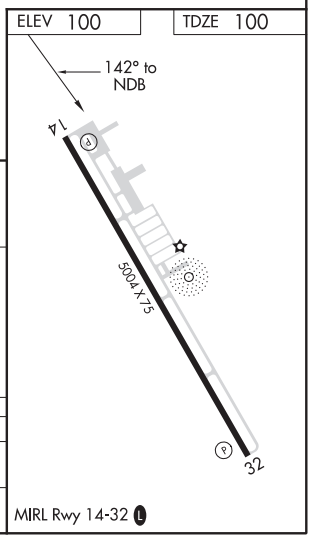
NDB ARM	APP CRS	Rwy ldg	5004
245	142°	TDZE	100
		Apt Elev	100

MISSED APPROACH: Climb to 2000 then left turn to ARM NDB and hold.

AWOS-3	HOUSTON CENTER	UNICOM
118.475	128.6 360.8	122.7 (CTAF) L







CATEGORY	A	B	C	D
S-14	560-1	460 (500-1)	560-1⅜ 460 (500-1⅜)	NA
CIRCLING	560-1	460 (500-1)	560-1½ 460 (500-1½)	NA

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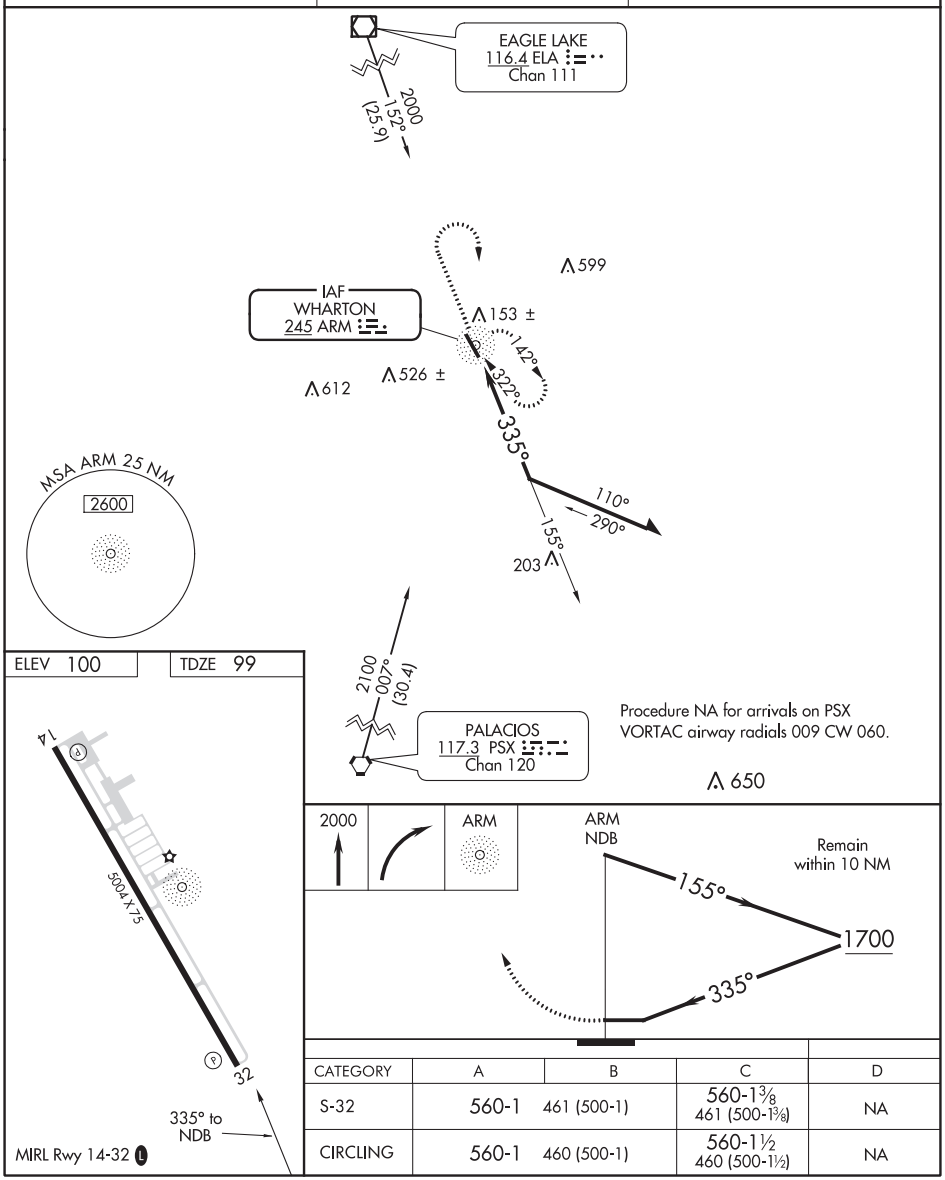
NDB RWY 32
WHARTON RGNL (ARM)

NDB ARM	APP CRS	Rwy ldg / TDZE / Apt Elev
245	335°	5004 / 99 / 100

MISSED APPROACH: Climb to 2000 then right turn direct ARM NDB and hold.

AWOS-3	HOUSTON CENTER	UNICOM
118.475	128.6 360.8	122.7 (CTAF) L



CATEGORY	A	B	C	D
S-32	560-1	461 (500-1)	560-1⅜ 461 (500-1⅜)	NA
CIRCLING	560-1	460 (500-1)	560-1½ 460 (500-1½)	NA

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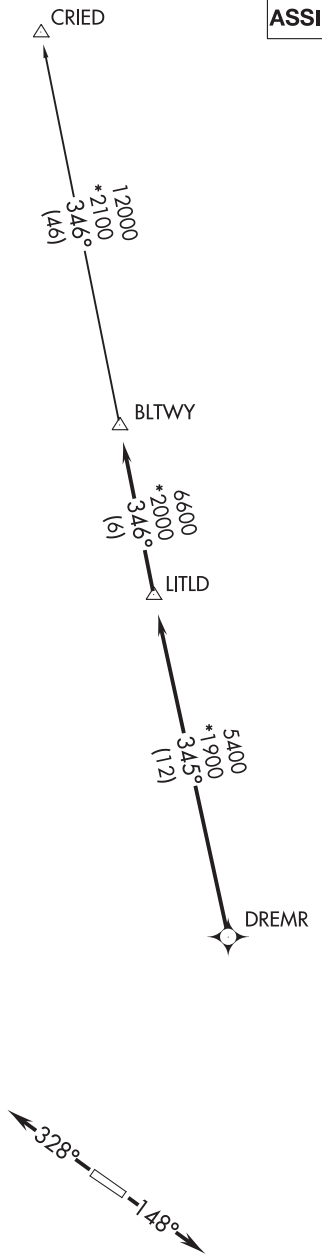
(BLTWY6.BLTWY) 19227 AL-6032 (FAA) WHARTON RGNL (ARM)

BLTWY SIX DEPARTURE (RNAV)

WHARTON, TEXAS

CTAF
122.7
HOUSTON CENTER
128.6 360.85

TOP ALTITUDE: ASSIGNED BY ATC



NOTE: RADAR required.

NOTE: DME/DME/IRU or GPS required.

NOTE: RNAV 1.

TAKEOFF MINIMUMS

Rwy 14, 32: Standard with a minimum climb of 500′ per NM to 600.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 14: Climb heading 148° or as assigned by ATC for RADAR vectors to DREMR, thence . . . .

TAKEOFF RWY 32: Climb heading 328° or as assigned by ATC for RADAR vectors to DREMR, thence . . . .

...on track 345° to LITLD, then on track 346° to BLTWY, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

CRIED TRANSITION (BLTWY6.CRIED)

NOTE: Chart not to scale.

SC-5, 25 FEB 2021 to 22 APR 2021

BLTWY SIX DEPARTURE (RNAV)

WHARTON, TEXAS

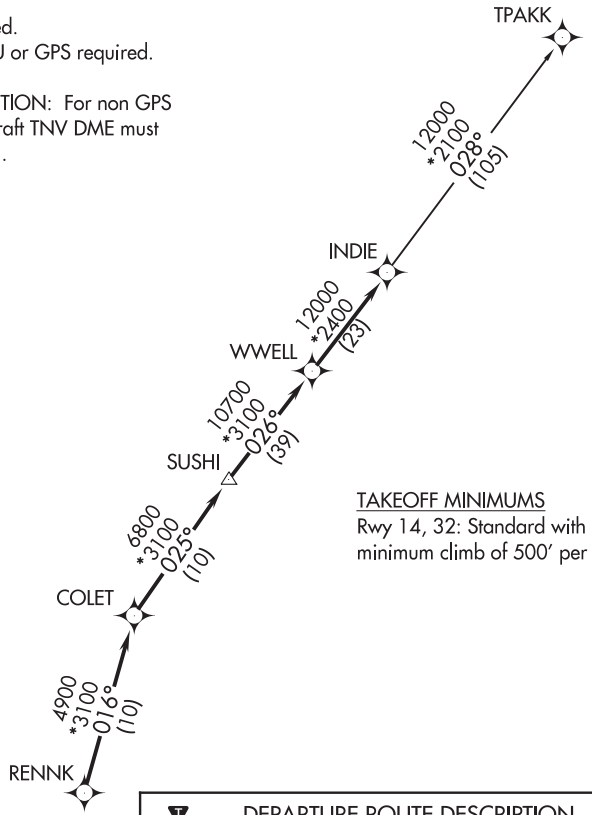
(BLTWY6.BLTWY) 25APR19 WHARTON RGNL (ARM)

INDIE SEVEN DEPARTURE (RNAV)

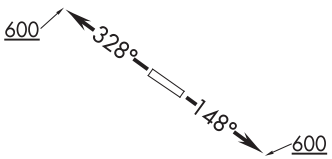
AWOS-3
118.475
CTAF
122.7
HOUSTON CENTER
128.6 360.85

TOP ALTITUDE: ASSIGNED BY ATC

NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV 1.
NOTE: TPAKK TRANSITION: For non GPS equipped aircraft TNV DME must be operational.



TAKEOFF MINIMUMS
Rwy 14, 32: Standard with a minimum climb of 500′ per NM to 600.



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 14: Climb on heading 148° to 600 for RADAR vectors to RENNK, thence . . . .
TAKEOFF RWY 32: Climb on heading 328° to 600 for RADAR vectors to RENNK, thence . . . .

. . . . on track 016° to COLET, then on track 025° to SUSHI, then on track 026° to WWELL, then on track 026° to INDIE, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

TPAKK TRANSITION (INDIE7.TPAKK)

(LURIC7.LURIC) 19283 AL-6032 (FAA)

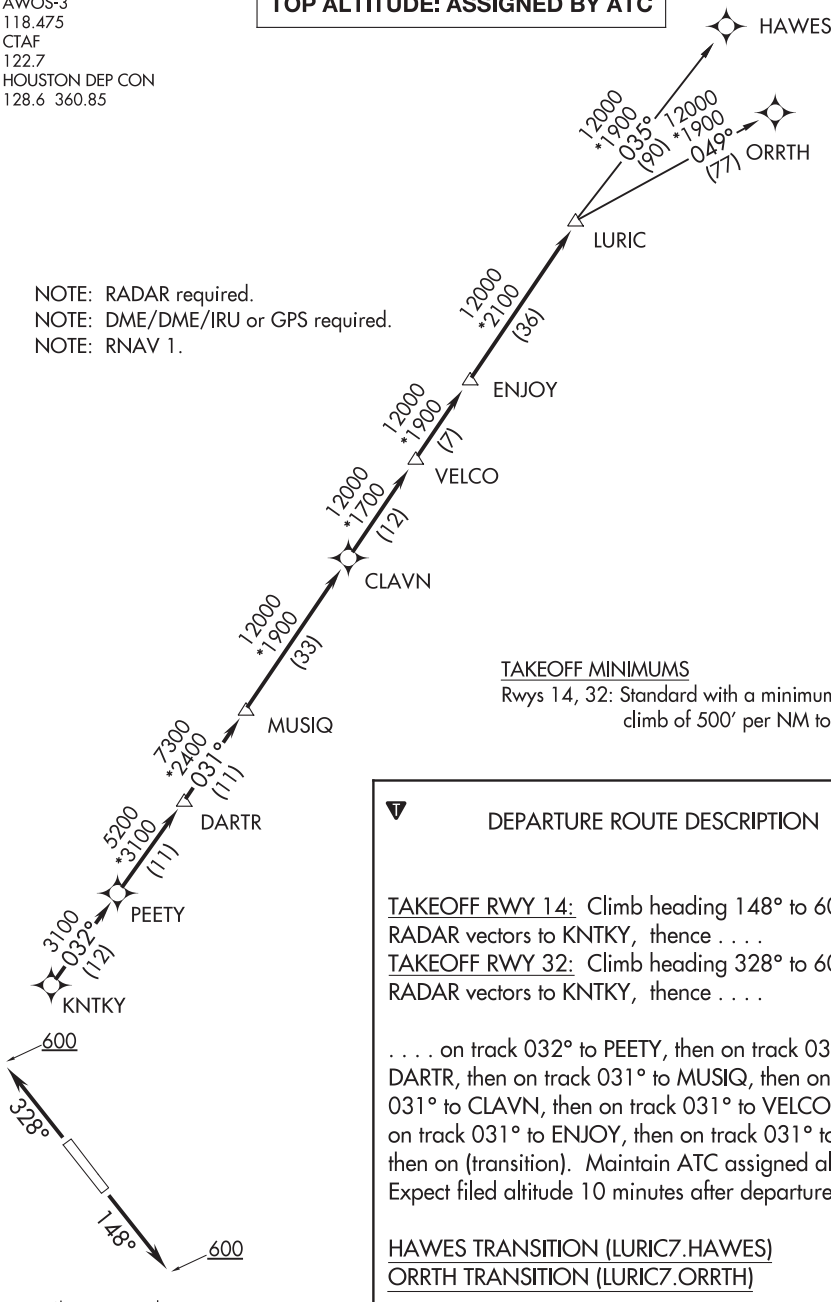
LURIC SEVEN DEPARTURE (RNAV)

WHARTON RGNL(ARM)
WHARTON, TEXAS

TOP ALTITUDE: ASSIGNED BY ATC

AWOS-3
118.475
CTAF
122.7
HOUSTON DEP CON
128.6 360.85

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



TAKEOFF MINIMUMS
Rwys 14, 32: Standard with a minimum climb of 500′ per NM to 600.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 14: Climb heading 148° to 600 for RADAR vectors to KNTKY, thence . . . .
TAKEOFF RWY 32: Climb heading 328° to 600 for RADAR vectors to KNTKY, thence . . . .

. . . . on track 032° to PEETY, then on track 032° to DARTR, then on track 031° to MUSIQ, then on track 031° to CLAVN, then on track 031° to VELCO, then on track 031° to ENJOY, then on track 031° to LURIC, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

HAWES TRANSITION (LURIC7.HAWES)
ORRTH TRANSITION (LURIC7.ORRTH)

NOTE: Chart not to scale.

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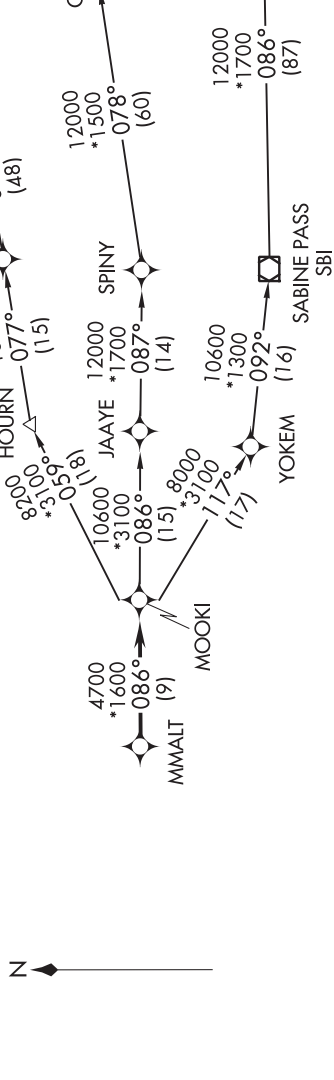
MMALT FIVE DEPARTURE (RNAV)

HOUSTON CENTER
128.6 360.85

TAKEOFF MINIMUMS
Rwy 14, 32: Standard with minimum climb of 500′ per NM to 600.



NOTE: DME/DME/IRU or GPS required.
NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: GUSTI and LCH TRANSITIONS ATC assigned only for aircraft departing AXH, EFD, GLS, HPY, IWS, LBX, LVJ, SGR, TME, T00, T41 and 54T.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 14: Climb on heading 148° to 600 for RADAR vectors to MMALT, thence. . . .
TAKEOFF RWY 32: Climb on heading 328° to 600 for RADAR vectors to MMALT, thence. . . .

. . . .on track 086° to MOOKI, then on (transition). Maintain ATC assigned altitude.
Expect filed altitude 10 minutes after departure.

GUSTI TRANSITION (MMALT5.GUSTI)
LAKE CHARLES TRANSITION (MMALT5.LCH)
WHITE LAKE TRANSITION (MMALT5.LLA)

NOTE: Chart not to scale.

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(STRYA7.STRYA) 19283 AL-6032 (FAA)

WHARTON RGNL(ARM)
WHARTON, TEXAS

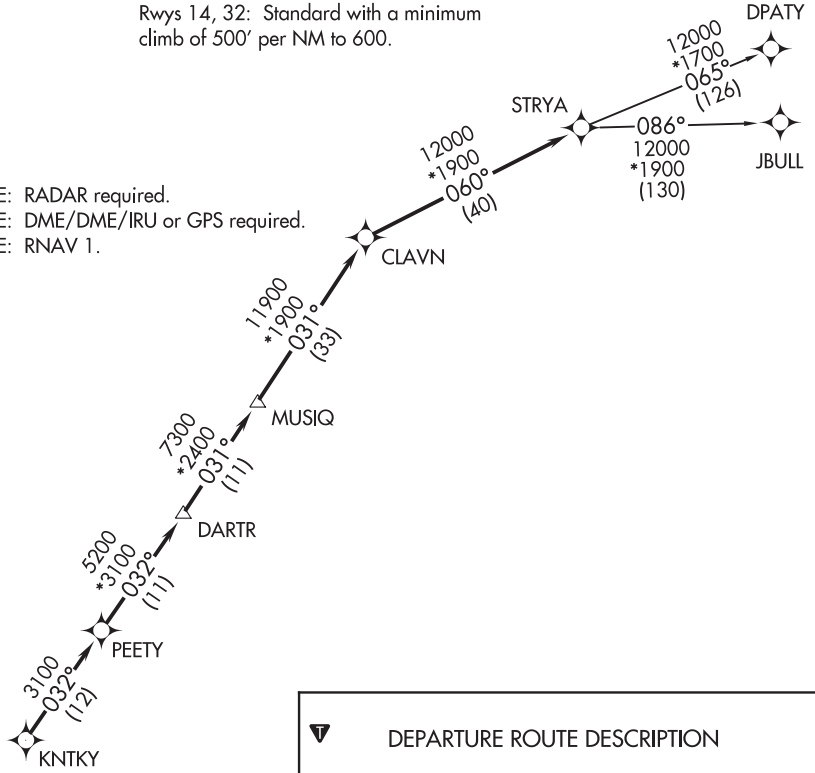
STRYA SEVEN DEPARTURE (RNAV)

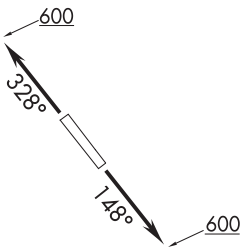
TOP ALTITUDE: ASSIGNED BY ATC

AWOS-3
118.475
CTAF
122.7
HOUSTON DEP CON
128.6 360.85

TAKEOFF MINIMUMS
Rwys 14, 32: Standard with a minimum climb of 500′ per NM to 600.

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





NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 14: Climb heading 148° to 600 for RADAR vectors to KNTKY, thence . . . .
TAKEOFF RWY 32: Climb heading 328° to 600 for RADAR vectors to KNTKY, thence . . . .

. . . . on track 032° to PEETY, then on track 032° to DARTR, then on track 031° to MUSIQ, then on track 031° to CLAVN, then on track 060° to STRYA, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

DPATY TRANSITION (STRYA7.DPATY)
JBULL TRANSITION (STRYA7.JBULL)

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STRYA SEVEN DEPARTURE (RNAV)
(STRYA7.STRYA) 25APR19

WHARTON, TEXAS
WHARTON RGNL(ARM)

STYCK SEVEN DEPARTURE (RNAV)

TOP ALTITUDE: ASSIGNED BY ATC

AWOS-3
118.475
CTAF
122.7
HOUSTON DEP CON
128.6 360.85

WTSON
DOLEY
12000
*2000
339°
(67)
12000
*2100
346°
(65)
STYCK
12000
*1900
332°
(39)
WLLIS
6400
*2000
331°
(17)
SPICR
3000
*2000
331°
(12)
BBYSE

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

TAKEOFF MINIMUMS
Rwys 14, 32: Standard with a minimum climb of 500′ per NM to 600.

600
328°
148°
600

NOTE: Chart not to scale.

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DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 14: Climb heading 148° to 600 for RADAR vectors to BBYSE, thence. . . .
TAKEOFF RWY 32: Climb heading 328° to 600 for RADAR vectors to BBYSE, thence. . . .

. . . .on track 331° to SPICR, then on track 331° to WLLIS, then on track 332° to STYCK, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

DOLEY TRANSITION (STYCK7.DOLEY)
WTSON TRANSITION (STYCK7.WTSON)

(WYLSN7.WYLSN) 19283 AL-6032 (FAA)

WHARTON RGNL(ARM)
WHARTON, TEXAS

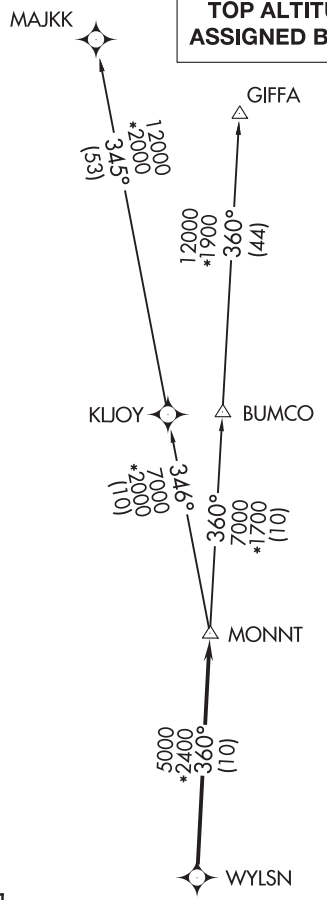
WYLSN SEVEN DEPARTURE (RNAV)

HOUSTON DEP CON
128.6 360.85

TOP ALTITUDE: ASSIGNED BY ATC

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

TAKEOFF MINIMUMS
Rwy 14, 32: Standard with minimum climb of 500′ per NM to 600.

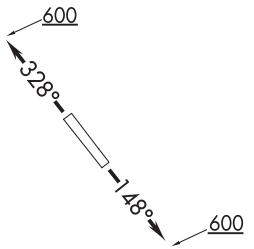


DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 14: Climb heading 148° to 600 for RADAR vectors to WYLSN, thence. . . .
TAKEOFF RWY 32: Climb heading 328° to 600 for RADAR vectors to WYLSN, thence. . . .

. . . .on track 360° to MONNT, then on (transition). Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure.

GIFFA TRANSITION (WYLSN7.GIFFA)
MAJKK TRANSITION (WYLSN7.MAJKK)



NOTE: Chart not to scale.

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CLIMB/DESCENT TABLE 10042

INSTRUMENT TAKEOFF OR APPROACH PROCEDURE CHARTS
RATE OF CLIMB/DESCENT TABLE

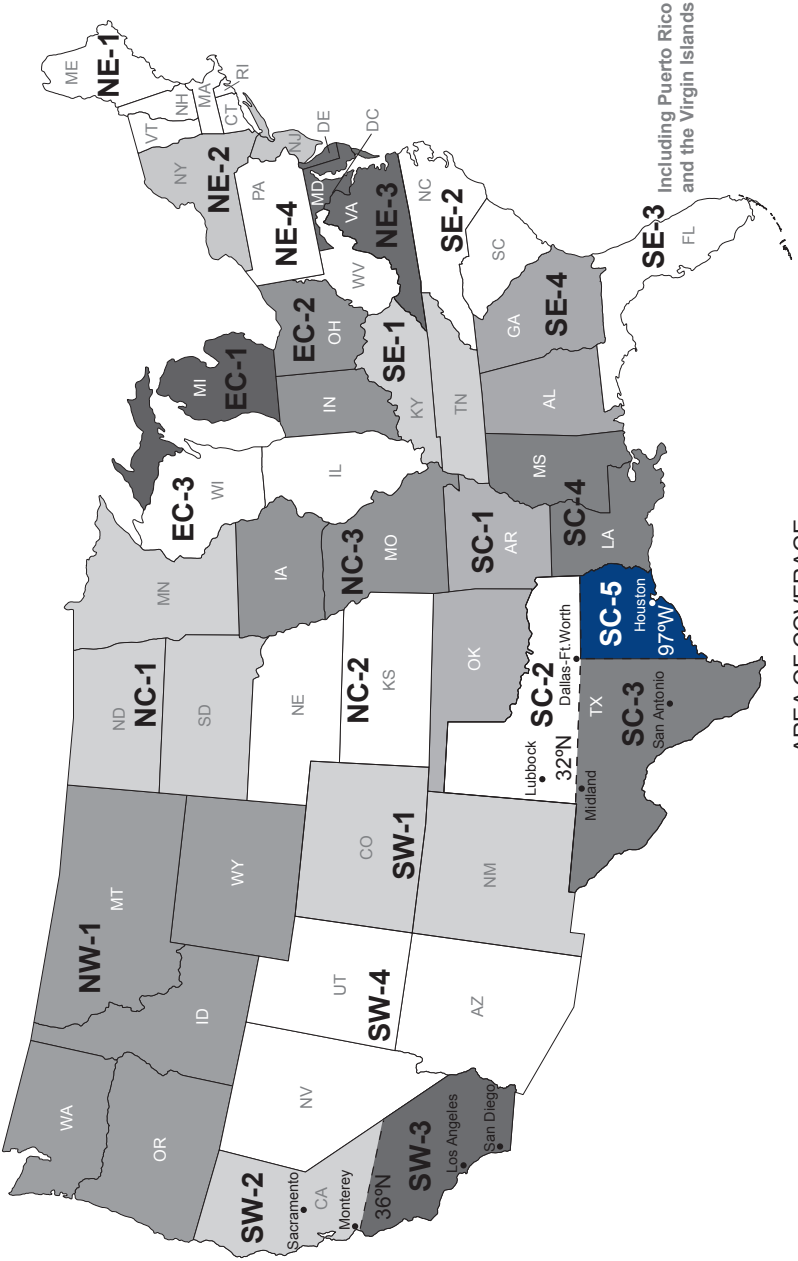
(ft. per min)

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



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EFF. DATE 21056